CAPITOLA COMMUNITY CENTER IMPROVEMENT PROJECT

BUILDING PERMIT & ENVIRONMENTAL HEALTH COMMENT RESPONSE SET (Updated Delta 2)

SUPPLEMENTAL DOCUMENTS:

Reviewed for Code Compliance

10/03/2024

CSG CONSULTANTS, INC.

HAZARDOUS MATERIALS REPORTS:

- A Asbestos Sampling Report
- B Lead Paint Inspection Report
- C Microbial Report

PROJECT CUTSHEETS

- 1 Lighting Fixtures
- 2 AEP Span
- 3 Polystick XFR
- 4 H-Shield
- 5 AHU-1
- 6 Baby Change Station
- 7 Dex-O-Tex Product Data
- 8 AEC Dimiseable Partition
- 9 Door Accessories
- 10 EF-1
- 11 Elkay ez H2O (Revised Delta 1)
- 12 LG AHU
- 13 Marmoleum Flooring
- 14 SCRC Sierra Series
- 15 Safecoat Polyureseal
- 16 Restroom Accessories
- 17 Sun Tunnel
- 18 Water Heater
- 19 Zero Sightline Series
- 20 Nichiha
- 21 OSS Perk Filter
- 22 Oldcastle Glazing Specification
- 23 RSIC-1 Acoustic Wall Channel
- 24 Kitchen Equipment Specifications (Added Delta 1)
- 25 SZS Consulting Group Draft ADA Transition Plan (Added Delta 1)
- 26 EVCS Blink Series-8
- 27 Schier SV10 (Added Delta 2)



Reviewed for Code Compliance

JM for EM Signed ______ 10/16/2024 Date _____

Permit # _____





December 7, 2023

Kailash Mozumder City Of Capitola 420 Capitola Avenue Capitola, CA, 95010

Re: Asbestos Survey 4400 Jade Street, Capitola Benchmark Project #: E23-2476-ASU On Site Technician: Jeremy Oliverio Capitola Community Center

ASBESTOS PRESENT

Dear Kailash Mozumder,

In accordance with our verbal agreement, Benchmark conducted an asbestos renovation/demolition survey of suspect asbestos containing materials (ACM) at 4400 Jade Street, Capitola on November 28, 2023. Benchmark inspected materials in general accordance with the Environmental Protection Agency (EPA) National Emission Standards for Hazardous Air Pollutants (NESHAP) building demolition requirements.

The property located at 4400 Jade Street consists of the Capitola Community Center. Benchmark understood that the facility will be undergoing renovation/remediation activities <u>in pre-designated areas</u> <u>only</u>. As such, suspect asbestos containing materials located in the following areas were sampled.

Location of Samples Collected:

- Meeting Room C
- Meeting Room B
- Meeting Room A
- Exterior
- Hall
- Men's Restroom
- Storage/Office
- Kitchen
- Roof

Suspect materials observed on the property site were:

- 12"x12" with Mastic
- Resilient Sheet Flooring with Mastic
- Basecove Mastic
- Stucco
- Wallboard/Joint Compound
- Texture
- Resilient Sheet Flooring with Mastic
- Basecove/Mastic
- Roof System
- Mastic on Roof
- Mastic on HVAC

Asbestos Present Asbestos Present



Permit # 20

E23-2476-ASU

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Asbestos sampling was performed by trained technician Jeremy Oliverio working under the supervision of Certified Asbestos Consultant (CAC) Terri MacFarlane (CAC #00-2747). The survey was conducted in general accordance with procedures described by the Environmental Protection Agency in 40 CFR 763 (AHERA) guidelines to determine the presence of exposed or accessible suspect asbestos-containing materials (ACM).

Bulk asbestos samples obtained from the building(s) were analyzed in the laboratory using Polarized Light Microscopy (PLM) with dispersion staining. The results of these analyses are presented in the Findings and Observations - Asbestos Laboratory Analytical Results Table.

Findings:

The following table provides information on the asbestos containing materials identified.

Material Description	Location	Percent Asbestos	Friable/Non- Friable	Category/Condition (RACM/Cat I/Cat II) (Good/Fair/Poor)	Estimated Quantity*
Mastic on Roof	Exterior	5% Chrysotile	Non-Friable	CAT I/Good	TBD by the
Mastic on HVAC	Exterior	2% Chrysotile	Non-Friable	CAT I/Poor	Contractor

*This is a field estimate only. All quantities should be confirmed prior to removal.

Asbestos Containing Materials (ACM)

The laboratory results (see attached) indicated that the aforementioned samples contained asbestos. A material is considered by the EPA to be asbestos-containing if at least one sample collected from the area shows asbestos present in an amount greater than one percent (> 1%).

Removal and disposal of asbestos containing materials (ACM) must be performed in accordance with Monterey Bay Air Resources District (MBARD) and California-Occupational Safety and Health Administration (CAL/OSHA) notification and work practice requirements. Applicable fees for removal and disposal may apply based upon quantity of asbestos being removed.

Assumed Asbestos Containing Materials (AACM):

Only the aforementioned materials were sampled during the course of this assignment. All other building materials are assumed to contain asbestos until sampled.

Synopsis/Recommendations

If the asbestos containing materials and/or asbestos containing construction materials are to be removed or disturbed, such activities must be conducted by a licensed asbestos abatement contractor.

- Asbestos containing waste must be bagged, labeled and disposed of at facility licensed to accept asbestos waste.
- A post removal verification inspection should be conducted following the removal of the asbestos containing materials.

The laboratory that conducted the analysis was EMSL Analytical Inc., located in Santa Clara California, 3501 Thomas Road, Unit 9 Santa Clara CA 95054 (408) 913-2714 NVLAP # 600318-0 (certificate attached). The laboratory will only hold bulk asbestos samples for 30 days.

Appendix A:	General Information/Methodology	
Appendix B:	PLM Laboratory Results	A OF CAMPE
Appendix C:	Laboratory and Benchmark Technician Certifications	
Appendix D:	Diagram of Sample Locations	APPROVEE JOB COPY

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Appendix E: Digital Images

We appreciate this opportunity to provide professional services for this project. If we can be of further assistance, or if you have any questions concerning this report, please do not hesitate to contact our office at (408) 448-7594.

Sincerely, Benchmark Environmental Engineering

slipt for

Terri MacFarlane, CAC #00-2747 Vice President



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JM for EM Signed ______ 19116/2024 Date ______ Permit # _____

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APPENDIX A- GENERAL INFORMATION/METHODOLOGY



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Regulated Asbestos Containing Materials (RACM)

The asbestos containing materials identified are Category I non-friable ACM that has become, or is likely to become friable as the result of significant fire damage, and therefore are considered Regulated Asbestos Containing Materials (RACMs).

Materials are considered by the EPA to be asbestos-containing if at least one sample collected from the area shows asbestos present in an amount greater than one percent (> 1%). Asbestos-containing materials (ACM) are regulated by federal, state, and local agencies.

The EPA National Emission Standards for Hazardous Air Pollutants (NESHAP) requires an inspection and identification for asbestos on facilities that are to undergo demolition or renovation work. Materials found to contain asbestos may need to be removed prior to the start of such demolition/renovation work.

EPA groups asbestos containing materials (ACM) into three (3) types:

- Friable ACM Asbestos containing materials that can reduce to powder by hand pressure such as, thermal system insulation (TSI), acoustical ceiling material.
- Category I non-friable ACM asbestos-containing resilient floor coverings or VAT, asphalt roofing products, packings and gaskets.
- Category II non-friable ACM any material, excluding Category I materials, that when dry, cannot be crumbled, pulverized or reduced to powder by hand pressure.

It is possible for any of the above types of ACM to become Regulated Asbestos Containing Materials (RACMs) under the Standard. RACMs are defined as:

- Friable ACM
- Category I non-friable ACM that has become friable.
- Category I non-friable ACM that has been or will be subjected to sanding, grinding, cutting, or

abrading

Category II non-friable ACM which has already been or is likely to become crumbled, pulverized, or reduced to powder by mechanical forces expected to act on the materials during demolition/renovation operations as covered by the Standard.

Methodology

General References

Inspection, sampling, and assessment procedures were performed in general accordance with the guidelines published by the EPA in 40 CFR Part 763 Subpart E, October 30, 1987. The survey consisted of three major activities: visual inspection, sampling, and analysis. Although these activities are listed separately, they are integrated tasks.

Visual Inspection

An initial building walkthrough was conducted to determine the presence of suspect materials that were accessible or exposed. Materials that were similar in general appearance were grouped into homogeneous sampling areas.

Homogenous Material Classification

A preliminary walkthrough of the building was conducted to determine areas of materials that were visual proved similar in color, texture, and general appearance and that appeared to have been installed at the same tipe corp

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Such materials are termed "homogeneous materials" by the EPA. During this walkthrough, the approximate locations of these homogeneous materials were noted.

Sampling Procedures

Following the walkthrough, the inspector collected selected samples of exposed or accessible materials identified as suspect ACM. EPA guidelines were used to determine the sampling protocol. Sampling locations were chosen to be representative of the homogeneous material.

Samples of surfacing material for asbestos were collected in general accordance with the EPA random sampling protocol outlined in the EPA publication, "Asbestos in Buildings: Simplified Sampling Scheme for Friable Surfacing Materials" (EPA 560/5-85-030a, October 1985). Samples of miscellaneous materials were taken as randomly as possible, while attempting to sample already damaged areas so as to minimize disturbance of the material.

Methods of Analysis

Asbestos- Polarized Light Microscopy (PLM)

Analysis was performed by visually observing the bulk sample and preparing slides for microscopic examination and identification. The samples were mounted on slides and then analyzed for asbestos (Chrysotile, Amosite, Crocidolite, Anthophyllite, and Actinolite/Tremolite), fibrous non-asbestos constituents (mineral wool, paper, etc.) and non-fibrous constituents. Asbestos was identified by refractive indices, morphology, color, pleochroism, birefringence, extinction characteristics, and signs of elongation. The same characteristics were used to identify the non-asbestos constituents.

The microscopist used a stereoscope to visually estimate relative amounts of each constituent using a stereoscope to determine the volume of each constituent in proportion to the total volume of the sample.

All bulk samples were analyzed by Polarized Light Microscopy (PLM) with dispersion staining as described by the interim method of the determination of asbestos in bulk insulation, Federal Register, Volume 47, No. 103, May 27, 1982. This is a standard method of analysis in optical mineralogy and the currently accepted method for the determination of asbestos in bulk samples. A suspect material is immersed in a solution of known refractive index and subjected to illumination by polarized light. The characteristic color displays that result enable mineral identification. It should be noted that some ACM may not be accurately identified or quantified by PLM. As an example, the original fabrication of vinyl floor tiles routinely involved milling of asbestos fibers to extremely small sizes. As a result, these fibers may go undetected under the standard polarized light microscopy method. Transmission Electron Microscopy (TEM) is recommended for a more definitive analysis of these materials.

Laboratory Quality Control Program

EMSL Analytical Inc., located in Santa Clara California, performed the analysis. EMSL maintains an inhouse quality control program. This program involves blind reanalysis of ten percent of all samples, precision and accuracy controls, and use of standard bulk reference materials



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APPENDIX B-PLM LABORATORY RESULTS



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APPENDIX C-LABORATORY and BENCHMARK CERTIFICATIONS



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EMSL	EMSL Analytical, Inc. 3501 Thomas Road, Unit 9 Santa Clara, CA 95054 Tel/Fax: (408) 913-2714 / (408) 913-2715 http://www.EMSL.com / santaclaralab@EMSL.com	EMSL Order: Customer ID: Customer PO: Project ID:	472301089 BENC55
Attention:	Wendy Johnson Benchmark Environmental Engineering,UPIN 3732 Charter Park Drive Suite A	Phone: Fax: Received Date: Analysis Date:	(800) 988-7424 (408) 448-3849 11/29/2023 10:26 AM 11/30/2023
Project:	San Jose, CA 95136 E23-2476-ASU-LI-MVI - 4400 JADE ST. CAPITOLA, CA. 95010	Collected Date:	11/28/2023

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbe	stos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
1B-Vinyl Floor Tile	MEETING RM C (WHITE/GREY) - 12X12 W/ MASTIC	Gray Non-Fibrous Homogeneous		80% Matrix 20% Non-fibrous (Other)	None Detected
		nomogonoodo	HA: 1		
1B-Mastic 472301089-0001A	MEETING RM C (WHITE/GREY) - 12X12 W/ MASTIC	Yellow Non-Fibrous Homogeneous		80% Matrix 20% Non-fibrous (Other)	None Detected
			HA: 1		
2B-Vinyl Floor Tile	MEETING RM B (WHITE/GREY) -	White Non-Fibrous		80% Matrix 20% Non-fibrous (Other)	None Detected
472301089-0002	12X12 W/ MASTIC	Homogeneous	HA: 1		
2B-Mastic	MEETING RM B (WHITE/GREY) -	Yellow Non-Fibrous		80% Matrix 20% Non-fibrous (Other)	None Detected
472301089-0002A	12X12 W/ MASTIC	Homogeneous	HA: 1		
3B-Sheet Flooring	MEETING RM C - CLOSET (BLUE/TAN)	Blue Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
472301089-0003	- RSF / MASTIC	Homogeneous	HA: 2		
3B-Mastic	MEETING RM C - CLOSET (BLUE/TAN)	Yellow Non-Fibrous		80% Matrix 20% Non-fibrous (Other)	None Detected
472301089-0003A	- RSF / MASTIC	Homogeneous	HA: 2		
4B-Sheet Flooring	MEETING RM B - CLOSET (BLUE/TAN)	Blue Fibrous	10% Cellulose	70% Matrix 20% Non-fibrous (Other)	None Detected
472301089-0004	- RSF / MASTIC	Homogeneous	HA· 2		
4B-Mastic	MEETING RM B - CLOSET (BLUE/TAN)	Yellow Non-Fibrous		80% Matrix 20% Non-fibrous (Other)	None Detected
472301089-0004A	- RSF / MASTIC	Homogeneous	HA: 2		
5B-Basecove	MEETING RM B - WALL 1 (BLUE) -	Blue Non-Fibrous		80% Matrix 20% Non-fibrous (Other)	None Detected
472301089-0005	BASECOVE MÁSTIC	Homogeneous	HA: 3	· · · · ·	
5B-Mastic	MEETING RM B - WALL 1 (BLUE) -	Beige Non-Fibrous		80% Matrix 20% Non-fibrous (Other)	None Detected
472301089-0005A	BASECOVE MASTIC	Homogeneous	HA: 3		
6B-Basecove	MEETING RM A - WALL 2 -	Blue Non-Fibrous		80% Matrix 20% Non-fibrous (Other)	None Detected
472301089-0006	BASECOVE MASTIC	Homogeneous	HA: 3		
6B-Mastic	MEETING RM A - WALL 2 -	Beige Non-Fibrous		80% Matrix 20% Non-fibrous (Other)	Appre Detected
472301089-0006A	BASECOVE MASTIC	Homogeneous	HA: 3	(0.0.0)	Reviewed for Code Compliance
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Initial report from: 11/30/2023 18:42:44



Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbe	stos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
7B 472301089-0007	EXTERIOR - STUCCO	Gray Non-Fibrous Homogeneous		80% Matrix 20% Non-fibrous (Other)	None Detected
8B	EXTERIOR -	Gray	HA: 4	20% Quartz	None Detected
472301089-0008	STUCCO	Non-Fibrous Homogeneous		60% Matrix 20% Non-fibrous (Other)	
9B-Wallboard	HALL - WALL 4 -	White	HA: 4	80% Matrix	None Detected
472301089-0009	WALLBOARD / J.C.	Non-Fibrous Homogeneous		20% Non-fibrous (Other)	
9B-Joint Compound	HALL - WALL 4 -		ΠΑ. 3		Layer Not Present
472301089-0009A	WALLBOARD / J.C.		HA: 5		
10B-Wallboard	MENS RESTROOM - WALL 3 -	Brown Non-Fibrous		80% Gypsum 20% Non-fibrous (Other)	None Detected
472301089-0010	WALLBOARD / J.C.	Homogeneous	HA: 5		
10B-Joint Compound	MENS RESTROOM - WALL 3 -				Layer Not Present
472301089-0010A	WALLBOARD / J.C.		HA: 5		
11B	HALL - WALL 4 - TEXTURE	White Non-Fibrous		80% Matrix 20% Non-fibrous (Other)	None Detected
472301089-0011		Homogeneous	HA: 6		
12B 472301089-0012	MENS RESTROOM - WALL 3 - TEXTURE	White Non-Fibrous Homogeneous		80% Matrix 20% Non-fibrous (Other)	None Detected
			HA: 6		
13B-Texture 472301089-0013	STORAGE/OFFICE - WALL 3 - TEXTURE	White Non-Fibrous Homogeneous		80% Ca Carbonate 20% Non-fibrous (Other)	None Detected
			HA: 6		
13B-Wallboard	STORAGE/OFFICE - WALL 3 - TEXTURE	White Non-Fibrous Homogeneous		80% Gypsum 20% Non-fibrous (Other)	None Detected
		homogeneous	HA: 6		
14B-Sheet Flooring	KITCHEN - FLOOR (GREY) - RSF /	Blue Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
472301089-0014	MASTIC	Homogeneous	HA: 7		
14B-Mastic	KITCHEN - FLOOR (GREY) - RSF /	Tan Non-Fibrous		80% Matrix 20% Non-fibrous (Other)	None Detected
472301089-0014A	MASTIC	Homogeneous	HA: 7		
15B-Sheet Flooring	KITCHEN - FLOOR (GREY) - RSF /	Gray Fibrous	10% Cellulose	70% Matrix 20% Non-fibrous (Other)	None Detected
472301089-0015	MASTIC	Homogeneous	HA: 7		a (4)
15B-Mastic		Yellow Non Fibrous		80% Matrix	Netected
472301089-0015A	MASTIC	Homogeneous	HA: 7	20% NOTI-HIDROUS (Uther)	APPROVED JOB COPY
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Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Ast	pestos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
16B-Basecove 472301089-0016	KITCHEN - WALL 4 (GREY) - BASECOVE / MASTIC	Gray Non-Fibrous Homogeneous		80% Matrix 20% Non-fibrous (Other)	None Detected
			HA: 8		
16B-Mastic 472301089-0016A	KITCHEN - WALL 4 (GREY) - BASECOVE / MASTIC	Beige Non-Fibrous Homogeneous		80% Matrix 20% Non-fibrous (Other)	None Detected
			HA: 8		
17B-Basecove 472301089-0017	KITCHEN - WALL 4 (GREY) - BASECOVE / MASTIC	Gray Non-Fibrous Homogeneous		80% Matrix 20% Non-fibrous (Other)	None Detected
			HA: 8		
17B-Mastic 472301089-0017A	KITCHEN - WALL 4 (GREY) - BASECOVE / MASTIC	Beige Non-Fibrous Homogeneous	HA· 8	80% Matrix 20% Non-fibrous (Other)	None Detected
18B-Roofing	EXTERIOR - ROOF -	Black	20% Glass	60% Matrix	None Detected
472301089-0018	ROOF SYSTEM	Fibrous Homogeneous		20% Non-fibrous (Other)	
			HA: 9	000/ 14 / 1	
18B-Backing 472301089-0018A	ROOF SYSTEM	White Non-Fibrous Homogeneous		80% Matrix 20% Non-fibrous (Other)	None Detected
			HA: 9		
19B-Roofing 472301089-0019	EXTERIOR - ROOF - ROOF SYSTEM	Black Fibrous Homogeneous	20% Glass	60% Matrix 20% Non-fibrous (Other)	None Detected
			HA: 9		
19B-Backing	EXTERIOR - ROOF - ROOF SYSTEM	White Non-Fibrous Homogeneous		80% Matrix 20% Non-fibrous (Other)	None Detected
		Homogeneous	HA: 9		
20B 472301089-0020	EXTERIOR - ROOF - MASTIC ON ROOF	Black Non-Fibrous Homogeneous		80% Matrix 15% Non-fibrous (Other)	5% Chrysotile
		Tiomogeneous	HA: 10		
21B	EXTERIOR - ROOF - MASTIC ON ROOF	Black Non-Fibrous		75% Matrix 20% Non-fibrous (Other)	5% Chrysotile
472301089-0021		Homogeneous	HA: 10		
22B	EXTERIOR - ROOF AREA - MASTIC ON	Gray Non-Fibrous	10.10	80% Matrix 18% Non-fibrous (Other)	2% Chrysotile
472301089-0022	HVAC	Homogeneous	LA- 11		
		Grav	ПА. 11	80% Matrix	2% Chrysotila
230	AREA - MASTIC ON	Non-Fibrous		18% Non-fibrous (Other)	2 % Onlysoule
472301089-0023	HVAC	Homogeneous	HA: 11	Х- /	AT LAND
					APPROVED



Date ______20240130



EMSL Analytical, Inc.

3501 Thomas Road, Unit 9 Santa Clara, CA 95054 Tel/Fax: (408) 913-2714 / (408) 913-2715 http://www.EMSL.com / santaclaralab@EMSL.com EMSL Order: 472301089 Customer ID: BENC55 Customer PO: Project ID:

Analyst(s)

Aimee Hartwig (18) Christian Albayalde (18)

Jonathan Comuna

Jonathan Nomura, Laboratory Manager or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above and you may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the report reflects the report of the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality or the above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4 control of the method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to enalysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on requested as a single sample.

Samples analyzed by EMSL Analytical, Inc. Santa Clara, CA NVLAP Lab Code 600318-0

Initial report from: 11/30/2023 18:42:44

Date

.

#472301089

BENCHMARK 3732 Charter Park Drive, Ste. A San Jose CA 95136 408-448-7594 / 408-448-3849 (fax)

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Project Address: <u>44</u> Sample Number \B J-B J-B J-B J-B J-B J-B J-B J-B J-B J-	DO JADE ST. CAPITOLA, CA. Location (WHITE/GREY) MEETING RM C (BLUE/TAN)	45010 Homogenous Group # or Measurement	Material Type or Component	Results To Be Reported As
Sample Number \B JB JB J S R N	Location (WHITE/GREY) MEETING RM C MEETING RM B (BLUE/TAN)	Homogenous Group # or Measurement	Material Type or Component	Results To Be Reported As
18 28 1 32 1	(WHITE/GREY) MEETING RM C MEETING RM B (BLUE/TAN)	0	12X12 W/MASTIC	1
	MEETING RM B (BLUE/TAN)			
38 1	(TSLUE/TAN)			
	MEETING RM C - CLOSET	(ع)	RSF/ MASTIC	
48 M	IEETING RM B- CLUSET	and the second		
58 M	EETING RM B - WALL	3	BASECOVE MASTIC	
68 N	IEETING Rn A - WALL 2			·
- 78 E	EXTERIOR	(4)	STUCCO	
88	4			
9B 1	HALL - WALL 4	6	WALLBOARD	
108 M	IENS RESTROOM - WALL 3	4	a	
Project Type (X boy Asbestos Bulk Lead-Based Paint Bu Risk Assessment	x) Type of Analysis (X bo ∝PLM/Bulk (EPA 600) ulk □ EPA SW 846-7420 FLA □ Dust Wipe (<u>Ghost Wipe</u> .	x) .A 5)	TAT (X b	ox) <u>v/Rush</u>
Clearance (Lead) Mold/Fungus	□ Soil (Lead) □ Paint Chip		A Date Nee	eded: <u>12/4/</u> 23
Sewage Screen (Post	t-Remediation) Qualitative (MUG) E.Co Direct Microscopic Exam Other:	oli/Coliforms m	Revi Codd Sien	APPROVED JOB COPY eved for e demain

OrderID: 472301089

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Email Lab Receipts & Reports To: labs@benchmarkenvironmental.com

Project #: <u>EƏ3-Ə</u>	1476-ASU-LI-MUI Date: 11.28-23	Technician:	J.O	
Project Address:	4400 JADE ST. (APITOLA, CA	4. 95010		
Sample Number	Location	Homogenous Group # or Measurement	Material Type or Component	Results To B Reported As
llb	HALL - WALL 4	6	TEXTURE	
12в	MENS REFTROOM . WALL 3			
138	STORAGE OFFICE . WALL 3	1	7	
14B	KITCHEN - FLOOR	$\overline{(7)}$	RSF/ MASTIC	
158			<u> </u>	
165	KITCHEN - WALL 4 (GREY)	(s)	BASECOVE / MASTIC	
178	KITCHEN WALLY			
[88]	EXTERIOR - ROOF	9	POOF SYSTEM	
100		<u></u>		
200	E. TOUR DE	(10)	MASTIC	
$\frac{700}{\text{Project Type (X)}}$	LX TERIOR C LOOT		1200F	
Asbestos Bulk	t Bulk □ EPA SW 846-7420 FLA □ Dust Wipe (<i>Ghost Wipe</i>	AA <u>s)</u>	□ <u>Same Da</u>	<u>v/Rush</u> / /
□ Clearance (Lead) □ Mold/Fungus □ Sewage Screen (I	□ Soil (Lead) □ Paint Chip Baseline) □ Water (Lead)		Date Nee	ded: <u>17/4/</u> 2 <u>.</u>
□ Sewage Screen (I □ Other:	Post-Remediation)	oli/Coliforms m	Rev	APPROVED JOB COPY iewed for te compliance
			Sigr	10/16/2024

OrderID: 472301089

#472301089

3732 Charter Park Drive, Ste. A San Jose CA 95136 408-448-7594 / 408-448-3849 (fax)

Please Include Sample Locations on Laboratory Report

Email Lab Receipts & Reports To: labs@benchmarkenvironmental.com

Project Address:	1400 JADE	ST. CAPITOLA	CA. 95	010	
Sample Number	L	ocation	Homogenous Group # or Measurement	Material Type or Component	Results To Be Reported As
210	EXTERIOR -	Roof	(0)	MASTIC Rost	
223	EXTERIOR	POOF AREA	(i)	MASTIC ON HVAC	
23B	1	Ţ		<u> </u>	
			-	-	-
Project Type (X	box)	Type of Analysis (X bo))x)	TAT (X b	ox)
Aspestos Bulk	Bulk	\mathcal{P} PLM/Bulk (EPA 600) \square EPA SW 846-7420 FLA	٩A	Dame Da	v/Rush
□ Risk Assessment □ Clearance (Lead) □ Mold/Fungus		□ Dust Wipe (<u>Ghost Wipe</u> □ Soil (Lead) □ Paint Chip	<u>ss)</u>	Date Nee	
⊐ Sewage Screen (I ⊐ Sewage Screen (I	Baseline) Post-Remediation)	□ Water (Lead) □ Qualitative (MUG) E.C	oli/Coliforms		APPROVED
□ Other:		Direct Microscopic Exa Other:	m	Ren Cor Sign	JOB COPY viewed for de Compliance ned

APPENDIX D-DIAGRAM OF SAMPLE LOCATIONS



E23-2476-ASU Environmental Engineering, Consulting, Testing and Training Corporate Office: 3732 Charter Park Drive, Ste. A San Jose, CA 95136 408-448-7594 * 408-448-3849 (Fax) • www.benchmarkenvironmental.com

M&C Environmental Training

Asbestos Contractor/Supervisor Refresher Training Course

Jeremy Oliverio

Has successfully completed the Asbestos Contractor/Supervisor Refresher course approved by the California Division of Occupational Safety and Health for purposes of certification required by Title 8, Article 2.7, Chapter 3.2, Section 341.16 and the accreditation required under the Toxic Substances Control Act, Title II. Conducted by M&C Environmental Training Inc., P.O. Box 6419, Concord, California Tel. # (510) 499 - 5646

Course Approval Number: CA-003-04

Location:	Concord, Califor
Dates:	January 27, 2023
Director of	Training: John Mc

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Ginnis . finns

Certificate Number 52151 SR

Expiration: January 27, 2024



10/16/2024 Permit # 20240180





State of California Division of Occupational Safety and Health

Terri MacFarlane Certified Asbestos Consultant – Certification Number 00-2747

State of California Division of Occupational Safety and Health Certified Asbestos Consultant



Terri A MacFarlane

Certification No. ____00-2747

Expires on _____05/03/24

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

Expiration Date: 05/03/2024

Reliable Resource in a Changing Environment

www.benchmarkenvironmental.com

United States Department of Commerce National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 600318-0

EMSL Analytical, Inc.

Santa Clara, CA

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Asbestos Fiber Analysis

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2023-01-01 through 2023-12-31

Effective Dates



For the National Voluntary Laboratory Accreditation Program



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

EMSL Analytical, Inc.

3501 Thomas Road Unit 9 Santa Clara, CA 95054 Jonathan Nomura Phone: 408-913-2714 Email: jnomura@emsl.com http://www.emsl.com

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 600318-0

Bulk Asbestos Analysis

<u>Code</u>	<u>Description</u>
18/A01	EPA 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

For the National Voluntary Laboratory Accreditation Program

APPENDIX E-DIGITAL IMAGES



Reviewed for Code Compliance

E23-2476-ASU Environmental Engineering, Consulting, Testing and Training Corporate Office: 3732 Charter Park Drive, Ste. A San Jose, CA 95136 408-448-7594 * 408-448-3849 (Fax) • www.benchmarkenvironmental.com



Capitola Community Center

4400 Jade Street Capitola, CA 95010







Capitola Community Center 4400 Jade Street Capitola, CA 95010












































































December 7, 2023

Kailash Mozumder City Of Capitola 420 Capitola Avenue Capitola, CA, 95010

Re: Lead Inspection 4400 Jade Street, Capitola Benchmark Project #: E23-2476-LI On Site Technician: Rob LoGrasso CDPH #LRC-00006770 Capitola Community Center

No Lead-Based Paint Identified

Dear Kailash Mozumder,

Benchmark Environmental Engineering conducted a Lead-based Paint Inspection and Lead Paint Chip Samples at 4400 Jade Street in Capitola. The survey was conducted on November 28, 2023. The inspection was conducted by California Department of Public Health Lead Inspector/Assessor Rob LoGrasso (CDPH #LRC-00006770).

Background:

4400 Jade Street consist of the Capitola Community Center. The purpose of the investigation is to determine the presence of lead-based paint and/or any hazards associated with lead-based paint.

The inspection was conducted in general accordance with the HUD Guidelines and consisted of inspecting the paint surfaces for the presence of lead and conducting a visual assessment of current conditions to determine if a hazard currently exists.

Findings:

Paint Inspection

In order to determine if lead based paint is present, *one hundred and eighty-eight* (188) assays were collected using an X-RAY FLOURESCENCE (XRF) instrument. The results indicated that <u>none of the building</u> components were above the EPA/HUD level of 1.0 mg/cm² or 5000 PPM. Refer to APPENDIX B-XRF Results

Lead Paint Chip Samples

Paint chip sampling was performed in accordance with the U.S. Department of Housing and Urban Development (HUD) guidelines for the Evaluation and Control of Lead-Based Paint Hazards. A 2" x 2" area was outlined and a sample of the surface coating was collected and placed in a clear zip lock baggy Samples were analyzed for lead content and the results are listed in the table below

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Permit # 2

Location	%/ by weight/ppm*	Lead Based Paint (Yes/No)	Worker Protection (Yes/No)
Roof Parapet Wall #1 (Brown)	0.013% 130 PPM	No	No
Meeting Room C – Closet, Wall #4 (Gray)	<0.006% <60 PPM	No	No
Meeting Room C – Door Frame, Wall #1 (Blue)	<0.007% <70 PPM	No	No
Janitor Closet – Wall #2 (White)	<0.006% <60 PPM	No	No
Rafter Tails – Wall #2 (Brown)	<0.006% <60 PPM	No	No

*ppm=parts per million

• The paint chip samples collected <u>were below</u> both the EPA/HUD level of 0.50% (5,000ppm) and the Cal-OSHA level of 0.06% (600 PPM) lead by weight.

Based upon the sample results, worker protection regarding lead-based paint is not required.

General:

- Appendix A General References
- Appendix B XRF Results
- Appendix C: Certification/Lead Hazard Evaluation Form
- Appendix D: Diagram

Benchmark is pleased to provide our services to you for this project. Please contact our office at 800-988-7424 if you have any questions or concerns.

Sincerely, Benchmark Environmental Engineering

1-2

Terri MacFarlane Vice President



Permit # 20

APPENDIX A-GENERAL REFERENCE



General Reference

Inspection, sampling, and assessment procedures were performed in general accordance with the guidelines published by The Department of Housing and Urban Development's (HUD) 1995 Guidelines, Chapter 7 Paint Inspection, and Chapter 5 Risk Assessment. The survey consisted of three major activities: visual inspection, sampling, and analysis. Although these activities are listed separately, they are integrated tasks.

Visual Inspection

A Department of Public Health Lead Inspector/Risk Assessor for the State of California performed the inspection. An initial building walkthrough was conducted to determine the presence of suspect materials that were accessible or exposed.

Sampling Process

Following the walkthrough, the inspector selected sample areas of exposed or accessible materials identified as suspect Lead-Based Paint. State and Federal Guidelines were used to determine the sampling protocol. Sampling locations were chosen to be representative of the homogeneous material.

Sampling Procedures Lead-Based Paint Inspection (X-Ray Fluorescence (XRF) Analysis)

XRF instruments measure lead-in-paint by directing high energy X-rays and gamma rays into the paint, causing the lead atoms in the paint to emit X-rays which are detected by the instrument and converted to a measurement of the amount of lead in the paint. The EPA approved technology allows for measurement of X-rays without scraping or samples preparation to characterize substrate or matrix effects. Sci-aps X550 analyzer is combined with a microprocessor system that enables field-testing with a high degree of quality control and speed. Sample locations, descriptions, conditions, and measurement results are automatically recorded by the instrument and easily downloaded to a PC or laptop.

All results were compared to the State and Federal Guidelines: $1.0 \text{ mg/cm}^2 = XRF-Lead-based Paint$

Hazard Rankings for Lead-Based Paint Inspection

The HUD Guidelines have established hazard ranking criteria for conducting lead-based paint inspections. A visual assessment is applied to each surface inspected/assayed. There are three (3) hazard rankings applied to surfaces/component condition

Intact: No deterioration of paint or surface coatings observed on surfaces or components Deteriorated: Any paint coating on a damaged or deteriorated surface, or any interior or exterior leadbased paint that is peeling, chipping, blistering, flaking, worn, chalking, alligatoring, cracking or otherwise becoming separated from the substrate.

Quality Control Program

Benchmark Environmental Engineering utilizes only CDPH approved inspectors, which are certified to use radioactive instruments. The Sci-Aps analyzer has on-board calibration routines, which continuously operate, and self-correct to minimized sampling error. This is known as substrate correcting software.

Analytical



SGS/Forensic Analytical located in Hayward, California performed the laboratory analysis. Their JCACOPY ELAP number is #101762. Samples are analyzed by Flame Atomic Absorption in accordance with ELAP

igned _____ 10/16/2024 Date

Permit # 2024

"Standard Operating Procedures for Lead in Paint by Hotplate or Microwave based Acid digestion and Atomic Absorption or Inductively Coupled Plasma Emission Spectrometry" (1991), EPA/600/8-91/213, NTIS Document No. PB92-114172. Samples are prepared by hotplate digestion with nitric acid and hydrogen peroxide, and analyzed by Flame AA.

Laboratory Quality Control Program

SGS/Forensic Analytical maintains an in-house quality control program. This program involves blind reanalysis of ten percent of all samples, precision and accuracy controls, and use of standard bulk reference materials.

Warranty

Benchmark Environmental Engineering warrants that the findings contained herein have been prepared with the level of care and skill exercised by experienced and knowledgeable environmental consultants who are appropriately licensed or otherwise trained to perform lead-related construction risk assessments and inspections pursuant to the scope of work required on this Project.

The work included inspection of accessible materials. BENCHMARK did not inspect or sample inaccessible areas such as behind walls or within ductwork, and did not dismantle any part of the structure to inspect inaccessible areas. For the purpose of this warranty, inaccessible is defined as areas of the building that could not be tested (sampled) without destruction of the structure or a portion of the structure. Inaccessible materials that are visible to Benchmark's inspectors shall be presumed to be lead-based paint



Permit # 2

APPENDIX B-XRF Results

Walls are referenced as 1, 2, 3, and 4 Wall 1 is the street side of the property

Walls 2, 3, and 4 are numbered clockwise



Capitola Community Center 4400 Jade St. Capitola CA

XRF Spread Sheet Exterior Only

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Calibrati	ons and Exterior	•							
Data ID #	# Room Type	Component	Wall #	Substrate	Condition	Color	PbC	Result	Date/Time
703	Calibration	*	*	*	*	*	1.1	Positive	11/28/2023 11:21
704	Calibration	*	*	*	*	*	1.1	Positive	11/28/2023 11:21
705	Calibration	*	*	*	*	*	1.2	Positive	11/28/2023 11:22
706	Calibration	*	*	*	*	*	1.2	Positive	11/28/2023 11:22
707	Lobby	Wall	1	Drywall	Intact	White/Offwhite	0	Negative	11/28/2023 11:35
708	Lobby	Window Frame	1	Wood	Intact	Blue	0	Negative	11/28/2023 11:36
709	Lobby	Baseboard	1	Wood	Intact	Blue	0	Negative	11/28/2023 11:36
710	Lobby	Wall	2	Drywall	Intact	White/Offwhite	0	Negative	11/28/2023 11:37
711	Lobby	Wall	3	Drywall	Intact	White/Offwhite	0	Negative	11/28/2023 11:37
712	Lobby	Door	3	Wood	Intact	White/Offwhite	0	Negative	11/28/2023 11:37
713	Lobby	Door Casing	3	Metal	Intact	Blue	0	Negative	11/28/2023 11:38
714	Lobby	Door Casing	4	Drywall	Intact	White/Offwhite	0	Negative	11/28/2023 11:38
715	Lobby	Door Casing	4	Wood	Intact	White/Offwhite	0	Negative	11/28/2023 11:39
716	Hallway	Wall	1	Drywall	Intact	White/Offwhite	0	Negative	11/28/2023 11:40
717	Hallway	Baseboard	1	Wood	Intact	Blue	0	Negative	11/28/2023 11:42
718	Hallway	Ceiling	1	Drywall	Intact	White/Offwhite	0	Negative	11/28/2023 11:43
719	Hallway	Door	1	Wood	Intact	White/Offwhite	0	Negative	11/28/2023 11:43
720	Hallway	Door Casing	1	Metal	Intact	Blue	0	Negative	11/28/2023 11:44
721	Hallway	Door Casing	2	Metal	Intact	Blue	0	Negative	11/28/2023 11:44
722	Hallway	Door	2	Wood	Intact	White/Offwhite	0	Negative	11/28/2023 11:44
723	Hallway	Wall	2	Drywall	Intact	White/Offwhite	0	Negative	11/28/2023 11:45
724	Hallway	Wall	3	Drywall	Intact	White/Offwhite	0	Negative	11/28/2023 11:45
725	Hallway	Door	3	Wood	Intact	White/Offwhite	0	Negative	11/28/2023 11:45
726	Hallway	Door Casing	3	Metal	Intact	Blue	0	Negative	11/28/2023 11:46
727	Hallway	Closet Door	3	Wood	Intact	White/Offwhite	0	Negative	11/28/2023 11:46
728	Hallway	Floor	3	Tile/Masonry	Intact	Grey	0	Negative	11/28/2023 11:47
729	Hallway	Wall	4	Drywall	Intact	White/Offwhite	0	Negative	11/28/2023 11:48
730	Hallway	Door	4	Wood	Intact	White/Offwhite	0	Negative	11/28/2023 11:48
731	Hallway	Door Casing	4	Metal	Intact	Blue	0	Negative	11/28/2023 11:48
732	Storage Room	Wall	1	Drywall	Intact	White/Offwhite	0	Negative	11/28/2023 11:50
733	Storage Room	Wall	2	Drywall	Intact	White/Offwhite	0	Negative	11/28/2023 11:51
734	Storage Room	Window Sill	2	Wood	Intact	White/Offwhite	0	Negative	11/28/2023 11:51
735	Storage Room	Window Sill	2	Drywall	Intact	White/Offwhite	0	Negative	11/28/2023 11:52
736	Storage Room	Baseboard	2	Wood	Intact	White/Offwhite	0	Negative	11/28/2023 11:52

Capitola C	apitola CA									
Data ID #	Room Type	Component	Wall #	Substrate	Condition	Color	PbC	Result	Date/Time	
737	Storage Room	Wall	3	Drywall	Intact	White/Offwhite	0	Negative	11/28/2023 11:53	
738	Storage Room	Ceiling	3	Drywall	Intact	White/Offwhite	0	Negative	11/28/2023 11:53	
739	Storage Room	Wall	4	Drywall	Intact	White/Offwhite	0	Negative	11/28/2023 11:53	
740	Storage Room	Door	4	Wood	Intact	White/Offwhite	0	Negative	11/28/2023 11:54	
741	Storage Room	Door Casing	4	Metal	Intact	Blue	0	Negative	11/28/2023 11:54	
742	Meeting Rm A	Door Casing	1	Metal	Intact	Blue	0	Negative	11/28/2023 11:55	
743	Meeting Rm A	Door	1	Wood	Intact	White/Offwhite	0	Negative	11/28/2023 11:55	
744	Meeting Rm A	Wall	1	Wood	Intact	Brown/Beige	0	Negative	11/28/2023 11:56	
745	Meeting Rm A	Ceiling	1	Drywall	Intact	White/Offwhite	0	Negative	11/28/2023 11:56	
746	Meeting Rm A	Chair Rail	1	Wood	Intact	Blue	0	Negative	11/28/2023 11:56	
747	Meeting Rm A	Trim	1	Wood	Intact	Blue	0	Negative	11/28/2023 11:57	
748	Meeting Rm A	Wall	1	Wood	Intact	Brown/Beige	0	Negative	11/28/2023 11:57	
749	Meeting Rm A	Wall	2	Wood	Intact	Brown/Beige	0	Negative	11/28/2023 11:58	
750	Meeting Rm A	Chair Rail	2	Wood	Intact	Blue	0	Negative	11/28/2023 11:58	
751	Meeting Rm A	Window Frame	2	Wood	Intact	Blue	0	Negative	11/28/2023 11:59	
752	Meeting Rm A	Window Frame	3	Wood	Intact	Blue	0	Negative	11/28/2023 11:59	
753	Meeting Rm A	Window Sill	3	Wood	Intact	Blue	0	Negative	11/28/2023 11:59	
754	Meeting Rm A	Chair Rail	3	Wood	Intact	Blue	0	Negative	11/28/2023 12:00	
755	Meeting Rm A	Wall	3	Wood	Intact	Brown/Beige	0	Negative	11/28/2023 12:00	
756	Meeting Rm A	Wall	4	Wood	Intact	White/Offwhite	0	Negative	11/28/2023 12:00	
757	Meeting Rm B	Wall	1	Wood	Intact	Brown/Beige	0	Negative	11/28/2023 12:02	
758	Meeting Rm B	Door	1	Wood	Intact	White/Offwhite	0	Negative	11/28/2023 12:02	
759	Meeting Rm B	Door Casing	1	Metal	Intact	Blue	0	Negative	11/28/2023 12:02	
760	Meeting Rm B	Chair Rail	1	Wood	Intact	Blue	0	Negative	11/28/2023 12:03	
761	Meeting Rm B	Ceiling	1	Wood	Intact	Blue	0	Negative	11/28/2023 12:03	
762	Meeting Rm B	Ceiling Molding	1	Wood	Intact	White/Offwhite	0	Negative	11/28/2023 12:03	
763	Meeting Rm B	Ceiling	1	Drywall	Intact	White/Offwhite	0	Negative	11/28/2023 12:04	
764	Meeting Rm B	Wall	2	Wood	Intact	Brown/Beige	0	Negative	11/28/2023 12:05	
765	Meeting Rm B	Chair Rail	2	Wood	Intact	Blue	0	Negative	11/28/2023 12:06	
766	Meeting Rm B	Chair Rail	3	Wood	Intact	Blue	0	Negative	11/28/2023 12:06	
767	Meeting Rm B	Window Frame	3	Wood	Intact	Blue	0	Negative	11/28/2023 12:07	
768	Meeting Rm B	Wall	3	Wood	Intact	Brown/Beige	0	Negative	11/28/2023 12:07	
769	Meeting Rm B	Ceiling	3	Wood	Intact	Blue	0	Negative	11/28/2023 12:07	
770	Meeting Rm B	Chair Rail	4	Wood	Intact	Blue	0	Negative	11/28/2023 12:08	
771	Meeting Rm B	Wall	4	Wood	Intact	Brown/Beige	0	Negative	11/28/2023 12:08	
772	Meeting Rm C	Ceiling	1	Drywall	Intact	Brown/Beige	0	Negative	11/28/2023 12:10	



Capitola (CA								
Data ID #	# Room Type	Component	Wall #	Substrate	Condition	Color	PbC	Result	Date/Time
773	Meeting Rm C	Door	1	Wood	Intact	White/Offwhite	0	Negative	11/28/2023 12:10
774	Meeting Rm C	Door Casing	1	Metal	Intact	Blue	0	Negative	11/28/2023 12:11
775	Meeting Rm C	Chair Rail	1	Wood	Intact	Blue	0	Negative	11/28/2023 12:11
776	Meeting Rm C	Wall	1	Wood	Intact	Brown/Beige	0	Negative	11/28/2023 12:12
777	Meeting Rm C	Wall	1	Drywall	Intact	Grey	0	Negative	11/28/2023 12:13
778	Meeting Rm C	Wall	2	Wood	Intact	White/Offwhite	0	Negative	11/28/2023 12:14
779	Meeting Rm C	Wall	3	Wood	Intact	Brown/Beige	0	Negative	11/28/2023 12:15
780	Meeting Rm C	Chair Rail	3	Wood	Intact	Blue	0	Negative	11/28/2023 12:15
781	Meeting Rm C	Window Frame	3	Wood	Intact	Blue	0	Negative	11/28/2023 12:16
782	Meeting Rm C	Window Sill	3	Wood	Intact	Blue	0	Negative	11/28/2023 12:16
783	Meeting Rm C	Window Frame	4	Wood	Intact	Blue	0	Negative	11/28/2023 12:16
784	Meeting Rm C	Chair Rail	4	Wood	Intact	Blue	0	Negative	11/28/2023 12:17
785	Meeting Rm C	Floor	4	Wood	Intact	Brown/Beige	0	Negative	11/28/2023 12:18
786	Kitchen	Floor	1	Drywall	Intact	White/Offwhite	0	Negative	11/28/2023 12:19
787	Kitchen	Ceiling	1	Drywall	Intact	White/Offwhite	0	Negative	11/28/2023 12:19
788	Kitchen	Door Casing	1	Wood	Intact	Blue	0	Negative	11/28/2023 12:19
789	Kitchen	Door	1	Wood	Intact	White/Offwhite	0	Negative	11/28/2023 12:23
790	H20 Htr Closet	Wall	1	Drywall	Intact	Grey	0	Negative	11/28/2023 12:24
791	Kitchen	Wall	2	Drywall	Intact	White/Offwhite	0	Negative	11/28/2023 12:24
792	Kitchen	Door	2	Wood	Intact	White/Offwhite	0	Negative	11/28/2023 12:25
793	Kitchen	Door Casing	2	Metal	Intact	Blue	0	Negative	11/28/2023 12:25
794	Kitchen	Closet Door	2	Wood	Intact	White/Offwhite	0	Negative	11/28/2023 12:25
795	Kitchen	Shelf	2	Wood	Intact	White/Offwhite	0	Negative	11/28/2023 12:26
796	Kitchen	Shelf Support	2	Wood	Intact	White/Offwhite	0	Negative	11/28/2023 12:26
797	Kitchen	Shelf Support	3	Wood	Intact	Blue	0	Negative	11/28/2023 12:27
798	Kitchen	Shelf	3	Wood	Intact	Blue	0	Negative	11/28/2023 12:28
799	Kitchen	Cabinet	3	Wood	Intact	Blue	0	Negative	11/28/2023 12:28
800	Kitchen	Wall	3	Drywall	Intact	White/Offwhite	0	Negative	11/28/2023 12:28
801	Kitchen	Door	3	Wood	Intact	White/Offwhite	0	Negative	11/28/2023 12:29
802	Kitchen	Door	3	Wood	Intact	White/Offwhite	0	Negative	11/28/2023 12:29
803	Kitchen	Door Casing	4	Wood	Intact	Blue	0	Negative	11/28/2023 12:30
804	Kitchen	Window Sill	4	Wood	Intact	Blue	0	Negative	11/28/2023 12:30
805	Kitchen	Window Frame	4	Wood	Intact	Blue	0	Negative	11/28/2023 12:31
806	Kitchen	Wall	4	Drywall	Intact	White/Offwhite	0	Negative	11/28/2023 12:31
807	Reception	Wall	1	Drywall	Intact	White/Offwhite	0	Negative	11/28/2023 12:32
808	Reception	Door Frame	1	Wood	Intact	Blue	0	Negative	11/28/2023 12:33



			*** ** //				DI G		D (/T)
Data ID #	Room Type	Component	Wall #	Substrate	Condition	Color	PbC	Result	Date/Time
809	Reception	Door	1	Wood	Intact	White/Offwhite	0	Negative	11/28/2023 12:33
810	Reception	Wall	2	Drywall	Intact	White/Offwhite	0	Negative	11/28/2023 12:33
811	Reception	Shelf	2	Wood	Intact	Blue	0	Negative	11/28/2023 12:34
812	Reception	Wall	3	Drywall	Intact	White/Offwhite	0	Negative	11/28/2023 12:35
813	Reception	Door	3	Wood	Intact	White/Offwhite	0	Negative	11/28/2023 12:35
814	Reception	Door Casing	3	Wood	Intact	Blue	0	Negative	11/28/2023 12:35
815	Reception	Cabinet	4	Wood	Intact	Blue	0	Negative	11/28/2023 12:36
816	Reception	Door Casing	4	Wood	Intact	Blue	0	Negative	11/28/2023 12:36
817	Reception	Door	4	Wood	Intact	White/Offwhite	0	Negative	11/28/2023 12:36
818	Office	Wall	1	Drywall	Intact	White/Offwhite	0	Negative	11/28/2023 12:38
819	Office	Window Frame	1	Wood	Intact	Blue	0	Negative	11/28/2023 12:38
820	Office	Window Sill	1	Wood	Intact	Blue	0	Negative	11/28/2023 12:39
821	Office	Window Sill	2	Wood	Intact	Blue	0	Negative	11/28/2023 12:39
822	Office	Window Frame	2	Wood	Intact	Blue	0	Negative	11/28/2023 12:39
823	Office	Wall	2	Drywall	Intact	White/Offwhite	0	Negative	11/28/2023 12:39
824	Office	Cabinet	2	Wood	Intact	Brown/Beige	0	Negative	11/28/2023 12:40
825	Office	Wall	3	Drywall	Intact	White/Offwhite	0	Negative	11/28/2023 12:40
826	Office	Door	3	Wood	Intact	White/Offwhite	0	Negative	11/28/2023 12:40
827	Office	Door Casing	3	Wood	Intact	Blue	0	Negative	11/28/2023 12:41
828	Office	Door Casing	4	Drywall	Intact	White/Offwhite	0	Negative	11/28/2023 12:41
829	Office	Header/Beam	4	Wood	Intact	Blue	0	Negative	11/28/2023 12:44
830	Office	Ceiling	4	Wood	Intact	Brown/Beige	0	Negative	11/28/2023 12:45
831	Women Bath	Wall	1	Wood	Intact	White/Offwhite	0	Negative	11/28/2023 12:48
832	Women Bath	Header/Beam	1	Wood	Intact	Blue	0	Negative	11/28/2023 12:49
833	Women Bath	Ceiling	1	Wood	Intact	Brown/Beige	0	Negative	11/28/2023 12:49
834	Women Bath	Ceiling Molding	1	Wood	Intact	Brown/Beige	0	Negative	11/28/2023 12:49
835	Women Bath	Wall	1	Tile/Masonry	Intact	Grey	0	Negative	11/28/2023 12:50
836	Women Bath	Wall	2	Tile/Masonry	Intact	Grey	0	Negative	11/28/2023 12:50
837	Women Bath	Floor	2	Tile/Masonry	Intact	Grey	0	Negative	11/28/2023 12:50
838	Women Bath	Wall	2	Tile/Masonry	Intact	Grey	0	Negative	11/28/2023 12:50
839	Women Bath	Wall	2	Drywall	Intact	White/Offwhite	0	Negative	11/28/2023 12:51
840	Women Bath	Wall	3	Drywall	Intact	White/Offwhite	0	Negative	11/28/2023 12:51
841	Women Bath	Wall	4	Drywall	Intact	White/Offwhite	0	Negative	11/28/2023 12:51
842	Women Bath	Door	4	Metal	Intact	Blue	0	Negative	11/28/2023 12:52
843	Women Bath	Wall	4	Tile/Masonry	Intact	Grey	0	Negative	11/28/2023 12:52
844	Women Bath	Door	4	Wood	Intact	White/Offwhite	0	Negative	11/28/2023 12:53



Capitola (CA					·			
Data ID #	Room Type	Component	Wall #	Substrate	Condition	Color	PbC	Result	Date/Time
845	Women Bath	Door Casing	4	Metal	Intact	Blue	0	Negative	11/28/2023 12:53
846	Men Bath	Wall	1	Drywall	Intact	White/Offwhite	0	Negative	11/28/2023 12:55
847	Men Bath	Wall	1	Tile/Masonry	Intact	Grey	0	Negative	11/28/2023 12:56
848	Men Bath	Header/Beam	1	Wood	Intact	Blue	0	Negative	11/28/2023 12:56
849	Men Bath	Ceiling	1	Wood	Intact	Brown/Beige	0	Negative	11/28/2023 12:57
850	Men Bath	Ceiling Molding	1	Wood	Intact	White/Offwhite	0	Negative	11/28/2023 12:57
851	Men Bath	Wall	2	Drywall	Intact	White/Offwhite	0	Negative	11/28/2023 12:57
852	Men Bath	Wall	2	Tile/Masonry	Intact	Grey	0	Negative	11/28/2023 12:58
853	Men Bath	Door	2	Metal	Intact	Blue	0	Negative	11/28/2023 12:58
854	Men Bath	Door	2	Wood	Intact	White/Offwhite	0	Negative	11/28/2023 12:58
855	Men Bath	Door Casing	2	Metal	Intact	Blue	0	Negative	11/28/2023 12:59
856	Men Bath	Wall	3	Drywall	Intact	White/Offwhite	0	Negative	11/28/2023 12:59
857	Men Bath	Wall	4	Drywall	Intact	White/Offwhite	0	Negative	11/28/2023 13:00
858	Men Bath	Wall	4	Tile/Masonry	Intact	Grey	0	Negative	11/28/2023 13:00
859	Exterior	Wall	1	Wood	Intact	Brown/Beige	0	Negative	11/28/2023 13:33
860	Exterior	Window Frame	1	Wood	Intact	Brown/Beige	0	Negative	11/28/2023 13:34
861	Exterior	Header/Beam	1	Wood	Intact	Brown/Beige	0	Negative	11/28/2023 13:34
862	Exterior	Wall	1	Stucco	Intact	White/Offwhite	0	Negative	11/28/2023 13:34
863	Exterior	Rafter Tails	1	Wood	Intact	Brown/Beige	0	Negative	11/28/2023 13:35
864	Exterior	Gutter	1	Metal	Intact	Brown/Beige	0	Negative	11/28/2023 13:36
865	Exterior	Downspout	1	Metal	Intact	Brown/Beige	0	Negative	11/28/2023 13:36
866	Exterior	Fascia	1	Wood	Intact	Brown/Beige	0	Negative	11/28/2023 13:37
867	Exterior	Eaves	1	Wood	Intact	Brown/Beige	0	Negative	11/28/2023 13:37
868	Exterior	Column/Post	1	Stucco	Intact	Brown/Beige	0	Negative	11/28/2023 13:38
869	Exterior	Column/Post	2	Stucco	Intact	Brown/Beige	0	Negative	11/28/2023 13:38
870	Exterior	Wall	2	Wood	Intact	Brown/Beige	0	Negative	11/28/2023 13:39
871	Exterior	Window Frame	2	Wood	Intact	Brown/Beige	0	Negative	11/28/2023 13:39
872	Exterior	Window Sill	2	Wood	Intact	Brown/Beige	0	Negative	11/28/2023 13:39
873	Exterior	Trim	2	Wood	Intact	Brown/Beige	0	Negative	11/28/2023 13:39
874	Exterior	Header/Beam	2	Wood	Intact	Brown/Beige	0	Negative	11/28/2023 13:40
875	Exterior	Rafter Tails	2	Wood	Intact	Brown/Beige	0	Negative	11/28/2023 13:40
876	Exterior	Wall	2	Stucco	Intact	White/Offwhite	0	Negative	11/28/2023 13:41
877	Exterior	Wall	3	Stucco	Intact	White/Offwhite	0	Negative	11/28/2023 13:43
878	Exterior	Column/Post	3	Stucco	Intact	Brown/Beige	0	Negative	11/28/2023 13:44
879	Exterior	Header/Beam	3	Wood	Intact	Brown/Beige	0	Negative	11/28/2023 13:44
880	Exterior	Wall	3	Wood	Intact	Brown/Beige	0	Negative	11/28/2023 13:45



Capitola	Capitola CA									
Data II) # Room Type	Component	Wall #	Substrate	Condition	Color	PbC	Result	Date/Time	
881	Exterior	Window Frame	3	Wood	Intact	Brown/Beige	0	Negative	11/28/2023 13:45	
882	Exterior	Window Sill	3	Wood	Intact	Brown/Beige	0	Negative	11/28/2023 13:45	
883	Exterior	Trim	3	Wood	Intact	Brown/Beige	0	Negative	11/28/2023 13:45	
884	Exterior	Wall	4	Wood	Intact	Brown/Beige	0	Negative	11/28/2023 13:46	
885	Exterior	Rafter Tails	4	Wood	Intact	Brown/Beige	0	Negative	11/28/2023 13:47	
886	Exterior	Rafter Tails	3	Wood	Intact	Brown/Beige	0	Negative	11/28/2023 13:47	
887	Exterior	Header/Beam	4	Wood	Intact	Brown/Beige	0	Negative	11/28/2023 13:48	
888	Exterior	Column/Post	4	Stucco	Intact	Brown/Beige	0	Negative	11/28/2023 13:48	
889	Exterior	Wall	4	Stucco	Intact	White/Offwhite	0	Negative	11/28/2023 13:48	
890	Exterior	Window Frame	4	Wood	Intact	Brown/Beige	0	Negative	11/28/2023 13:49	
891	Exterior	Gutter	4	Metal	Intact	Brown/Beige	0	Negative	11/28/2023 13:49	
892	Exterior	Downspout	4	Metal	Intact	Brown/Beige	0	Negative	11/28/2023 13:49	
893	Exterior	Window Sill	4	Wood	Intact	Brown/Beige	0	Negative	11/28/2023 13:51	
894	Exterior	Door Frame	4	Wood	Intact	Brown/Beige	0	Negative	11/28/2023 13:51	
895	Exterior	Gate	4	Wood	Intact	Brown/Beige	0	Negative	11/28/2023 13:51	
896	Calibration	*	*	*	*	*	1.1	Positive	11/28/2023 14:00	
897	Calibration	*	*	*	*	*	1.1	Positive	11/28/2023 14:01	
898	Calibration	*	*	*	*	*	1.2	Positive	11/28/2023 14:01	
899	Calibration	*	*	*	*	*	1.1	Positive	11/28/2023 14:01	





Metals Analysis of Paints (AIHA-LAP, LLC Accreditation, Lab ID #101762)

Benchmark E	nvironmental					Client ID:	3565
Project Manag	ger					Report Nu	mber: M255938
3732-A Chart	er Park Drive	•				Date Recei	ved: 11/29/23
						Date Analy	zed: 12/01/23
San Jose, CA	95136					Date Printe	ed: 12/04/23
						First Repo	rted: 12/04/23
Job ID / Site:	E23-2476-L	PC - 4400 Jade Street Capitol	a			SGSFL Job	DID: 3565
Date(s) Colle	cted: 11/28/2	23				Total Samp	oles Submitted: 5
						Total Samp	ples Analyzed: 5
Sample Numb	ber	Lab Number	Analyte	Result	Result Units	Reporting Limit*	Method Reference
E23-2476-11-	28-1PC	30931262	Pb	0.013	wt%	0.007	EPA 3050B/7000B
Comment:	ROOF PAR	APET WALL #1 BROWN Ad	ditional Resul	t: 130 ppm			
E23-2476-11-	28-2PC	30931263	Pb	< 0.006	wt%	0.006	EPA 3050B/7000B
Comment:	MEETING	RM C CLOSET WALL #4 GF	RAY Additiona	al Result: < 6	50 ppm		
E23-2476-11-	28-3PC	30931264	Pb	< 0.007	wt%	0.007	EPA 3050B/7000B
Comment:	MEETING	RM C DOOR FRAME WALL	#1 BLUE Add	ditional Resu	ılt: < 70 ppm	L	
E23-2476-11-	28-4PC	30931265	Pb	< 0.006	wt%	0.006	EPA 3050B/7000B
Comment:	JANITOR C	CLOSET WALL #2 WHITE A	dditional Resu	lt: < 60 ppm			
E23-2476-11-	28-5PC	30931266	Pb	< 0.006	wt%	0.006	EPA 3050B/7000B
Comment:	RAFTER T	AIL WALL #2 BROWN Addi	tional Result: <	< 60 ppm			

* The Reporting Limit represents the lowest amount of analyte that the laboratory can confidently detect in the sample, and is not a regulatory level. The Units for the Reporting Limit are the same as the Units for the Final Results.

Kevin Poon

Kevin Poon, Laboratory Supervisor, Hayward Laboratory

Analytical results and reports are generated by SGS Forensic Laboratories at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by SGS Forensic Laboratories to any third party without prior written request from client. This reporting the same will not be released by SGS Forensic Laboratories to any third party without prior written request from client. the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved bases Forensic Laboratories. The client is solely responsible for the use and interpretation of test results and reports requested from SGS Forensic Laboratories. SGS FoAPRROVEDoratories is not able to assess the degree of hazard resulting from materials analyzed. SGS Forensic Laboratories reserves the right to dispose of all samples after QBpcQBV of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. Any modifications that have been made to referenced test methods. are documented in SGS Forensic Laboratories' Standard Operating Procedures Manual. Sample results have not been blank corrected. Quality control and sample receipt condition were acceptable unless otherwise noted. Signed 10/16/2024 Date _

Note* Sampling data used in this report was provided by the client as noted on the associated chain of custody form.

Permit # 20

Page 1 of 1

	Email Lab Rece	BENC 3732 Charter Park Drive, 408-448-7594 / 4	CHN Ste. A S 108-448-	MARK A San Jose CA 95136 48-3849 (fax) Please Include Sample Locations on Laborator Report			lude Sample n Laboratory port
Page: of	/	BULK CHAIN	OF C	<u>enchmarkenvir</u> CUSTODY	onme	ental.com	
Project #: 122-	71121 1.81	11/2				20	
110ject#. <u>C25</u>	4110 +	Date:8	\$123	Technician: _	10	00	
Project Address:	1900 Jad	e street Cap	ntola	2			
Sample Number		Location		Group # or Magging	M	aterial Type or	Results To Be
E23-2476-11-28				Measurement	0	Component	Reported As
IPL a	loof Parapet w.	all#1 (Brown)		2"×2"	10	hp	1018421
2p2 m	necting Rm C t	luget wall #4 (Gray)	ſ		1]
3pc n	Meeting Run C 1000	Frame Wan#1 (B)	(ue)				
4PZ J	anitor closet wan	1#2 (white)					
L Spc 1	Ratter Tail w	211 # 2 (Brown)		d		à	ć
		and the second	- 172-11	an a	1. 1. T.		ALCONTRACT OF
	6				-		
		3					
Project Type (X box	x)	Type of Analysis ()	X box)			TATOL	
□ Asbestos Bulk	- 	□ PLM/Bulk (EPA 60)0)			IAI (A DOX)
Ead-Based Paint Bu	lk	□ EPA SW 846-7420	FLAA			□ Same Day/R	ush
□ Risk Assessment	•	□ Dust Wipe (Ghost W	Vipes)				
D Mold/Fungue		□ Soil (Lead)			\langle	Date Needer	t:
D Sewage Screen (Base	line)	GEAA Water (N	*		12/11/25	
□ Sewage Screen (Post-	-Remediation)	D OrAA water (Leau) E Cali/C	Oliforma	/	1214/25	(8) (2) (2)
□ Other:		□ Direct Microscopic] □ Other:	Exam	EIVED			APPROVED JOB COPY
Relinquished By:	with	Received By:	NOV	2 9 2023 113 2 Fx-6380	9	Date/Time:	Reviewed for Code Compliance Signed

APPENDIX C- CDPH CERTIFICATION/LEAD HAZARD EVALUATION REPORT



LEAD HAZARD EVALUATION REPORT

Section 1 — Date of Lead Hazard Evaluation										
Section 2 — Type of Lead H	lazard Evaluation (Check o	ne box only)								
Lead Inspection Risk assessment Clearance Inspection Other (specify)										
Section 3 — Structure Where Lead Hazard Evaluation Was Conducted										
Address [number, street, apartme	ent (if applicable)]	City	County	Zip Code						
Construction date (year) of structure	Type of structure Multi-unit building Single family dwelling	School or daycare	Children living in structure?							
Section 4 – Owner of Strue	cture (if business/agency, li	ist contact person)								
Name	Name Telephone number									
Address [number, street, apartme	ent (if applicable)]	City	State	Zip Code						
Section 5 – Results of Lea	d Hazard Evaluation (check	c all that apply)	·							
No lead-based paint detec	ted Intact lead-ba	ased paint detected t found 🗌 Lead-contami	Deteriorated lead-base	ed paint detected						
Section 6 — Individual Con	ducting Lead Hazard Evalu	ation								
Name		-	Telephone number							
Address [number, street, apartme	ent (if applicable)]	City	State	Zip Code						
CDPH certification number	Sigr	nature Rob Log	rasso	Date						
Name and CDPH certification nu	mber of any other individuals co	nducting sampling or testing (in	f applicable)							

Section 7 – Attachments

A. A foundation diagram or sketch of the structure indicating the specifc locations of each lead hazard or presence of lead-based paint;

B. Each testing method, device, and sampling procedure used;

C. All data collected, including quality control data, laboratory results, including laboratory name, address, and phone number.

First copy and attachments retained by inspector

Second copy and attachments retained by owner

Third copy only (no attachments) mailed or faxed to:

California Department of Public Health Childhood Lead Poisoning Prevention Branch Reports 850 Marina Bay Parkway, Building P, Third Floor Richmond, CA 94804-6403 Fax: (510) 620-5656





State of California Department of Public Health

John R. LoGrasso Lead Inspector/Assessor - Certification Number LRC-00006770 Project Monitor - Certification Number LRC-00006769



Expiration Date: 6/29/2024

Reliable Resource in a Changing Environment



AIHA Laboratory Accreditation Programs, LLC acknowledges that SGS Forensic Laboratories 3777 Depot Rd, Suite 409, Hayward, CA 94545-2761 Laboratory ID: LAP-101762

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs, LLC (AIHA LAP) accreditation to the ISO/IEC 17025:2017 international standard, General Requirements for the Competence of Testing and Calibration Laboratories in the following:

LABORATORY ACCREDITATION PROGRAMS

~	INDUSTRIAL HYGIENE	Accreditation Expires: July 01, 2025
\checkmark	ENVIRONMENTAL LEAD	Accreditation Expires: July 01, 2025
\checkmark	ENVIRONMENTAL MICROBIOLOGY	Accreditation Expires: July 01, 2025
	FOOD	Accreditation Expires:
	UNIQUE SCOPES	Accreditation Expires:
	BERYLLIUM FIELD/MOBILE	Accreditation Expires:

Specific Field(s) of Testing/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached Scope of Accreditation. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2017 and AIHA LAP requirements. This certificate is not valid without the attached Scope of Accreditation. Please review the AIHA LAP website (www.aihaaccreditedlabs.org) for the most current Scope.

Cheryf J. Marton

Cheryl O Morton Managing Director, AIHA Laboratory Accreditation Programs, LLC



Date Issued: 08/01/2023

Revision21: 05/15/2023



AIHA Laboratory Accreditation Programs, LLC SCOPE OF ACCREDITATION

SGS Forensic Laboratories

Laboratory ID: LAP-101762

Issue Date: 08/03/2023

3777 Depot Rd, Suite 409, Hayward, CA 94545-2761

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or withdrawal of accreditation.

Industrial Hygiene Laboratory Accreditation Program (IHLAP)

IHLAP Scope Category	Field of Testing (FOT)	Technology sub- type/Detector	Published Reference Method/Title of In-house Method	Component, parameter or characteristic tested
Asbestos/Fiber Microscopy Core	Phase Contrast Microscopy (PCM)	-	NIOSH 7400	Air
Asbestos/Fiber Microscopy Core	Polarized Light Microscopy (PLM)	-	40 CFR 763, Sub. E, Appendix E	Bulk Materials
Asbestos/Fiber Microscopy Core	Polarized Light Microscopy (PLM)	-	EPA 600/M4-82-020, 1982	Bulk Materials
Asbestos/Fiber Microscopy Core	Polarized Light Microscopy (PLM)	-	EPA 600/R-93/116, 1993	Bulk Materials
Asbestos/Fiber Microscopy Core	Transmission Electron Microscopy (TEM)	-	EPA 600/R-93/116	Bulk Materials
Asbestos/Fiber Microscopy Core	Transmission Electron Microscopy (TEM)	-	EPA AHERA - 40 CFR Part 763	Air
Asbestos/Fiber Microscopy Core	Transmission Electron Microscopy (TEM)	-	NIOSH 7402	Air
Asbestos/Fiber Microscopy Core	Transmission Electron Microscopy (TEM)	-	Yamate Level 1	Air
Asbestos/Fiber Microscopy Core	Transmission Electron Microscopy (TEM)	-	Yamate Level 2	Air
Miscellaneous Core	Gravimetric	-	NIOSH 0500	Total Dust
Miscellaneous Core	Gravimetric	-	NIOSH 0600	Respirable Dust
Spectrometry Core	Atomic Absorption	FAA	NIOSH 7082	Air
Spectrometry Core	Atomic Absorption	FAA	OSHA ID-121	Air, Wipe, Bulk
Spectrometry Core	Infrared	-	ASTM D7948	Air
Spectrometry Core	Infrared	-	NIOSH 7602	AirAPPROVED
Spectrometry Core	Infrared	-	NIOSH 7603	JOB COPY Air Breviewed for

Initial Accreditation Date: 03/01/1990

Effective: 05/15/2023 Revision: 10 Page 1 of 2 Code Compliance
Signed ______
10/16/2024
Date ______
Reprint # 20240130



A complete listing of currently accredited IHLAP laboratories is available on the AIHA LAP, LLC website at: <u>http://www.aihaaccreditedlabs.org</u>



Effective: 05/15/2023 Revision: 10 Page 2 of 2



AIHA Laboratory Accreditation Programs, LLC SCOPE OF ACCREDITATION

SGS Forensic Laboratories

Laboratory ID: LAP-101762

3777 Depot Rd, Suite 409, Hayward, CA 94545-2761

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or withdrawal of accreditation.

The EPA recognizes the AIHA LAP, LLC ELLAP program as meeting the requirements of the National Lead Laboratory Accreditation Program (NLLAP) established under Title X of the Residential Lead-Based Paint Hazard Reduction Act of 1992 and includes paint, soil and dust wipe analysis. Air and composited wipes analyses are not included as part of the NLLAP.

Environmental Lead Laboratory Accreditation Program (ELLAP)

Component, parameter or characteristic tested	Technology sub-type/Detector	Method	Method Description (for internal methods only)
Airborne Dust	AA	NIOSH 7082	N/A
		OSHA 121	N/A
Paint	AA	EPA SW-846 3050B	N/A
		EPA SW-846 7000B	N/A
		OSHA 121	N/A
Settled Dust by Wipe	AA	NIOSH 7082	N/A
		OSHA 121	N/A
Soil	AA	EPA SW-846 3050B	N/A
		EPA SW-846 7000B	N/A
		OSHA 121	N/A

Initial Accreditation Date: 06/26/1995

A complete listing of currently accredited ELLAP laboratories is available on the AIHA LAP, LLC website at: http://www.aihaaccreditedlabs.org

Issue Date: 08/03/2023



AIHA Laboratory Accreditation Programs, LLC SCOPE OF ACCREDITATION

SGS Forensic Laboratories

Laboratory ID: LAP-101762

Issue Date: 08/03/2023

3777 Depot Rd, Suite 409, Hayward, CA 94545-2761

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or withdrawal of accreditation.

Environmental Microbiology Laboratory Accreditation Program (EMLAP)

EMLAP Scope Category	Field of Testing (FOT)	Component, parameter or characteristic tested	Method	Method Description (for internal methods only)
Bacterial	Legionella	Bulks (liquid or solid)	SOP IAQ 213	Recovery of Legionellae from Water Samples
Bacterial	Legionella	Bulks (liquid or solid)	SOP IAQ 214	Recovery of Legionellae from Swab Samples
Fungal	Air - Culturable	Air	SOP IAQ 100	Analysis of Viable Air Samples for Identification of Fungal Mycota
Fungal	Air - Direct Examination	Spore Trap	SOP IAQ 101	Analysis of Non-Viable Air Samples for Identification of Fungal Mycota
Fungal	Bulk - Culturable	Bulks (liquid or solid)	SOP IAQ 103	Analysis of Viable Bulk Samples for Identification of Fungal Mycota
Fungal	Bulk - Direct Examination	Bulks (liquid or solid)	SOP IAQ 102	Analysis of Non- Viable Bulk Samples for Identification of Fungal Mycota
Fungal	Surface - Culturable	Bulks (liquid or solid)	SOP IAQ 103	Analysis of Viable Bulk Samples for Identification of Fungal Mycota
Fungal	Surface - Direct Examination	Bulks (liquid or solid)	SOP IAQ 102	Analysis of Non- Viable Bulk Samples for Identification of Fungal Mycota
Molecular	qPCR - Legionella	Speciation of Legionella	SOP IAQ 305	Amplification of genomic DNA by Polymerase Chain Reaction (PCR)
Molecular	qPCR - Mold Specific qPCR	Speciation of Fungi	SOP IAQ 305	Amplification of penomic DNA by Polyne ase Chain Reaction (CE)

Initial Accreditation Date: 11/01/2003

Reviewed for Code Compliance Signed ______ 10/16/2024 Date_____

rmit # 20240180



A complete listing of currently accredited EMLAP laboratories is available on the AIHA LAP, LLC website at: <u>http://www.aihaaccreditedlabs.org</u>



Effective: 05/15/2023 Revision: 8 Page 2 of 2

APPENDIX D-DIAGRAM





Capitola Community Center

4400 Jade Street Capitola, CA 95010





#PC – Sample Locations

APPROVED JOB COPY

Reviewed for Code Compliance Signed <u>After Da</u> 1990003 Date Permit 8 200930



Capitola Community Center

4400 Jade Street Capitola, CA 95010





December 6, 2023

Kailash Mozumder City Of Capitola 420 Capitola Avenue Capitola, CA, 95010

Re: Mold Visual Inspection 4400 Jade Street, Capitola Benchmark Project #: E23-2476-MVI Onsite Technician: Jeremy Oliverio/Rob LoGrasso Capitola Community Center

Visual Mold Investigation- Remediation is not Required

Dear Kailash Mozumder:

Thank you for contacting Benchmark regarding the project located at 4400 Jade Street, Capitola. A site visit was conducted November 28, 2023 per your request by Rob LoGrasso and Jeremy Oliverio.

Assessments on this date were based on visual site conditions that existed on the date of Benchmark's site visit. No determinations, evaluations, or conclusions, regarding indoor air quality and/or overall microbial bioburden were made, expressed or implied, by Benchmark.

Background

This property is the community center of Capitola. It has been reported of no known leaks or issues but is set of some upgrades soon and the city would like to have the structure inspected. Benchmark has been requested to conduct a mold visual inspection and provide a scope of work if needed.

Findings¹

Men's Bathroom:

- A musty/ mildew odor was noticeable upon entering the room.
- Discoloration was observed at the sink counter top and sink.
- No elevated moisture was detected.

Women's Bathroom:

- A musty/ mildew odor was noticeable upon entering the room.
- Discoloration was observed at the sink counter top and sink.
- No elevated moisture was detected.

Storage Room/ Back Office:

- A stain was observed on the carpet from a water jug leak from over a year ago.
- Dust was observed at the window track/ sill/ frame.
- No elevated moisture was detected.



JM for EM

Pagentin

E23-2476-MVI

¹ Wall designations: Wall #1-entry wall, #2- left of entry wall, #3- opposite of entry wall, #4- right of entry wall

Meeting Room A:

- No elevated moisture was detected.
- No discoloration was observed.

Hallway:

- No elevated moisture was detected.
- No discoloration was observed.

Janitor Closet:

- Slightly elevated moisture was detected above the sink.
- Slight musty odor was noticeable upon opening door.
- Discoloration was observed at the sink.

Art Supply Closet:

- Staining/ discoloration was observed at the ceiling.
- No elevated moisture was detected.

Meeting Room B:

- No elevated moisture was detected.
- No discoloration was observed.

Meeting Room A:

- No elevated moisture was detected.
- No discoloration was observed.

Lobby:

- No elevated moisture was detected.
- No discoloration was observed.

Kitchen:

- Discoloration/ dust were observed at the blinds and window track/ frame/ sill at wall #3.
- Discoloration was observed at the sink drain.

Water Heater Closet:

- No elevated moisture was detected.
- No discoloration was observed.

Reception Office:

- No elevated moisture was detected.
- No discoloration was observed.

Front Offices:

- No elevated moisture was detected.
- No discoloration was observed.

Recommendations

Professional Remediation is not being required at this time of inspection.

Men's Bathroom:

• Surface clean/ disinfect the counter top and sink due to discoloration.

Women's Bathroom:

• Surface clean/ disinfect the counter top and sink due to discoloration.



Pagenz

E23-2476-MVI

Storage/Back Office:

• Specialize clean/ disinfect the carpet due to staining.

Janitor Closet:

- Monitor the wall over the sink in place due to possible over splash.
- Surface clean/ disinfect the sink due to discoloration.

Art Supply Closet:

• Surface clean/ disinfect the ceiling due to staining/ discoloration. Prime and paint the ceiling after cleaning.

Kitchen:

- Surface clean/ disinfect the blinds at wall #3 due to discoloration/ dust.
- Surface clean/ disinfect the sinks due to discoloration.

General:

- Surface clean/ disinfect ALL of the windows tracks/ sills/ frame due to dust.
- Consider placing HEPA air filtration devices throughout to eliminate the current odors

Benchmark is pleased to provide our services to you for this project. Please contact our office at 408-448-7594 if you have any questions or concerns.

Sincerely, Benchmark Environmental Engineering

Terri MacFarlane Vice President



E23-2476-MVI





Capitola Community Center 4400 Jade Street Capitola, CA 95010










































































Resources

Institute of Inspection, Cleaning and Restoration Certification. Standard IICRC S520, *Standard Reference Guide for Professional Mold Remediation (2004)*

Limitations

Benchmark is not responsible for correcting the source of any moisture/mold issues on the subject property; however, if the source is not corrected, the moisture/mold issue can return. Benchmark will not accept liability for reoccurring mold/moisture conditions if the source is not corrected as part of the project.

This report is an original work product. This document is confidential and is for the subject client use only. This report is protected by the Copyright Act, Section 17 USC and has been prepared for the sole and exclusive use by the subject client.

Benchmark is not qualified to make medical opinions regarding any information contained within this report. An appropriate medical authority should be sought for this advice. This report summarizes the conclusions representing this firm's professional judgment based upon information and data available to us during the course of this assignment. Factual information provided by the client, owner or their representatives regarding the operations, conditions, test data, maintenance and repairs, or historical information were presumed to be accurate and complete. Additionally, the conclusions presented are based upon the conditions that existed at the time of the assessment(s).

The inspector(s)/hygienist(s) followed the same degree of care and skill ordinarily exercised, under similar conditions, by reputable inspector(s)/hygienist(s) practicing in this area. It is important to note, Benchmark has no actual knowledge or observations as to the methods or procedures utilized to clean/decontaminate the structure, contents, or systems. Furthermore, this document is not intended to demonstrate that the entire structure, contents or systems within the building is, or is not mold free; It is not reasonable or possible to make such assertions within any structure.



E23-2476-MVI

CAPITOLA COMMUNITY CENTER REMODEL PROJECT

PROJECT CUTSHEETS

- 1 Lighting Fixtures
- 2 AEP Span
- 3 Polystick XFR
- 4 H-Shield
- 5 AHU-1
- 6 Baby Change Station
- 7 Dex-O-Tex Product Data
- 8 AEC Dimiseable Partition
- 9 Door Accessories
- 10 EF-1
- 11 Elkay ez H2O
- 12 LG AHU
- 13 Marmoleum Flooring
- 14 SCRC Sierra Series
- 15 Safecoat Polyureseal
- 16 Restroom Accessories
- 17 Sun Tunnel
- 18 Water Heater
- 19 Zero Sightline Series
- 20 Nichiha
- 21 OSS Perk Filter



Reviewed for Code Compliance Signed ______ 19/16/2024 Date ______ Permit #_____20240190 LIGHTING FIXTURES



Reviewed for Code Compliance Signed ^{M for EM} Date ______ Permit II ²⁰²⁴⁰¹⁹⁰

MX4UD LED 4" Continuous Up/Down – Suspended



bios





TYPE:			
PROJECT:			



- Create elegant spaces with a seamless, continuous row of illumination
- Flat and proud lenses give designers a variety of looks
- Moveable mounting hardware easily slides along the length of the fixture providing variable mounting points
- High-performance up to 119 lm/W
- Linear extrusion contains snap-in light rails for ease of installation and maintenance
- Attractive source of direct and indirect lighting
- Versatile MX4 system includes recessed, surface, suspended and in-wall mounting, see hew.com
- Corner configurations available, see Product Builder at hew.com/product-builder
- Diffuse acrylic lens provides uniform illumination for visual comfort
- Wireless in-fixture control solutions available
- Available with BIOS® SkyBlue® technology to support proper daytime circadian stimulus
- Made Right Here® in the USA

SPECIFICATIONS

- HOUSING Extruded aluminum with diecast end plates.
- SHIELDING Extruded, flat, diffuse acrylic lens.
- FINISH Textured matte white polyester TGIC powder coat bonded to phosphatefree, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
- ELECTRICAL High-quality mid-power LED boards. L70 >60,000 hours per IES TM-21. 25°C maximum ambient operating temperature.
- MOUNTING Suspended. 1/16" diameter adjustable steel leveling aircraft cable and mounting hardware necessary for grid and hardpan ceiling applications provided.
- LISTINGS
 - cCSAus certified as luminaire suitable for dry or damp locations.
 - Complies with the Buy American Act and other federal regulations. Request certification at hew.com/baa.
- WARRANTY 5-year limited warranty, see hew.com/warranty

ORDERING EXAMPLE: MX4UD - 12'00 - L8/835U/L8/835D - A/F - AC/D48 - OPTIONS - CONTROL/DIM - UNV SERIES ILLUMINATED LENGTH MX4UD Lengths specified in feet and inches using 4" increments, 2' minimum.

Example: 12'00 = 12'-0"

Product Builder

CATALOG #1

Easily build shapes & simplify ordering with the Williams Linear Product Builder at hew.com/product-builder^[1]



LUMEN PACKAGE (EXAMPLE: L8/835U/L8/835D)			U/L8/835D)	SHIELDING UP	SHIELDING DOWN
Specify lume	n packages	: U for Uplight	and D for Downlight	A Flat, semi-diffuse acrylic	F Flat, diffuse acrylic
LUMENS ^[4] L8 800lm L12 1200lm L15 1500lm	CRI 8 80 9 90 ^[5]	CCT 27 2700K 30 3000K 35 3500K 40 4000K 50 5000K	U or D U Uplight D Downlight	F Flat, diffuse acrylic ^[2]	P Proud, diffuse acrylic with 5/16" drop ^[3]

MOUN	TING (EXAMPLE: AC/D4	18) ^[6]	OPTIONS [7]	1
Prefix	Туре	Length	See page 3 f	for FINISH OPTIONS.
AC/	D 1" grid & hardpan N 9/16" grid S Slot grid	24 24"48 48"96 96"	EM/10WRM ASYD ASYU ASYUD (L)	Remote mount 10-watt emergency battery ^[8] Downlight asymmetric distribution ^[9] Uplight asymmetric distribution ^[10] Up and down light asymmetric distribution ^[11] Additional lower lumen packages available ^[12] Example: 600 lumens = MX4UD-12'00-L8/835U/L8/835D-(L6U/L6D)

CONTROL [13]		DRIV	/ER	VOLTAGE
See page 6 for AD	DITIONAL CONTROL OPTIONS.	See page 4 for ADDITIONAL DRIVER OPTIONS.		120 120V 277 277V
AVI-LVFA AVI-LVFA-CS2-PIR AWNR AWNS	Avi-on wireless fixture control ^[14] Avi-on wireless fixture control with PIR motion and daylight sensor ^[15] Lutron Athena wireless node integral fixture control, RF only ^[16] Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing ^[17]	DIM DA DSR	Driver with external dimming wires. Up and down switch and dim together Driver with 12V auxiliary power without external dimming wires. Up and down switch together ^[18] Sensor-ready driver without external dimming wires (D4i DALI-2). Up and down switch together ^[19]	UNV 120-277V 347 347V ^[20]
NOTES ¹ See page 3 for C ² Recommended for where findness for	ORNER DETAILS. 7 See Techni or use in applications 8 See page 3	cal Info	for Power Entry details. ¹³ Sensor recommer JNTING DETAILS. downlight orienta	nded for use in ition only. Reduces

- where fixture will be viewed from above. Decreases lumen output. See page 3 for SHIELDING DETAILS.
- Not available with corner configurations. Lumens per foot output based on A Shielding Up and F Shielding Down, 80 CRI/3500K CCT. Actual performance may vary ± 5%. See page 2 for FIXTURE PERFORMANCE DATA. Additional lumen
- packages available, see Options. Extended lead times may apply. Consult 5
- factory for availability. See page 3 for MOUNTING DETAILS. 6
- Available with A and F shielding only. Creates uneven lens illumination. See page 3 for CROSS SECTIONS.
- 10 Available with A and F shielding only. Creates uneven lens illumination. See page 3 for CROSS SECTIONS.
- Available with A and F shielding only Creates uneven lens illumination. See page 3 for CROSS SECTIONS.
- 12 (L4U/L4D) lumen package minimum. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
- portion of lit fixture, consult factory. See page 4 for SENSOR & NODE PLACEMENT DETAILS. See page 5 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS
- DA Driver only. 14
- ¹⁵ DA Driver only.
 ¹⁶ DA and DSR Drivers only.
- ¹⁷ DA and DSR DriversARROVED
- 18 Avi-on and Lutron AIDE COPYols only.
- ¹⁹ Lutron Athena Controls only.
 ²⁰ Not available with M-batteries, control sensors, DA, or DSR Drivers Signed 10/16/2024 Date

MX4UD^{LED} 4" Continuous Up/Down – Suspended

FIXTURE PERFORMANCE DATA

		PER FOOT	
	DELIVERED LUMENS	WATTAGE	EFFICACY (Im/W)
L8	1683	14.2	119
L12	2370	21.9	108
L15	2885	27.6	105

- Photometrics tested in accordance with IESNA LM-79. Results based on Results based on A Shielding Up and F Shielding Down, 80 CRI/3500K CCT, average wattage for 120V through 277V input, and 25°C ambient temperature. Actual performance may vary +/-5% To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy. Use multiplier tables to calculate additional options. ÷

MUL	TIPLIE	r tabi	LES

	COLOR TEMPERATURE				
	ССТ	CONVERSION FACTOR			
	2700K	0.97			
≂	3000K	0.99			
0 CI	3500K	1.00			
œ	4000K	1.03			
	5000K	1.06			
	2700K	0.82			
≂	3000K	0.83			
0	3500K	0.84			
6	4000K	0.86			
	5000K	0.90			

ASY OPTION WATTAGE EFFICACY (Im/W) 0.98 1.02

PHOTOMETRY

MX4UD-4'00-L8/835U/L8/835D-A/F-DIM Total Luminaire Output: 6732 lumens; 56.8 Watts | Efficacy: 119 lm/W | 80 CRI; 3500K CCT



	VERTICAL		HOI	RIZONTAL AN	GLE		ZONAL
	ANGLE	0°	45°	90°	135°	180°	LUMENS
	0	1155	1155	1155	1155	1155	
	5	1175	1163	1135	1133	1145	109
	15	1123	1113	1091	1075	1081	309
	25	1026	1018	984	974	974	457
	35	879	873	847	829	821	531
NO	45	708	706	682	666	634	526
5	55	533	521	497	489	483	449
E E	65	338	330	318	312	312	318
ISI I	75	161	153	145	149	141	161
8	85	28	24	18	22	24	36
N	90	6	6	12	6	6	
Đ.	95	58	68	70	62	56	71
Ē	105	201	217	219	197	173	222
CA	115	400	427	447	394	360	411
	125	654	676	696	638	596	594
	135	938	948	950	905	861	712
	145	1149	1153	1161	1109	1085	711
	155	1302	1306	1312	1270	1246	595
	165	1380	1384	1398	1360	1344	388
	175	1396	1403	1429	1390	1370	133
	180	1398	1398	1398	1398	1398	

	ZONE	LUMENS	% FIXTURE
_	0 - 30	875	13
AR)	0 - 40	1406	21
MM	0 - 60	2380	35
SU	0 - 90	2894	43
Ē	90 - 120	704	11
S	90 - 130	1298	19
	90 - 150	2721	40
	90 - 180	3838	57
	0 - 180	6732	100

MX4UD-4'00-L8/835U/L8/835D/ASYUD-DIM-UNV Total Luminaire Output: 6501 lumens; 58.4 Watts | Efficacy: 111 lm/W | 80 CRI; 3500K CCT



	VERTICAL		ZONAL				
	ANGLE	0°	45°	90°	135°	180°	LUMENS
	0	1153	1153	1153	1153	1153	
	5	1149	1175	1188	1175	1149	109
	15	1101	1185	1221	1185	1101	311
	25	1011	1135	1187	1135	1011	468
	35	881	1024	1083	1024	881	556
S	45	726	868	922	868	726	566
<u>الح</u>	55	560	684	730	684	560	507
	65	384	481	516	481	384	387
ISI	75	203	275	300	275	203	227
E C	85	50	86	100	86	50	68
≥	90	5	26	39	26	5	
E	95	51	89	103	89	51	71
Ē	105	210	284	310	284	210	234
5	115	397	497	533	497	397	400
	125	578	706	754	706	578	524
	135	750	897	952	897	750	584
	145	910	1057	1118	1057	910	574
	155	1044	1172	1226	1172	1044	483
	165	1137	1223	1260	1223	1137	321
	175	1186	1213	1226	1213	1186	112
	180	1189	1189	1189	1189	1189	

	ZONE	LUMENS	% FIXTURE
~	0 - 30	887	14
AR	0 - 40	1443	22
M	0 - 60	2516	39
SU	0 - 90	3198	49
EN	90 - 120	704	11
ŝ	90 - 130	1228	19
	90 - 150	2386	37
	90 - 180	3302	51
	0 - 180	6501	100



Reviewed for Code Compli Signed _____ 10/16/2024 Date _

MX4UD^{LED} 4" Continuous Up/Down – Suspended

CROSS SECTIONS









MX4UD LED 4" Continuous Up/Down – Suspended

ADDITIONAL DRIVER OPTIONS

Note: Lumen restrictions apply, consult product builder at hew.com/product-builder.

CATALOG NUMBER	DESCRIPTION
DRV	Driver prewired for non-dimming applications; entire fixture switches together
DIM	Dimming driver prewired for 0-10V low voltage applications; entire fixture switches and dims together
DRVU/DRVD	Driver prewired for non-dimming applications; up and down portions switch separately
DRVU/DIMD	Driver prewired for non-dimming applications; up and down portions switch separately; 0-10V on down portion only
DIMU/DRVD	Up and down portions switch separately; dimming driver prewired for 0-10V low voltage applications on up portion only
DIMU/DIMD	Dimming driver prewired for 0-10V low voltage applications; up and down portions switch and dim separately
DRVDIMU	Entire fixture switches together; dimming driver prewired for 0-10V low voltage applications on up portion only
DRVDIMD	Entire fixture switches together; dimming driver prewired for 0-10V low voltage applications on down portion only
DIM1	1% dimming driver prewired for 0-10V low voltage applications
DIM LINE	Line voltage dimming driver (TRIAC and ELV compatible, 120V only)
DIM TRC	Line voltage dimming driver (TRIAC compatible, 120V only)
DIM LINEU/DIM LINED	Line voltage switching and line voltage dimming; up and down portions switch separately
DIM LINEU/DRVD	Up and down portions switch separately; line voltage dimming on up portion only
DRVU/DIM LINED	Up and down portions switch separately; line voltage dimming on down portion only
DA	Driver with 12V auxiliary power without external dimming wires. Up and down switch together.
DA-U/D	Driver with 12V auxiliary power without external dimming wires. Up and down switch separately.
DSR	Sensor-ready driver without external dimming wires (D4i DALI-2). Up and down switch together.
DSR-U/D	Sensor-ready driver without external dimming wires (D4i DALI-2). Up and down switch separately.

SENSOR & NODE PLACEMENT DETAILS

AVI-LVFA | WS-FS | WS-LMFS



SEE NEXT PAGE FOR CONTROL DETAILS



armit #



4" Continuous Up/Down – Suspended





For load controllers and additional accessory into, see hew.com/avi-on

sqqA **9lido**M

AVI-LVFA-CS2-PIR Avi-on wireless fixture control with PIR motion and daylight sensor. DA Driver only.

COMMISSIONING & INSTALLATION TOOLS



*

MX4UD LED 4" Continuous Up/Down – Suspended

AWNS Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing. DA and DSR Drivers only.

ADDITIONAL CONTROL OPTIONS

SPECIFICATIONS	
TYPE MOUNTING HEIGHT DETECTION ANGLE TEMPERATURE RANGE RELATIVE HUMIDITY COMMISSIONING	Radio Frequency 8' – 12' 360° 0° to 55°C 0 to 90%, non-condensing Clear Connect gateway – Type X with app (iOS or Android)
RER	with app (iOS or Android)
	SLUTRON

ATHENA CONTROL OPTIONS

CATALOG NUMBER	DESCRIPTION
AWNR	Lutron Athena wireless node integral fixture control, RF only, for use with D4i DALI-2 or driver with 12V auxiliary power.
AWNS	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing, for use with D4i DALI-2 or driver with 12V auxiliary power.
AWNR-BL	Lutron Athena wireless node integral fixture control, RF only, for use with D4i DALI-2 or driver with 12V auxiliary power, black finish.
AWNS-BL	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing, for use with D4i DALI-2 or driver with 12V auxiliary power, black finish.

OCCWS-FS-305-L6-PP-120/277 Wattstopper PIR motion and daylight hold off sensor with power pack, 120/277V

SPECIFICATIONS	
ТҮРЕ	PIR Motion + Daylight Hold Off
MOUNTING HEIGHT	8'
LENS	Indoor, non-wet location use
DETECTION ANGLE	360°
TEMPERATURE RANGE	-40° to 55°C
RELATIVE HUMIDITY	5% to 95%, non-condensing
COMMISSIONING	Dials under lens

SENSOR COVERAGE PATTERNS



SENSOR DETAIL



Dimensions: ø1-5/16"

OCCWS-LMFS-601-PP-120/277 Wattstopper PIR motion and daylight sensor with power pack, 120/277V

SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 12'
LENS	Up to 300 sq/ft coverage
DETECTION ANGLE	360°
TEMPERATURE RANGE	0° to 50°C
RELATIVE HUMIDITY	0 to 90%, non-condensing
COMMISSIONING	App (iOS or Android)

SENSOR COVERAGE PATTERNS

8' height: ø20' coverage





SENSOR DETAIL



Dimensions: ø1-5/16"











ILLUMINATED | ENGTH

4" increments, 2' minimum.

TYPE:	 	 	
PROJECT:	 		
		MERICA	



- Create elegant spaces with a seamless, continuous row of illumination
- Flat and proud lenses give designers a variety of looks
- High-performance up to 113 lm/W
- Linear extrusion contains snap-in light rails for ease of installation and maintenance
- Versatile MX4 system includes recessed, surface, suspended and in-wall mounting, see hew.com
- Corner configurations available, see Product Builder at hew.com/product-builder
- Diffuse acrylic lens provides uniform illumination for visual comfort
- Wireless in-fixture control solutions available
- Available with BIOS® SkyBlue® technology to support proper daytime circadian stimulus
- Made Right Here® in the USA

SPECIFICATIONS

- HOUSING Extruded aluminum with die-cast end plates.
- SHIELDING Extruded, flat, diffuse acrylic lens
- FINISH Textured matte white polyester TGIC powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
- ELECTRICAL High-quality mid-power LED boards. L70 >60,000 hours per IES TM-21.
- MOUNTING Surface.
- LISTINGS
 - cCSAus certified as luminaire suitable for dry or damp locations.
- Complies with the Buy American Act and other federal regulations. Request certification at hew.com/baa.
- WARRANTY 5-year limited warranty, see hew.com/warranty.

4 E	" increment xample: 12'(s, 2′ minimur)0 = 12′-0″	n.	Easily buil Builder at	d shapes & s hew.com/pr	simplify o oduct-bu	rdering ilder ^[1]	with the	William	s Linear Pi	roduct
LUMENS ^[2]	CRI	ССТ	SHIELDING			3]					

Lengths specified in feet and inches using

CRI ССТ 27 2700K 8 80 **9** 90^[4] **30** 3000K 35 3500K 40 4000K 50 5000K



Product Builder

ORDERING EXAMPLE: MX4S - 12'00 - L8/835 - F - OPTIONS - CONTROL/DIM - UNV

OPTIONS^[3] See page 3 for FINISH OPTIONS. 10-watt emergency battery ^[6] EM/10W EM/10WRM Remote mount 10-watt emergency battery [7] Asymmetric distribution [8] ASY (L___) Additional lower lumen packages available [9] Example: 600 lumens = MX4S-12'00-L8/835-(L6)

VOLTAGE

120 120V

277 277V

UNV 120-277V

347 347V^[17]

CONTROL		DRIV	/ER
See page 5 for ADD	ITIONAL CONTROL OPTIONS.	See J	page 6 for AL
_	None	OPTI	UNS.
AVI-LVFA	Avi-on wireless fixture control [11]	DIM	Driver with e
AVI-LVFA-CS2-PIR	Avi-on wireless fixture control with PIR	DRV	Driver witho
	motion and daylight sensor ^[12]	DA	Driver with 1
AWNR	Lutron Athena wireless node integral		without exte
	fixture control, RF only [13]	DSR	Sensor-read
AWNS	Lutron Athena wireless node integral		dimming wir
	fixture control, RF with daylight and		

occupancy sensing ^[14]

CATALOG #: _

DITIONAL DRIVER

- external dimming wires
- out external dimming wires
- 12V auxiliary power, ernal dimming wires ^[15]
- ly driver without external res (D4i DALI-2) ^[16]

NOTES

SERIES

MX4S

L8 800lm

L12 1200lm

L15 1500lm

00NTD01 [10]

- See page 3 for FIXTURE DETAILS. Lumens per foot output based on F Shielding, 80 CRI/3500K CCT. Actual performance may vary \pm 5%. See page 2 for FIXTURE PERFORMANCE DATA. Additional lumen packages
- available, see Options. See Technical Info for Power Entry details. Extended lead times may apply. Consult factory for availability. See page 2 for CROSS SECTIONS. Not available with corner

- L8 and L12 only. Not available with fixtures less than 4'. See page 3 for FIXTURE DETAILS. Available with F shielding only. Creates uneven lens illumination. See page 2 for CROSS SECTIONS. 8
- (L4) lumen package minimum. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
- Reduces portion of lit fixture, consult factory. See page 3 for SENSOR & NODE PLACEMENT DETAILS. See page 4 for 10 AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS.
- DA driver only.
- ¹² DA driver only.
 ¹³ DA and DSR Drivers only.
 ¹⁴ DA and DSR Drivers only.
 ¹⁵ DA and DSR Drivers only.
 - APPROVED
- ¹⁵ Avi-on and Lutron Athena Controls only. JOB COPY Lutron Vive and Athena Controls only.
- 17 Not available with EM batteries, control-sensors, DA, or DSR Drivers.

Signed _____ 10/16/2024 Date ____

H.E. Williams, Inc. Carthage, Missouri www.hew.com 417-358-4065 Information contained herein is subject to change without notice

Designed and Manufactured in the USA REV 01/17/24 II

16

FIXTURE PERFORMANCE DATA

	PER FOOT						
	DELIVERED LUMENS	WATTAGE	EFFICACY (Im/W)				
L8	824	7.3	113				
L12	1175	10.8	109				
L15	1439	13.5	107				
-							

 Photometrics tested in accordance with IESNA LM-79. Results based on F shielding, 80 CRI/3500K CCT, average wattage for 120V through 277V input, and 25°C ambient temperature. Actual performance may vary +/-5%

To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
Use multiplier tables to calculate additional options.

MULTIPLIER TABLES

COLOR TEMPERATURE CONVERSION FACTOR CCT 2700K 0.97 3000K 0.99 80 CRI 3500K 1.00 4000K 1.03 5000K 1.06 2700K 0.82 3000K 0.83 **90 CRI** 3500K 0.84 4000K 0.86 5000K 0.90

ASY OPTION WATTAGE EFFICACY (Im/W) 1.03 0.97

PHOTOMETRY

MX4S-4'00-L8/835-F-DIM Total Luminaire Output: 3296 lumens; 29.2 Watts | Efficacy: 113 lm/W | 80 CRI; 3500K CCT



	VERTICAL	HOF	ZONAL		
	ANGLE	0°	45°	90°	LUMENS
NO	0	894	894	894	
Ē	5	913	887	878	123
B	15	882	846	832	348
DWER DIST	25	789	764	746	512
	35	684	651	639	597
	45	555	530	510	597
Ē.	55	415	395	371	513
ğ	65	270	254	243	368
CAI	75	127	122	121	192
	85	20	25	23	45
	90	0	0	0	

ARY	ZONE	LUMENS	% FIXTURE
Σ	0 - 30	983	30
S	0 - 40	1580	48
EN	0 - 60	2690	82
ŝ	0 - 90	3296	100
	0 - 180	3296	100

MX4S-4'00-L8/835-F-ASY Total Luminaire Output: 3197 lumens; 29.2 Watts | Efficacy: 109 lm/W | 80 CRI; 3500K CCT



	VERTICAL	HORIZONTAL ANGLE					
	ANGLE	0 °	45°	90°	135°	180°	LUMENS
NO	0	1153	1153	1153	1153	1153	
5	5	1149	1175	1188	1175	1149	109
	15	1101	1185	1221	1185	1101	311
SI	25	1011	1135	1187	1135	1011	468
R.	35	881	1024	1083	1024	881	556
N	45	726	868	922	868	726	566
Ĩ.	55	560	684	730	684	560	507
Ē	65	384	481	516	481	384	387
CA	75	203	275	300	275	203	227
	85	50	86	100	86	50	67
	90	2	13	19	13	2	

ARY	ZONE	LUMENS	% FIXTURE
MM	0 - 30	887	28
EN SU	0 - 40	1443	45
	0 -60	2516	79
l <u>S</u>	0 - 90	3197	100
_	0 - 180	3197	100

CROSS SECTIONS

ASY OPTION DETAILS











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H.E. Williams, Inc.
Carthage, Missouri
www.hew.com
417-358-4065
Information contained herein is subject to change without notice.

FIXTURE DETAILS



CORNER DETAILS



Note: Corner orientation determined in field. Feeder corner end cap shipped separately.

FINISH OPTIONS

WHITE	BLACK	BRONZE	NICKEL	SILVER	ALUM

For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require two sample swatches, minimum 1" square.

SENSOR & NODE PLACEMENT DETAILS



SEE NEXT PAGE FOR CONTROL DETAILS



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Test light

AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS



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Mobile App ACCESSORIES

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S
Scene controller - numbered 1-4, 120-277VAC
Scene controller - numbered 1-4, battery powered
Dimmer with presets - percentages, 120-277VAC
Dimmer with presets - percentages, battery powered
On/off/dimming, 120-277VAC
On/off/dimming, battery powered

Web App

NETWORK

AVI-RAB-LTE Remote access bridge AVI-KIT-NTM Network time manager with battery backup

CEILING MOUNT SENSORS AVI-KIT-SEN-DUCM PIR motion and ultrasonic sensor kit AVI-KIT-SEN-ICM PIR motion and photocell sensor kit

For load controllers and additional accessory info, see hew.com/avi-on

AVI-LVFA-CS2-PIR Avi-on wireless fixture control with PIR motion and daylight sensor. DA Driver only.

Pro App

SPECIFICATIONS	
ТҮРЕ	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 10'
DETECTION ANGLE	360°
TEMPERATURE RANGE	-30° to 50°C
RELATIVE HUMIDITY	10 to 80% non-condensing
IP RATING	IP20
MANUFACTURER	Avi-On
	OVI ON *

SENSOR COVERAGE PATTERNS Side View 8' height: ø24' coverage



SENSOR DETAIL



Dimensions: 13/16" x 2-1/4"



Signed ____ 10/16/2024 Date



ADDITIONAL CONTROL OPTIONS

Radio Frequency 9' height: ø12' coverage Motion Sensor Coverage NTING HEIGHT 8' – 12' CTION ANGLE 360° ERATURE RANGE 0° to 55°C TIVE HUMIDITY 0 to 90%, non-condensing VISSIONING Clear Connect gateway – Type X with app (iOS or Android)	IONS SENSOR COVERAGE PATTERNS	
	Radio Frequency IGHT 8' - 12' GLE 360° RANGE 0° to 55°C IDITY 0 to 90%, non-condensing VG Clear Connect gateway – Type X with app (iOS or Android)	Motion Sensor CoverageCEILING HEIGHTCOVERAGE AREA (SO FT)8'1149'14410'17812'256
	Clear Connect gateway – Type X with app (iOS or Android)	

AWNS Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing. DA and DSR Drivers only.

ATHENA CONTROL OPTIONS

CATALOG NUMBER	DESCRIPTION
AWNR	Lutron Athena wireless node integral fixture control, RF only, for use with D4i DALI-2 or driver with 12V auxiliary power
AWNS	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing, for use with D4i DALI-2 or driver with 12V auxiliary power
AWNR-BL	Lutron Athena wireless node integral fixture control, RF only, for use with D4i DALI-2 or driver with 12V auxiliary power, black finish
AWNS-BL	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing, for use with D4i DALI-2 or driver with 12V auxiliary power, black finish

VDO Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC). DSR or LDE Drivers only. LDE drivers require driver interface

SPECIFICATIONS	
ТҮРЕ	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 12'
DETECTION ANGLE	360°
TEMPERATURE RANGE	0° to 55°C
RELATIVE HUMIDITY	0 to 90%, non-condensing
COMMISSIONING	App (iOS or Android)
MANUFACTURER	Lutron

SENSOR COVERAGE PATTERNS

9' height: ø12' coverage Motion Sensor Coverage



SENSOR DETAIL



Dimensions: 2-11/16" x 1"

VIVE CONTROL OPTIONS

CATALOG NUMBER	DESCRIPTION
VRF	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF), for use with sensor-ready driver
VDO	Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC), for use with sensor-ready driver
VRF/DBI	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF) and digital link interface, for use with Lutron Hi-lume 1% EcoSystem dimming LED driver
VDO/DBI	Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC) and digital link interface, for use with Lutron Hi-lume 1% EcoSystem dimming LED driver

OCCWS-FS-305-L6-PP-120/277 Wattstopper PIR motion and daylight hold off sensor with power pack, 120/277V

SPECIFICATIONS	
ТҮРЕ	PIR Motion + Daylight Hold Off
MOUNTING HEIGHT	8'
LENS	Indoor, non-wet location use
DETECTION ANGLE	360°
TEMPERATURE RANGE	-40° to 55°C
RELATIVE HUMIDITY	5% to 95%, non-condensing
COMMISSIONING	Dials under lens

SENSOR COVERAGE PATTERNS



SENSOR DETAIL



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OCCWS-LMFS-601-PP-120/277 Wattstopper PIR motion and daylight sensor with power pack, 120/277V

SPECIFICATIONS

0. 20	
ТҮРЕ	PIR Motion + Daylight
MOUNTING HEIGHT	8' - 12'
LENS	Up to 300 sq/ft coverage
DETECTION ANGLE	360°
TEMPERATURE RANGE	0° to 50°C
RELATIVE HUMIDITY	0 to 90%, non-condensing
COMMISSIONING	App (iOS or Android)

SENSOR COVERAGE PATTERNS









Dimensions: ø1-5/16"

ADDITIONAL DRIVER OPTIONS

Note: Lumen restrictions apply, consult product builder at hew.com/product-builder.		
CATALOG NUMBER	DESCRIPTION	
DRV	Driver prewired for non-dimming applications	
DIM	Dimming driver prewired for 0-10V low voltage applications	
DIM1	1% dimming driver prewired for 0-10V low voltage applications	
DIM LINE	Line voltage dimming driver (TRIAC and ELV compatible, 120V only)	
DIM TRC	Line voltage dimming driver (TRIAC compatible, 120V only)	
DA	Driver with 12V auxiliary power	
DSR	Sensor-ready driver (D4i DALI-2)	
SD40	40% step-dimming driver	
SD50	50% step-dimming driver	
DALI	DALI dimming driver	
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver	



armit # 26









MOUNTING

MOUNTING TYPE [27]

N Open pan for new construction

I IC-rated enclosure for new construction [29]

R Remodel kit [30]

NOTES

Lumen output based on 0 trim type, W distribution and CS finish, 80 CRI/3500K CCT. Actual lumens may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA. Not available with EM/10W emergency batteries. Extended lead times may apply. Consult factory for availability.

WW Wall wash [17]

F1

CA1

- 11-1/2" aperture, specify degrees of slope in 5° increments, 05°-30°. Not available with I Mounting Type, S Trim Type, ATH, IP, or WET/CC Options. Painted white. Other colors available, consult factory. See page 3 for SLOPED CEILING ADAPTOR DETAILS.

- DE IALS. I Mounting Type required. May be required for 347V, see product builder at hew.com/product-builder. DA Driver only. See page 7 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS.
- DA Driver only.
- Avi-on and Lutron Athena Controls only. Not available with EM batteries, DA or DMX Drivers. 10
- 11 Trim ships separately.
- Beam angle based on CS or WH reflector finish. See page 2 for FIXTURE PERFORMANCE DATA. 12

¹³ Available with WW Distribution only.

BA1 Adjustable butterfly pan bracket, bar hanger not included [32]

MOUNTING HARDWARE [28]

¹⁴ W Distribution, OF Flange Type and WH Reflector Finish only. Standard with AD diffuse acrylic lens. IP and WET/CC options standard.

WH

BL

MB

Integral 2-position fixed pan bracket, universal bar hanger included ^[31]

Adjustable caterpillar pan bracket, universal bar hanger included [33]

White texture powder coat

Black texture powder coat Black texture splay with white flange ^[19]

- 15 Not available with lumen stops L50 and higher when specified with flush or regressed trim types. Not available with lumen stops L50 and higher when specified 16
- with flush or regressed trim types. 17
- ¹⁷ O and A Trim Types only.
 ¹⁸ For use with mud-in plaster construction only, supplied with nud flange installation kit. See page 4 for FLANGE TYPE DETAILS. Not available with ATH or IP options. R Trim Type only. Not available with MWT.
- ²⁰ Not available with WH Reflector Finish, L or S Trim Types.
- 21
- L and R trim types only. Not available with O trim type. W and WW distributions only. 22
- Not available with 0 trim type. W and WW distributions only O Trim Type only. WET/CC standard unless ordered with EM/ 24
- RTS. L50 lumen package max.
- 25 L50 lumen package max with O Trim Type. Not available with PD trim option.

- ²⁶ WH and BL Reflector Finishes only. Not available with S Trim Type. 27
- Mounting hardware required (N and I only), ordered separately, see MOUNTING HARDWARE ordering info. See page 5 for MOUNTING TYPE DETAILS.
- Additional mounting hardware options available. See page 6 for MOUNTING HARDWARE DETAILS.
- ²⁹ L30 lumen package max. Not available with EM batteries or Lutron Athena Controls
- ³⁰ Also used in new construction sheetrock ceilings. Pan-less installation.
- 31 N and I Mounting Types only. I Mounting requires external brackets.
- ³² N Mounting Type only. ³³ N Mounting Type only

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DR LED 6" Downlight – Round

FEATURES

TrimLock*

- Innovative TrimLock reflector retention system ensures trim remains flush with ceiling plane
- Wide range of lumen options for general illumination Beam angles ranging from 10° narrow to 65° wide for tailored performance
- Industry-leading efficacies as high as 116 lm/W
- New construction mounting pan, IC-rated, or pan-less remodel kit available
- Fully room-side accessible
- Die-cast trim includes flush, regressed or angled lens
- Sloped adapter accommodates vaulted ceilings
- Optional non-conductive lens for shower applications
- IP65-rated die-cast trim includes easy-to-clean flush lens
- Open reflector with nine finishes complements any interior style
- Available on QuickShip
- Wireless in-fixture control solutions available

FIXTURE PERFORMANCE DATA

OPEN REFLECTOR TRIM TYPE

	DIST.	DELIVERED LUMENS	WATTAGE	EFFICACY (Im/W)
	W	1014	8.7	117
2	М	982	8.7	113
	Ν	1003	8.7	115
	W	1497	13.8	109
13	М	1495	13.8	108
	Ν	1528	13.8	111
	W	1988	19.0	105
L2	М	1983	19.1	104
	Ν	2026	19.1	106
	W	3062	26.9	114
L30	М	3003	26.9	112
	Ν	3000	26.9	112
	W	4094	36.5	112
L40	М	4016	36.4	110
	Ν	4011	36.4	110
	W	5014	43.9	114
L50	М	4935	43.9	112
	Ν	5047	43.9	115
	W	6043	54.0	112
160	М	5948	54.0	110
	Ν	6083	54.0	113
	W	7008	67.8	103
L70	М	6898	67.8	102
	Ν	7055	67.8	104
	W	8018	79.8	101
L80	М	7891	79.8	99
	Ν	8071	79.8	101

SPECIFICATIONS

- HOUSING Die-cast aluminum trim housing with forged aluminum heat sink. Galvanized steel splice compartment with driver mounting plate/enclosure. Swing-out mounting arms field adjust for ceiling thickness from 1/2'' - 2 - 1/4''.
- TRIMLOCK Innovative TrimLock reflector retention system ensures the trim remains flush with the ceiling plane.
- OPEN REFLECTOR Low-iridescent anodized aluminum. Clear semi-specular finish standard.
- LENSED TRIM Die-cast aluminum frame with microprismatic, acrylic lens.
- ELECTRICAL High-performance Class 2 C.O.B. LED array. Modular quick-connect plug for easy field-connection of LED light assembly to driver. Reported L70>55,000 hours. Reported L90>55,000 hours. Estimated L70 = 200,000 hours.
- MOUNTING Recessed. 20 ga. galvanized steel mounting pan for new construction or IC-rated enclosure. Remodel kit option includes receiver bracket hardware. Minimum 24" O.C. marked spacing required for L60 - L80 lumen packages.

LISTINGS –

- cCSAus conforms to UL STD 1598; Certified to CAN/CSA STD C22.2 No. 250.0 for dry and damp locations. LED light assembly conforms to UL 2108 for remote installation.
- Suitable for wet location under covered ceiling when specified with WET/CC or TD options.
- ENERGY STAR® certified in select configurations, see www.energystar.go
- IC-rated for direct contact with insulation when specified with I Mounting Type
- City of Chicago Environmental Air approved when specified with CP option
- Complies with ASTM-E283 when specified with ATH option. RoHS compliant.
- Title 24 (JA8) compliant in select configurations, see rtappliances.energy.ca
- Complies with the Buy American Act and other federal regulations. Request certification at hew.com/baa.
- WARRANTY 5-year limited warranty, see hew.com/warranty

FLUSH LENS TRIM TYPE

	DIST.	DELIVERED LUMENS	WATTAGE	EFFICACY (Im/W)
	W	774	8.7	89
19	М	910	8.7	105
	Ν	909	8.7	105
	W	1178	13.8	85
15	М	1385	13.8	100
	Ν	1384	13.8	100
	W	1562	19.5	80
L20	М	1837	19.1	96
	Ν	1836	19.5	94
	W	2335	26.9	87
130	М	2782	26.9	103
	Ν	2718	26.9	101
	W	3122	36.5	86
5	М	3720	36.4	102
	Ν	3635	36.4	100
	W	3824	43.9	87
L50	М	-	-	-
	Ν	-	-	-
	W	4609	54.0	85
P	М	-	-	-
	Ν	-	-	-
	W	5345	67.8	79
22	М	_	-	_
	N		-	_
	W	6115	79.8	77
L80	М	-	-	_
	N	_	_	_

REGRESSED LENS TRIM TYPE

	DIST.	DELIVERED LUMENS	WATTAGE	EFFICACY (Im/W)
	W	716	8.7	82
19	М	883	8.7	102
	Ν	897	8.7	103
	W	1090	13.8	79
15	М	1344	13.8	97
	Ν	1366	13.8	99
	W	1445	19.5	74
L2	М	1782	19.1	93
	Ν	1812	19.5	93
	W	2160	26.9	80
L30	М	2699	26.9	100
	Ν	2683	26.9	100
	W	2889	36.5	79
F4	М	3609	36.4	99
	Ν	3587	36.4	99
	W	3537	43.9	81
L50	М	-	-	-
	Ν	-	-	-
	W	4264	54.0	79
160	М	-	-	-
	Ν	-	-	-
	W	4945	67.8	73
12	М	_	_	_
	N	_		-
	W	5657	79.8	71
L80	М	_	-	_
	N	_	_	_

MULTIPLIER TABLES

	COLOR TEMPERATURE					
	ССТ	CONVERSION FACTOR				
	2700K	0.92				
~	3000K	0.98				
C	3500K	1.00				
õ	4000K	1.01				
	5000K	1.02				
	2700K	0.76				
~	3000K	0.79				
0 CI	3500K	0.82				
6	4000K	0.84				
	5000K	0.88				

REFLEC					
CATALOG NUMBER	CATALOG CONVERSION NUMBER FACTOR				
CS	1.00				
SG ¹	0.92				
GD	0.93				
CG	0.96				
PW	0.86				
SPC	1.02				
RG	0.88				
WH ¹	0.89				
BL 1	0.47				
, ,					
WH	1.00				
20	0.02				

0.79

TRIM					
CATALOG NUMBER	CONVERSION FACTOR				
S	0.85				
AD	0.85				
PD	0.85				
TD	0.75				
WET/CC ²	0.85				

Distribution will also be affected, consult factory. 2

Distribution will also be arrected, consult ractory. Use multiplier when specified with O Trim Type. Photometrics tested in accordance with IESNA LM-79. Results based on O trim type, W distribution, CS finish, 80 CRI/3500K CCT, wattage for 120V input, and 25°C ambient temperature. Actual performance may vary +/-5%. To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.

Use multiplier tables to calculate additional options.

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0 TRIM

R TRIM

BL

6DR LED 6" Downlight – Round

PHOTOMETRY

6DR-TL-L20/835-DIM-UNV-OW-OF-CS Report #: 20687; 12/12/18 | Total Luminaire Output: 1988 lumens; 19.0 Watts | Efficacy: 104.6 lm/W | 80 CRI; 3500K CCT



		HORIZONTAL ANGLE	
	VERTICAL ANGLE	0°	ZUNAL LUMENS
5	0	1672	
5	5	1579	151
	15	1735	492
ŝ	25	1982	917
	35	604	380
	45	46	36
Ē.	55	13	12
Ì	65	2	2
5	75	0	0
	85	0	0
	90	0	

MARY	ZONE	LUMENS	% FIXTURE
S	0 - 40	1939	98
NS	0 - 60	1987	100
ž	0 - 90	1988	100
3	0 - 180	1988	100

MEDIUM

35°



OPEN

FLUSH

WIDE





NARROW







55





TRIMLOCK DETAILS







SLOPED CEILING ADAPTOR DETAILS



		PLENUM						
LUMENS	5°	10°	15°	20°	25°	30°	HEIGHT	
L10 - L40	10-11/16″	10-7/8″	10-15/16"	10-7/8″	10-13/16"	10-5/8″	11-1/4″	
L50 - L80	11-7/16″	11-9/16"	11-5/8"	11-5/8"	11-1/2″	11-1/4″	12″	
15° Shown	15° Shown							

Ceiling cutout: ø11-7/8"



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6DR LED 6" Downlight – Round

TRIM TYPE DETAILS



FLANGE TYPE DETAILS





EMERGENCY BATTERY OPTIONS

Additional limitations apply, see page 1. Specify CEC in the option code when California Energy Commission regulations are required.

CATALOG NUMBER	DESCRIPTION	
EM/7W	7-watt emergency battery ⁽¹⁾	
EM/7W/RTS	7-watt emergency battery with regressed test switch [2]	
EM/7W/IPRTS	7-watt emergency battery with IP65 rated regressed test switch	
EM/10W	10-watt emergency battery ^[1]	
EM/10W/RTS	10-watt emergency battery with regressed test switch [2]	1 Not available with S Trim Type or IB Option
EM/10W/IPRTS	10-watt emergency battery with IP65 rated regressed test switch	² Not available with S Trim Type, IP or WET/CC Options.

REGRESSED TEST SWITCH DETAILS



Shown Installed



REFLECTOR FINISH DETAILS

SPC Clear specular	SG Satin glow	PW Pewter	GD Gold	CG Champagne gold	RG Rose gold	CS Clear semi-specular	WH White	BL Black
								APPROVED
								Reviewed for Code Compliance
								Signed 991162024 Date
		<u> </u>		447.050.4005	D · · ·	1.6.4. () 11.11		Permit #



6DR LED 6" Downlight – Round

MOUNTING TYPE DETAILS





	LENGTH						
LUMENS	A	В	С	D	E	F	
L10 - L20	15-3/16″	16″	6-3/8″	12-1/8"	9-1/2″	6-1/16″	
L30	16-5/8″	17-1/2"	7-7/8″	14″	10-1/4″	7″	





APERTURE ADAPTOR ORDERING INFO

ORDERING EXAMPLE: 4DR - GR - 0575 - WHT								
SERIES CATALOG NUMBER CEILING CUTOUT			FINISH					
4AR 4DR 4DS 4PR 4PS	6AR 6DR 6DS 6PR 6PS 8DR	GR	Specify ceiling cutout in 1/8" increments. Example: 5.75" = 0575 See Kit Components for application limits.	CS WH BL	Clear semi-specular powder coat White texture powder coat Black texture powder coat			

For use with remodel downlights. Additional finishes available, consult factory. For limitations and instructions, see hew.com/aperture-adaptor.pdf



Reviewed for Code Compliance Signed ______ 191162024 Date ______ Parmit # _20240190
6DR LED 6" Downlight – Round

MOUNTING HARDWARE DETAILS

- F1 Integral 2-position fixed pan bracket, universal bar hanger included
- B 14" minimum 24" maximum \diamond Þ Y Ð Mounts to t-bar or nailer bar Ň BA2 Adjustable butterfly pan bracket, heavy-duty (Joh) ŝŔ 00 14" minimum 24" maximum Mounts to t-bar or nailer bar
- BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)
- CA1 Adjustable caterpillar pan bracket, universal bar hanger included (N Mounting Type only) 14" minimum Į۷ 24" maximum

- universal bar hanger included (N Mounting Type only) 12" minimum 24″ maximum Mounts to t-bar or nailer bar
- CA2 Adjustable caterpillar pan bracket, t-bar hanger included (N Mounting Type only)

Mounts to t-bar or nailer bar



F1 with I Mounting Type

SEE NEXT PAGE FOR CONTROL DETAILS.



JM for EM Date

6DR LED 6" Downlight – Round

AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS

FEATURES

Simple

- Gateway-free distributed control ÷
- ε. Factory pre-commissioning
- Contractor friendly installation
- Occupancy/vacancy/daylight sensing

Scalable

- Virtually unlimited network size х.
- Spans small offices to large warehouses
- Ξ. Flexible control strategies

Secure

- Optional cloud connectivity ۰.
- UL IoT platinum security rating .
- . DLC 5.0 compliant

COMMISSIONING & INSTALLATION TOOLS

Avi-on mobile apps provide intuitive, quick installation and commissioning. Pro tools are available to qualified installers. Live commissioning training and on-site or remote support by Avi-on must be ordered separately through Avi-on.



Commissioning Mobile App



Web App



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ACCESSORIES

WALL STATION	S
AVI-2401AC	Scene controller - numbered 1-4, 120-277VAC
AVI-2402BAT	Scene controller - numbered 1-4, battery powered
AVI-2401AC-2	Dimmer with presets - percentages, 120-277VAC
AVI-2402BAT-2	Dimmer with presets - percentages, battery powered
AVI-2401AC-3	On/off/dimming, 120-277VAC
AVI-2402BAT-3	On/off/dimming, battery powered
1	

NETWORK

AVI-RAB-LTE Remote access bridge AVI-KIT-NTM Network time manager with battery backup

CEILING MOUNT SENSORS

AVI-KIT-SEN-DUCM PIR motion and ultrasonic sensor kit AVI-KIT-SEN-ICM PIR motion and photocell sensor kit

For load controllers and additional accessory info, see hew.com/avi-on

ADDITIONAL CONTROL/DRIVER OPTIONS

Lumen restrictions apply: L40 max for DMX driver, L40 max for Lutron drivers, L15 min to L60 max for DIM LINE driver. R mounting type requires top access with DMX controls. R Mounting Type requires 12" minimum plenum depth when specified with VRF/DBI controls. 347V may require stepdown transformer, see product builder at hew.com/product-builder. I Mounting Type not available with Lutron controls.

CATALOG NUMBER	DESCRIPTION
AVI-LVFA/DA	Avi-on wireless fixture control for use with driver with 12V auxiliary power
AWNR/DA	Lutron Athena wireless node integral fixture control, RF only, for use with driver with 12V auxiliary power
VRF/DBI/LDE1	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF) and digital link interface, with Lutron Hi-lume 1% EcoSystem dimming LED driver
FCJS/DIM	Lutron Vive PowPak wireless fixture control with dimming driver
FCJS/DIM1	Lutron Vive PowPak wireless fixture control with 1% dimming driver
DIM	Dimming driver prewired for 0-10V low voltage applications
DIM1	1% dimming driver prewired for 0-10V low voltage applications
DIM LINE	Line voltage dimming driver (TRIAC and ELV compatible at 120V only)
DALI	DALI dimming driver
DMX	0.1% dimming driver for DMX controls
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver





ENVIROSEAL[™]

Food Processing Luminaires

FES SERIES

PRODUCT FEATURES:

» Ceiling or wall mount - 12"×24", 12"×36", 12"×48", 12"×72", 12"×96"

» One-piece 20-gauge housing with UV-stabilized polycarbonate lens

» IP65 option available

» For Hazardous applications please refer to the HES series

SPECIFICATIONS:

HOUSING: One-piece, seam-welded 20-gauge CRS. Base provided with two-point mounting holes and one wireway hole. Lens is positioned in baseplate channels and retained with stainless steel fastener(s). Base mounts flush to ceiling or wall surface.

LENS/GASKET: UV-stabilized, pearlescent or clear polycarbonate. Smooth exterior, linear prismatic interior. Nominal thickness .125". Linear silicone gasket to seal doorframe to housing.

FINISH: Brushed stainless steel finish (#4B) or white TGIC polyester powder coat - 5-stage pre-treatment; Salt spray test: 1,000 hours; Reflectance: 92%.

SOCKETS: Shock-resistant sockets with internal locking collar to ensure positive lamp retention.

HARDWARE: Two Type 302 stainless steel Phillips head fasteners secure lens in housing channel.

ELECTRICAL: LED: Available 3000K, 3500K, 4000K and 5000K color temperatures, 82 CRI. 120-277VAC or 347VAC, 50/60Hz electrical input with serviceable high power factor electronic, constantcurrent driver (<20% THD, >0.95 PF). Standard 0-10V dimming with 1-100% range and dim-to-dark capabilities (non dim-to-dark with 347V); max source current 330µA. LE: Class P ballast. Fluorescent electronic 120/277 or 347 voltage ballasts, high power factor. Optional one-lamp 90 minute nickel-cadmium battery pack (EL) includes inverter charger, test switch and charging indicator lamp

SENSOR & CONTROLS: Optional sensor available with compatible third party controls. To see the full list of compatible controls, click here.

PHOTOMETRICS: Photometry tested to the IESNA LM-79-08 standard by an ILAC/ISO17025 accredited laboratory. For additional photometric data, please go to www.kenall.com.

WARRANTY: Limited five (5) year LED warranty. Peace of Mind Guarantee against breakage

LISTINGS: UL and CUL listed for Wet Location - ceiling mount covered ceiling. UL and CUL listed for Damp Location - horizontal wall mount. Optional UL certified IP65 in compliance with IEC 60598 (IP65 Option) - ceiling mount. NSF2 Splash/Non-Food Zone. Rated for use in FED-STD 209E/Class 1 (ISO 3) Cleanrooms.



ORDERING INFORMATION (Ex: FES12-48-45L50K-DCC-1-DV-2H-PP-FS)

Model	Length	Lamp Qty/Type	Ballast/Driv	er Type Ball	ast/Driver Qty	Voltage	Housing		Lens Type	Options		
Model FES12 Nominal Ler 24 36 48 72 96 Lamp Qty/Ty 2' Lengths 2-14 3-14 4-14 2-24 3-14 4-24 2-17 3-17 4-17 <u>3' Lengths</u> 2-21 3-21 4-21 2-25 3-25 4-25 3-29 3-39 4-39	Length 2' 3' 4' 6' 8' rpe F14T5 F14T5 F14T5 F14T5 F24T5H0 F24T5H0 F24T5H0 F17T8 F17T8 F17T8 F17T8 F17T8 F17T8 F21T5 F21T5 F25T8 F25T8 F25T8 F39T5H0 F39T5H0 F39T5H0	Lamp Qty/Type Lamp Qty/Typ <u>4' Lengths</u> 1-45L30K 1-45L30K 1-45L35K 1-45L40K 1-67L30K 1-67L30K 1-67L30K 1-67L30K 1-90L30K 1-90L30K 1-90L30K 1-90L30K 2-28 3-28 4-28 2-32 3-32 4-32 2-54 3-54 4-54 <u>6' Lengths</u> 2-72	Ballast/Driv pe Continued 45 Watt 3000K LED 45 Watt 3500K LED 45 Watt 3000K LED 67 Watt 3000K LED 67 Watt 3000K LED 67 Watt 3000K LED 90 Watt 3500K LED 90 Watt 3500K LED 128T5 F28T5 F32T8 F32T8 F32T8 F32T8 F32T8 F32T8 F34T5HO F54T5HO F54T5HO F72T8HO (2)	er Type Ball. 8' Lengths (1-45L30K 1-45L35K 1-45L35K 1-45L40K 1-45L50K 1-67L35K 1-67L35K 1-67L35K 1-67L40K 1-90L30K 1-90L30K 1-90L30K 1-90L30K 2-28 3-28 4-28 2-32 3-32 4-32 2-54 3-54 4-54 Ballast/Driv DCC Dimmi IS Elec < (T5, TE SB Specifi Ballast/Driv 1 One 2 Two Voltage DV 120-2	last/Driver Qty (Lamp Qty per 45 Watt 3000 45 Watt 3000 45 Watt 3500 67 Watt 3500 67 Watt 3500 67 Watt 3500 67 Watt 3000 90 Watt 3500 90 Watt 3000 90 Watt 3000	Voltage 4' Cross Se K LED K LED Start (T8) Start iax)	Housing 	Opusin H H L L C Opusin C C Opusin C C Opusin C C C Opusin C C C C C C C C C C C C C	Lens Type mg Options 20-Ga CRS; Pain 20-Ga 304SS; Pa 20-Ga 304SS; Pa 20-Ga 316SS; Pa 20-Ga 316SS; Pa 20-Ga 316SS; Pa 20-Ga 316SS; Br Ype Pearlescent Polyc Clear Polycarbon M ELED Emergenc Standard Lumu High Lumen El Specified EL Pa Single Fuse & Row Mount Hi Continuous Ra in end caps (sa attachment co Pendant Mour suspension ha • UL certified IP4 Tamper Resista tion not available with ILED M M M M M M M M M M M M M	Options ted inted ushed ushed tarbonate ate y Battery Backu en EL Pack (450 Pack (1100 lu ack (n/a LED) Holder (n/a with Bo Contector(se w Mount – .87 ee HC option for nnector) th (damp locatio drdware by other 55 Listing (Ceilli ant Torx with ce e with 2' fixture (O or PM option P65 option w with F25T8/F3 pendant mount all length	up (45L lamp type onl) lumens) (n/a LED) mens) (n/a LED) h 347V) ee KO option) 75" diameter knockou r Kenall supplied ons only) – rs ng Mount) enter pin fastener es with LED, or F21T5 ns 278 Lamps hole locations.	y;n/a with 347V) It lamps
				347 347 V	OIT						Reviewed for Code Compliance	

www.kenall.com | P: 800-4-Kenall | F: 262-891-9701 | 10200 55th Street Kenosha, Wisconsin 53144, USA This product complies with the Buy American Act: manufactured in the United States with more than 50% of the component cost of US origin. It may be covered by pate found at www.kenall.com/patents.Content of specification sheets is subject to change; please consult www.kenall.com for current product details. @2022."

PROJECT INFORMATION

Job Name Fixture Type

Catalog Number

Approved by



FFS12-072722

ered by patents

A brand of 17 egrand

ENVIROSEAL[™]

Food Processing Luminaires

FES SERIES

PERFORMANCE

	Initial Delive	red Lumens				
Lamp Туре	@ 25°C (Im)	Efficacy (Im/W)	Input Power (W)	Drive Current (mA)	Estd. L70 LED Life (hrs)	
45L30K	4,751	97				
45L35K	4,898	100	10	100	80.000	
45L40K	5,065	103	49	100	80,000	
45L50K	5,198	106				
67L30K	7,360	101				
67L35K	7,587	104	72	75	00.000	
67L40K	7,846	107	/3	/5	80,000	
67L50K	8,053	110				
90L30K	9,436	96				
90L35K	9,728	99		100	co 000	
90L40K	10,060	103	98	100	60,000	
90L50K	10,325	105]			

Displayed information above is for PP lens type. Info subject to change. Visit www.kenall.com for IES files and additional information.



Max Candela = 2789 Located At Horizontal Angle = 15, Vertical Angle = 5 1 - Vertical Plane Through Horizontal Angles (15 - 195) (Through Max. Cd.) 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

DIMENSIONAL DATA

CROSS SECTION













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www.kenall.com | P: 800-4-Kenall | F: 262-891-9701 | 10200 55th Street Kenosha, Wisconsin 53144, USA A brand of [] legrand This product complies with the Buy American Act: manufactured in the United States with more than 50% of the component cost of US origin. It may be covered by patents found at www.kenall.com/patents.Content of specification sheets is subject to change; please consult www.kenall.com for current product details. 2002 KenalLMfg.Co.

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

Ceiling Mount

8 <u>Replacement</u> battery - 0120894

RELATED PRODUCTS

8 LES

LE Series

RECESSED MOUNTING EDGE-LIT LED EXIT SIGN

FEATURES

- Easy to install
- Extruded aluminum construction
- Available in six color finishes: white, black, satin aluminum, satin brass, chrome, and dark bronze
- Long-life LED lamps
- Molded acrylic plaque
- Clear acrylic plaque standard
- Ceiling, wall or end mounted models for recessed installations
- Red or green letter models
- Universal rough-in box
- 120/277 VAC, 60 Hz. operation
- AC On Indicator Light



SPECIFICATIONS

APPLICATION

- The LE Series provides bright, even letter illumination in an energy-saving LED edge-lit exit sign configuration
- AC or Emergency operation with optional Spectron[®] self-test/self-diagnostic circuitry.
- Special Wording ("SW") option allows
 customizing the stencil field to convey
 important information

CONSTRUCTION

- Water-clear injection-molded acrylic EXIT plaque is available with clear, white or mirror backgrounds
- High strength extruded aluminum trim available in six finishes
- Exit face design in single or double face with red or green letters. Custom printed directional chevron arrows
- Standard EXIT stencil with 6" letters and ¾" stroke. Rough-in kit: galvanized steel, .036 (20 Ga.) housing, .060 (16 Ga.) mounting bars

INSTALLATION

- Universal rough-in box accommodates recessed installation of all models in wall, ceiling or end-mount applications
- All mounting hardware is fully concealed

ILLUMINATION

- Exit face illumination is provided by energy saving, long life red or green LEDs
- Exceeds UL 924 requirements for brightness and uniformity
- 10 year LED life

COMPLIANCES

- UL 924 Listed
- NFPA 70
- NFPA 101
- CEC T20 Compliant

WARRANTY

- 5 year warranty
- See <u>HLI Standard Warranty</u> for additional information

KEY DATA						
Power Factor, Average	APPROVELING)					
Wattage Range	JOB 2.2-5.0					
Battery Type	Seale of Nickel Cadmium					
Reported Life (Hours)	Signed 10/16/2024 6 0,000 Date					
Input Current Range	120/27/VAC, 60 Hz					



LE Series

RECESSED MOUNTING EDGE-LIT LED EXIT SIGN

ORDERING GUIDE

CATALOG #

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #	

Example: LEWDRRNE

LE]_[
Model	Mounting	Faces	Letter Color	Directional Arrows	Finish	Operation	Self-Diagnostic	c	Options
LE Edge-lit Exit	C Ceiling Mount W Wall Mount E End Mount	S Single D Double* *Not for use with wall models	R Red G Green	X No Arrows EXIT R Right Arrow* EXIT> L Left Arrow* <exit< td=""> D Double Arrows <exit> C L/R Arrows* <exit exit=""> * Not for use with double face models. Use "C" L/R arrow designator ** Double face models only. Provides reversible right or left arrow indicator</exit></exit></exit<>	N Satin Aluminum W White C Chrome B Black S Satin Brass Z Dark Bronze	A AC Only E Emergency	Blank None I Spectron® self-testing/ self- diagnostic electronics ¹	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	 See available special wording choices on page 3 % 20 2 Circuit Operation 2.5 24K 220-240VAC, 60Hz. operation 8 K Recessed mount exit sign less rough-in-kit 6.8 W White plaque background Mirror-plaque background 7
Accessories (Or	der Separately)			Notes:		1			

For use with AC models only

Universal Rough-in Kit URK

Universal 2-circuit rough-in kit 1,2,3 URK2C

For use with AC models only. 1

2

3

4 6 Allows ordering of rough-in kit separately for recessed mount (LE) models. See "Accessories" For use with single face models only. Standard on double face models. 7

2

8 Rough-in kit may not be ordered separately on models specified with -24K option.

9 Specify special wording code from page 3 when ordering. Example: SW41

For emergency illumination of sign from remote 6-24VDC power sources.

10 Some special wording signs not available with directional arrows

To order Rough-in kit only for field installation, add "XK" option suffix to exit model number and order "URK" or " URK2C" kit separately.

Must be ordered in conjunction with -2C option on exit sign

ELECTRONICS

Available with AC, emergency and Spectron® self-test/self-diagnostic electronics option. Emergency and self-diagnostic models equipped with isolation transformer and fully automatic constant current solid state charger with sealed maintenance-free nickel-cadmium battery. All emergency models with 90-minute run-time. All components mounted inside housing. Includes test switch and AC-on indicator. Transient/surge protection, low voltage disconnect and AC lock-out features included. Battery re-charge within UL time standards. Includes pre-stripped AC input pigtail leads.

Rough-in kit may not be ordered separately on modles specified with -24K option

POWER CONSUMPTION (120/277VAC)

Model	Single Face	Double Face			
Red AC Only	2.2 watts	3.4 watts			
Green AC Only	2.5 watts	4.0 watts			
Red Emergency	3.3 watts	4.5 watts			
Green Emergency	3.6 watts	5.0 watts			

* Wattage figures include LED lamps, transformer and electronics power requirements.

Power Factor, Average: .8 (lagging) Battery Type: Maintenance-free sealed nickel cadmium battery AC Input: 120/277VAC, 60 Hz. (all models) Operating Temperature Range: 20°C to 30°C (68°F to 86°F)



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LE Series

RECESSED MOUNTING EDGE-LIT LED EXIT SIGN

DIMENSIONS



MOUNTING OPTIONS









Wall Mount







LE Series

RECESSED MOUNTING EDGE-LIT LED EXIT SIGN

SPECIAL WORDING

LE Series architectural recessed LED edge-lit exit signs feature an option for standard or custom special-wording. The images below represent standard specialworded signs available for the LE Series. The artwork and silk-screening for the standard signs shown below were previously developed therefore pricing for these special-worded signs do not incur a setup charge.

If your special-worded requirements do not appear on this page, please contact the factory to request your custom special-wording sign. Custom special wording signs incur a one time set-up charge for each development.

STANDARD SPECIAL WORDING SIGNS WITH DIRECTIONAL ARROWS



STANDARD SPECIAL WORDING SIGNS

Category	Spe Wor Nur	ecial ding nber	Description
	SW	2	NOT AN EXIT
EXIT	SW	142	EXIT (TEXT IS INVERTED)
	SW	144	EXIT (W/ WHEELCHAIR SYMBOL)
DO NOT ENTER	SW	3	IN USE
	SW	10	AREA OF REFUGE
	SW	11	AREA OF REFUGE WITH WHEELCHAIR SYMBOL
EVACUATION	SW	13	AREA OF RESCUE ASSISTANCE WITH WHEELCHAIR SYMBOL
	SW	48	STAIRS
	SW	117	TO AREA/OF REFUGE
	SW	149	AREA OF RESCUE
	SW	4	X-RAY IN USE
	SW	21	BEAM ON
	SW	28	MRI IN USE
LABORATORY	SW	31	LASER IN USE
	SW	62	RADIATION IN USE
	SW	57	CT IN USE
	SW	166	TESTING IN PROGRESS
	SW	30	ROOM IN USE
	SW	118	HANDICAPPED (SYMBOL ONLY)
RESTROOM/	SW	167	RESTROOM OCCUPIED
FACILITIES	SW	168	ELEVATOR
	SW	169	MEN (NO ARROWS/CHEVRONS)
	SW	170	WOMEN (NO ARROWS/CHEVRONS)
	SW	41	ARABIC/ EXIT
INTERNATIONAL	SW	69	SALIDA
	SW	165	SALIDA (INVERTED TEXT)
	SW	9	ON AIR
AREA/ALERIS	SW	178	EMERGENCY CALL STATION

X-RAY IN USE

Special Wording Option



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NOTE: Special worded signs do not meet letter size requirements of UL 924.









CATALOG #:
TYPE:
PROJECT:



SHIELDING

FEATURES

- Create elegant spaces with a seamless, continuous row of illumination
- Flat and proud lenses give designers a variety of looks
- Fixture attaches to wall bracket for simple installation
- High-performance up to 117 lm/W
- Linear extrusion contains snap-in light rails for ease of installation and maintenance
- Versatile MX4 system includes recessed, surface, suspended and in-wall mounting, see hew.com
- Diffuse acrylic lens provides uniform illumination for visual comfort
- Wireless in-fixture control solutions available
- Available with BIOS® SkyBlue® technology to support proper daytime circadian stimulus
- Made Right Here® in the USA

SPECIFICATIONS

- HOUSING Extruded aluminum with die-cast end plates.
- SHIELDING Extruded, flat, diffuse acrylic lens
- FINISH Textured matte white polyester TGIC powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
- ELECTRICAL High-quality mid-power LED boards. L70 >60,000 hours per IES TM-21. 25°C maximum ambient operating temperature.
- MOUNTING Wall mount. Powder coated, die-formed C.R.S. receiving bracket mounted to fixture which attaches to galvanized, wall mounted bracket.
- LISTINGS -
- cCSAus certified as luminaire suitable for dry or damp locations.
- Complies with the Buy American Act and other federal regulations. Request certification at hew.com/baa.
- WARRANTY 5-year limited warranty, see hew.com/warranty

ORDERIN	IG EXAMPLE: MX4W - 12'00 - L	8/835 - F - OPTIONS	- CC	ONTROL/DIM	- UN
SERIES	ILLUMINATED LENGTH	LUMENS ^[1]	CRI	ССТ	

ILLUMINATED LENGTH MX4W^[2] Lengths specified in feet and inches using 4" increments, 2' minimum. Example: 12'00 = 12'-0"

PRODUCT BUILDER

Simplify ordering & layout design with the Williams Linear Product Builder at hew.com/product-builder

DPTIONS ^[5]				
See page 3 f	or FINISH OPTIONS.	S		
EM/10W EM/10WRM ASY L)	10-watt emergency battery ^[7] Remote mount 10-watt emergency battery ^[8] Asymmetric distribution ^[9] Additional lower lumen packages available ^[10] Example: 600 lumens = MX4W-12'00-L8/835- (L6)	- - 		

L8 800lm L12 1200lm L15 1500lm	8 80 9 90 ^[3]	 27 2700K 30 3000K 35 3500K 40 4000K 50 5000K 	 F Flat, diffuse acrylic P Proud, diffuse acrylic with 5/16" drop ^[4]
--------------------------------------	-----------------------------	--	--

CONTROL [6]

See page 5 for ADDITIONAL CONTROL OPTIONS.

	None
VI-LVFA	Avi-on wireless fixture control [11]
VI-LVFA-CS2-PIR	Avi-on wireless fixture control with PIR motion and daylight sensor ^[12]
WNR	Lutron Athena wireless node integral fixture control, RF only $^{\left[13\right] }$
WNS	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing ^[14]

DRIVER See page 6 for ADDITIONAL DRIVER OPTIONS.

- DIM Driver with external dimming wires DRV Driver without external dimming wires
- Driver with 12V auxiliary power, without external dimming wires ^[15] DA

Sensor-ready driver without external dimming wires (D4i DALI-2) ^[16]

NOTES

6

available, see Options.

Not available with fixtures less than 4'.

See page 3 for FIXTURE DETAILS.

VOLTAGE 120 120V 277 277V **UNV** 120-277V 347 347V^[17]

- Available with F shielding only. Creates uneven lens illumination. See page 3 for CROSS SECTIONS.
- (L4) lumen package minimum. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.

- Intering backage.
 IDA driver only.
 DA driver only.
 DA and DSR Drivers only.
 DA and DSR Drivers only.
 Avi-on and Lutron Athena Controls only.
 APPROVED
 Interior Virgin and Athena Controls only.
- ¹⁶ Lutron Vive and Athena Controls only. JOB COPY 17 Not available with EM batteries, control sensors, DA, or DSR Drivers.



Designed and Manufactured in the USA H.E. Williams, Inc. Carthage, Missouri www.hew.com 417-358-4065 REV 01/17/24 II Information contained herein is subject to change without notice.

Lumens per foot output based on F Shielding, 80 CRI/3500K CCT. Actual performance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA. Additional lumen packages

Up or down orientation is determined during installation.

Up or down orientation is determined during installation. Extended lead times may apply. Consult factory for availability. See page 3 for CROSS SECTIONS. See Technical Info for Power Entry details. Sensor recommended for use in downlight orientation only. Reduces portion of lit fixture, consult factory. See page 3 for SENSOR & NODE PLACEMENT DETAILS. See page 4 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS. Not available with fixture less than d'



FIXTURE PERFORMANCE DATA

	DOWN (PER FOOT)			U	P (PER FOOT)	
	DELIVERED LUMENS	WATTAGE	EFFICACY (Im/W)	DELIVERED LUMENS	WATTAGE	EFFICACY (Im/W)
L8	824	7.3	113	851	7.3	117
L12	1175	10.8	109	1187	10.8	110
L15	1440	13.5	107	1440	13.5	107

Photometrics tested in accordance with IESNA LM-79. Results based on F shielding, 80 CRI/3500K CCT, average wattage for 120V through 277V input, and 25°C ambient temperature. Actual performance may vary +/-5%. ÷

To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy. Use multiplier tables to calculate additional options.

MUL	TIPL	IER	TABL	ES
-----	------	-----	------	----

	COLOR TEMPERATURE			
	CCT CONVERSION FACTO			
	2700K	0.97		
~	3000K	0.99		
OCI	3500K	1.00		
œ	4000K	1.03		
	5000K	1.06		
	2700K	0.82		
~	3000K	0.83		
5	3500K	0.84		
6	4000K	0.86		
	5000K	0.90		

ASY OPTION WATTAGE EFFICACY (Im/W) 0.97 1.03

PHOTOMETRY

MX4WD-4'00-L8/835-F-DIM Total Luminaire Output: 3296 lumens; 29.2 Watts | Efficacy: 113 lm/W | 80 CRI; 3500K CCT



	VERTICAL	HOF	ZONAL		
	ANGLE	0°	45°	90°	LUMENS
S	0	1302	1302	1302	
5	5	1329	1292	1278	123
2	15	1284	1232	1211	348
S	25	1149	1113	1087	512
Ř	35	996	948	931	597
×	45	808	771	742	597
Ĕ.	55	604	576	540	513
Ē	65	394	370	354	368
S	75	185	178	177	192
	85	29	36	33	45
	90	0	0	0	

ARY	ZONE	LUMENS	% FIXTURE
MM	0 - 30	983	30
SU	0 - 40	1580	48
EN	0 - 60	2690	82
S	0 - 90	3296	100
	0 - 180	3296	100

MX4WU-4'00-L8/835-F-DIM Total Luminaire Output: 3404 lumens; 29.2 Watts | Efficacy: 117 lm/W | 80 CRI; 3500K CCT



VERTICAL	HOF	ZONAL		
ANGLE	0°	45°	90°	LUMENS
90	0	0	0	
95	20	19	17	29
105	161	123	103	138
115	382	285	242	298
125	643	516	431	477
135	933	818	688	624
145	1189	1112	1006	681
155	1389	1315	1261	603
165	1498	1456	1419	410
175	1557	1519	1501	144
180	1540	1540	1540	
180	1540	1540	1540	

ARY	ZONE	LUMENS	% FIXTURE
ММ	90 - 120	465	14
SU	90 - 130	941	28
EN	90 - 150	2247	66
S	90 - 180	3404	100
	0 - 180	3404	100

MX4WD-4'00-L8/835-F-ASY Total Luminaire Output: 3197 lumens; 29.2 Watts | Efficacy: 109 lm/W | 80 CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION

	VERTICAL	HORIZONTAL ANGLE					
	ANGLE	0°	45°	90°	135°	180°	LUMENS
NO NO	0	1153	1153	1153	1153	1153	
5	5	1149	1175	1188	1175	1149	109
8	15	1101	1185	1221	1185	1101	311
S	25	1011	1135	1187	1135	1011	468
Ř	35	881	1024	1083	1024	881	556
N	45	726	868	922	868	726	566
Ē.	55	560	684	730	684	560	507
Ē	65	384	481	516	481	384	387
R	75	203	275	300	275	203	227
	85	50	86	100	86	50	67
	90	2	13	19	13	2	

ARY	ZONE	LUMENS	% FIXTURE
M	0 - 30	887	28
SU	0 - 40	1443	45
E	0 -60	2516	79
ŝ	0 - 90	3197	100
_	0 - 180	3197	100



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CROSS SECTIONS



60

Remote driver box

Test light

Î



Standalone and feeder fixtures receive two mounting brackets. Joiner fixtures connect to feeder fixtures and receive one mounting bracket.

MOUNTING



FINISH OPTIONS

WHITE	BLACK	BRONZE	NICKEL	SILVER	ALUM		

For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require two sample swatches, minimum 1" square.

Hex box (By others)

Power to fixture

SENSOR & NODE PLACEMENT DETAILS





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H.E. Williams, Inc.
Carthage, Missouri
www.hew.com
417-358-4065
Information contained herein is subject to change without notice.

 Designed and Manufactured in the USA REV.01/17/24.JL

AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS



Simple

- Gateway-free distributed control ÷
- Factory pre-commissioning х.
- Contractor friendly installation .
- έ. Occupancy/vacancy/daylight sensing

Scalable

- Virtually unlimited network size ÷
- Spans small offices to large warehouses .
- Flexible control strategies ÷

Secure

- έ. Optional cloud connectivity
- UL IoT platinum security rating .
- . DLC 5.0 compliant

COMMISSIONING & INSTALLATION TOOLS

Avi-on mobile apps provide intuitive, quick installation and commissioning. Pro tools are available to qualified installers. Live commissioning training and on-site or remote support by Avi-on must be ordered separately through Avi-on.



Web App



The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Avi-on is under license. Other trademarks and trade names are those of their respective owners.

ACCESSORIES

WALL STATION	S
AVI-2401AC	Scene controller - numbered 1-4, 120-277VAC
AVI-2402BAT	Scene controller - numbered 1-4, battery powered
AVI-2401AC-2	Dimmer with presets - percentages, 120-277VAC
AVI-2402BAT-2	Dimmer with presets - percentages, battery powered
AVI-2401AC-3	On/off/dimming, 120-277VAC
AVI-2402BAT-3	On/off/dimming, battery powered

NETWORK

AVI-RAB-LTE Remote access bridge AVI-KIT-NTM Network time manager with battery backup **CEILING MOUNT SENSORS**

AVI-KIT-SEN-DUCM PIR motion and ultrasonic sensor kit AVI-KIT-SEN-ICM PIR motion and photocell sensor kit

For load controllers and additional accessory info, see hew.com/avi-on

AVI-LVFA-CS2-PIR Avi-on wireless fixture control with PIR motion and daylight sensor. DA Driver only.

Pro App

SPECIFICATIONS	
ТҮРЕ	PIR Motion + Daylight
MOUNTING HEIGHT	8' - 10'
DETECTION ANGLE	360°
TEMPERATURE RANGE	-30° to 50°C
RELATIVE HUMIDITY	10 to 80% non-condensing
IP RATING	IP20
MANUFACTURER	Avi-On

SENSOR COVERAGE PATTERNS Side View 8' height: ø24' coverage



SENSOR DETAIL



Dimensions: 13/16" x 2-1/4"







ADDITIONAL CONTROL OPTIONS

E Radio Frequency 9' height: ø12' coverage Motion Sensor Coverage INTING HEIGHT 8' – 12' ECTION ANGLE 360° PERATURE RANGE 0° to 55°C ATIVE HUMIDITY 0 to 90%, non-condensing IMISSIONING Clear Connect gateway – Type X with app (iOS or Android)	FICATIONS	SENSOR COVERAGE PATTERNS	
	Radio Frequency 9 IING HEIGHT 8' – 12' IION ANGLE 360° RATURE RANGE 0° to 55°C VE HUMIDITY 0 to 90%, non-condensing ISSIONING Clear Connect gateway – Type X with app (iOS or Android)	I' height: ø12' coverage	Sensor Coverage CEILING HEIGHT COVERAGE AREA (SO FT) 8' 114 9' 144 10' 178 12' 256
Lutron	Clear Connect gateway – Type X with app (iOS or Android)		

AWNS Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing. DA and DSR Drivers only.

ATHENA CONTROL OPTIONS

CATALOG NUMBER	DESCRIPTION
AWNR	Lutron Athena wireless node integral fixture control, RF only, for use with D4i DALI-2 or driver with 12V auxiliary power
AWNS	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing, for use with D4i DALI-2 or driver with 12V auxiliary power
AWNR-BL	Lutron Athena wireless node integral fixture control, RF only, for use with D4i DALI-2 or driver with 12V auxiliary power, black finish
AWNS-BL	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing, for use with D4i DALI-2 or driver with 12V auxiliary power, black finish

VDO Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC). DSR or LDE Drivers only. LDE drivers require driver interface

SPECIFICATIONS	
ТҮРЕ	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 12'
DETECTION ANGLE	360°
TEMPERATURE RANGE	0° to 55°C
RELATIVE HUMIDITY	0 to 90%, non-condensing
COMMISSIONING	App (iOS or Android)
MANUFACTURER	Lutron

SENSOR COVERAGE PATTERNS

9' height: ø12' coverage Motion Sensor Coverage



SENSOR DETAIL



Dimensions: 2-11/16" x 1"

VIVE CONTROL OPTIONS

CATALOG NUMBER	DESCRIPTION
VRF	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF), for use with sensor-ready driver
VDO	Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC), for use with sensor-ready driver
VRF/DBI	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF) and digital link interface, for use with Lutron Hi-lume 1% EcoSystem dimming LED driver
VDO/DBI	Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC) and digital link interface, for use with Lutron Hi-lume 1% EcoSystem dimming LED driver

OCCWS-FS-305-L6-PP-120/277 Wattstopper PIR motion and daylight hold off sensor with power pack, 120/277V

SPECIFICATIONS	
ТҮРЕ	PIR Motion + Daylight Hold Off
MOUNTING HEIGHT	8′
LENS	Indoor, non-wet location use
DETECTION ANGLE	360°
TEMPERATURE RANGE	-40° to 55°C
RELATIVE HUMIDITY	5% to 95%, non-condensing
COMMISSIONING	Dials under lens

SENSOR COVERAGE PATTERNS



SENSOR DETAIL



Reviewed for Code Compliance Signed _____ 10/16/2024 Date _____



OCCWS-LMFS-601-PP-120/277 Wattstopper PIR motion and daylight sensor with power pack, 120/277V

SPECIFICATIONS

ТҮРЕ	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 12'
LENS	Up to 300 sq/ft coverage
DETECTION ANGLE	360°
TEMPERATURE RANGE	0° to 50°C
RELATIVE HUMIDITY	0 to 90%, non-condensing
COMMISSIONING	App (iOS or Android)

SENSOR COVERAGE PATTERNS

8' height: ø20' coverage





Dimensions: ø1-5/16"

SENSOR DETAIL

ADDITIONAL DRIVER OPTIONS

Note: Lumen restrictions apply, consult product builder at hew.com/product-builder.				
CATALOG NUMBER	DESCRIPTION			
DRV	Driver prewired for non-dimming applications			
DIM	Dimming driver prewired for 0-10V low voltage applications			
DIM1	1% dimming driver prewired for 0-10V low voltage applications			
DIM LINE	Line voltage dimming driver (TRIAC and ELV compatible, 120V only)			
DIM TRC	Line voltage dimming driver (TRIAC compatible, 120V only)			
DA	Driver with 12V auxiliary power			
DSR	Sensor-ready driver (D4i DALI-2)			
SD40	40% step-dimming driver			
SD50	50% step-dimming driver			
DALI	DALI dimming driver			
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver			



armit # 26



MX4WUD LED 4" Continuous Up/Down – Wall







TYPE:
PROJECT:



FEATURES

- Create elegant spaces with a seamless, continuous row of illumination
- Flat and proud lenses give designers a variety of looks
- Fixture attaches to wall bracket for simple installation
- High-performance up to 119 lm/W
- Linear extrusion contains snap-in light rails for ease of installation and maintenance
- Attractive source of direct and indirect lighting
- Versatile MX4 system includes recessed, surface, suspended and in-wall mounting, see hew com
- Diffuse acrylic lens provides uniform illumination for visual comfort
- Wireless in-fixture control solutions available
- Available with BIOS® SkyBlue® technology to support proper daytime circadian stimulus
- Made Right Here® in the USA

SPECIFICATIONS

- HOUSING Extruded aluminum with die-cast end plates.
- SHIELDING Extruded, flat, diffuse acrylic lens
- FINISH Textured matte white polyester TGIC powder coat bonded to phosphatefree, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
- ELECTRICAL High-quality mid-power LED boards. L70 >60,000 hours per IES TM-21. 25°C maximum ambient operating temperature.
- MOUNTING Wall mount. Powder coated. die-formed C.R.S. receiving bracket mounted to fixture which attaches to galvanized, wall mounted bracket.
- LISTINGS
 - cCSAus certified as luminaire suitable for dry or damp locations.
 - Complies with the Buy American Act and other federal regulations. Request certification at hew.com/baa
- WARRANTY 5-year limited warranty, see hew.com/warranty.

ORDERING	EXAI	MPLE:	MX4W	UD - 12'00 - L	8/835เ	J/L8/8	35C	- A/F - OP	TIONS	- COI	NTROL/DI	M - UI	VV
SERIES ILLUMINATED LENGTH					LUMEI	LUMEN PACKAGE (EXAMPLE: L8/835U/L8/835D)							
MX4WUD	Lengths specified in feet and inches using Sp				Specify	y lun	nen packages:	: U for U	plight	and D for D	ownlig	ht	
	4" increments, 2' minimum.					LUMEN	UMENS ^[1] CRI		CCT U d		U or D		
	Examp	ble: 12'0	00 = 12'	.0″		L 8 80	0lm	8 80	27 27	700K	U Upligh	t	
	PROD	UCT BL	JILDER			L12 120)0Im	9 90 ^[2]	30 30	000K	D Downl	D Downlight	
	Simpli	fy orde Iliams I	ring & la Linear P	yout design with		L15 150)0ln	1	35 3	500K			
	hew.co	om/pro	duct-bu	ilder					40 40 50 50				
									30 50	JUUK			
SHIELDING	UP		SHIELI	DING DOWN	OPT		3]						
A Flat, semi-	diffuse		F Flat,	diffuse acrylic	See	page 3	for I	INISH OPTION	VS.				
acrylic E Elat diffue	معصر	ic [4]	P Proud, diffuse acrylic	EM/1	EM/10WRM ASYD ASYU		RM Remote mount 10-watt emergency battery ^[6]						
r Tiat, ullius	e aci yi		with 5/16 urop **				ASY	Downlight asymmetric distribution [7]					
							ASY	olight asymme	etric dist	ributio	n ^[8] dictributio		
					(L	Additional lower lumen packages available ^[10]							
					(Example: 600 lumens =							
							М	x4WUD-12′00	-L8/835	U/L8/8	35D-(L6U/	L6D)	
	1]					DR	IVF	2				VOI	TAGE
See page 5 fo	or ADD	ITIONA	I CONTI	OI OPTIONS		See		、 ne 6 for ADDIT	IONAL D	RIVFR		120	120V
See page 5 for ADDITIONAL CONTROL OF HONS.					OPTIONS. 277 277V						277V		
AVI-LVFA		Avi-on	wireles	s fixture control [1	12]	DIN	/ D	Driver with external dimming wires. Up			UNV	UNV 120-277V	
AVI-LVFA-CS	2-PIR	Avi-on motior	wireless fixture control with PIR n and daylight sensor ^[13]			DA	a	and down switch and dim together 3 Driver with 12V auxiliary power without			347	47 347V ^[18]	
AWNR		Lutron Athena wireless node integral fixture control. RF only ^[14]				e S	external dimming wires. Up and down switch together ^[16]			nd down			
AWNS	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing ^[15]				DSI	SR Sensor-ready driver without external dimming wires (D4i DALI-2). Up and down switch together ^[17]							

CATALOG #: _

NOTES

- Lumens per foot output based on A Shielding Up and F Shielding Down, 80 CRI/3500K CCT. Actual performance may vary ± 5%. See page 2 for FIXTURE PERFORMANCE DATA. Additional lumen packages available, see Options.
- 2 Extended lead times may apply. Consult factory for availability. See Technical Info for Power Entry details.
- 3
- Recommended for use in applications where the fixture will be viewed from above. Decreases lumen output. See page 3 for CROSS SECTIONS.
- See page 3 for FIXTURE DETAILS Available with A and F shielding only. Creates uneven lens illumination. See page 3 for CROSS SECTIONS. Available with A and F shielding only. Creates uneven lens illumination. See page 3 for CROSS SECTIONS. Available with A and F shielding only. Creates uneven lens illumination. See page 3 for CROSS SECTIONS.
- 9 illumination. See page 3 for CROSS SECTIONS.

- ¹⁰ (L4U/L4D) lumen package minimum. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
- Sensor recommended for use in downlight orientation only. Reduces portion of lit fixture, consult factory. See page 3 for SENSOR & NODE PLACEMENT DETAILS. See page 4 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS.
- DA Driver only.
 DA Driver only.

12

- DA Driver Ging.
 DA and DSR Drivers only.
 DA and DSR Drivers only.
 Avi-on and Lutron Athena Controls only.
 APPROVED
 APPROVED
 APPROVED
- Lutron Athena Controls only. JOB COPY 18 Not available with EM batteries, control sensors, DA, or DSR Drivers.



Designed and Manufactured in the USA H.E. Williams, Inc. Carthage, Missouri www.hew.com 417-358-4065 REV 01/17/24 II Information contained herein is subject to change without notice

Continuous Page 1 of 6

MX4WUD^{LED} 4" Continuous Up/Down – Wall

FIXTURE PERFORMANCE DATA

	PER FOOT		
	DELIVERED LUMENS	WATTAGE	EFFICACY (Im/W)
L8	1683	14.2	119
L12	2370	21.9	108
L15	2885	27.6	105
·			

- Photometrics tested in accordance with IESNA LM-79. Results based on A Shielding Up and F Shielding Down, 80 CRI/3500K CCT, average wattage for 120V through 277V input, and 25°C ambient temperature. Actual performance may vary +/-5%. To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy. ÷
- .
- Use multiplier tables to calculate additional options. .

MULTIPLIER TABLES

	COLOR TEMPERATURE		
	CCT	CONVERSION FACTOR	
	2700K	0.97	
~	3000K	0.99	
0 CI	3500K	1.00	
œ	4000K	1.03	
	5000K	1.06	
	2700K	0.92	
	2700K	0.82	
2	3000K	0.83	
8	3500K	0.84	
6	4000K	0.86	
	5000K	0.90	

ASY OPTION WATTAGE EFFICACY (Im/W) 1.02 0.98

PHOTOMETRY

MX4WUD-4'00-L8/835U/L8/835D-A/F-DIM Total Luminaire Output: 6732 lumens; 56.8 Watts | Efficacy: 119 lm/W | 80 CRI; 3500K CCT



	VERTICAL	HORIZONTAL ANGLE				ZONAL	
	ANGLE	0°	45°	90°	135°	180°	LUMENS
	0	1155	1155	1155	1155	1155	
	5	1175	1163	1135	1133	1145	109
	15	1123	1113	1091	1075	1081	309
	25	1026	1018	984	974	974	457
	35	879	873	847	829	821	531
NO	45	708	706	682	666	634	526
5	55	533	521	497	489	483	449
EI EI	65	338	330	318	312	312	318
ISI	75	161	153	145	149	141	161
i i i i i i i i i i i i i i i i i i i	85	28	24	18	22	24	36
N N	90	6	6	12	6	6	
Ē.	95	58	68	70	62	56	71
Ī	105	201	217	219	197	173	222
CAI	115	400	427	447	394	360	411
	125	654	676	696	638	596	594
	135	938	948	950	905	861	712
	145	1149	1153	1161	1109	1085	711
	155	1302	1306	1312	1270	1246	595
	165	1380	1384	1398	1360	1344	388
	175	1396	1403	1429	1390	1370	133
	180	1398	1398	1398	1398	1398	

	ZONE	LUMENS	% FIXTURE
~	0 - 30	875	13
AR)	0 - 40	1406	21
MM	0 - 60	2380	35
SU	0 - 90	2894	43
Ē	90 - 120	704	11
S	90 - 130	1298	19
-	90 - 150	2721	40
	90 - 180	3838	57
	0 - 180	6732	100

MX4WUD-4'00/L8/835U/L8/835D-ASYUD-DIM-UNV Total Luminaire Output: 6501 lumens; 58.4 Watts | Efficacy: 111 lm/W | 80 CRI; 3500K CCT



	VERTICAL	HORIZONTAL ANGLE							
	ANGLE	0°	45°	90°	135°	180°	LUMENS		
	0	1153	1153	1153	1153	1153			
	5	1149	1175	1188	1175	1149	109		
	15	1101	1185	1221	1185	1101	311		
	25	1011	1135	1187	1135	1011	468		
	35	881	1024	1083	1024	881	556		
N	45	726	868	922	868	726	566		
۲.	55	560	684	730	684	560	507		
E E	65	384	481	516	481	384	387		
ISI	75	203	275	300	275	203	227		
E E	85	50	86	100	86	50	68		
N	90	5	26	39	26	5			
Ē	95	51	89	103	89	51	71		
Ī	105	210	284	310	284	210	234		
S	115	397	497	533	497	397	400		
	125	578	706	754	706	578	524		
	135	750	897	952	897	750	584		
	145	910	1057	1118	1057	910	574		
	155	1044	1172	1226	1172	1044	483		
	165	1137	1223	1260	1223	1137	321		
	175	1186	1213	1226	1213	1186	112		
	180	1189	1189	1189	1189	1189			

		ZONE	LUMENS	% FIXTURE
	_	0 - 30	887	14
í	E H	0 - 40	1443	22
	Σ	0 - 60	2516	39
-	SU	0 - 90	3198	49
E	90 - 120	704	11	
	l ≧.	90 - 130	1228	19
	90 - 150	2386	37	
	90 - 180	3302	51	
		0 - 180	6501	100



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MX4WUD^{LED} 4" Continuous Up/Down – Wall

CROSS SECTIONS



REMOTE MOUNT BATTERY

Test light

ø

18

Max remote distance 50'. Remote driver box

FIXTURE DETAILS



Standalone and feeder fixtures receive two mounting brackets. Joiner fixtures connect to feeder fixtures and receive one mounting bracket.

MOUNTING



FINISH OPTIONS



For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require two sample swatches, minimum 1" square.

Hex box (By others)

Power to

fixture

SENSOR & NODE PLACEMENT DETAILS



MX4WUD LED 4" Continuous Up/Down – Wall

AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS



Simple

- Gateway-free distributed control ÷
- Factory pre-commissioning х.
- Contractor friendly installation .
- έ. Occupancy/vacancy/daylight sensing

Scalable

- Virtually unlimited network size .
- Spans small offices to large warehouses .
- Flexible control strategies ÷

Secure

- ÷ Optional cloud connectivity
- UL IoT platinum security rating .
- . DLC 5.0 compliant

COMMISSIONING & INSTALLATION TOOLS

Avi-on mobile apps provide intuitive, quick installation and commissioning. Pro tools are available to qualified installers. Live commissioning training and on-site or remote support by Avi-on must be ordered separately through Avi-on.



Web App



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ACCESSORIES

WALL STATIONS			
AVI-2401AC	Scene controller - numbered 1-4, 120-277VAC		
AVI-2402BAT	Scene controller - numbered 1-4, battery powered		
AVI-2401AC-2	Dimmer with presets - percentages, 120-277VAC		
AVI-2402BAT-2	Dimmer with presets - percentages, battery powered		
AVI-2401AC-3	On/off/dimming, 120-277VAC		
AVI-2402BAT-3	On/off/dimming, battery powered		

NETWORK

AVI-RAB-LTE Remote access bridge AVI-KIT-NTM Network time manager with battery backup **CEILING MOUNT SENSORS**

AVI-KIT-SEN-DUCM PIR motion and ultrasonic sensor kit AVI-KIT-SEN-ICM PIR motion and photocell sensor kit

For load controllers and additional accessory info, see hew.com/avi-on

AVI-LVFA-CS2-PIR Avi-on wireless fixture control with PIR motion and daylight sensor. DA Driver only.

Pro App

SPECIFICATIONS	
ТҮРЕ	PIR Motion + Daylight
MOUNTING HEIGHT	8' - 10'
DETECTION ANGLE	360°
TEMPERATURE RANGE	-30° to 50°C
RELATIVE HUMIDITY	10 to 80% non-condensing
IP RATING	IP20
MANUFACTURER	Avi-On

SENSOR COVERAGE PATTERNS Side View 8' height: ø24' coverage



SENSOR DETAIL



Dimensions: 13/16" x 2-1/4"







MX4WUD LED 4" Continuous Up/Down – Wall

ADDITIONAL CONTROL OPTIONS

AWNS Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing. DA and DSR Drivers only.

SPECIFICATIONS		SENSOR COVERAGE PATTERNS		SENSOR DETAIL
ТҮРЕ	Radio Frequency	9' height: ø12' coverage	Motion Sensor Coverage	
MOUNTING HEIGHT	8' – 12'	0'	CEILING COVERAGE	
DETECTION ANGLE	360°		8' 114	
TEMPERATURE RANGE	0° to 55°C		9' 144 10' 178	
RELATIVE HUMIDITY	0 to 90%, non-condensing		12′ 256	LUTRON
COMMISSIONING	Clear Connect gateway – Type X with app (iOS or Android)			
MANUFACTURER	Lutron			Dimensions: ø1-1/8"
	SLUTRON			

ATHENA CONTROL OPTIONS

CATALOG NUMBER	DESCRIPTION
AWNR	Lutron Athena wireless node integral fixture control, RF only, for use with D4i DALI-2 or driver with 12V auxiliary power.
AWNS	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing, for use with D4i DALI-2 or driver with 12V auxiliary power.
AWNR-BL	Lutron Athena wireless node integral fixture control, RF only, for use with D4i DALI-2 or driver with 12V auxiliary power, black finish.
AWNS-BL	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing, for use with D4i DALI-2 or driver with 12V auxiliary power, black finish.

OCCWS-FS-305-L6-PP-120/277 Wattstopper PIR motion and daylight hold off sensor with power pack, 120/277V

SPECIFICATIONS	
ТҮРЕ	PIR Motion + Daylight Hold Off
MOUNTING HEIGHT	8′
LENS	Indoor, non-wet location use
DETECTION ANGLE	360°
TEMPERATURE RANGE	-40° to 55°C
RELATIVE HUMIDITY	5% to 95%, non-condensing
COMMISSIONING	Dials under lens

SENSOR COVERAGE PATTERNS



SENSOR DETAIL



Dimensions: ø1-5/16"

OCCWS-LMFS-601-PP-120/277 Wattstopper PIR motion and daylight sensor with power pack, 120/277V

SPECIFICATIONS	
ТҮРЕ	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 12'
LENS	Up to 300 sq/ft coverage
DETECTION ANGLE	360°
TEMPERATURE RANGE	0° to 50°C
RELATIVE HUMIDITY	0 to 90%, non-condensing
COMMISSIONING	App (iOS or Android)

SENSOR COVERAGE PATTERNS

8' height: ø20' coverage





SENSOR DETAIL



Dimensions: ø1-5/16"



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MX4WUD^{LED} 4" Continuous Up/Down – Wall

ADDITIONAL DRIVER OPTIONS

Note: Lumen restrictions apply, consult product builder at hew.com/product-builder.

CATALOG NUMBER	DESCRIPTION
DRV	Driver prewired for non-dimming applications; entire fixture switches together
DIM	Dimming driver prewired for 0-10V low voltage applications; entire fixture switches and dims together
DRVU/DRVD	Driver prewired for non-dimming applications; up and down portions switch separately
DRVU/DIMD	Driver prewired for non-dimming applications; up and down portions switch separately; 0-10V on down portion only
DIMU/DRVD	Up and down portions switch separately; dimming driver prewired for 0-10V low voltage applications on up portion only
DIMU/DIMD	Dimming driver prewired for 0-10V low voltage applications; up and down portions switch and dim separately
DRVDIMU	Entire fixture switches together; dimming driver prewired for 0-10V low voltage applications on up portion only
DRVDIMD	Entire fixture switches together; dimming driver prewired for 0-10V low voltage applications on down portion only
DIM1	1% dimming driver prewired for 0-10V low voltage applications
DIM LINE	Line voltage dimming driver (TRIAC and ELV compatible, 120V only)
DIM TRC	Line voltage dimming driver (TRIAC compatible, 120V only)
DIM LINEU/DIM LINED	Line voltage switching and line voltage dimming; up and down portions switch separately
DIM LINEU/DRVD	Up and down portions switch separately; line voltage dimming on up portion only
DRVU/DIM LINED	Up and down portions switch separately; line voltage dimming on down portion only
DA	Driver with 12V auxiliary power without external dimming wires. Up and down switch together.
DA-U/D	Driver with 12V auxiliary power without external dimming wires. Up and down switch separately.
DSR	Sensor-ready driver without external dimming wires (D4i DALI-2). Up and down switch together.
DSR-U/D	Sensor-ready driver without external dimming wires (D4i DALI-2). Up and down switch separately.



Permit #______



Continuous Page 6 of 6









ORDERING EXAMPLE: 76R - 4 - L52/840 - OPTIONS - CONTROL/DIM - UNV

CATA	LOG	#:	
			_

TYPE

PROJECT: _



FEATURES

- Diffuse acrylic lens enhances uniformity and minimizes glare
- High-performance up to 154 lm/W
- 40°C max ambient operating temperature Diverse selection of mounting accessories for surface and suspended applications

5

- Channel connector furnished for continuous row applications (included with 8' units only)
- Special reflectors are available for precise light distribution
- Optional wireguard provides added protection
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

SPECIFICATIONS

- HOUSING 22-gauge die-formed C.R.S. .
- FINISH 92% minimum average reflective white polyester powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
- SHIELDING Linear ribbed diffuse acrylic
- ELECTRICAL High-quality mid-power LED boards. L70 at 60,000 hours. 40°C maximum ambient operating temperature. 50°C maximum ambient operating temperature with HA Option, lumen restrictions apply.
- MOUNTING Surface (ceiling or wall) or suspended (hanging hardware required).
- LISTINGS -
- cETLus conforms to UL STD 1598. Certified to CAN/CSA STD C22.2 No. 250.0. Suitable for damp locations. DesignLights Consortium qualified
- product. Not all versions of this product may be DLC qualified, see the DLC Qualified Products List at designlights.org/QPL
- Complies with the Buy American Act and other federal regulations. Request certification at hew.com/baa.
- WARRANTY 5-year limited warranty, see hew.com/warranty

ORDER	ING INFO)										
SERIES 76R	LENGTH 4 4' 8 8 ^[4]	1 ^[1] LUMEN 4' L30 L52 L72 L94 8' L60 L104 L144 L188	IS ^[2] 3,000lm 5,200lm 7,200lm 9,400lm ^[5] 6,000lm 10,400lm 14,400lm 18,800lm ^[6]	CRI 8 80 9 90 ^[7]	CC ²⁷ 30 35 40 50	Г 2700К 3000К 3500К 4000К 5000К	OPTIONS EM/10W (L) WG-76R11 WG-76R14 SS-12 SWS-12 GAT VBY VBY-2 SMH-76R SHS-76R HA AIRCRAFT Prefix ACFL/ For ACJL/ Jo	allo-wa Addit availa Exam 76R-{ Quick 11-ga Singly Swive (2) Y- (2) Y- (2) Y- (2) Y- Surfa Surfa 50°C CABI	att emerg ional low able. ^[9] ple: 8,00 8-L104/83 (-connect uge white uge white e stem an el stem an astener (' hangers hangers to ce mount ce mount ce mount ce mount ce mount ce stem an ambient (^{13]} LES (EXA) Type D 1" gric N 9/16" S Slot g	ency b er lum 0 nom 5-(18 0 e powc e powc d canc d canc to canc d canc to can	battery en pacc inal lui D ler coa der coa d	<pre>[8] kages mens = 255. [10] it wireguard at wireguard " [11] "" [12] 5 prid ceilings nperature, /D48) [14] Length 24 24" 48 48" 96 96"</pre>
CONTRC See page – AVI-LVFA AVI-LVFA AWNR	ol (15) 9 5 for ADD N-PIR-ELB	ITIONAL CONT None Avi-on wirele Avi-on wirele motion and d Lutron Athen fixture contro	FROL OPTIONS ess fixture cont laylight sensor a wireless nod ol, RF only ^[18]	rol ^[16] rol with PIF , end moun e integral	2 t[17]	DRIVER See pa DRIVER DIM D d DRV D d DRV D d DRX S E e	ge 6 for ADD OPTIONS. river with ex- imming wires river without imming wires river with 12 ower, withou imming wires ensor-ready xternal dimm	ITIONA ternal s extern s V auxil t exter s ^[19] driver hing wi	IL nal iary mal without res ^[20]	VOL 120 277 UNV 480	TAGE 120V 277V 120-2 480V transt	77V with stepdown former ^[21]
NOTES ¹ For act ² Lumen may va DATA. ³ See pa upon ru page 3 ⁴ Ships v	ual length, output bas iry +/-5%, s ge 3 for FIN equest. See for SPECIA vith (2) 4' le	see page 2 for ed on 80 CRI/4 ee page 2 for F IISH OPTIONS. e page 3 for MC L REFLECTOR (inses.	FIXTURE DETAI 000K CCT. Actu IXTURE PERFOF Custom colors a JUNTING DETAII DPTIONS	LS. Ial performa RMANCE available _S. See	ince	12 Two req 13 L7: 14 VB 15 See See DE	o stem sets re uired for each 2 max for 4', L 4 hanger(s) in- uire cord. See e page 3 for SI e page 4 for A' FAILS.	quired 1 row m 144 ma cluded page ENSOR VI-ON I	. One addi nounted fiz x for 8'. No . Units spe 3 for MOU & NODE P BLUETOOI	itional xture. ot avai ecified NTING PLACEN FH WIR	stem se able w with ai DETAII IENT D ELESS	et rith EM batteries rcraft cable LS. IETAILS. CONTROL

- page 3 fo Ships wit
- 6
- Ships with (2) 4 teribes. 30°C maximum ambient operating temperature. 30°C maximum ambient operating temperature. Extended lead times may apply. Consult factory for availability. 30° maximum ambient operating temperature. Specify in increments of 100 nominal lumens. Option must be precified with power bick be ulman a package. 9
- specified with next higher lumen package. See page 2 for QUICK-CONNECT OPTIONS. 10
- 11 Two stem sets required. One additional stem set required for each row mounted fixture.
- ¹⁶ DA Driver only.
- DA Driver only.
 DA and DSR Drivers only.
 Avi-on and Lutron Athena Controls only.
- ²⁰ Lutron Vive and Athena Controls only.
 ²¹ Not available with EM batteries, DA, or DSIGE COPY APPROVED





Designed and Manufactured in the USA REV 01/10/24 II



FIXTURE PERFORMANCE DATA

	LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (Im/W)
	L30	3067	20.3	151
-	L52	5261	35.8	147
4	L72	7212	50.2	144
	L94	9418	68.6	137
	L60	6134	39.8	154
	L104	10523	69.5	151
[∞]	L144	14425	100.5	144
	L188	18836	137.1	137

MULTIPLIER TABLE

		COLC	R TEMPERATURE
		ССТ	CONVERSION FACTOR
		2700K	0.94
	80 CRI	3000K	0.96
		3500K	0.97
		4000K	1.00
		5000K	1.03
		2700K	0.77
	~	3000K	0.79
90 CI	3500K	0.80	
	4000K	0.83	
		5000K	0.86

- Photometrics tested in accordance with IESNA LM-79. Results based on 80 CRI/4000K CCT, average wattage for 120V through 277V input, and 25°C ambient temperature. Actual performance may vary +/-5% To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy. Use multiplier table to calculate additional options.
- .

PHOTOMETRY

76R-4-L94/840 Total Luminaire Output: 9418 lumens; 68.6 Watts | Efficacy: 137.3 lm/W | 80 CRI; 4000K CCT



		HO			
	VERTICAL ANGLE	0°	45°	90°	ZUNAL LUMENS
	0	3041	3041	3041	
	5	3067	3019	3010	288
	15	2910	2905	2926	821
	25	2599	2674	2746	1231
	35	2171	2340	2469	1458
S	45	1676	1928	2113	1478
5	55	1177	1490	1706	1311
	65	715	1046	1284	1023
SI	75	358	701	908	711
i i i i i i i i i i i i i i i i i i i	85	71	445	633	446
N N	90	0	347	516	
E E	95	0	274	442	273
Ē	105	0	166	305	168
R	115	0	105	210	102
	125	0	65	141	58
	135	0	41	90	31
	145	0	8	50	13
	155	0	0	37	6
	165	0	0	12	1
	175	0	0	0	0
	180	0	0	0	

	ZONE	LUMENS	% FIXTURE
≳	0 - 30	2339	25
MAI	0 - 40	3798	40
N N	0 - 60	6586	70
NS	0 - 90	8766	93
E	90 - 120	543	6
	90 - 150	645	7
	90 - 180	652	7
	0 - 180	9418	100

FIXTURE DETAILS



QUICK-CONNECT OPTIONS

Note: Quick-connect wiring required for row mounting. All QC harnesses contain (5) 16ga conductors plus ground.

DESIGNATION	NUMBER OF 16GA WIRES FACTORY CONNECTED (EXCLUDING GROUND)	WIRE COLOR/POWER SUPPLY FACTORY CONNECTIONS	TYPICAL USE
QCBW	2	Black, White	On/off switching (DRV) or line voltage dimming (DIM LINE)
QCRW	2	Red, White	Alternating circuits on/off switching (DRV) or line voltage dimming (DIM LINE)
QCBRW	3	Black, Red, White	On/off switching (DRV) or line voltage dimming when equipped with EM battery packs
QCBW/PK	4	Black, White, Purple, Pink	Single circuit with 0-10V low voltage dimming (DIM)
QCRW/PK	4	Red, White, Purple, Pink	Alternating circuits on/off switching with 0-10V low voltage dimming (DIM)
QCBRW/PK	5	Black, Red, White, Purple, Pink	On/off switching when equipped with EM battery packs and 0-10V dimmits (1)
QCBW/RPK	5	Black, White, Red, Purple, Pink	On/off switching with 0-10v dimming and 0-10v tunable using shared compression
QCUU	N/A	N/A	QC harness passes through fixture, but is not connected to it JOB COPY







MOUNTING DETAILS

STANDARD HARDWARE FOR SUSPENDED PRODUCT (Grid and Hardpan)



SPECIAL REFLECTOR OPTIONS







CORD FOR SUSPENDED PRODUCT

FINISH OPTIONS

WHITE	BLACK	BRONZE	NICKEL	SILVER	ALUM	For custom color, please specify
						RAL code or a manufacturer code with description. All custom colors other than RAL require two sample swatches, minimum 1" square.

SENSOR & NODE PLACEMENT DETAILS



SEE NEXT PAGE FOR CONTROL DETAILS.







76R LED Round Lens Strip

AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS



Simple

- Gateway-free distributed control
- Factory pre-commissioning
- Contractor friendly installation
- Occupancy/vacancy/daylight sensing

Scalable

- Virtually unlimited network size
- Spans small areas to large garages
- Flexible control strategies

Secure

- Optional cloud connectivity
- UL IoT platinum security rating
- DLC 5.0 compliant

COMMISSIONING & INSTALLATION TOOLS

Avi-on mobile apps provide intuitive, quick installation and commissioning. Pro tools are available to qualified installers. Live commissioning training and on-site or remote support by Avi-on must be ordered separately through Avi-on.





The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Avi-on is under license. Other trademarks and trade names are those of their respective owners.

ACCESSORIES

WALL STATION	S
AVI-2401AC	Scene controller - numbered 1-4, 120-277VAC
AVI-2402BAT	Scene controller - numbered 1-4, battery powered
AVI-2401AC-2	Dimmer with presets - percentages, 120-277VAC
AVI-2402BAT-2	Dimmer with presets - percentages, battery powered
AVI-2401AC-3	On/off/dimming, 120-277VAC
AVI-2402BAT-3	On/off/dimming, battery powered

NETWORK			
AVI-RAB-LTE Remote access bridge AVI-KIT-NTM Network time manager with battery backup			
CEILING MOU	JNT SENSORS		
AVI-KIT-SEN-DUCM PIR motion and ultrasonic sensor kit AVI-KIT-SEN-ICM PIR motion and photocell sensor kit			

For load controllers and additional accessory info, see hew.com/avi-on

AVI-LVFA-PIR-ELB Avi-on wireless fixture control with PIR motion and daylight sensor, end mount. DA Driver only.

SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 45'
LENS	Single lens detects high and low bay motion.
DETECTION ANGLE	360°
TEMPERATURE RANGE	-30° to 70°C
RELATIVE HUMIDITY	90 to 95% at 30°C
COMMISSIONING	App (iOS or Android)
SYSTEM REQUIREMENTS	Avi-On wireless fixture controls plus desktop and mobile apps
MANUFACTURER	Avi-On
	COVI - OC - O

SENSOR COVERAGE PATTERNS











Small motion

SENSOR DETAIL





Reviewed for Code Compliance Signed ______ 19/16/2024 Date _____



76R LED Round Lens Strip

ADDITIONAL CONTROL OPTIONS

VDO Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC). DSR or LDE Drivers only. LDE drivers require driver interface

SENSOR COVERAGE PATTERNS

SPECIFICATIONS	
ТҮРЕ	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 12'
DETECTION ANGLE	360°
TEMPERATURE RANGE	0° to 55°C
RELATIVE HUMIDITY	0 to 90%, non-condensing
COMMISSIONING	App (iOS or Android)
MANUFACTURER	Lutron

9' height: ø12' coverage
y y y y y y y

Motion Sensor Coverage COVERAGE AREA (SQ FT) CEILING HEIGHT 114 8′ 144 9' 10′ 178 12′ 256

SENSOR DETAIL



Dimensions: 2-11/16" x 1"

VIVE CONTROL OPTIONS

CATALOG NUMBER	DESCRIPTION
VRF	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF), for use with sensor-ready driver
VDO	Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC), for use with sensor-ready driver
VRF/DBI	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF) and digital link interface, for use with Lutron Hi-lume 1% EcoSystem dimming LED driver
VDO/DBI	Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC) and digital link interface, for use with Lutron Hi-lume 1% EcoSystem dimming LED driver

OCCWS-FSP-311B-L_-120/277 Wattstopper PIR motion and daylight sensor, 120/277V. Must specify lens: L2, L3, or L7

SPECIFICATIONS	
ТҮРЕ	PIR Motion + Daylight
MOUNTING HEIGHT	8' - 40'
DETECTION ANGLE	360°
TEMPERATURE RANGE	-40° to 75°C
COMMISSIONING	App (iOS or Android)

OCCLV-OSFHU-ITW-120-347 Leviton PIR motion sensor, 120-347V.

Interchangeable high bay, low bay or

20% to 90% non-condensing

PIR Motion

8'-40'

aisle mask

-10° to 71°C

360°

SENSOR COVERAGE PATTERNS



L3 20' height: ø40' coverage





SENSOR DETAIL



L7 40' height: ø100' coverage





SENSOR DETAIL



JOB COPY

Signed JM for EM 10/16/2024 Date

SPECIFICATIONS

MOUNTING HEIGHT

DETECTION ANGLE

TEMPERATURE RANGE

RELATIVE HUMIDITY

TYPE

LENS

H.E. Williams, Inc.
Carthage, Missouri www.hew.com 417-358-4065 Information contained herein is subject to change without notice.

Designed and Manufactured in the USA REV.01/10/24.JL











SENSOR COVERAGE PATTERNS

High bay 40' height: ø60' coverage

Low bay 25' height: ø60' coverage



OCCSS LSXR-10-120-277 Sensor Switch PIR motion sensor, 120-277V OCCSS LSXR-10-347/480 Sensor Switch PIR motion sensor, 347/480V

SPECIFICATIONS	
TYPE	PIR Motion
MOUNTING HEIGHT	7′ – 15′
DETECTION ANGLE	360°
TEMPERATURE RANGE	-10° to 60°C
RELATIVE HUMIDITY	Up to 90% non-condensing

SENSOR COVERAGE PATTERNS

9' height: ø56' coverage



SENSOR DETAIL



ADDITIONAL DRIVER OPTIONS

Note: Lumen restrictions apply, consult product builder at hew.com/product-builder.				
CATALOG NUMBER	DESCRIPTION			
DRV	Driver prewired for non-dimming applications			
DIM	Dimming driver prewired for 0-10V low voltage applications			
DIM1	1% dimming driver prewired for 0-10V low voltage applications			
DIM LINE	Line voltage dimming driver (TRIAC and ELV compatible, 120V only)			
DIM TRC	Line voltage dimming driver (TRIAC compatible, 120V only)			
DA	Driver with 12V auxiliary power			
DSR	Sensor-ready driver (D4i DALI-2)			
SD40	40% step-dimming driver			
SD50	50% step-dimming driver			
DALI	DALI dimming driver			
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver			



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Permit # 24



VLRD LED Bulkhead Wall Pack – Round







TYPE:			

OPTIONS [3]

Single fuse

Double fuse

10kV surge protection [4]

Pencil Photocell, 120-277V

6-watt emergency battery [6]

Photocell, 120-277V

OCC-S2X Integral occupancy and motion sensor with dimming ^[5]

SF

DF

PC

P14

EM/6W

SP10

PROJECT:

FINISH

BZ Bronze

WHT White

FEATURES

- Three frame styles provide decorative appearance for effective accent and security lighting
- Energy-saving alternative to traditional HID fixtures
- Polycarbonate opal vandal-resistant lens eliminates LED hot spots
- 8' 20' mounting heights .
- Optional energy-saving photocells and occupancy sensor available
- Maximize energy savings with efficacies as high as 111 lm/W

SPECIFICATIONS

- HOUSING Die-cast gasketed aluminum enclosure. Nickel-plated stainless steel hardware.
- OPTICAL Type IV wide forward throw distribution.
- THERMAL Integral heat sink. Operating temperature -40°C to 50°C.
- LENS Polycarbonate opal lens.
- LED DRIVER 0-10V integral dimming ÷ driver.
- ELECTRICAL 120-277V input range; 50-60Hz; power factor >0.90; THD<20%. 2kV standard surge protection. L70 = 187,000 hours at 25°C.
- FINISH Textured bronze powder coat over a chromate conversion coating.
- MOUNTING Surface mount.
- LISTINGS CSA listed for wet locations, ANSI/UL 1598, 8750; IP66 sealed LED compartment.
- WARRANTY 5-year limited warranty, see hew.com/warranty.

G Glid	50 5000K			

CRI

8 80

ССТ

30 3000K

40 4000K

ORDERING EXAMPLE: WLRDO - L22/840 - BZ - OPTIONS - DIM - UNV

LUMENS^[2]

L22 2,200lm

DRIVER VOLTAGE DIM Dimming driver [7] **UNV** 120-277V 347 347V^[8]

ORDERING INFO

STYLE [1]

O Open

C Cutoff

SERIES

WLRD

NOTES

- See page 2 for FIXTURE DETAILS. Lumen output based on 4000 CCT. Actual lumens may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA. 3
- Fixtures ordered with factory-installed photocell or motion sensor controls are internally wired for switching and/or 1-10V dimming within the housing.
- 5
- 6
- In addition to 2kV standard surge protection of 12kV. For mounting heights 8'-40', 120-277V only. 90 minutes emergency operation; ambient operating temperature range: 10°C to 50°C. APPROVED Prewired for 0-10V low voltage applications COPY Extended lead times may apply. Consult factory for availability. 8 availability.

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NLRD LED Bulkhead Wall Pack – Round

FIXTURE PERFORMANCE DATA

STYLE	DELIVERED LUMENS	WATTAGE	EFFICACY (Im/W
Open	2230		111.5
Cutoff	1858	20	92.5
Grid	1897		94.9

- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25°C ambient temperature. Wattage shown is average for 120V through 277V input. Results based on 4000K, 80 CRI, actual lumens may vary +/-5% Use multiplier table to calculate additional options. .
- .
- . .

FOOTCANDLE DISTRIBUTIONS



CUTOFF



Footcandle calculations based on standard building reflectance of .10 with a ground reflectance of .0 and a light loss factor of .90.

Fixture installed at 10' mounting height.

- Efficacy: 112 lm/W
- . Flux: 2230 lm
- CRI: 80 CCT: 4000K . ÷
- BUG Ratings: B1-U1-G0 .
- Efficacy: 93 lm/W Flux: 1858 lm .
 - ÷ .
 - CRI: 80 CCT: 4000K .
 - ÷ BUG Ratings: B1-U1-G0

FIXTURE DETAILS



BACKVIEW





Reviewed for Code Compli Signed _____ 10/16/2024 Date _ armit #

AEP SPAN



Reviewed for Code Compliance Signed ^{M for EM} Date ______ Permit II ²⁰²⁴⁰¹⁹⁰



Dura Tech[®] 5000/Dura Tech[®] *mx* with Substrate 40 Year Limited Warranty

AEP Span, a division of ASC Profiles LLC ("ASC") provides the following limited warranty to the Building Owner stated on the face of this limited warranty for installed Dura Tech 5000/ Dura Tech mx coated metal panels (the "Product").

Warranty. Subject to the terms and conditions contained in this limited warranty, ASC warrants that:

- The paint on the Product will not, for a period of 40 years after installation (but not longer than 40 years 6 months from application of the coating):
 - (a) Crack, flake or peel (loss of adhesion) to an extent that is apparent on ordinary outdoor visual observation. Slight crazing or cracking, which may occur during fabrication of the building parts, and spangle cracking are not covered under this limited warranty.
 - (b) Change color more than 5 Hunter delta-E units as determined by ASTM method D-2244-02. Color change shall be measured on an exposed painted surface that has been cleaned of surface soils and chalk, and the corresponding values measured on the original or unexposed painted surface. Color changes may not be uniform on surfaces that are not equally exposed to the sun and elements and ASC does not warrant that color changes will be uniform.
 - (c) Chalk in excess of ASTM D-4214-98 method A D659 number 8 when properly maintained as described in this limited warranty.
- (2) For ZINCALUME® or GALVALUME® the substrate will not for period of 25 years after shipment, rupture, fail structurally or perforate due to exposure to normal atmospheric conditions. This limited warranty excludes any accumulations of red rust which occurs at breaks for discontinuities in the surface, such as field cut edges, and shall not apply to metal penetration, cuts or shears made at any time after product leaves ASC.

Exclusions and limitations.

- This limited warranty applies only to Product installed on buildings within the Continental United States, Alaska, Canada, Hawaii and Mexico.
- (2) This limited warranty applies only to the Building Owner stated in on the face of this limited warranty, and is not transferable and not assignable to any other person or entity. This limited warranty will not inure to the benefit of any other party and will terminate automatically upon any change of control of the Building Owner.
- (3) This limited warranty does not cover industrial applications such as steel mills, power generating stations, oil fields, oil refineries, ore mines, chemical plants, paper mills, or other unusual environmental exposure. Customer is required to consult with ASC before any installation takes place on industrial applications and ASC reserves the right to determine whether or not the Products will be covered by this limited warranty.
- (4) This limited warranty will be null and void unless the Product has been paid for in full.
- (5) Corrosion or loss of paint adhesion as a result of embossing or perforating the Product is not covered by this limited warranty.
- (6) This limited warranty does not apply to areas that are sheltered from rainfall or that do not provide drainage.
- (7) This limited warranty does not apply in the event of deterioration to the Product caused directly or indirectly by contact with fasteners including deterioration of the Product caused by galvanic corrosion/dissimilar metals.
- (8) This limited warranty does not cover (A) Product that has bends (i) less than 2T radius for sheet thickness of .0299" and thinner and (ii) less than 4T radius for sheet thickness of .0300" and thicker and (B) forming of the material that incorporates stretching or severe reverse bending, or that subjects the coating to alternate compression and tension.
- (9) This limited warranty does not cover any Product located 30 miles or less from the Halema'uma'u or Pu'uO'o Kilauea volcano vents on Island of Hawaii.
- (10) This limited warranty does not cover any Product located within 1000 feet of a saltwater and/or marine environment.
- (11) Corrosion, loss of adhesion, color changes or any other damage as a result of cleaning the Product with abrasive or chemical cleaners is not covered by this limited warranty. This Product must not be cleaned with abrasive or chemical cleaners.
- (12) Failure of Purchaser to comply with the Installation Information and Maintenance sections herein shall make this limited warranty null and void.
- (13) This limited warranty does not cover damages or conditions resulting from circumstances beyond ASC's control, including, without limitation, the following:
 - (a) Acts of God, falling objects, explosions, external forces, or fire;
 - (b) Unusual or aggressive atmospheres such as those where the Product is exposed to or contaminated with harmful or corrosive chemicals or salt spray;
 - (c) Fallout or exposure to corrosive fumes, ash or cement dust;
 - (d) Standing or ponding water on the Product;
 - (e) Significant differences in insulation below the coated metal panel;
 - (f) Failure to store or install Product in a way that allows for adequate circulation;
 - (g) Condensation or other contamination or damage attributable to improper shipping, packaging, handling, processing or installation;
 - (h) Failures or damage resulting from edge corrosion;
 - (i) Scratching or abrading during or after installation;
 - (j) Prolonged contact with or removal of vegetation, dirt or gravel;
 - (k) Sustained exposure to animals or animal waste;
 - (1) Where the Product is in contact with, or subject to runoff from lead, copper, CCA, ACQ, CA,

pressure treated, green or wet lumber, or wet insulation or other treated lumber (outdoor wood) or fire retardant impregnated or treated wood shakes;

- (m) Mishandling of the Product, including abuse, alteration, modification, improper use or storage;
- (n) Damage from snow or ice removal or aggressive pressure washing; and
- (o) Damages or conditions at the point(s) and adjacent areas where materials or items such as snow guards or solar panels are attached or adhered to the Product.

Notification of claim; Right of ASC to inspect. ASC must be notified within 20 days after discovery of any alleged condition giving rise to a claim, and ASC and its representatives must be allowed an opportunity to inspect and if required, obtain a sample of the Product. Upon request by ASC, the purchaser shall provide identification of the Products involved in the claim, including the date of installation and order number. All decisions regarding the existence of conditions affecting this limited warranty will be made by ASC and will be final and binding on all parties. The party notifying ASC of any defect or claim will reimburse all of ASC's third party expenses incurred in connection with the investigation of a defect or claim if it is later determined that ASC is not responsible for the problem underlying the defect or claim. In no event will the original warranty period set forth above be extended by a warranty claim.

To make a claim or obtain service under this limited warranty, the Building Owner must call ASC at 1-800-360-2477 or submit your claim in writing to ASC Profiles 2110 Enterprise Blvd., West Sacramento, CA 95691, Attn: Claims Administrator.

Installation information. The Product must be installed to prevent standing water and condensation. The roof pitch must not be less than 1/4:12. Responsibility for selection of suitable long-lasting fasteners to be used with the Product rests solely with the Building Owner or the installer it chooses. Although ASC may provide information to aid in selection of fasteners, the provision of such information by ASC will not constitute an endorsement or warranty of performance of the Product with those fasteners under any conditions.

Maintenance. The Product must regularly be washed, either by sweet or tap water or by cleaning with 1/3 cup of Tide[®] detergent or other common detergent containing less than 0.5% phosphate dissolved in one gallon of water. A clear water rinse should follow immediately. The Product must not be cleaned with abrasive or chemical cleansers. Cleaning must include the underside of any panel overhang where the underside is exposed to the weather. If Product is installed in a mild marine environment, less than 1 mile and greater than 1000 feet from breaking surf, Product must be washed two times per year.

General terms and conditions; Disclaimer of all other warranties. This warranty is limited and is nontransferable. The Building Owner's sole and exclusive remedy against ASC will be repair or replacement of the defective Product, or a refund the purchase price, at the sole option of ASC. THIS LIMITED WARRANTY IS ASC'S SOLE AND EXCLUSIVE WARRANTY REGARDING THE PRODUCT AND IS IN LIEU OF ANY OTHER WARRANTY, WHETHER EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ANY OTHER WARRANTY OF QUALITY. ALL WARRANTIES OTHER THAN THIS LIMITED WARRANTY (INCLUDING ALL IMPLIED WARRANTIES LISTED IN THE PREVIOUS SENTENCE) ARE EXPRESSLY EXCLUDED AND DISCLAIMED. TO THE EXTENT LOCAL LAW PROVIDES THAT ANY IMPLIED WARRANTIES MAY BE NOT EXCLUDED OR DISCLAIMED, THOSE WARRANTIES ARE LIMITED IN DURATION TO THE SHORTER OF (i) THE DURATION OF THE EXPRESS WARRANTY PROVIDED IN THIS LIMITED WARRANTY OR (ii) THE SHORTEST DURATION REQUIRED BY LOCAL LAW.

IN NO CASE WILL ASC BE LIABLE TO ANY PERSON OR ENTITY FOR PROPERTY DAMAGE OR PERSONAL INJURY IN TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY), CONTRACT, WARRANTY, OR OTHERWISE FOR DIRECT, INDIRECT, SPECIAL, NCIDENTAL, PUNITIVE, CONSEQUENTIAL OR OTHER DAMAGES OR LOSSES, INCLUDING BUT NOT LIMITED TO DAMAGE FOR LOSS OF BUSINESS PROFITS, BUSINESS INTERRUPTION, LOSS TO THE BUILDING OR ITS CONTENTS OR ANY OTHER LOSS, REGARDLESS OF THE CAUSE OF SUCH DAMAGE AND WHETHER OR NOT CAUSED BY OR RESULTING FROM THE NEGLIGENCE OF ASC, EVEN IF ASC HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR LOSSES. ASC'S TOTAL LIABILITY FOR ALL CLAIMS OF ANY KIND WILL NOT EXCEED THE PURCHASE PRICE PAID TO ASC FOR THE PRODUCT IN QUESTION.

No representative, dealer, reseller, employee, installer or any other person is authorized to make, modify or change this limited warranty or make any other warranty, representation or promise on behalf of ASC with respect to the Product. No term or condition other than those stated in this limited warranty and no agreement or understanding, whether oral or written, in any way purporting to modify or change this limited warranty will be binding on ASC, unless made in writing and signed to the ASC.

Choice of law. This limited warranty and disputes arising hereunder to matters contemplated by this limited warranty shall be interpreted in accordance with the laws of the State of California.

This warranty applies to Products invoiced on or after September 7th 2010; For products invoiced prior to that date, the warranty in effect at that time the material is 90th 2011; invoiced shall apply

Design Span® hp

Design Span hp is a performance-rated structural standing seam, concealed fastener metal roof system with net coverage of 12", 16", 17" & 18".

Design Span *hp* is excellent as a roof over metal or wood decking, and as a fascia or mansard over plywood or supports.



— 12", 16", 17" & 18" Net Coverage (18" available in 22ga – additional charges and lead times apply)

Section Properties									
Width	Gauge	Base Steel Thickness (in)	Yield (ksi)	Tensile (ksi)	Wt. (lbs/ft²)	l+ (in⁴/ft)	S+ (in³/ft)	I- (in³/ft)	S- (in³/ft)
10"	24	0.0232	50	65	1.45	0.1185	0.0820	0.0762	0.0586
12	22	0.0294	50	65	1.83	0.1522	0.1080	0.0997	0.0771
16"	24	0.0232	50	65	1.34	0.0943	0.0624	0.0593	0.0440
10	22	0.0294	50	65	1.68	0.1213	0.0825	0.0773	0.0580
17"	24	0.0232	50	65	1.31	0.0901	0.0589	0.0562	0.0414
17	22	0.0294	50	65	1.65	0.1158	0.0779	0.0734	0.0546
10"	24	0.0232	50	65	1.30	0.0858	0.0557	0.0533	0.0391
18	22	0.0294	50	65	1.63	0.1104	0.0737	0.0696	0.0515

NOTE: The hybrid positive moment of inertia, I, presented for determining deflection is: $(2I_{Effective} + I_{Gross})/3$

standard features

- Offered in 12", 16", 17" & 18" widths (18" in 22ga available special order).
- Factory applied sealant is a standard offer.
- Custom manufactured sheet lengths from 5'-3" to 45'-0".
- Subtle striations between ribs on 16" and wider panels.
- Available in 24ga and 22ga in standard finishes Refer to AEP Span Color Charts for full range of color options, prints, textures, finishes and paint systems.
- Recommended minimum slope of 2:12. Inquire for slopes below 2:12.
- Tested in accordance with UL580-Class 90 & ASTM E1592.
- Has been tested for air infiltration per ASTM E1680, and water infiltration per ASTM E1646.
- Snap-together panel means no field seaming is required.
- Panel evaluated by accredited third party. All structural performance data is contained within an IBC/IRC 2015 code compliance report.



optional features

- Short cut sheets from 6'-0" to 1'-0". Additional fees and lead times may apply.
- Longer lengths available from 70'-0" (Tacoma, WA facility) to 100'-0" (Fontana, CA facility). Additional fees and lead times may apply.
- Additional wide batten cap option offers a clean bold look with the structural capacity and weather resistance of regular Design Span hp.
- Factory notching available for turn under at the eave.
- 18" width available. Additional fees and lead times may apply.



Customer Service Center Tacoma, WA

Phone: 800-733-4955

Fax: 253-272-0791

For most current versions of literature please visit www.aepspan.com



Design Span[®] hp



12" Design Span <i>hp</i>										
			Allow	Allowable Inward Loads (Ibs/ft²) per Span (ftin.)						
Gauge	Span	Cond.	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	
	Single	W/Ω	409	262	182	134	102	81	65	
	Span	L/180	-	-	-	-	-	-	-	
24	Double	W/Ω	285	184	128	94	72	57	46	
24	Span	L/180	-	-	-	-	-	-	-	
	Triple Span	W/Ω	353	228	160	118	90	71	58	
		L/180	-	-	-	-	-	-	-	
	Single Span	W/Ω	539	345	240	176	135	106	86	
		L/180	-	-	-	-	-	-	-	
22	Double	W/Ω	377	243	169	124	96	76	61	
22	Span	L/180	-	-	-	-	-	-	-	
	Triple	W/Ω	468	302	211	155	119	94	76	
	Span	L/180	-	-	-	-	-	-	-	

		Allowable Outward Loads (lbs/ft²) per Span (ftin.)								
Gauge	1'-0"	1'-6"	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	
24	82	76	71	67	63	59	56	52	48	
22	82	76	71	67	63	59	56	52	48	

	17" and 18" Design Span <i>hp</i>										
			Allow	Allowable Inward Loads (Ibs/ft²) per Span (ftin.)							
Gauge	Span	Cond.	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"		
	Single	f	275	178	124	91	70	55	44		
	Span	L/180	-	-	-	-	-	-	-		
24	Double Span	f	190	123	86	62	48	38	31		
24		L/180	-	-	-	-	-	-	-		
	Triple Span	f	236	152	107	78	60	47	38		
		L/180	-	-	-	-	-	-	-		
	Single	f	368	235	164	120	92	73	59		
	Span	L/180	-	-	-	-	-	-	-		
22	Double	f	218	163	113	83	64	50	40		
22	Span	L/180	-	-	-	-	-	-	-		
	Triple	f	247	198	141	103	79	63	51		
	Span	L/180	-	-	-	-	-	-	-		

		Allowable Outward Loads (lbs/ft²) per Span (ftin.)								
Gauge	1'-0"	1'-6"	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	
24	48	42	35	29	29	28	28	28	27	
22	67	59	51	43	43	42	42	41	41	

Oil Canning

All flat metal surfaces can display waviness commonly referred to as "oil canning". "Oil canning" is an inherent characteristic of steel products, not a defect, and therefore is not a cause for panel rejection.

			16" C	Design	Span <i>I</i>	пр				
			Allov	Allowable Inward Loads (Ibs/ft²) per Span (ftin.)						
Gauge	Span	Cond.	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	
	Single	W/Ω	309	199	138	102	78	62	50	
	Span	L/180	-	-	-	-	-	-	-	
24	Double	W/Ω	214	138	96	71	54	Span (f 4'-6" 62 - 43 - 533 - 811 - 577 - 700 -	34	
24	Span	L/180	-	-	-	-	-	-	-	
	Triple	W/Ω	265	171	119	88	67	53	43	
	Span	L/180	-	-	-	-	-	57 53 43 - - - 03 81 66	-	
	Single	W/Ω	412	263	183	134	103	r Span (f 4'-6" 62 - 43 - 53 - 53 - 81 - 57 57 - 70 70 -	66	
	Span	L/180	-	-	-	-	-	-	-	
22	Double	W/Ω	245	183	127	93	72	57	45	
22	Span	L/180	-	-	-	-	-	-	-	
	Triple	W/Ω	278	223	158	117	90	70	57	
	Span	L/180	-	-	-	-	-	-	-	

		Allowable Outward Loads (lbs/ft2) per Span (ftin.)							
Gauge	1'-0"	1'-6"	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"
24	49	42	36	30	29	29	29	28	28
22	74	66	58	49	49	48	47	47	46



NOTES:

- The information in these tables applies to uniform loads only.
- Upper values based on allowable panel strength.
- Bottom values based on allowable service load deflection of L/180.
- "-" denotes that capacities are limited by panel strength vs. deflection.
- Steel conforms to ASTM A792 (ZINCALUME[®]) 50,000 psi minimum yield.
- Values are based on AISI S100-07/S2-10.
- Maximum allowable outward load capacities are shown and dependent upon fastener-to-substrate capacities. Refer to IAPMO-UES report #ER-0309 for specific product capacities.

Specifications subject to change without notice.



For most current versions of literature please visit www.aepspan.com

Customer Service Center Tacoma, WA

Phone: 800-733-4955

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Design Span[®] hp Installation Guide

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Permit # _____

General Notes

The attached installation details are intended to be a design aid and do not depict all situations. Modifications are the responsibility of the designer/user and should take into account climate conditions such as wind and snow, governing code requirements, and the actual usage and maintenance of the structure.

Flashings:

Where possible, flashings should be lapped away from prevailing winds. Certain flashings should be supported if it is likely that equipment (ladder, etc.) will be used against them or if foot traffic is anticipated. Check with AEP Span any time you intend to specify a prefinished flashing in a gauge or finish different than the roof panels. It is good practice to specify that all flashings be of the same material (gauge, color, finish) as the roof panels to ensure long-term durability. Field-painted flashings rarely equal the durability and color fastness of factory baked-on paint systems. The enclosed details have minimized the use of exposed fasteners where possible. The edges of flashings have also been shown hemmed to strengthen and to minimize the exposure of cut edges.

Flashing design and fabrication is generally the responsibility of the contractor. For convenience, we have provided some flashing drawings on our website at <u>http://www.aepspan.com/roof/prodDetailad0</u> <u>8.html?id=35</u>. Applicable Design Span[®] hp flashing part numbers are referenced within this installation guide.

Substrates:

Design Span[®] hp roofing panels can be used over solid substrates or over spaced supports.

Slope Requirements:

Panels should be used on slopes of 2:12 or greater. Inquire for slopes below 2:12.

Panel Attachment:

Consult the Design Span[®] hp fastener attachment schedule or contact your AEP Span representative for proper clip spacing and fastener size, type, and quantities to meet the project's wind uplift (negative) load requirements. The details in this guide show two fasteners per clip. A minimum of two fasteners is always recommended although three fasteners may be required based on panel load requirements.

Condensation, Insulation, & Ventilation:

It is the designer's responsibility to determine the need and composition of condensation control materials including insulation and vapor retarders, as well as ventilation requirements. Metal roofing is susceptible to condensation and its control should be carefully considered. Applications over rigid insulation may require solid blocking/framing for installation of perimeter flashings and drag load fasteners.

Underlayments:

Prior to installation, an underlayment material may be installed over the roof substrate. The designer should select and specify an appropriate material. The specified material must have a non-abrasive top surface that will not mar, scratch, or abrade the underside of the metal panels and flashings.



"Pinning" Requirements:

The panels must only be "pinned" at one location only to resist the "drag" loads caused by the panel weight, live loads, and snow loads. The intensity of the drag load is a function of the slope, the loads involved, and the length of the panels. Panels must not be pinned at more than one location otherwise damages induced by thermal movement will occur. Appendix 'A' gives the drag loads for various slopes and snow loading conditions, and Appendix 'B' shows the number of fasteners required to resist the drag loads.

Thermal Movement:

Both panels and flashings must allow for thermal movement (expansion and contraction) of the materials, especially where long lengths are used. Appropriate gaps or provisions must be provided to accommodate thermal movement.

Snow Design:

If possible, valleys, gutters, roof elevation changes and penetrations should be minimized or eliminated in snow areas. Roof penetrations should be located as close to the ridge or peak of the roof as possible to minimize accumulations of ice and snow and the effects of thermal movement of the roof panels. Premium membrane underlayments should be used. Valleys in snow areas require special consideration due to the accumulation of snow and ice from tributary roof areas.

Valleys:

Valley dimensions must be the proper width to account for slope, snow, ice, and rain conditions. Valleys should receive a premium underlayment since they are susceptible to water buildup. Valleys must have positive slope for drainage and be kept free of debris so that water does not back up and intrude under the panels.

Oil Canning:

Flat metal surfaces often display waviness commonly referred to as 'oil canning'. This can be caused by variations in raw material, processing variations, product handling, or variations in the substrate and roofing underlayments. Oil canning is a characteristic, not a defect, of panels manufactured from light-gauge metal. Panels are available with striations and are factory "corrective leveled" to minimize oil canning. Oil canning is not a cause for panel rejection. Additional information is available upon request.

References:

The Sheet Metal and Air Conditioning Contractors' National Association Inc. (SMACNA) manual is an excellent reference for sheet metal contractors. It's guidelines for underlayments, gutter and downspout size requirements, and expansion/contraction of metals and flashing joints should be followed.

Technical Assistance:

Contact your AEP Span Sales Representative for additional information.





Reviewed for Code Compliance Signed ______ 10162024 Date ______ Permit # 20240130












































Slope	Ground Snow Load, P_g (psf)										
Stope	25	30	35	40	45	50	55	60	65		
2:12	5.0	5.9	7.0	8.0	9.0	9.9	10.9	12.0	12.9		
3:12	7.4	8.8	10.3	11.7	13.2	14.6	16.1	17.7	19.1		
4:12	9.6	11.5	13.4	15.2	17.2	19.1	21.1	23.0	24.9		
5:12	11.6	13.9	16.3	18.6	20.9	23.2	25.7	28.0	30.3		
6:12	13.6	16.2	19.0	21.7	24.3	27.1	29.8	32.4	35.2		
7:12	15.2	18.3	21.3	24.4	27.5	30.5	33.5	36.5	39.7		
8:12	16.8	20.1	23.5	26.9	30.3	33.5	36.9	40.3	43.7		
9:12	18.2	21.8	25.4	29.0	32.7	36.3	39.9	43.6	47.2		
10:12	19.4	23.2	27.1	31.0	34.8	38.7	42.6	46.5	50.3		
11:12	20.4	24.6	28.7	32.7	36.8	40.9	45.0	49.0	53.1		
12:12	21.4	25.7	29.9	34.2	38.5	42.8	47.1	51.3	55.7		

12" Design Span hp

16" Design Span hp

Clana	Ground Snow Load, Pg (psf)										
Slope	25	30	35	40	45	50	55	60	65		
2:12	6.7	8.0	9.3	10.6	12.0	13.3	14.6	16.0	17.2		
3:12	9.8	11.7	13.7	15.6	17.7	19.6	21.5	23.5	25.4		
4:12	12.7	15.2	17.9	20.4	23.0	25.5	28.1	30.6	33.2		
5:12	15.5	18.6	21.7	24.8	28.0	31.0	34.1	37.3	40.3		
6:12	18.0	21.7	25.3	28.9	32.4	36.1	39.7	43.3	46.9		
7:12	20.3	24.4	28.4	32.5	36.5	40.7	44.8	48.8	52.9		
8:12	22.4	26.9	31.3	35.8	40.3	44.8	49.2	53.7	58.2		
9:12	24.2	29.0	33.9	38.7	43.6	48.4	53.2	58.1	62.9		
10:12	25.8	31.0	36.2	41.3	46.5	51.7	56.7	62.0	67.2		
11:12	27.2	32.7	38.1	43.6	49.0	54.5	60.0	65.5	70.9		
12:12	28.6	34.2	39.9	45.6	51.3	57.0	62.8	68.5	74.2		

Notes:

- To determine drag load forces per panel, multiply the tabulated value by the panel length. Then refer to Appendix B fo fastener schedule.

- Values assume Ground Snow Load (P_g) is provided. Drag Loads may be reduced if actual Roof Snow Loads (F_s), per ASCE-7, are provided by customer.

- For roof slopes and snow loads greater than listed above, please contact your AEP Span representative.



Slope	Ground Snow Load, P_g (psf)										
Slope	25	30	35	40	45	50	55	60	65		
2:12	7.0	8.5	9.9	11.3	12.7	14.0	15.5	16.9	18.3		
3:12	10.4	12.5	14.5	16.6	18.8	20.8	22.9	24.9	27.0		
4:12	13.6	16.2	19.0	21.7	24.4	27.1	29.8	32.5	35.2		
5:12	16.5	19.7	23.1	26.4	29.6	32.9	36.3	39.6	42.8		
6:12	19.1	23.0	26.9	30.6	34.5	38.4	42.1	46.0	49.9		
7:12	21.5	25.9	30.3	34.6	38.8	43.2	47.6	51.8	56.1		
8:12	23.7	28.6	33.3	38.0	42.8	47.6	52.3	57.0	61.8		
9:12	25.8	30.9	36.1	41.1	46.3	51.4	56.6	61.7	66.9		
10:12	27.5	32.9	38.4	43.9	49.4	54.8	60.4	65.8	71.4		
11:12	28.9	34.7	40.5	46.3	52.2	58.0	63.8	69.5	75.3		
12:12	30.3	36.4	42.5	48.5	54.6	60.6	66.7	72.7	78.8		

17" Design Span hp

18" Design Span hp

Clana	Ground Snow Load, Pg (psf)										
Slope	25	30	35	40	45	50	55	60	65		
2:12	7.5	9.0	10.4	12.0	13.4	14.9	16.5	17.9	19.4		
3:12	11.0	13.2	15.4	17.7	19.8	22.0	24.2	26.4	28.6		
4:12	14.4	17.2	20.1	23.0	25.8	28.7	31.6	34.5	37.3		
5:12	17.4	20.9	24.4	28.0	31.5	34.8	38.4	41.9	45.4		
6:12	20.3	24.3	28.4	32.4	36.5	40.5	44.6	48.6	52.8		
7:12	22.9	27.5	32.1	36.5	41.1	45.7	50.3	54.8	59.4		
8:12	25.2	30.3	35.2	40.3	45.3	50.3	55.4	60.4	65.5		
9:12	27.2	32.7	38.1	43.6	49.0	54.5	59.9	65.3	70.8		
10:12	29.0	34.8	40.7	46.5	52.3	58.1	63.9	69.7	75.5		
11:12	30.6	36.8	43.0	49.0	55.2	61.3	67.4	73.6	79.7		
12:12	32.1	38.5	44.9	51.3	57.7	64.1	70.5	77.0	83.4		

Notes:

- To determine drag load forces per panel, multiply the tabulated value by the panel length. Then refer to Appendix B fo fastener schedule.

- Values assume Ground Snow Load (P_g) is provided. Drag Loads may be reduced if actual Roof Snow Loads (F_s), per ASCE-7, are provided by customer.

- For roof slopes and snow loads greater than listed above, please contact your AEP Span representative.



Fostonon Tyme	Substrate		city Number of Fasteners per Panel								
Fastener Type	Substrate	(lbs)	2	3	4	5	6	7	8	9	10
#12-14 x 1" SD HWH	16ga Steel min.	234	468	702	936	1170	1404	1638	1872	2106	2340
1/4-14 x 7/8" Lap SD HWH	22ga Steel min.	184	368	552	736	920	1104	1288	1472	1656	1840
#14 x 1" Type A Mill. Point HWH	1/2" Plywood min.	128	256	384	512	640	768	896	1024	1152	1280
#14 x 1" Type A Mill. Point HWH	2x Douglas Fir	57	114	171	228	285	342	399	456	513	570
#10-16 x 1" SD Pancake Head	16ga Steel min.	206	412	618	824	1030	1236	1442	1648	1854	2060
#10-16 x 1" SD Pancake Head	22ga Steel min.	154	308	462	616	770	924	1078	1232	1386	1540
#10-12 x 1" Type A Pancake Head	1/2" Plywood min.	108	216	324	432	540	648	756	864	972	1080
#10-12 x 1" Type A Pancake Head	2x Douglas Fir	54	108	162	216	270	324	378	432	486	540

Example:

16" Design Span hp attached to 1/2" plywood.4:12 slope

30psf snow load

40ft maximum panel length

#10-12 pancake head fasteners used

- a) From Appendix A, find the drag load per linear foot of panels: 4:12 & 30psf snow load = 15.2 lbs/lft
- b) Multiply the load by the panel length = 15.2lbs/lft X 40ft = 608lbs drag load per panel.

c) Find the drag load in Appendix B.

The nearest value is 648 lbs for Qty=6, #10-12 x 1" type A pancake head fasteners.

Notes:

- Contact your AEP Span representative if there are any questions regarding the use of these appendices.

- Fasteners must be located a minimum of 1" from each other and from the end of the panel.



POLYSTICK XFR



Reviewed for Code Compliance Signed ^{M for EM} Date ______ Permit II ²⁰²⁴⁰¹⁹⁰



POLYSTICK® XFR

FIRE RESISTANT SELF-ADHERED ROOF UNDERLAYMENT



Polystick XFR — Fire Resistant Self-Adhered Roof Underlayment

Polyglass Polystick XFR is a dual-purpose fire resistant and self-adhered waterproofing underlayment. Many fire rated underlayment products on the market today tout both waterproofing and fire resistance but fall short on one or the other. Polyglass combines two patented technologies to achieve the highest levels of performance in both categories. Utilizing ADESO® dual-compound self-adhered technology, Polystick XFR features a 80 mils combined elastomeric modified bitumen upper compound and an aggressive self-adhesive compound on the bottom to provide proven waterproofing protection; while Polyglass' patent pending Burn-Shield Technology® offers fire resistance capable of achieving the highest level of fire ratings.

The result is a product which helps in achieving superior waterproofing and UL Class A fire protection in a single layer*, instead of the typical solution requiring multiple layers to achieve the same result. This translates to labor and material cost savings which ultimately benefits the building owner and contractor. The building occupants can enjoy the peace of mind knowing that Polystick XFR is providing safety and protection of their possessions.

Features & Benefits 🔬

- Superior protection against fire spread/penetration and ember resistance in systems tested under UL 790
- Helps achieve UL Class A for Combustible Decks using a single layer*
- Robust 80 mils (2 mm) of waterproofing rubberized asphalt
- Self-Adhered with split release film for ease of application
- Fiberglass reinforced for added strength and dimensional stability
- Skid-resistant top surface with max 180 days exposure
- Dedicated side lap for consistently strong seams
- Approved for applications up to 265°F
- Up to 30 year warranty (Reference Polyglass Warranties Terms & Conditions)

Applicable Standards

- ASTM D1970
- UL Classified
- ICC ESR-1697
- Florida Building Code
- Miami-Dade County Approved
- Texas Department of Insurance
- Listed by California State Fire Marshall





"Fire has met its nerech!"





A Polystick XFR underlayment provides added fire protection to a building when installed under asphalt shingles, clay/concrete tiles or metal roofing.

Underwriters Laboratories (UL) is the most widely respected testing agency for fire ratings and the "Class A" designation is the highest achievable classification, meaning that a roofing assembly has passed spread of flame, intermittent flame and burning brand tests. Class A fire ratings are required in many municipalities across the country by code. Even if the code authorities do not require Class A, specifiers and building owners may want a Class A roof system for their building to provide safety and protect their possessions.

A **clay or concrete tile** is a Class A roof covering by itself but Polystick XFR may still be desirable to increase ember resistance as a component of a Class A system under UL 790.

If you use Class A **asphalt glass fiber mat shingles** for your roof covering then you will automatically get a Class A rating for your system if you utilize Polystick XFR as an underlayment.

Metal has many great qualities as a roof covering but for all intents and purposes it is not fire resistant. Why? Because metal transmits heat from an exterior fire source to the combustible roof deck very efficiently and therefore a fire resistant sheet is needed to help it achieve a UL Class A fire rating. By simply installing Polystick XFR under a UL Listed **aluminum, steel or copper covering,** the roof system achieves Class A.* I-Ply UL Class A System: Direct to Plywood deck application of self-adhered Polystick XFR under Standing Seam metal

1-Ply + Anchor Sheet UL Class A System: Polystick XFR self-adhered to ASTM D226 (II) 30# Felt anchor sheet onto Plywood under Standing Seam metal

1-Ply + Insulation UL Class A System: Polystick XFR self-adhered to Polytherm (polyiso insulation) onto Plywood under Standing Seam metal

Polystick XFR Fire-Resistant Underlayment under Metal - UL Class A Rating Layer Requirements*								
Deck	Anchor Sheet (optional)	Insulation (optional)	Second Ply (optional)	Underlayment	Roof Covering			
Plywood (15/32"), spaced sheathing or 7/16" OSB	ASTM D226 (II) 30# Felt	Polytherm Polyiso	Polystick XFR	Polystick XFR	UL Listed copper panels or steel standing seam panels, stone coated shingles, 26 gauge minimum			
Deck	Anchor Sheet (optional)	Insulation (optional)	Second Ply (required)	Underlayment	Roof Covering Reviewed for Code Complian			
Plywood (15/32"), spaced sheathing or 7/16" OSB	ASTM D226 (II) 30# Felt	Polytherm Polyiso	Polystick XFR	Polystick XFR	UL Listed aluminu panels, 0.032" min.			



* Unlimited Slope. Refer to published UL product listings (TGFU.R25992) for specific fire rated assemblies.

Material and Labor Cost Savings

Polystick XFR provides superior water and fire protection in a single layer, instead of the typical solution requiring multiple layers to achieve the same result. This translates to labor and material cost savings which ultimately benefits the building owner and contractor. Here is an example of how Polystick XFR stacks up against a competitor's solution to achieve a UL Class A assembly under metal roofing.*

Polyglass XFR Typical 1-ply System Competitors Traditional 3-Ply Solution Image: Competitor Traditi

Warranty 🔬

Polystick XFR comes with a standard 10 Year Limited Material Warranty or a 10 year Polystick Labor & Material Warranty, when installed by a Polyglass Registered Contractor.

Polyglass also offers an enhanced 30 year 2-Ply Polystick Labor & Material Warranty, when two plies of Polystick XFR are used and installed by a Polyglass Registered Contractor.



All information printed is accurate at the time of publication and may change at any time with or without notice. For the most up to date information and data, please visit our website at polyglass.us.

H-SHIELD







H-SHIELD NB

INSTALLATION AND DESIGN CRITERIA GUERE





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H-SHIELD NB

Flat Polyisocyanurate Insulation Manufactured On-Line to Oriented Strand Board

H-Shield NB is a rigid roof insulation composite panel composed of a closed cell polyisocyanurate foam core manufactured on-line to a fiber reinforced facer on one side and 7/16" on the other. H-Shield NB can also be manufactured off-line bonded to 5%" OSB, 5%" plywood, or 3%" plywood.

APPLICATIONS

- Heavyweight Shingles
- Standing Seam Metal Roof Systems
- Tile
- Slate
- Single-Ply Roof Systems Ballasted, Mechanically Attached, Fully Adhered. (For high wind speed warranty – see individual Single-Ply manufacturer approvals and listings)
- Suitable for new construction and re-roofing on both commercial and residential projects

PANEL CHARACTERISTICS

- Manufactured with NexGen Chemistry: Contains no CFCs, HFCs, HCFCs, is Zero ODP, EPA Compliant, and has virtually no GWP
- A superior combination of high insulating properties and a nailable surface
- Incorporates APA-TECO Rated Exposure 1 OSB and Plywood
- The edges of the wood panels are rabbeted to allow for expansion and contraction of the wood. The foam edges shall be installed tightly to achieve thermal integrity across the entire roof deck. Available as a nonrabbeted panel upon special request.
- Available in ASTM C1289 Type V, Grade 2 (20 psi)
- Available foam size is 47.5"x95.5" when manufactured on-line in thicknesses of 1.5" (38mm) to 4.0" (102mm)
- Available in foam size is 48"x96" when manufactured off-line in thicknesses of 1.5" (38mm) to 4.0" (102mm)
- Multiple Substrate Types Available: OSB: 7/16" or 5/8" Plywood: 5/8" or 3/4" CDX or Fire-Treated

POTENTIAL LEED CREDITS FOR POLYISO USE

Energy and Atmosphere

• Optimize Energy Performance

Materials & Resources

- Building Life-Cycle Impact Reduction
- Environment Product Declaration
- Material Reuse
- Recycled Content
- Construction and Demolition Waste Management

Indoor Environmental Quality

Thermal Comfort

H-SHIELD NB THERMAL VALUES

Long Term Thermal Resistance Values are based on ASTM C 1289

Thickness ⁺			Eluto Cranability
(inches)	(mm)		Finite Spanability
1.50	38	6.3	4 ³ /8"
2.00	51	9.2	4 ³ /8"
2.50	64	12.0	4 3/8"
3.00	76	15.0	4 ³ /8"
3.50	89	18.0	4 ³ /8"
4.00	102	21.1	4 ³ /8"

†Thickness is calculated with 7/16" OSB.

H-Shield NB is manufactured in the sizes listed above with additional sizes on our packaging and weights chart. R-values other than those listed can be achieved by installing a multi layer system consisting of an additional layer of flat polyiso under H-Shield NB.

CODES AND COMPLIANCES

- ASTM C 1289 Type V, Grade 2 (20 psi)
- International Building Code (IBC) Chapter 26
- State of Florida Product Approval Number FL 5968
- California Code of Regulations, Title 24, Insulation Quality Standard License #TI-1420
- Miami Dade County Product Control Approved
- Hail Rating: SH-1, VSH

UNDERWRITERS LABORATORIES INC CLASSIFICATIONS

- UL 1256
- Insulated Steel Deck Construction Assemblies No. 12
- UL 790
- UL 263 Hourly Rated P Series Roof Assemblies



APPROVED

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UL CLASSIFIED FOR USE IN CANADA

Refer to UL Directory of Products Certified for Canada for details

FACTORY MUTUAL APPROVALS

- FM 4450, FM 4470
- Approved for Class 1 insulated steel deck constructions. Refer to FM Approval's RoofNav for details on specific systems

TYPICAL PHYSICAL PROPERTY DATA

Polyiso Foam Core Only

Physical Property	Test Method	Value
Compressive Strength	ASTM D 1621	20 psi (138kPa, Grade 2)
Dimensional Stability	ASTM D 2126	2% linear change (7 days)
Moisture Vapor Transmission	ASTM E 96	< 1 perm (57.5ng/(Pa•s•m²))
Water Absorption	ASTM C 209	<1% volume
Flame Spread*	ASTM E 84	< 75
Smoke Developed*	ASTM E 84	< 450
Service Temperature		-100° to 250°F (-73°C to 122°C)

*Meets the requirements of the IBC code. For specific Flame Spread or Smoke Developed Ratings please contact the Hunter Panels Technical Department

WARNINGS AND LIMITATIONS

Insulation must be protected from open flame and kept dry at all times. Store above ground on pallets and cover with breathable tarpaulins. Install only as much Polyiso as can be covered the same day with the completed roofing system. Do not leave exposed. Hunter Panels will not be responsible for specific designs by others, for deficiencies in construction or workmanship, for dangerous conditions on the job site, or for improper storage and handling.

INSTALLATION - SINGLE-PLY SYSTEMS

Shingles, Tiles, Slate, Metal and Membrane Roofing

H-Shield NB is installed wood side up over steel, plywood, or structural roof decks. Hunter SIP NB Panel Fasteners are required to secure the H-Shield NB to the steel or plywood deck. Wood blocking, if necessary, should be equal in thickness to the H-Shield NB and should be installed along the eaves and rake edges of the roof. The roofing system is then installed according to the manufacturer's recommendations. H-Shield NB may be adhered to a 1/2" per ft. max slope properly prepared cementitious deck (with a full mopping of Type III or Type IV asphalt or a low rise adhesive) only when manufactured online. *All H-Shield NB manufactured off-line must be mechanically attached.*

The Use of Synthetic Underlayments

The use of synthetic underlayments is becoming an industry norm (for steep slope applications). Hunter Panels strongly suggests the use of a synthetic underlayment under asphalt shingles unless otherwise specified by the shingle manufacturer. Synthetic underlayments provide excellent water resistance and absorb no moisture.

Vapor Retarders

In building construction, vapor retarders are used to inhibit or block the passage of moisture into roofing assemblies. Vapor barriers also serve as air barriers to limit the movement of moisture-laden air from the interior to the exterior. This is especially important during the construction phase where excessive moisture drive is present. To determine whether a vapor retarder is necessary, we recommend that calculations on the building's interior relative humidity, interior temperature conditions, and outside temperature fluctuations during the various seasons be performed prior to the completion of the design. Excessive moisture migration can cause unwanted condensation that will potentially damage the system or infiltrate the occupied space. Hunter Panels strongly suggests the use of a vapor retarder with a perm value of 0.5 or less on all projects except in extreme cooling conditions. Consult a licensed design professional, architect or engineer to establish whether or not a vapor retarder is necessary and to specify its type and location within the assembly. This criteria varies with geographical location and is therefore specific to each project.

Fastening Guidelines

Hunter Panels requires the use of the Hunter Panels SIP SD Panel Fastener for steel deck applications, the SIP WD for plywood deck applications, and SIP HD for heavy duty steel decks. Additional information on fasteners and fastening patterns are available on our website at www.hunterpanels.com.

Review manufacturer's specifications and details for complete installation information.



LOW SLOPE FM 1-90 FASTENING PATTERNS FOR H-SHIELD NB

Less than ¹/₂:12

ROOF TYPES

- Single Ply Membranes
- Standing Seam Metal

DECK TYPES FOR 16 FASTENER LAYOUT

- Wood (over 16" or 32" OC framing)
- Steel
- Concrete

DECK TYPES FOR 15 FASTENER LAYOUT

- Wood (over 24" OC framing)



NOTES

- H-Shield NB must be fastened into a structural roof deck. H-Shield NB is not a structural panel and should not be installed directly to framing.
- Fasteners must be FM approved.
- For slate and tile roofs, contact manufacturer for recommendations.
- The fastening patterns below meet FM 1-60 and 90 requirements in low slope applications where applicable.
- For UL-90 rated assemblies under select metal roof systems, please contact the Standing Seam Metal manufacturer for approved fasteners.
- Additional fastening options at RoofNav.com


STEEP SLOPE FASTENING PATTERNS FOR H-SHIELD NB

3:12 to 12:12

ROOF TYPES

- Shingles
- Slate
- Tile
- Standing Seam Metal

DECK TYPES

- Wood
- Steel

NOTES

- H-Shield NB must be fastened into a structural roof deck. H-Shield NB is not a structural panel and should not be installed directly to framing.
- For slate and tile roofs, contact manufacturer for recommendations.
- For UL-90 rated assemblies under select metal roof systems, please contact the Standing Seam Metal manufacturer for approved fastener, plate and fastening pattern.
- For a complete fastening guide please contact Hunter Panels or refer to DrJ TER 2101-01.
- For fastening pattern images, please contact Hunter Panels or refer to the H-Shield NB Steep Slope Fastening Pattern Guide on our website.





WOOD DECKS

Fastener Information - SIP WD

The Hunter Panels SIP WD Fastener is intended to mechanically attach Cool-Vent and H-Shield NB to plywood substrates. The Hunter Panels SIP WD Fastener has the following features:

- FM approved-plates not required
- Pull-out values for plywood
- Star/spider head eliminates need for washer and offers dramatically increased pull-out value
- Multiple bits included in each pail
- 100% American made
- Fast, one-step installation
- No pre-drilling

Test Description	Typical Value
Pull-through (lbs)	630
Pull-out (lbs):	
¹ /2" plywood	442
⁵ /8" plywood	459
³ /4" plywood	710
Douglas Fir (1" pen.)	768

Fasteners should never be struck with a hammer during installation.

PHYSICAL DATA CHART

Head Diameter	.625"
Thread Diameter	.240"
Shank Diameter	.190"
Fastener Length	3.5", 4", 4.5", 5", 5.5", 6", 6.5", 7", 7.5", 8", 9", 10", 11", 12", 13", 14"

* 1" Penetration into solid sawn T&G

* 3/4" penetration beyond underside of board when fastening into OSB and plywood decks.



H-SHIELD NB





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STEEL DECKS

Fastener Information - SIP SD

The Hunter Panels SIP SD Fastener is intended to mechanically attach Cool-Vent and H-Shield NB to 18 – 22 gauge corrugated steel decking. The Hunter Panels SIP SD Fastener has the following features:

- FM approved-plates not required
- Pull-out values for steel
- Star/spider head eliminates need for washer and offers dramatically increased pull-out value
- Multiple bits included in each pail
- 100% American made
- Fast, one-step installation
- No pre-drilling when used on a steel deck

Test Description	Typical Value
Pull-through (lbs)	630
Pull-out (lbs):	
22 gauge metal	510
18 gauge metal	920

Fasteners should never be struck with a hammer during installation.

PHYSICAL DATA CHART

Head Diameter	.625"
Thread Diameter	.240"
Shank Diameter	.190"
Fastener Length	3.5", 4", 4.5", 5", 5.5", 6", 6.5", 7", 7.5", 8", 9", 10", 11", 12", 13"

Minimum ³/₄" penetration through steel decking.



ISO

BOARD

FLUTE

STEEL



Signed ______ 10/16/2024 Date _____

HEAVY DUTY STEEL DECKS

Fastener Information - SIP HD

Hunter Panels SIP HD Fastener is intended to mechanically attach Cool-Vent or Hunter NB to 16 gauge or greater corrugated steel decking. Hunter Panels SIP HD Fastener has the following features:

- FM approved-plates not required
- Pull-out values for steel
- Star/spider head eliminates need for washer and offers dramatically increased pull-out value
- Multiple bits included in each pail
- 100% American made
- Fast, one-step installation
- SIP/HD is for 16 gauge or thicker steel deck
- No pre-drilling

Typical Value
630
770

Fasteners should never be struck with a hammer during installation.

PHYSICAL DATA CHART

Head Diameter	.625"
Thread Diameter	3.875"
Shank Diameter	.212"
Fastener Length	4.5", 6.0", 8.0"

Minimum ³/₄" penetration through steel decking.



H-SHIELD NB



COOL-VENT



SUGGESTED LAYOUT FOR MULTI-LAYER SYSTEM

H-Shield NB over flat polyiso

NOTES

 Recommend a minimum of 6" stagger on all sides of the base layer and subsequent layers of polyiso being installed in a multi-layer system.





RABBETED EDGE DETAIL

NOTES

Rabbeted Edge Definition

• The wood substrate on H-Shield NB is rabbeted (routed) back on all four sides to allow for expansion of the wood substrate.





GETTING STARTED

NOTES

• Stagger rows by following H-Shield NB layout above. When H-Shield NB is cut into two equal halves, no waste occurs.









EAVE AND RAKE EDGE BLOCKING DETAIL

NOTES

Eave Edge

• Pressure treated blocking to the panel thickness of H-Shield NB shall be installed along the eave & rake edges.





12

HIP AND VALLEY CUTTING

NOTES

• For valleys and hips, cut a piece of H-Shield NB in half, snap a chalk line from SE to NW corner and cut end to end.



HIP AND VALLEY DETAIL





EAVE DETAIL 1 (TYP)

Steel Deck

NOTES

• Fasten H-Shield NB panels into top flutes of steel deck



EAVE DETAIL 1 (TYP)

Steel Deck

NOTES

Fasten H-Shield NB panels into top flutes of steel deck





Code Compliance
Signed _____
10/16/2024
Date _____
Permit # 20240130

EAVE DETAIL 2 (TYP)

Wood Deck





EAVE DETAIL 2 (TYP)

Wood Deck





Reviewed for Code Compliance Signed ______ 10/16/2024 Date ______ 20/240100

ROOF / WALL DETAIL



2" X 10" BLOCKING



ROOF / WALL DETAIL



DESIGN CRITERIA GUIDE

- 1. CONSTRUCTION GENERATED MOISTURE
- 2. VAPOR DIFFUSION RETARDERS
- 3. MULTI-LAYERED ROOF INSULATION
- **4. FASTENER REQUIREMENTS**
- 5. USE OF SYNTHETIC UNDERLAYMENTS
- 6. SHINGLE CONSIDERATION



1. CONSTRUCTION GENERATED MOISTURE

Buildings under construction are susceptible to water and or moisture intrusion from the unfinished portions of the roof or adjacent components of the building. Some of the most common sources of moisture drive are:

- Pouring of a concrete floor or other masonry work in an enclosed building
- The use of heaters or "salamanders" to provide more comfortable conditions or help cure the freshly poured concrete.
- The use of oil burning heaters
- The use of paint, plaster and other water based construction materials

Effects of moisture generated during construction on the roofing system can cause the following conditions:

- Water accumulation in the steel deck flutes causing corrosion and possible intrusion into the building
- Condensed moisture can promote microorganism growth
- Moisture drawn into the roof system may have a deleterious effect on the physical properties of the roof insulation (i.e.dimensional stability, thermal properties)

Adherence to good construction practices can minimize some or all of the above-mentioned conditions. Adequate ventilation should be provided at all times for enclosed construction to limit moisture drive through the underside of the roof deck. The use of multilayered roof insulation assemblies will enhance thermal performance as well as restrict the transport of moisture into the roof system. During roof construction, the completed roof section should be tied off each day to protect the new roof from water entry.

2. VAPOR DIFFUSION RETARDERS

In building construction, vapor retarders are used to inhibit or block the passage of moisture into roofing assemblies. Vapor barriers also serve as air barriers to limit the movement of moisture-laden air from the interior to the exterior. This is especially important during the construction phase where excessive moisture drive is present. To determine whether a vapor retarder is necessary, we recommend that calculations on the building's interior relative humidity, interior temperature conditions and outside temperature fluctuations during the various seasons be performed prior to the completion of the design. Excessive moisture migration can cause unwanted condensation that will potentially damage the system or infiltrate the occupied space.

Hunter Panels strongly suggests the use of a vapor retarder with a perm value of 0.5 or less on all projects except in extreme cooling conditions. Consult a licensed design professional, architect or engine establish whether or not a vapor retarder is necessary and to specify the end location within the assembly. This criteria varies with geographical location and is therefore specific to each project.

WARNINGS AND LIMITATIONS

Insulation must be protected from open flame and kept dry at all times. Store above ground on pallets and cover with breathable tarpaulins. Install only as much Polyiso as can be covered the same day with the completed roofing system. Do not leave exposed. Hunter Panels will not be responsible for specific designs by others, for deficiencies in construction or workmanship, for dangerous conditions on the job site, or for improper storage and handling.

WARRANTY

Hunter Panels will not be responsible for leakage, damage or failure of any kind caused by improper application or design, structural movement, accident or natural hazard, defective membrane or improper maintenance.

Hunter Panels warrants that its polyisocyanurate foam will conform to its published physical properties, federal specifications and ASTM standards. Hunter Panels does not warrant the performance or physical properties of the wood substrate incorporated into the H-Shield NB assembly.

Hunter Panels will not be liable for incidental or consequential damages to the structure, its contents or occupancy.

Hunter Panels makes no warranties or guarantees of any kind expressed or implied, including but not limited to implied warranties of merchantability and fitness for a particular purpose except as stated herein.







3. MULTI-LAYERED ROOF INSULATION

Multi-layering of polyiso in any roof application installed with staggered joints offers a number of advantages and is considered good roofing practice because doing so:

- Minimizes thermal loss at the joints of the insulation, prevents thermal bridging
- Prevents moisture from inside of the structure from condensing on the underside of the finished roof system

4. FASTENER REQUIREMENTS

To ensure optimal performance, Hunter Panels requires the use of the Hunter SIP SD or Hunter SIP HD for steel deck applications, and the Hunter SIP WD for plywood deck applications.

5. USE OF SYNTHETIC UNDERLAYMENTS

The use of synthetic underlayments is becoming the industry norm for steep slope roofing assemblies. Hunter Panels **strongly suggests** the use of a synthetic underlayment under asphalt shingles unless the shingle manufacturer has specifically eliminated it. Synthetic underlayments offer several key advantages over traditional asphalt felt:

- Larger rolls with fewer laps and less nailing
- Lighter weight for easier handling and quicker installation
- May be left exposed for longer periods of time without organic deterioration
- Synthetic reinforced polypropylene wicks the moisture and provides excellent water resistance
- Some manufacturers of synthetic underlayment offer products with prolonged exposure to UV rays, greater fire resistance, tear strength and puncture resistance

Hunter Panels does not recommend the use of 15# and 30# roofing felt as an underlayment to asphalt shingles on our H-Shield NB product. Use of these felt products will void any and all claims regarding a H-Shield NB assembly. Hunter Panels cannot be responsible for claims arising out of aesthetic anomalies caused by roofing felts in the assembly.

6. SHINGLE CONSIDERATION

The roof covering is one of the most important considerations of any low slope or steep slope application. In most steep slope roofing projects, however, the visual appeal or aesthetic look plays almost as large a role as the true performance and physical properties of the shingle. Please confirm that your shingle manufacturer does not require a ventilated roof system. If a vented system is required, Cool-Vent panels can be substituted.

Please go to www.hunterpanels.com for the latest product literature, specifications and other documents relating to this product.



AHU-1



Reviewed for Code Compliance Signed ^{M for EM} Date ______ Permit II ²⁰²⁴⁰¹⁹⁰



Split System Rating

2425 South Yukon Ave - Tulsa, Oklahoma 74107-2728 - Ph. (918) 583-2266 Fax (918) 583-6094 AAONEcat32 Ver. 4.332 (SN: 5727216-RJB4D76S)

H 3 – DRB – 8 – 0 – 1 4 2 D – 0 0 0 : F 4 2 E – C C 0 – L F E – 0 H 0 – A 0 A 0 A V 0 – 0 0 – 0 0 0 0 0 E D 0 0 Air Handling Unit Tag: AHU-1

Condensing Unit Tag: CU-1

Job Information				Unit Information			
Job Name: Job Number: Site Altitude: Refrigerant	Capitola Comr Job #20210407 0 ft R-410A	nunity Center 762		Approx. Weights AHI Supply CFM/ESP: Outside CFM: Ambient Temperature: Return Temperature:	U/CU: re: :	800 / 1068 I 4400 / 0.45 1000 87 °F DB / (75 °F DB / (bs. (±5%) in. wg. 53 °F WB 52 °F WB
Static Pressure							
External: Coil: Filters Clean: Dirt Allowance	0.45 in. wg. 0.44 in. wg. 0.42 in. wg. 0.15 in. wg.			Economizer: Heating: Cabinet: Total:		0.00 in. wg. 0.00 in. wg. 0.00 in. wg. 1.45 in. wg	
Cooling Section				Heating Section			
Total Capacity: Sensible Capacity: Latent Capacity: Mixed Air Temp: Entering Air Temp: Lv Air Temp (Coil): Lv Air Temp (Unit) Evap Suction Temp: Supply Air Fan: SA Fan RPM / Width:	Gross 119.49 113.75 5.74 MBH 77.73 °F DB 53.43 °F DB 54.46 °F DB 44.33 °F 2 x RN185D70 1534 / 2.898"	Net 114.45 108.71 62.23 62.23 52.42 52.85 9 @ 0.90 BHP E	MBH MBH F WB F WB F WB F WB	Primary Heat Type: Total Capacity: OA Temp: RA Temp: Entering Air Temp: Leaving Air Temp: Auxiliary Heating Ty	′pe*:	Heat Pump 95.4 MBH 34.0 DB / 3 68.0 °F DB 68.0 DB / 5 88.1 DB / 6 No Heat	3.0°F WB / 58.0 °F WB 8.0 °F WB 5.1°F WB
DX Coil: DX Face Velocity:	10.3 ft² / 4 Row 428.1 fpm	vs / 14 FPI					
Rating Information							
Application EER @ Op. Conditio Application COP @ Op. Conditio	ns: ns:	11.0 2.79	Conde	ensing Unit EER @ Op	o. Conditi	ons:	13.5
AH Electrical Data							
Rating: Unit FLA:	208/3/60 9			Minimum Circuit Am Maximum Overcurre	np: nt:	10 15	
CU-Electrical Data Rating: Unit FLA:	208/3/60			Minimum Circuit Am	מו:	44	
	57			Maximum Overcurre	nt:	60	
Compressor 1: Compressor 2: Condenser Fans: Supply Fan:	Dty H 1 2 0. 2 2.	IP V 33 00 2	AC Pł 208 208 208 208	Maximum Overcurre	2.8 4.5	60 RL 16 16	_A).9).9
Compressor 1: Compressor 2: Condenser Fans: Supply Fan: *Motor heat is not included.	Dty H 1 2 0. 2 2.	IP V 33 00 2	AC Pł 208 208 208 208 208	Maximum Overcurre ase RPM 3 1 1075 3 1760	2.8 4.5	60 RL 16 16	_A 5.9 5.9
Compressor 1: Compressor 2: Condenser Fans: Supply Fan: *Motor heat is not included. Condensing Unit Connection S	Dity H 1 2 0. 2 2. Sizes	IP V 33 00 2	AC Pł 208 208 208 208	Maximum Overcurre	2.8 4.5	60 RL 16 16	.A 5.9 5.9
Compressor 1: Compressor 2: Condenser Fans: Supply Fan: *Motor heat is not included. Condensing Unit Connection S System 1 2	Dity H 1 1 2 0. 2 2. Sizes Suction Line 0.88" 0.88"	IP V 33 00 2	AC Pł 208 208 208 208 Liquid Line 0.5"	Maximum Overcurre	2.8 4.5	60 RL 16 16	A 5.9 5.9



Heat Pump Unit Rating

2425 South Yukon Ave - Tulsa, Oklahoma 74107-2728 - Ph. (918) 583-2266 Fax (918) 583-6094 AAONEcat32 Ver. 4.332 (SN: 5727216-RJB4D76S)

 ⁴^m²²

 ⁸^m²

 ⁸^m²²

 ⁸^m²

Air Handling Unit Tag: AHU-1

CFA-011-B-A-8-DJ0EL:0-00-00-00-AN0-L-DE00-00A0A00-0A000DB Condensing Unit Tag: CU-1

 Job Information

 Job Name:
 Capitola Community Center
 Job Number:
 Job #2021040762

 OA CFM:
 1000
 SA CFM:
 4400

 Performance Data Table

Outsi	Outside Air		Mixed Air		ng Air	Heat Pump Capacity	Heat Pump Integrated Capacity	Heating COP	
DB ºF	WB °F	DB ºF	WB ºF	DB ºF	WB °F	MBH	MBH		
62.0	56.2	66.6	57.6	95.2	67.5	136.5	136.5	4.84	
57.0	51.6	65.5	56.6	91.6	65.9	125.2	125.2	4.65	
52.0	47.1	64.4	55.7	88.4	64.4	115.4	115.4	4.46	
47.0	42.6	63.2	54.9	85.4	63.1	106.5	106.5	4.27	
42.0	38.0	62.1	54.1	82.5	61.8	98.5	98.5	4.09	
37.0	33.5	61.0	53.3	77.2	59.7	91.4	78.5	3.39	
32.0	28.8	59.8	52.6	75.2	58.7	85.1	74.4	3.31	
27.0	24.3	58.7	51.9	73.2	57.7	79.3	70.3	3.22	
22.0	19.7	57.6	51.2	71.2	56.8	73.8	66.3	3.13	
17.0	15.0	56.4	50.5	*	*	*	*	*	
12.0	10.4	55.3	49.9	*	*	*	*	*	
7.0	5.7	54.1	49.3	*	*	*	*	*	
2.0	0.1	53.0	48.6	*	*	*	*	*	

*Invalid operating point - Compressor operating outside of operating envelope.



Line Sizing Information

2425 South Yukon Ave - Tulsa, Oklahoma 74107-2728 - Ph. (918) 583-2266 Fax (918) 583-6094 AAONEcat32 Ver. 4.332 (SN: 5727216-RJB4D76S)



H 3 - DRB - 8 - 0 - 1 4 2 D - 0 0 0 : F 4 2 E - C C 0 - L F E - 0 H 0 - A 0 A 0 A V 0 - 0 0 - 0 0 0 0 0 E D 0 0 Air Handling Unit Tag: AHU-1

CFA-011-B-A-8-DJ0EL:0-00-00-AN0-L-DE00-00A0A00-0A000DB Condensing Unit Tag: CU-1

		Job Info	ormation		
Job Name:	Capitola Comr	nunity Center	Job Number:	Job #202104	40762
		Suction L	_ine Data		
Elbow Qty:	4		Line Length: Flow Direction of Suct	30' ion Line: Down	
Pipe OD "	Equiv. Length	Temp. Loss (°F)	Velocity (fpm)	Min Tons For Oil Return	Qty. of Req. Traps
		Liquid L	ine Data		
Elbow Qty:	4		Line Length: Vertical Lift:	30' 10'	
Pipe OD	Equiv. Length	Temp. Loss (°F)	Velocity (fpm)	Min Subcooling For Vertical Lift	



Refrigeration Accessories

2425 South Yukon Ave - Tulsa, Oklahoma 74107-2728 - Ph. (918) 583-2266 Fax (918) 583-6094 AAONEcat32 Ver. 4.332 (SN: 5727216-RJB4D76S)



 ⁴^m²²

 ⁸^m²

 ⁸^m²²

 ⁸^m²

Air Handling Unit Tag: AHU-1

CFA-011-B-A-8-DJ0EL:0-00-00-00-AN0-L-DE00-00A0A00-0A000DB Condensing Unit Tag: CU-1

		Job Information		
Job Name:	Capitola Community Center	Job Number:		

Job #2021040762

Factory Supplied / Factory Installed

Quantity	Description	Part #:	Location

Factory Supplied / Field Installed

Quantity	Description	Part #:	Location
-	N/A	-	-

Field Supplied / Field Installed

Quantity	Description	Part #:	Location
-	P-Trap(s)		AHU





Circuit #: 1^{Permit # 20240190}



Circuit #: 2 Permit #_20240199



18.5" STAR Plenum

2,700

2200

18.5 in. x 2

7,430 FPM

7,430 FPM

2 x 2 / No

208/3/60

Premium / 0.907

(Re 10^-12 watts)

6

75

75

7

72

72

8

66

66

143TC

1760

ODP

5

76

76

FAN SOUND POWER x 2 Fans (In/Out):

4

83

83

3

86

86

SOUND POWER A-Weighted: 86 / 86 dB

27 WR²

2425 South Yukon Ave - Tulsa, Oklahoma 74107-2728 - Ph. (918) 583-2266 Fax (918) 583-6094 AAONEcat32 Ver. 4.332 (SN: 5727216-RJB4D76S)

WHEEL SPECIFICATION:

MOTOR SELECTION: Rated HP / Bypass:

Max RPM:

Tip Speed:

Frame Size:

Nominal RPM:

Enclosure Type:

Octave Band:

1

85

85

Max Inertial Load:

2

83

83

VAC/PH/HZ:

Efficiency

Inertia:

CFM:

Diameter x Qty:

JOB INFORMATION:

Job Name:	Capitola Community Center
Job Tag:	AHU-1
Rep Firm:	
Date:	04/23/2023
	04/23/2023

OPERATING CONDITIONS:

Air Flow:	4,400 CFM
Static Pressure:	1.45 in. Wg.
Plenum DP:	0.00 in. Wg.
Inlet Grill DP:	0.00 in. Wg.
TSP:	1.45 in. Wg.
Site Altitude:	0.00 Ft
TSP @ Sea Level:	1.45 in. Wg.
Inlet Grill DP: TSP: Site Altitude: TSP @ Sea Level:	0.00 in. Wg 1.45 in. Wg 0.00 Ft 1.45 in. Wg

FAN PERFORMANCE:

RPM:	1534
BHP:	0.90
Efficiency:	55.9%
In/Out Velocity:	/ FPM
Plenum Out Velocity:	50 FPN

Max Duct SP with Blocked Airway:

2.5 in. Wg. @ 1534 rpm





Unit Submittal

203 Gum Springs Road - Longview, TX 75602 - Ph. (903) 236-4403 Fax (903) 236-4463 AAONEcat32 Ver. 4.332 (SN: 5727216-RJB4D76S)

H3-DRB-8-0-142D-000:F42E-CC0-LFE-0H0-A0A0AV0-00-00000ED00 Tag: AHU-1

Base Option Description H Series Herizental Unit 3 Generation Third Generation D Unit Size Up to A000 cm B Revision Second Revision B Revision Second Revision Controls Protection None 1 Cooling Revision None 2 Cooling Revision None 4 Cooling Revision None 2 Cooling Revision None 4 Cooling Revision None 2 Cooling Revision Non Heating 0 Leating Type Non Heating 0 Leating Type Non Heating 0 Leating Stages Standard 18 Standard 18 Standard 2 TEC As Rever Configuration 2 Revers - 2 Perm Mayord ACTIFIC Medices - 2 VIDs 4 18. Standard 18 Standard 2 Leating Stages 2 App 4 As Rever Configuration 2 App	Job Nam Job Num	e: Capitola Community Ce ber: Job #2021040762	Unit Submittal Por: Unit Submittal Date: April 23, 2023
H Series Herizontal Unit Generation Therd Generation Up to 6.000 cfm Unit Size Up to 6.000 cfm R Unit Creentation Second Revision 8 Valuage 200V300/bitz 0 Corresion Protection None 1 Cooling Tope Revision Second Revision 2 Cooling Tope Revision A flow Coll 2 Cooling Tope Revision Second Revision 2 Cooling Stags 14 flo Cooling Tope No Heating 0 Heating Tope No Heating No Heating 0 Heating Tope Stages Standard Standard 10 S.A Bioser Model 18 S factoward Curved Flow Stages VCC A Orion Cantrols System 11 S.A Bioser Model 2 heat Yang VCC A Orion Cantrols System VCC A Orion Cantrols System 12 S.A Bioser Model		Base Option	Description
3 Ceneration Third Generation D Unit Size Up to A000 dm R Unit Orientation Right Hand Generations - Front Discharge, Beck Intexe (Harizontal) B Freukian Scortd Revision C Carresion Protection None 1 Coating Type R 4 MAD XC Coating 2 Caoting Ross 4 Rev Coll 2 Caoting Ross 4 Rev Coll 3 Caoting EPI 14 fpl 0 Caoting EPI 14 fpl 0 Hasting Type No Heating 0 Hasting Designation No Heating 0 Hasting Designation No Heating 0 Hasting Designation No Heating 0 Hasting Stages Standard 18 Standard 18 Standard 2 16: Sta Binser Model 18 Standard Curved Plenum. 20% Midth 2 16: Sta Binser Model 18 Standard Curved Plenum. 20% Midth 3 Standard Nome Curved Plenum. 20% Midth 4 18: Standard Nome Curved Plenum. 20% Midth 5 Standard Nome Curved Plenum. 20% Midth 6 19: Standard Nome Curved Plenum. 20% Midth 3 Standard Nome Curved	н	Series	Horizontal Unit
D Unit Size Up to 6000 cfm B Intervision Right Hand Connections - Trank Diskarge, Back Instate (Horizontal) B Revision Sacond Revision Control Protection None Control Or Protection None Control Or Controls Protection None Control Type R-110A DX Control Control Stages Team Control Description Description F IA Schlower Control/grantion Param Magnet AC TEFC Motors - 2 VEDS I A Schlower Control/grantion Param Magnet AC TEFC Motors - 2 VEDS I IA Schlower Control/grantion Param Magnet AC TEFC Motors - 2 VEDS I IA Schlower Model 18 S Backard Curved Planum, 20% Width I IA Schlower Model 18 Schlower Social Curve Planum, 20% Width I Schlower Control/Grant Veder VCCX Drion Controls System C Schlower Control/Grant Veder VCCX Drion Controls System	3	Generation	Third Generation
R Unit Orientation Roti Hand Connections, Front Discharge, Back Intake (Horizonta) B Revision Second Revision Colling Tope 209V/200012 Colling Tope R-H108 AC Colling 4 Colling Tope R-H108 AC Colling 5 Colling Tope R-H108 AC Colling 6 Colling Ress 4 Rev Coll 7 Colling Ress A Rev Coll 7 Colling FPI H111 0 Heating Designation No Heating 1 Bases - 2 Perm Magnet AC TEFC Metors - 2 VFDs 7 Ha Sa Riborer Configuration 18.5 Bases - 2 Perm Magnet AC TEFC Metors - 2 VFDs 7 Ha Sa Riborer Configuration 18.5 Bases - 2 Verm Magnet AC TEFC Metors - 2 VFDs 1 Ha Sa Riborer Configuration 18.5 Bases - 2 Verm Magnet AC TEFC Metors - 2 VFDs 1 Ha Sa Riborer Configuration 18.5 Bases - 2 Verm Magnet AC TEFC Metors - 2 VFDs 1 Ha Sa Riborer Configuration 19.5 Bases - 2 Verm Magnet AC TEFC Metors - 2 VFDs 1 Ha Sa Riborer Configuration 19.5 Bases - 2 Verm Magnet AC TEFC Metors - 2 VFDs 1 Ha S	D	Unit Size	Up to 6,000 cfm
B Revision Second Revision 8 Voltage 201V/30/60/tr / 0 Corrain Protection None 1 Cooling Type R-10A DX Cooling 2 Cooling Revs. 4 Rev Corl 2 Cooling Revs. 4 Rev Corl 2 Cooling Revs. 14 Gol 0 Heating Type No Heating 0 Heating Designation No Heating 0 Heating Staps Standard Feature Option Description Feature Option Peature Option Colspan="2">Peature Option Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2"C	R	Unit Orientation	Right Hand Connections - Front Discharge, Back Intake (Horizontal)
8 Voltage 200/20/001/2 0 Carrosion Protection Name 1 Couling Type R-10.0 AC Scaling 2 Couling Raws A Row Coil 2 Couling States The Ottobies - Interfaced Coil 10 Couling FPI M Felting 0 Heating Type No Heating 0 Heating Type No Heating 0 Heating Type No Heating 0 Heating States Standard 10 Heating States Standard 11 S.A Bitower Configuration 2 Blowers + 2 Perm Magnet AC TEFC Motors + 2 VFDs 14 18. SA Bitower Configuration 2 Blowers + 2 Perm Magnet AC TEFC Motors + 2 VFDs 12 10. SA Bitower Configuration 2 Blowers + 2 Perm Magnet AC TEFC Motors + 2 VFDs 14 18. SA Bitower Configuration 18 Stradard - None 10 14 18. SA Bitower Control/Contol Vender VCC X Orign Control Statem 10 15 Standard - Name 10 4. Additional Controls 14 Ver Controls 16 Sta	В	Revision	Second Revision
0 Caronian Protection None 1 Conting Type Protecting 2 Conting Stages Two Circuits: Interfaced Coll 2 Conting Stages Two Circuits: Interfaced Coll 0 Heating Designation No Heating 1 Heating Designation No Heating 1 Heating Stages Standard 1 Fature Option Description 1 Iterating Stages Standard 2 Iterating Control 2 Bowrs + 2 Perm Magnet AC TEFC Motors + 2 VEDS 4 18. SA Blower Model 18.5° Backward Curved Plenum, 70% Wolth 2 10. SA Blower Model 18.5° Backward Curved Plenum, 70% Wolth 2 10. SA Blower Model 18.5° Backward Curved Plenum, 70% Wolth 2 10. SA Blower Model 12.5° Backward Curved Plenum, 70% Wolth 3 10. SA Blower Model 12.5° Backward Curved Plenum, 70% Wolth 4 18. SA Blower Model 12.5° Backward Curved Plenum, 70% Wolth 5 S. Backward Curved Plenum, 70% Wolth 12.5° Backward Curved Plenum, 70% Wolth 6 4.80 Enter Dex Post D	8	Voltage	208V/3Ø/60Hz
1 Couling Type P-410A DX Couling 4 Couling Rows 4 Row Culi 2 Couling Stages Two Circuits - Interfaced Coli D Couling FPI 14 fpi 0 Heating Dresignation No Heating 0 Heating Designation Description F FA. SA Blower Configuration 2 Blowers + 2 Perm Magnet AC TEFC Motors + 2 VEDS 4 18. SA Blower Configuration 2 Blowers + 2 Perm Magnet AC TEFC Motors + 2 VEDS 4 18. SA Blower Configuration 2 Blowers + 2 Perm Magnet AC TEFC Motors + 2 VEDS 4 18. SA Blower Configuration 2 Perm Magnet AC TEFC Motors + 2 VEDS 10 SA Blower Configuration 2 Perm Magnet AC TEFC Motors + 2 VEDS 11 SA Blower Configuration 2 Perm Magnet AC TEFC Motors + 2 VEDS 5 Samodrafter 2 Perm Magnet AC TEFC Motors + 2 VEDS 6 A. Blower Control Controls System 10 CC -X Orion Controls System 6 Heat Pump 10 CC -X Orion Controls System <	0	Corrosion Protection	None
4 Cooling Rows 4 Rew Coll 2 Cooling Stages Two Circuits - Interfaced Coll 0 Heating Type No Heating 0 Heating Type No Heating 0 Heating Stages Standard 1 Feature Option Description F 1A. SA Blower Confuguration 2 Blowers + 2 Perm Magnet AC TEFC Motors + 2 VFDs 4 1B. SA Blower Confuguration 2 Plackward Curved Plenum, 70% Width 2 1C, SA Blower Control/Contol Vendor VCC X Orion Controls System C 2. Refrigeration Options Heat Pump C 3. Special Controls VAV Controller - VAV Cogl + CV Heat 0 4. Additional Controls 1 Standard - Nome L SA. Mixing Box - AD Anomer Position Front E SC. Damper Control Front C 2. Refrigeration Differs Standard - Nome H 6B. Filter Dox - Unit Filter 2 Plexted - 30% Eff - 41 Pleated - 85% Eff - MCRV 13 C 5C. Damper Control Front E 5C. Damper Control Front A 7. Filter Dox - Init Filter Box Standard - Nome A 7. Filter Dox - Init Filter Box Standard - Nome A 7. Filter Options Standard - Nome <td>1</td> <td>Cooling Type</td> <td>R-410A DX Cooling</td>	1	Cooling Type	R-410A DX Cooling
2 Cooling FPI Two Circuits - Interlaced Coll D Cooling FPI 14 fpl 0 Heating Type No. Heating 0 Heating Stages Standard 0 Heating Stages Standard 0 Heating Stages Standard 10 Heating Stages Standard 11 SA Blower Configuration 2 Blowers + 2 Perm Magnet AC TEPC Motors + 2 VEDs 12 16. SA Blower Configuration 2 Blower Stages 2 hp 12 10. SA Blower Control/Contol Vender VCC: X Orion Controls System 2 hp 12 10. SA Blower Control/Contol Vender VCC: X Orion Controls System 2 hp 13 Standard - None 1 Heat Purnp 2 Markandard - None 14 4. Additional Controls 1 Standard - None 1 Heat Purne 14 58. Mixing Box - AD Damger Position Left Hand (Front DA Damger Regured) 1 Heat Purne 15 58. Mixing Box - AD Damger Position Left Hand (Front DA Damger Regured) 1 Heat Purne 14 68. Filter Box - Filter Box Standard - None 1 Heat Purne 2 Pleated	4	Cooling Rows	4 Row Coil
D Cooling FPI 14 fpl 0 Heating Type No Heating 0 Heating Designation No Heating 0 Heating Stages Standard 0 Heating Stages Standard 7 Fature Option Description 7 A. SA Blower Configuration 2 Blowers + 2 Perm Magnet AC TEFC Motors + 2 VFDs 4 1B. SA Blower Configuration 2 Pap 2 1C. SA Blower Control/Contol Vendor VCC-X Orion Controls System 2 1C. SA Blower Control/Contol Vendor VCC-X Orion Controls System 2 1D. SA Blower Control/Contol Vendor VCC-X Orion Controls System 3 Special Controls VAV Controller - VAV Coal + CV Heat 0 4. Additional Controls 1 Standard - None 1 SA. Mixing Box - AD Damper Position Froit 1 SA. Mixing Box - AD Damper Position Froit 1 SA. Filter Box - Unit Filter 2' Pleated - 30% Efft - 4' Pleated - 85% Efft - MERV 13 0 6C. Filter Box - Final Filter Box Standard - None A 7. Filter Options Magnehic Gauge 0 8. Coil Coating Standard - None A 7. Filter Options Standard - None A 7. Filter Options	2	Cooling Stages	Two Circuits - Interlaced Coil
0 Heating Type No Heating 0 Heating Designation No Heating 0 Heating Stages Standard F 1A. SA Blower Configuration 2 Blowers + 2 Perm Magnet AC TEFC Motors + 2 VFDs 1 1B. SA Blower Model 195° Backward Curved Plenum, 20% Width 2 1C. SA Blower Model 195° Backward Curved Plenum, 20% Width 2 1C. SA Blower Moder 2 pn E 1D. SA Blower Control/Contol Vandor VCC X Orion Controls System C 2. Refrigeration Options Heat Pump C 3. Special Controls VAV Controller - VAV Coal + CV Heat 0 4. Additional Controls 1 Standard - None L SA. Mixing Box RA Damper Position Left Hand (Front OA Damper Required) F 5B. Mixing Box OA Damper Position Front E 5C. Damper Control Standard - None L SA. Mixing Box OA Damper Position Front E 5C. Damper Control Standard - None A 7. Filter Box. Intel Filter Box Standard - None A 7. Filter Box - Intel Filter Box Magnehelic Gauge 0 6C. Filter Box - Final Filter Box Magnehelic Gauge 1 10. Expansion Valve Thermal Expansion Valves	D	Cooling FPI	14 fpi
0 Heating Designation No Heating 0 Heating Stages Standard Feature Option F 1A. SA Blower Configuration 2 Blowers + 2 Perm Magnet AC TEFC Motors + 2 VFDs 1B. SA Blower Model 1B.5' Backward Curved Plenum, 70% Width 2 1C. SA Blower Model 1B.5' Backward Curved Plenum, 70% Width 2 1C. SA Blower Model 1B.5' Backward Curved Plenum, 70% Width 2 1C. SA Blower Controlicontol Vendor VCC X Orion Controls System C 3. Special Controls VAV Controller - VAV Cool + CV Heat 0 4. Additional Controls VAV Controller - VAV Cool + CV Heat 0 4. Additional Controls VAV Control OA Damper Required) F 5B. Mixing Box: -RA Damper Position Fornt E 5C. Damper Control Fully Modulating Actuator - Sensible Limit 0 6C. Filter Box: -Unit Filter 2' Pleated .30% Eff - 4'' Pleated .85% Eff - MERV 13 0 6C. Filter Box: -Unit Filter Box Standard - None A 7. Filter Options Magnehelic Gauge 0 8. Coll Coating Standard - None A 9. Expansion Valve Thermal Control Banel A 9. Expansion Valve Thermal Control Banel 0 18. Centrol Fanel AAON	0	Heating Type	No Heating
0 Heating Stages Standard Feature Option Description 2 Blowers + 2 Perm Magnet AC TFFC Motors + 2 VFDs 4 18. SA Blower Configuration 2 Blowers + 2 Perm Magnet AC TFFC Motors + 2 VFDs 4 18. SA Blower Motor 2 hp E 10. SA Blower Control/Contol Vendor 2 hp C 2. Sertingeration Options Heat Pump C 3. Special Controls VAV Controline - VAV Cool + CV Heat 0 4. Additional Controls 1 Standard - None L 56. Mixing Box - RA Damper Position Left Hand (Front OA Damper Required) F 58. Mixing Box - CAD Damper Position Front E 50. Obarger Control Fully Modulating Actuator - Sensible Limit 0 6A. Filter Box - Per Filter Box Standard - None H 6B. Filter Box - Per Filter Box Standard - None A 7. Filter Options Magnehelic Gauge 0 6A. Filter Dox - Inal Filter Box Standard - None A 9. Expansion Valve Thermal Expansion Valves 0 10. Expansion Valve Thermoral Expansion Valves	0	Heating Designation	No Heating
Feature Option Description F 1A. SA Blower Model 2 Blowers + 2 Perm Magnet AC TEFC Motors + 2 VFDs 4 1B. SA Blower Model 18.5"Backward Curved Plenum, 70% Width 2 1C. SA Blower Model 2 hp E 1D. SA Blower Control/Contol Vender VCC:X Orion Controls System C 3. Special Controls Heat Pump C 3. Special Controls VAV Controller - VAV Cool + CV Heat 0 4. Additional Controls 1 Standard - None L 5A. Mixing Box - RA Damper Position Front F 5B. Mixing Box - CA Damper Position Front E 5C. Damper Control Fully Modulating Actuator - Sensible Limit 0 6A. Filter Box - Pre Filter Box Standard - None H 6B. Filter Box - Unit Filter 2" Pleated - 30% Eff - 4" Pleated - 85% Eff - MERV 13 0 6C. Filter Box - Final Filter Box Standard - None A 7. Filter Options Magnetelic Gauge 0 10. Expansion Valve Thermal Expansion Valves 0 10. Expansion Valve Thermal Expansion Valves	0	Heating Stages	Standard
F 14. SA Blower Configuration 2 Blowers + 2 Perm Magnet AC TEFC Maters + 2 VFDs 4 18. SA Blower Model 18.5" Backward Curved Plenum, 70% Width 2 10. SA Blower Control/Contol Vendor VCC-X Orion Controls System C 2. Refrigeration Options Heat Pump C 3. Special Controls VAV Controller - VAV Cool + CV Heat 0 4. Additional Controls VAV Controller - VAV Cool + CV Heat 0 4. Additional Controls VAV Controller - VAV Cool + CV Heat 0 4. Additional Controls VAV Controller - VAV Cool + CV Heat 0 4. Additional Controls VAV Controller - VAV Cool + CV Heat 0 4. Additional Controls Eth Hand (Front OA Damper Required) F 58. Mixing Box - OA Damper Position Erf end (Front OA Damper Required) F 58. Mixing Box - OA Damper Position Front E 50. Damper Control Fully Modulating Actuator - Sensible Limit 0 6A. Filter Box - Final Filter Box Standard - None A 7. Filter Options Standard - None A 9. Expansion Valve Controls None A 9. Expansion Valve Controls None		Easture Option Description	
4 16. SA Blower Model 16.5° Backward Curved Plenum, 70%. Width 2 10. SA Blower Model 18.5° Backward Curved Plenum, 70%. Width 2 10. SA Blower Model 2.bp E 10. SA Blower Control/Contol Vendor VC: X Orin Controls System C 2. Refrigeration Options Heat Pump C 3. Special Controls VAV Controller - VAV Cool + CV Heat 0 4. Additional Controls 1 Standard - None L 5A. Mixing Box - RA Damper Position Ford F 5B. Mixing Box - AD Damper Position Ford F 5B. Mixing Box - AD Damper Position Ford F 5B. Mixing Box - AD Damper Position Ford F 5B. Mixing Box - AD Damper Position Ford F 5B. Mixing Box - AD Damper Position Ford F 5B. Filter Box - Dire Filter Box Standard - None H 6B. Filter Box - Dire Filter Box Standard - None A 7. Filter Options Magneholic Gauge 0 6C. Filter Box - Final Filter Box Standard - None A 9. Expansion Valve Thermal Expansion Valves 0	F	14 SA Blower Configuration	2 Blowers + 2 Perm Magnet AC TEEC Motors + 2 VEDs
1 10. SA Blower Motor 2 hp 2 10. SA Blower Cantral/Contol Vendor 2 hp E 10. SA Blower Cantral/Contol Vendor VCC-X Orion Controls System C 3. Special Controls Heat Pump C 3. Special Controls VAV Controller - VAV Cool + CV Heat 0 4. Additional Controls 1 Standard - None L 5A. Mixing Box - RA Damper Position Front E 5C. Damper Control Fully Modulating Actuator - Sensible Limit 0 6A. Filter Box - Pre Filter Box Standard - None H 6B. Filter Box - Pre Filter Box Standard - None H 6B. Filter Box - Final Filter Box Standard - None A 7. Filter Options Magnehelic Gauge 0 8. Coll Coating Standard - None A 9. Expansion Valve Thermal Expansion Valves 0 8. Coll Coating Standard - None A 10. Expansion Valve Controls None A 11. External Point AAON Gray Paint V 12. Tonnage 11 ton Capacity 0 13. Energy Recovery Type Standard - None	4	18. SA Blower Model	19 5" Packward Curved Dianum 70% Width
E 10. SA Blower Control/Contol Vendor VCC-X Orion Controls System C 2. Refrigeration Options Heat Pump C 3. Special Controls VAV Controller - VAV Cool + CV Heat 0 4. Additional Controls 1 Standard - None L 5A. Mixing Box - RA Damper Position Left Hand (Front OA Damper Required) F 5B. Mixing Box - CoA Damper Position Font E 5C. Damper Control Fully Modulating Actuator - Sensible Limit 0 6A. Filter Box - Pre Filter Box Standard - None H 6B. Filter Box - Pre Filter Box Standard - None A 7. Filter Dox - Final Filter Box Standard - None A 7. Filter Options Magnehelic Gauge 0 8. Coll Coating Standard - None A 9. Expansion Valve Controls None A 11. External Paint AAON Gray Paint V 12. Tornage 11 tor Capacity 0 13. Energy Recovery Type Standard - None 14. A Power Options Standard - None 13. Energy Recovery Cabinet Standard - None 14. Tornage Standard - None	2	1C SA Blower Moder	
C 10. SA blower during options Heat Pump C 3. Special Controls VAV Controller · VAV Cool + CV Heat 0 4. Additional Controls 1 Standard - None L 5A. Mixing Box - RA Damper Position Left Hand (Front OA Damper Required) F 5B. Mixing Box - OA Damper Position Front E 5C. Damper Control Fully Modulating Actuator - Sensible Limit 0 6A. Filter Box - OA Dim Control Standard - None H 6B. Filter Box - Final Filter Box Standard - None A 7. Filter Options Magnehelic Gauge 0 8. Coll Coating Standard - None A 9. Expansion Valve Controls None A 9. Expansion Valve Controls None A 10. Expansion Valve Controls None A 11. External Paint AAON Gray Paint V 12. Tornage 11 ton Capacity 0 13. Energy Recovery Type Standard - None 14. A Power Options Standard - None Standard - None 0 14. Electrical Rating Standard - None Standard - None 0 15. Contr	Ē	1D. SA Blower Central/Centel Vender	V(C X Orion Controls System
C 2. Nething and roundy divides Field Fund C 3. Special controls VAV Controller - VAV Cool + CV Heat 0 4. Additional Controls 1 Standard - None L 5A. Miking Box - AD Damper Position Front F 5B. Miking Box - OA Damper Position Front E 5C. Damper Control Fully Modulating Actuator - Sensible Limit 0 6A. Filter Box - Pre Filter Box Standard - None H 6B. Filter Box - Intal Filter Box Standard - None A 7. Filter Dots Standard - None A 7. Filter Options Magnehelic Gauge 0 6C. Filter Box - Final Filter Box Standard - None A 9. Expansion Valve Thermal Expansion Valves 0 10. Expansion Valve Thermal Expansion Valves 0 10. Expansion Valve Controls None A 11. External Paint AAON Gray Paint V 12. Tonnage 11 ton Capacity 0 13. Energy Recovery Type Standard - None 0 14A. Power Options Standard - None 0 14A. Power Options Standard - None<	<u> </u>	Periodiation Options	Host Dump
O 3. Special Controls OAV Control = VAV Con	Č	2. Renigeration Options	
0 4. Additional controls Standard - None L 5.4. Mixing Box - AD Damper Position Front E 5C. Damper Control Fully Modulating Actuator - Sensible Limit 0 6A. Filter Box - Pre Filter Box Standard - None H 6B. Filter Box - Intel Filter Box Standard - None A 7. Pleated - 30% Eff. + 4" Pleated - 85% Eff MERV 13 0 6C. Filter Box - Final Filter Box Standard - None A 7. Filter Options Magnehelic Gauge 0 8. Coil Coating Standard - None A 9. Expansion Valve Thermal Expansion Valves 0 10. Expansion Valve Thermal Expansion Valves 0 10. Expansion Valve Controls None A 11. External Paint AAON Gray Paint V 12. Tonnage 11 ton Capacity 0 13. Energy Recovery Type Standard - None 0 14A. Power Options Standard Power Block 0 14B. Electrical Rating Standard (No Shipping Split) 0 15. Control Panel Internal Control Panel (Top or Bottom Blower Access Required) 0 18. Prefvea	0	3. Special Controls 1	
F 58. Mixing Box - KA Damper Position Front E 58. Mixing Box - AA Damper Position Front E 50. Damper Control Fully Modulating Actuator - Sensible Limit 0 6A. Filter Box - Pre Filter Box Standard - None H 68. Filter Box - Intal Filter Box Standard - None A 7. Filter Box - Final Filter Box Standard - None A 7. Filter Options Magneholic Gauge 0 8. Coil Coating Standard - None A 9. Expansion Valve Thermal Expansion Valves 0 10. Expansion Valve Thermal Expansion Valves 0 10. Expansion Valve Controls None A 11. External Paint AAON Gray Paint V 12. Tonnage 11 ton Capacity 0 13. Energy Recovery Type Standard - None 0 14A. Power Options Standard - None 0 14B. Electrical Rating Standard - None 14B. Electrical Rating Standard - None 0 14A. Power Options Standard - None 0 14B. Electrical Rating Standard - None 14B.	ī	4. Additional Controls 1	
Image: First Sc. Damper Control Fully Modulating Actuator - Sensible Limit 0 6A. Filter Box - Pre Filter Box Standard - None H 6B. Filter Box - Final Filter Box Standard - None A 7. Filter Options Magnehelic Gauge 0 8. Coli Coating Standard - None A 9. Expansion Valve Thermal Expansion Valves 0 8. Coli Coating Standard - None A 9. Expansion Valve Thermal Expansion Valves 0 10. Expansion Valve Controls None A 11. External Paint AAON Gray Paint V 12. Tonnage 11 ton Capacity 0 13. Energy Recovery Type Standard - None 14A. Power Options Standard - None 14B. Electrical Rating Standard - None 14B. Electrical Rating Standard - None 0 14A. Power Options Standard - None 0 15. Control Panel Internal Control Panel (Top or Bottom Blower Access Required) 0 16. Shipping Splits Standard - None 0 17. Energy Recovery Cabinet Standard - None 0 18. Pr	Ē	5A. Mixing Box - RA Damper Position	
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VCCX Components

2425 South Yukon Ave - Tulsa, Oklahoma 74107-2728 - Ph. (918) 583-2266 Fax (918) 583-6094 AAONEcat32 Ver. 4.332 (SN: 5727216-RJB4D76S)

H3-DRB-8-0-142D-000:F42E-CC0-LFE-0H0-A0A0AV0-00-00000ED00

Tag: AHU-1 Job Name: Job Number:

Capitola Community Center VCCX For: Job #2021040762

VCCX Date:

April 23, 2023

Hardware Included For VCCX Controller

Part #	Included Parts	Assigned Channel	BACnet Point
ASM01698	VCCX2 CONTROLLER		
ASM01643	Space Temp Sensor	VCCX control point AI 1	AI:12
ASM01643	Space Temp Slide Adjust	VCCX control point AI 2	AI:8
R82890	Supply Temp Sensor - Field Installed	VCCX control point AI 3	AI:9
R82890	Return Temp Sensor	VCCX control point AI 4	AI:14
R81550	Outside Temp Sensor	VCCX control point AI 7	AI:16
P87100	Duct Static Pressure Sensor	VCCX control point AI 8	AI:21
	Economizer	VCCX control point AO 2	AI:30
	Safety Shut Down	VCCX control point BI 8	BI:26
	Morning Warm-Up	Configured Relay Point	BI:47



gned _____ 0/16/2024 Permit # 20240180

FAN ACCESS IS REQUIRED THROUGH THE TOP OR BOTTOM OF THE UNIT. THE REQUIRED CLEARANCE IS THE UNIT HEIGHT.

AIRFLOW DIRECTION



Longview, Texas

Configurator: H3-DRB-8-0-142D-000:F4 JOB NAME: Capitola Community Center	DOINIT TAG: AHU—1	APPROVED JOB COPY Reviewed for Code Compliance	
PURCHASER:	PURCHASE ORDER:	SERIAL NO.: v1.13.0.0	Sound ATTE: Data
Rep Contact:	Ordered By:	Engineer:	







Unit Submittal

2425 South Yukon Ave - Tulsa, Oklahoma 74107-2728 - Ph. (918) 583-2266 Fax (918) 583-6094 AAONEcat32 Ver. 4.332 (SN: 5727216-RJB4D76S)

CFA-011-B-A-8-DJ0EL:0-00-00-00-AN0-L-DE00-00A0A00-0A000DB Tag: CU-1

Job Name: Job Number:		Capitola Community Center Job #2021040762	Unit Submittal For: Unit Submittal Date:	April 23, 2023	
	Base Option	Description			
CF	Generation	CF - Condensing Unit			
Α	Major Rev	Major Revision			
011	Unit Size	Eleven			
B	Series	B Cabinet			
Α	Revision	Minor Revision			
8	Voltage	208V/3Ø/60Hz			
D	Compressor Style	R-410A Variable Capacity S	croll Comp		
J	Condenser Style	Air-Source Heat Pump (Fin	Air-Source Heat Pump (Fin and Tube)		
0	Configuration	Standard			
E	Coating	Polymer E-Coated Condense	r Coil		
L	Staging	2 Variable Refrig Systems			

	Feature Option	Description
0	1. Unit Orientation	Vertical Condenser Discharge with End Control Panel
0	2A. Refrigeration Control	Standard
0	2B. Blank	Standard
0	3A. Refrigeration Options	Standard
0	3B. Blank	Standard
0	4. Refrigeration Accessories	Standard
0	5. Blank	Standard
Α	6A. Unit Disconnect Type	Single Point Power Non-Fused Disconnect
N	6B. Disconnect Size	100 Amps
0	6C. Blank	Standard
L	7. Accessories	Phase & Brown Out Protection + Suction Pressure Transducer on Each Refrigeration System
D	8A. Control Sequence	VAV Unit Controller - VAV Cool + CAV Heat
E	8B. Control suppliers	VCC-X (Main Controller in Air Handling Unit)
0	8C. Control Supplier Options	Standard
0	BMS Connection and BD Diagnostics	Standard
0	9. Blank	Standard
0	10. Blank	Standard
Α	11. Maintenance Accessories	115VAC Convenience Outlet - Factory Wired
0	12. Code Options	Standard ETL U.S.A. Listing
Δ	Air Cooled Condenser	Canduran Otil Counds
	13. Accessories	Chandenser Coll Guards
0	14. Blank	Standard
0	13. Blank	Standard
Δ	17. Shipping Options	Standard
0	19. Black	Clating Standard
0	10. Blank	Standard
0	20 Cabinat Matarial	Standard Calvanized Steel Cabinet
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U	22. Paint and SPAS	





VCCX Components

2425 South Yukon Ave - Tulsa, Oklahoma 74107-2728 - Ph. (918) 583-2266 Fax (918) 583-6094 AAONEcat32 Ver. 4.332 (SN: 5727216-RJB4D76S)

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Tag: CU-1 Job Name: Job Number:

Capitola Community Center VCCX For: Job #2021040762

VCCX Date:

April 23, 2023

Hardware Included For VCCX Controller

Part #	Included Parts	Assigned Channel	BACnet Point
ASM02201	DIGITAL REFRIGERATION MODULE		
R57800	Comp Discharge Temp A	RSMD point TEMP1	AI:66
R57800	Comp Discharge Temp B	RSMD point TEMP2	AI:67
V38391	Suction Pressure Sensor A	RSMD point AI1	AI:48
V38391	Suction Pressure Sensor B	RSMD point AI3	AI:54
G017740	O.D. Coil Defrost Temp Switch	RSMD point BIN3	BI:81
	Comp Status Input A	RSMD point BIN1	BI:77
	Comp Status Input B	RSMD point BIN2	BI:78
	Emergency Shutdown	RSMD point BIN4	BI:83
	Condenser Enable A	RSMD Fixed Relay point	BI:86
	Comp Enable A	RSMD Fixed Relay point	BI:84
	Comp Enable B	RSMD Fixed Relay point	BI:85
	Condenser Enable B	RSMD Fixed Relay point	BI:87
	Comp Cir Reversing Valve	RSMD Fixed Relay point	BI:88



JN for EN 0/16/2024 Permit # 20240180



BABY CHANGE STATION



Needs Met



KB300 Baby Changing Stations

A Platform of Products to Meet Your Every Need


Needs Met.

As the world's most recognized brand of baby changing stations, families and business owners have trusted Koala Kare for over 35 years to meet their needs. Our products help architects, business owner-operators and anyone tasked with managing public facilities make their restrooms friendly to children and caregivers. Our mission to create safe, innovative, high-quality, and durable products is always top of mind.



The **KB300 platform** has set a new standard for baby changing stations. By working closely with both architects and end-users, Koala Kare has created a new line of eight expertly-crafted, innovative baby changing stations.

Whether your visual aesthetic calls for stainless steel recessed-mounted or plastic surface-mounted units, the **KB300 platform** has a baby changing station for your restroom aesthetic and budget.

All KB300 platform products are designed to withstand frequent use thanks to an enhanced integral steel frame and have been tested to have minimal deflection with 200 lbs of center-loaded static weight. Koala Kare partners with Microban® to integrate powerful product protection into our baby changing stations that helps inhibit the growth of stainand odor-causing bacteria on product surfaces. Along with amenities like an improved liner dispenser and an external stainless steel bag hook, KB300 units support an increased focus on hygiene to satisfy end-users.



Superior Craftsmanship and Thoughtful Design

KB310-SSRE Horizontal Baby Changing Station

Committed to Compliance

At Koala, we understand the importance of providing safe and compliant childcare products for your patrons with children. That's why **KB300 platform** changing stations have been designed to meet a comprehensive range of global accessibility requirements including ASTM, EN, and ADA standards. Designing to meet these standards helps improve ease-of-use for users with disabilities and supporting the desire for safe, compliant child accommodations for your restroom. APPROVED JOB COPY



High-Traffic Solutions



Recessed Models Save Space in High-Traffic Restrooms

Owners and operators of public establishments understand the demand for high-quality childcare accommodations to satisfy patrons. The horizontal KB310 and vertical KB311 stainless steel baby changing stations are the ideal choice for commercial restrooms that need a design-centric product that will meets this demand without protruding into high-traffic areas and occupying much-needed restroom space..

Product Highlights

- Deep-drawn, uniform grain stainless steel body provides a beautiful aesthetic
- Recessed-mounted to tuck away easily when not in use
- Matches other stainless steel restroom accessories





integral frame designed to withstand frequent use.

Includes external stainless steel bag hook to safely stow diaper bags off the floor and in close proximity for the caregiver's use.



10/16/2024 Date _____ Permit # ______

KB300 Platform – Baby Changing Stations

Design-Driven Solutions



Design Solutions for High-end Restrooms

A new standard for restroom design has emerged — one that demands visually pleasing design, a variety of colors and finishes, and the durability to withstand commercial use. The KB300 platform of baby changing stations doesn't just meet today's standard -- it exceeds it. Whether your project specifies a high-end, aesthetically impressive restroom or demands versatility in color without compromising on overall style, the Koala Kare KB300 platform has a baby changing station for your business that will provide for the needs of your customers with children.



KB310-SSRE Horizontal – KB311-SSRE Vertical Recessed-Mounted



KB310-MBLK Horizontal - KB311-MBLK Vertical Recessed-Mounted

Product Highlights

- KB310 and KB311 units feature a one-piece, stainless steel body for an impressive visual aesthetic
- KB300-SS and KB301-SS provide an elegant upgrade to the full plastic and match other bathroom stainless steel accessories and fixtures
- KB300 and KB301 are available in three color combinations





KB300 Platform – Baby Changing Stations



Space-Saving Design for Small Restroom Environments

For small space restrooms, accommodating the needs of your customers with children can be a challenge. Every square inch of space counts. The KB300 platform offers a selection of four verticallyconstructed units that are the perfect complement to small restrooms without compromising on design.





KB311-SSRE Vertical Recessed-Mounted

KB311-SSWM Vertical Surface-Mounted

Product Highlights

- Vertical units include all KB300 platform patron amenities, including the enhanced integral steel frame and improved liner dispenser
- Surface and recessed-mounted options provide design flexibility
- Variety of colors and finishes available to match your restroom's visual aesthetic



KB301-05SS Vertical Surface-Mounted



KB301-01SS Vertical Surface-Mounted



Reviewed for Code Compliance Signed ______ Date ______ Permit # ²⁸²⁴⁰¹³⁰

KB300 Platform — Baby Changing Stations

Technical Specifications



KB310-SSRE

Unit Dimensions: 41 ⁵/₁₆" W x 26 ⁷/₃₂" H (1050 mm x 666 mm)

Depth (closed): 2²³/₃₂" (69 mm)

Extension (open): 17¹³/₃₂" (442 mm)

Shipping Weight: 80 lbs

COLOR OPTIONS

Stainless Steel

Matte Black



KB311-SSRE

Unit Dimensions: 26 7/32" W x 41 5/16" H (666 mm x 1050 mm)

Depth (closed): 2²³/₃₂" (69 mm)

Extension (open): 32²⁷/₃₂" (834 mm)

Shipping Weight: 73 lbs

COLOR OPTIONS

Stainless Steel

Matte Black



KB300-SS

Unit Dimensions:

35 ¹⁵/₁₆" x 20 ³/₄" (897 mm x 527.5 mm)

Depth (closed): 4" (101.6 mm)

Extension (open): 21 ³/16" (538mm)

Shipping Weight: 37 lbs

COLOR OPTIONS

Grey-01
White Granite-05



KB310-SSWM

Unit Dimensions: 41 ¹⁵/₃₂" W x 26 ¹¹/₃₂" H (1050 mm x 669 mm)

Depth (closed): 6²⁵/₃₂" (172 mm)

Extension (open): 21 ¼″ (540 mm)

Shipping Weight: 78 lbs

COLOR OPTIONS







26 ¹¹/₃₂" W x 41 ¹⁵/₃₂" H (669 mm x 1050 mm)

Depth (closed): 6 2⁵/₃₂" (172 mm)

Extension (open): 32 27/32" (834 mm)

Shipping Weight: 76 lbs

COLOR OPTIONS





KB300

Unit Dimensions: 35 ¹⁵/₁₆" x 20 ³/₄" (897 mm x 527.5 mm)

Depth (closed): 4" (101.6 mm)

Extension (open): 21 ³/₁₆" (538mm)

Shipping Weight: 33 lbs

COLOR OPTIONS

Beige-00

Grey-01

White Granite-05











KB301-SS

Unit Dimensions: 20 ³⁄₄" x 35 ⁷⁄₈" (527.5 mm x 911 mm)

Depth (closed): 4" (101.6 mm)

Extension (open): 36 %″ (930 mm)

Shipping Weight: 36 lbs

COLOR OPTIONS



Grey-01

White Granite-05





KB301

Unit Dimensions: 20 3/4" x 35 7/8" (527.5 mm x 911 mm)

Depth (closed): 4" (101.6 mm)

Extension (open): 36 ½" (930 mm)

Shipping Weight: 32 lbs

COLOR OPTIONS





KB300 Platform – Baby Changing Stations



Our History of Anticipating and Meeting Needs

Koala Kare has been committed to being an innovator in childcare accommodations for 35 years. Our expert designers understand that our baby changing stations should be designed to build trust and loyalty with the caregivers who use them.

Microban Product Protection

Koala Kare partners with Microban[®], a global specialist in antimicrobial technologies, to integrate powerful product protection into our baby changing stations. The best way to avoid stains and odors from microbes is to prevent growth in the first place, and Koala Kare uses Microban[®] to protect baby changing stations by inhibiting the growth of stain- and odorcausing bacteria on product surfaces.

External Bag Hook

KB300 platform baby changing stations are shipped with an external stainless steel bag hook that arrives ready to be installed on your restroom wall. Koala Kare's external bag hook satisfies patrons by offering a secure, hygienic place to store belongings instead of on the restroom floor.

Warranty Information

Koala Kare warrants that baby changing stations will be free from defects in material and workmanship under normal use and service, with proper maintenance, for a period of five (5) years.

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Maintenance

Koala Kare communicates directly with baby changing station owners to help keep our products in good working order. Our comprehensive maintenance and replacement parts program is easy to access at **Koalabear.com/maintenance-matters** and helps owners keep their products clean and safe.



Koala Kare Products 6982 S. Quentin Street Centennial, CO 80112

Koalabear.com



KB300-SS Baby Changing Station Technical Data Sheet

<u>Color</u>



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KB300-SS Baby Changing Station Closed Position





KB300-SS Baby Changing Station Open Position





KB300-SS Baby Changing Station

<u>Material</u>

Injection-molded polypropylene with Microban[®] antimicrobial additive embedded into the bed surface. Type 304 brushed stainless steel finish veneer. Reinforced steel-on-steel hinge mechanism and metal mounting chassis with mounting hardware included. Labeled usage instructions and safety messages in four languages. Optional Braille label available. Contoured changing surface area is 535 sq. in (3452 sq. cm) and comes complete with impervious TPU safety strap and solid stainless steel external bag hook. Dual cavity liner dispenser holds approximately 50 KB150-99 bed liners.

Note: For EN 12221:2008+A1:2013 compliant units a safety strap can not be provided with the unit. Should you require one, it can be ordered separately P/N 310-44-KIT.

Operation

Concealed pneumatic cylinder and metal mounting chassis provides controlled, slow opening and closing of bed. Polypropylene is easy to clean and resists odors and bacterial growth. Complies with ASTM static load performance requirements when properly installed. Internal liner dispenser with integrated spring tab dispensed one liner at a time.

Warning: To ensure that the unit supports the intended loads, baby changing stations must be properly installed according to the manufacturer's instructions.

Specification

Baby changing station body shall be durable, injection-molded polypropylene. Design of unit shall be surface-mounted. Front surface of unit shall have a 304 brushed stainless steel finish veneer. Unit shall be equipped with a pneumatic cylinder for controlled opening and closing of bed. Bed shall be secured to metal mounting chassis with a concealed steel-on-steel hinge. No hinge structure shall be exposed on interior or exterior surfaces. Unit shall have mounting hardware included. Unit shall have Microban[®] antimicrobial embedded into plastic material on the changing surface. Unit shall comply with ADA regulations when properly installed. Bed shall have smooth concave changing area with a safety strap and external stainless steel hook for bags or purse provided.

The design and manufacture of Koala products is intended to be compliant with the 2010 ADA Standards for Accessible Design and the 2009 ICC A117.1, Accessible and Usable Buildings and Facilities. Unit shall conform to ASTM F2285-04(16) Standard Safety Performance Specification for Diaper Changing Tables for Commercial Use, ANSI Z535.4 Product Safety Signs and Labels, EN 12221:2008+A1: 2013. Unit shall have a built-in Liner Dispenser for use with 3-ply chemical free biodegradable bed liners, instructional graphics and safety messages in 4 languages. Unit shall be backed by manufacturer's 5-year limited warranty on materials and workmanship and include a provision for replacement caused by vandalism.

Unit shall be manufactured in the U.S.A.

ADA Requirements

Additional information on how this product complies with ADA requirements can be found in the *KB300 & KB301 Baby Changing Stations Accessibility Compliance* document on **www.koalabear.com**.

The illustrations and descriptions herein are applicable to production as of the date of this Technical Data Sheet. The manufacturer reserves the right to, and does from time to time, make changes and improvements in designs and dimensions without 100 (Gery

Koala Kare Products A Division of Bobrick

6982 South Quentin Street, Centennial, CO 80112-3945 Main: 303.539.8300 | Toll Free: 888.733.3456 | Fax: 303.539.8309 | Toll Free: 888.739 | Toll Free: 888.739

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Cambiador para bebés KB300-SS Ficha de datos técnicos

<u>Color</u>





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Cambiador para bebés KB300-SS Posición cerrada





Cambiador para bebés KB300-SS Posición abierta





Cambiador para bebés KB300-SS Información

<u>Material</u>

Polipropileno moldeado a inyección con aditivo antimicrobiano Microban[®] incorporado en la superficie de la plataforma. Terminación de acero inoxidable tipo 304 bruñido. Mecanismo con bisagra de acero sobre acero y chasis de montaje metálico con tornillería de montaje. Instrucciones de uso etiquetadas y mensajes de seguridad en cuatro idiomas. Etiqueta opcional en Braille disponible. El área de la superficie para cambiar al bebé con contorno es de 535 in2 (3452 cm2) e incluye una correa de seguridad de TPU impermeable y un gancho externo macizo de acero inoxidable para el bolso. El dispensador de protectores de dos cavidades puede alojar hasta aproximadamente 50 protectores para la plataforma KB150-99.

Nota: Para las unidades que cumplen con EN 12221:2008+A1:2013, no se puede proporcionar una correa de seguridad con la unidad. Si necesita uno, se puede pedir por separado P/N 310-44-KIT.

Funcionamiento

El cilindro neumático oculto y el chasis de montaje metálico ofrecen una apertura y un cierre controlados y lentos de la plataforma. El polipropileno es fácil de limpiar y resiste olores y crecimiento bacteriano. Cumple los requisitos de desempeño para cargas estáticas de ASTM cuando está instalado correctamente. El dispensador de protectores interno con lengüeta a resorte integrada dispensa de a un protector por mes.

Advertencia: Para asegurar que la unidad sostenga las cargas previstas, los cambiadores deben instalarse correctamente según las instrucciones del fabricante.

Especificaciones

El cuerpo del cambiador para bebés es de polipropileno resistente moldeado a inyección. El diseño de la unidad es montado en superficie. La superficie frontal de la unidad tiene una terminación de acero inoxidable 304 bruñido. La unidad está equipada con un cilindro neumático para abrir y cerrar la plataforma de manera controlada. La plataforma está fija al chasis de montaje metálico con una bisagra de acero sobre acero oculta. No hay ninguna estructura de bisagra expuesta en las superficies interior ni exterior. La unidad tiene el antimicrobiano Microban[®] incorporado en el material plástico de la superficie para cambiar al bebé. Cuando se instala correctamente, la unidad cumple las normas de la ley ADA. La plataforma tiene un área cóncava para cambiar al bebé con una correa de seguridad y un gancho de acero inoxidable externo para el bolso.

Está previsto que el diseño y la fabricación de los productos Koala cumplan las normas para el diseño accesible de 2010 de la ley ADA e ICC A117.1 Edificios e instalaciones accesibles y utilizables 2009. La unidad cumple la especificación de desempeño estándar en seguridad de ASTM para las mesa para cambiar pañales para uso comercial, F2285-04(16), y de letreros y etiquetas de advertencia de los productos ANSI Z535.4, EN 12221:2008+A1: 2013. La unidad tiene un dispensador de protectores incorporado para utilizarse con protectores biodegradables de 3 pliegues y sin químicos para la plataforma, gráficos instructivos y mensajes de seguridad en 4 idiomas. La unidad cuenta con el respaldo de la garantía limitada del fabricante durante 5 años para material y mano de obra e incluye una disposición para el reemplazo causado por el vandalismo.

La unidad se fabrica en los EE. UU.

Requisitos según la ADA

Hay información adicional sobre las maneras en que este producto cumple con la ADA en el documento titulado *KB300 & KB301 Baby Changing Stations Accessibility Compliance* (Cumplimiento de la accesibilidad de los cambiadores para bebés KB300 y KB301) en **www.koalabear.com**.

Las ilustraciones y las descripciones que se incluyen corresponden a la producción a la fecha de esta ficha de datos técnicos El fabricante se reserva el derecho de hacer modificaciones y mejoras en los diseños y en las dimensiones sin previo aviso cabo de cuando en cuando. JOB COPY

Koala Kare Products Una división de Bobrick

 6982 South Quentin Street, Centennial, CO 80112-3945
 Reveed for compare

 Principal: 303.539.8300 | Llamada gratuita: 888.733.3456 | Fax: 300 and 300 an

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KB300-SS Babywickeltisch Technisches Datenblatt

<u>Farbe</u>

- KB300-01SS Grau
- KB300-05SS Granitweiß



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KB300-SS Babywickeltisch Geschlossene Position





KB300-SS Babywickeltisch Geöffnete Position





KB300-SS Babywickeltisch

<u>Material</u>

Spritzgegossenes Polypropylen mit Microban[®]-antimikrobiellen Zusatzstoffen in der Bettoberfläche. Blende aus gebürstetem Edelstahl CrNi18-8 (1.4310). Verstärkte Stahl-auf-Stahl-Scharniere und Metallchassis mit Befestigungsteilen enthalten. Mit Benutzeranweisungen und Sicherheitshinweisen in vier Sprachen. Optionale Kennzeichnung in Blindenschrift verfügbar. Konturierte Wickeloberfläche misst 3452 cm² und umfasst undurchlässigen TPU-Sicherheitsgurt und externen Beutelhaken aus Edelstahl. Integrierter Auflagenspender, der ca. 50 KB150-99 Hygieneauflagen fasst.

Hinweis: Für EN 12221:2008+A1:2013 konforme Geräte kann kein Sicherheitsgurt mit dem Gerät geliefert werden. Sollten Sie einen benötigen, kann dieser separat bestellt werden P/N 310-44-KIT.

Bedienung

Konstruktion mit verdecktem pneumatischem Zylinder und Metallchassis ermöglicht ein reguliertes, langsames Öffnen und Schließen des Betts. Polypropylen ist pflegeleicht und ist beständig gegen Geruch und Bakterienwachstum. Bei vorschriftsmäßiger Anbringung entspricht die Wickelstation den ASTM-Anforderungen für statische Belastung. Interner Überzugspender mit integrierter federbelasteter Raste spendet pro Betätigung einen Überzug.

Warnung: Um zu gewährleisten, dass die Einheit den beabsichtigten Belastungen standhält, müssen Babywickelstationen gemäß der Herstelleranleitung installiert werden.

Technische Beschreibung

Babywickelstation, robustes, spritzgegossenes Polypropylen. Die Einheit ist zur Aufputzmontage vorgesehen. Die Vorderseite der Einheit ist mit einer Blende aus gebürstetem Edelstahl 304 versehen. Die Einheit ist mit einem pneumatischen Zylinder zum geregelten Öffnen und Schließen des Betts ausgerüstet. Das Bett wird mit einem verdeckten Stahl-auf-Stahl-Scharnier am Metallchassis befestigt. Kein Teil der Scharnierkonstruktion liegt an inneren oder äußeren Oberflächen frei. Der Einheit liegen Befestigungsteile bei. Das Kunststoffmaterial auf der Wickeloberfläche ist mit antibakteriellem Microban®-Schutz ausgerüstet. Die Einheit entspricht bei vorschriftsmäßiger Installation den ADA-Bestimmungen. Das Bett hat einen glatten, konkaven Wickelbereich mit einem Sicherheitsgurt und einem externen Haken für Beutel oder Taschen.

Design und Herstellung der Koala-Produkte erfolgt gemäß den 2010 ADA Standards for Accessible Design und 2009 ICC A117.1, Accessible and Usable Buildings and Facilities. Die Einheit entspricht den folgenden Normen: ASTM F2285-04(16) Standard Safety Performance Specification for Diaper Changing Tables for Commercial Use, ANSI Z535.22 Product Safety Signs and Labels, EN 12221:2008+A1 2013. Die Einheit hat einen integrierten Auflagenspender zur Verwendung mit 3-lagigen, chemikalienfreien, biologisch abbaubaren Hygieneüberzügen, Anleitungsabbildungen und Sicherheitshinweise in 4 Sprachen. Für die Einheit wird eine 5-jährige beschränkte Herstellergarantie für Material- und Herstellungsfehler und eine 5-jährige Ersatzgarantie für Vandalismus gewährt.

Die Einheit wird in den USA hergestellt.

<u>ADA-Anforderungen</u>

Zusätzliche Informationen dazu, wie dieses Produkt die ADA-Anforderungen erfüllt, sind im Dokument *KB300 & KB301 Baby Changing Stations Accessibility Compliance* (KB300 & KB301 Babywickeltische – Erfüllung der Vorgaben für eine barrierefreie Bedienung) auf **www.koalabear.com** zu finden.

Die Abbildungen und Beschreibungen in diesem Datenblatt beziehen sich auf Produkte, wie sie zu dem in diesem technisten Datenblatt angegebenen Datum hergestellt wurden. Der Hersteller behält sich das Recht vor, von Zeit zu Zeit Änderungen und Verkesser (Herben an Konstruktion und an den Abmessungen vorzunehmen. JOB COPY

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 Website: koalabear.com | E-Mail: customerservice@koalabear.com

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DEX-O-TEX PRODUCT DATA



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DEX-O-TEX

Product Description Sheet

Quik-Glaze

Typical Thickness 7-15 mils

Polyaspartic Topcoat



Advanced Floor and Waterproof Systems since 1938

www.dexotex.com

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DESCRIPTION

Dex-O-Tex Quik-Glaze is a state of the art, high solids, Low Odor, and UV stable aliphatic polyaspartic topcoat.

WHERE TO USE

Some typical floor applications include: Cold storage areas, food service preparation areas, beverage service areas, decorative entry foyers, high traffic areas, promenade decks, labs, pharmaceutical production, and areas exposed to chemical use.

ADVANTAGES

- Fast Cure
- Low Odor
- Clear
- High Build
- High Elongation
- High tear strength
- Excellent UV resistance
- Excellent abrasion resistance
- Chemical resistant
- CDPH 1350 approval
- Antimicrobial additive available

FINISH OPTIONS

See Standard Epoxy and Urethane Color Chart available at www.dexotex.com Also available in custom colors with different skid resistant profiles

PHYSICALS	METHOD	RESULTS
VOC in g/L	40 CRF 60 appendix A7 Method 24	Clear Gloss 50 g / L
Percent Solids		95%
Tear Strength	ASTM D624, Die C	879 lbs. / in
Taber Abrasion	ASTM D4060	33 mg loss
Tensile Elongation	ASTM D412	30%
Impact Resistance	ASTM D2794	160 in / lbs.
Tensile Elongation	ASTM D-638	15% at 73 Degrees and 50% RH
Tensile Strength	ASTM D412	2,050 psi
Flexibility	ASTM D1737	passes
Hardness	ASTM D2240 Shore A	85-90
Gloss	ASTM D523	90+ for Clear Gloss
Coefficient of Friction	ASTM D2047	0.67 dry & 0.82 wet
Microbial Resistance	ASTM G21	Passes Raing 1
Dynamic Coefficient of Friction	ASTM A326.3	WAWDROVED
(Wet/Dry)		(.980B000PY
Chemical Resistance	See chemical resistar	nce chart

The above physical properties were measured in accordance with the referenced standards. Results may vary based upon statistical starightions on mixing methods and equipment, application methods, environment, and actual site conditions and curing conditions. All sample preparation are conducted in a laboratory environment and actual performance on job site may vary from these values based on actual site conditions, and actual site conditions are conducted in a laboratory environment and actual performance on job site may vary from these values based on actual site conditions.

Installed by Factory Trained Dex-O-Tex Applicators Only

Crossfield Products Corp.

California 3000 E. Harcourt St. Rancho Dominguez, 90221 (310) 886-9100

Texas 128 Industrial Dr. Cibolo, 78108 (210) 888-0449

New Jersey 140 Valley Rd. Roselle Park, 07204 (908) 245-2800

CARE AND MAINTENANCE

See care and maintenance form available at www.dexotex.com

CHEMICAL RESISTANCE

See chemical resistance chart available at www.dexotex.com

LIMITATIONS

- If sub-surface cracks move due to continued thermal flexing or mechanical loads or building settlement, Dex-O-Tex Quik-Glaze may reflect those cracks to some degree.
- Dex-O-Tex SC Membrane may be used as a waterproofing and crack isolation membrane prior to system application.
- Moisture vapor emission rates (MVER) in excess of 10 lbs/1000 sq/ft/per 24 hr. period per ASTM F1869, or an RH in excess of 84% per ASTM F2170 requires the application of Vapor Control 1P.
- Vapor control primers, sloping, smoothing or leveling compounds, crack repair or isolation, waterproof membranes or other supplementary items may be required for proper installation at an additional cost. Consult with Crossfield Products Corp. for specific recommendations.
- VOC limitations restrict use in some Air Quality Management Districts

WARRANTY

All sales are subject to the Crossfield Terms and Conditions effective on the date the purchase order is received. The Terms and Conditions are incorporated herein in full by this reference. The Terms and Conditions are set forth at (www.dexotex.com) and will also be sent by mail or fax to the purchaser upon request. By placing an order, the Buyer acknowledges that it has read and agrees to the provisions of the Terms and Conditions.

Crossfield Products Corp. assumes no responsibility or liability for any errors or omissions in the content of this document. The information contained is subject to change without notice.

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Tek-Crete SL-B

Urethane Concrete with Sand Broadcast

Product Description Sheet

Typical Thickness 3/16"-1/4"

Advanced Floor and Waterproof Systems since 1938

www.dexotex.com

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Typically used in industrial and institutional service environments including Pharmaceutical, Bio-Tech, Health Care, Food Processing, Beverage, Aerospace, Processing, Electronics and Food Service.

Tek-Crete SL-B is a three-component system consisting of a urethane resin, hardener, and

aggregate. The Material is placed and allowed to self-level, then followed by a broadcast and

ADVANTAGES

DESCRIPTION

required sealer coat.

WHERE TO USE

- Moisture tolerant
- High durability and impact resistant
- Easy to clean oil, grease, and other contaminants
- Excellent chemical resistance
- Environmentally friendly, low odor during installation and cure
- Rapid cure and quick return to service
- Slip resistant
- LEED credit points may be available
- Anti-Microbial properties to fight bacteria, fungi, mold and mildew growth

FINISH OPTIONS

See Dex-O-Tex Epoxy Color Chart or Tek-Crete Sealer CP Color chart depending on selected topcoat.

	Product	Thickness	
Skim Coat (Optional)	Tek-Crete Skim Coat	15 Mils	
Base Coat	Tek-Crete SL	3/16" – ¼"	Substrate Sealer
Aggregate	Aggregate	Varies	Broadcast Age Tek-Crete SL
Sealer	Tek-Crete Sealer CP or Quik-Glaze	Varies	APPROVED JOB COPY
			Reviewed for Code Compliance
			Signed Jane an Microsov

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PHYSICALS	METHOD	RESULTS
VOC in g/L	40 CFR 60, Appendix A-7, method 24	0 g/ L
Compressive Strength	ASTM C579	6,100 psi
Tensile Strength	ASTM C307	1,000 psi
Flexural	ASTM C580	2,000 psi
Hardness	ASTM D2240, Shore D	85-90
Thermal Coefficient of Linear	ASTM C531	1.4 x 10 ⁻⁵
Expansion		
Density	ASTM C905 (lbs. /ft 3)	130 lbs. /ft ³
Water Absorption	MIL-D-3134	0.64%
Flammability	ASTM E648	>1.07 watts/cm ²
Adhesion	ASTM D4541	100% concrete failure
Microbial Resistance	ASTM G21	Passes

The above physical properties were measured in accordance with the referenced standards. Results may vary based upon statistical variations on mixing methods and equipment, application methods, environment, and actual site conditions and curing conditions. All sample preparation and testing are conducted in a laboratory environment and actual performance on job site may vary from these values based on actual site conditions.

CARE AND MAINTENANCE

See care and maintenance form, click here, or available at www.dexotex.com

CHEMICAL RESISTANCE

See chemical resistance chart, click here, or available at www.dexotex.com

SURFACE PREPERATION

- Prepare in accordance with SSPC SP-13 Surface to be free of dirt, dust, grease, oil, paint and any other contaminants.
- Inspect substrate to verify proper preparation before applying any materials.
- New concrete, porous concrete or concrete with elevated moisture content can emit excess moisture off gassing, which can cause pinhole and other defect in the coating during curing. Testing and mitigation should be done to detect this condition before application of the product.

LIMITATIONS

- Not recommended for use over flexible substrates, including plywood, wood, flexible diamond plate, flexible wall panels, etc.
- Withstands moisture levels up to 20 lbs./1000 sq ft/24 hours and up to 99% RH.
- Can be applied to green concrete in 3-5 days once the surface can be mechanically prepped to a CSP of 2-3 per ICRI recommendations.
- Tek-Crete SL-B may vary from the color charts, sample or mockup in texture, profile and final appearance.
- Sloping, smoothing or leveling compounds, crack repair or isolation, waterproof membranes or other supplementary items may be required for proper installation at an additional cost. Consult with Crossfield Products Corp. for specific recommendations.

WARRANTY

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DEX-O-TEX

Product Description Sheet

Flex-Glaze

Wall Coat System Typical Thickness 24 mils

DESCRIPTION

Flex-Glaze is a flexible, high-build, two-component epoxy resin wall coating system coated with a two component polyaspartic topcoat. Flex-Glaze provides a seamless, durable, chemically resistant wall coating solution with exceptional cleanability and aesthetic appeal.

WHERE TO USE

Flex-Glaze is impervious and offers excellent resistance to chemical attack, staining and abrasion. It was designed to be used in clean rooms, bio- and high-tech areas to create an environmental envelop that isolates and contains the contents of the use area.

ADVANTAGES

- Seamless
- UV Stable
- Provides a continuous membrane
- Superior chemical resistance
- Impact resistance
- Anti-microbial additive available
- Flex-Glaze bonds well to any smooth, clean dry and sound substrate, including but not limited to, dry wall, green board, gypsum sheet rock, cement plaster, concrete, plywood, HD particleboard and cement backer board
- LEED Points may be available

FINISH OPTIONS

See Wall Coating Color Chart available at www.dexotex.com

PHYSICALS	METHOD	RESULTS
VOC	40 CRF 60 Appendix A7 Method 24	1 g/L
Compressive Strength	ASTM D695	8,000 psi
Tensile Strength	ASTM D412	1,250 psi
Water Absorption	MIL-D-3134	<.05%
Surface Hardness	ASTM D2250 Shore D	80-85
Adhesion	ASTM D952	Exceeds internal strength of backing system
Mircrobrial Resistance (with additive)	ASTM G21	Passes Rating 1

The above physical properties were measured in accordance with the referenced standards. Results may vary based upon statistical variations on mixing methods and equipment, application methods, environment, and actual site conditions and curing conditions. All sample preparation and testing are conducted in a laboratory environment and actual performance on job site may vary from these values based on actual site conditions.

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CARE AND MAINTENANCE

See care and maintenance form available at www.dexotex.com

CHEMICAL RESISTANCE

See chemical resistance chart available at www.dexotex.com

LIMITATIONS

- If sub-surface cracks move due to continued thermal flexing or mechanical loads or building settlement, Dex-O-Tex Flex-Glaze may reflect those cracks to some degree.
- Moisture vapor emission rates (MVER) in excess of 3 lbs./1000 sq/ft/per 24 hr. period per ASTM F1869, or an RH in excess of 75% per ASTM F2170 requires the application of Vapor Control Primers.
- Vapor control primers, sloping, smoothing or leveling compounds, crack repair or isolation, waterproof membranes or other supplementary items may be required for proper installation at an additional cost. Consult with Crossfield Products Corp. for specific recommendations.
- Concrete block and CMU block require a smooth finish, which can be achieved with an approved Dex-O-Tex block filler prior to placement of the epoxy system.
- In wet spaces, an epoxy block filler must be used prior to the placement of the system.

WARRANTY

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AEC DIMISEABLE PARTITION



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WORLD CLASS OPERABLE WALLS



Established 1957

WORLD CLASS[®] - ALPHA[®] SERIES All welded, all steel panels designed to last the life of your building.





Discover Advanced Equipment's Measurable Performance

- 42 NIC guaranteed when SPECIFIED (ASTM E 336-97)
- One hand operation on 12" (305mm) radius turn tracks
- Proof load testing of panel construction (ASTM E-72)
- Proof load testing of trolley plate anchorage
- 10-year limited warranty that does not exclude "normal wear and tear"
- Low maintenance cost, no replacement cost
 <u>www.advancedequipment.com</u>

Compare ALPHA's features with its competitors:

- 1. 14 ga. (0.075" 1.9mm) steel top rail.
- 2. Minimum 16 ga. (0.060" 1.52mm) steel frame members.
- 3. 16 ga. (0.060" 1.52mm) or 14 ga. (0.075" 1.9mm) steel FACE SHEETS WELDED TO FRAME MEMBERS with max. weld spacing of 8" (203mm).
- 4. 16 ga. (0.060" 1.52mm) steel stiffeners welded to interior surface of panel faces (no gypsum board).
- 5. 1/2 in. (12.7mm) or 3/4 in. (19mm) thick trolley plates welded into top rail. Anchorage withstands 10,000 pound (4545 kg) tensile load applied via pendant bolt.
- 6. 1 in. (25.4mm) thick absorptive sound baffle inside of frame members.
- 7. Fiberglass absorptive fill.
- 8. Mechanical, retractable bottom seals with travel range from 2 inches (51mm) standard to 6 in. (152mm).
- 9. Built-in handle for bottom seal activation*.
- 10. Protective, tongue and groove, extruded aluminum edge trim** with acoustical seals.
- 11. Optional edge trim-finish wraps around vertical edge and is secured under edge trim** that does not overlap panel face.
- 12. Multi-fin, fixed top seal.
- *Individual panel operation
- **Anodized or powder coated

While gypsum board has many uses, it is not a structural material. Buyers may unintentionally be investing in products that have an inherently short life span when accepting wall panels that utilize composite face sheets of thin sheet metal glued to gypsum board and then assembled to welded steel frames. The strength of these panels relies on the strength of the glue-bond between the paper skin and the core of the gypsum board. Contrast the impact resistance and short service life of these panels with ALPHA®, all steel, all welded panels whose life is to be measured in decades.

Front Cover Photo

12 Technologies, Inc. Dallas, TX. ALPHA® panel, curved, electrically operated wall with groups operatels joined to create three wall elements. Wall elements are stacked when stored. Architect: The Lauck Group.

San Francisco Airport Marriott

Installed in August of 1985: Refurbished in June of 2006. Manual and electric operation. All panels reused and provided with new 10 year warranty.

Tracks reused and provided with new extended warranties

Be it ELECTRIC or MANUAL operation, AEC offers a wide range of panel constructions and tracks designed to fit your specific need and budget. For life-of-the-building durability select one of the ALPHA[®] panel constructions.

DWspec™

DWspec[™] provides Architects and Specification Developers with a fully interactive tool for developing operable wall specifications. As a Web-based application, DWspec requires no special software or downloads. DWspec produces one specification for your project even if your project has several walls each with differing characteristics. The user need not be familiar with Advanced Equipment products or their individual characteristics in order to produce a valid, error-free specification.

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Operable Wall Specifications as easy as 1,2,3...



Sheraton, Imperial Ballroom, Seattle, WA. ALPHA® welded steel panels with fabric finish and powder coated trim.



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BuyLine 5292

APROX. THICKNESS. INCHES AND MILLIMETERS (NTS)

Thicker steel used by AEC produces superior panel strength.

	PANEL TYPE	WEIGHT #/SQ. FT	WEIGHT KG/M2	S.T.C.	N.I.C.*	N.R.C.	PANEL THICKNESS	MAXIMUM WIDTH	MAXIMUM HEIGHT	PANEL FACE SHEET	
	S	8.5	41.6	53	42	-	3.5"(89mm)	60"(1.52M)	35FT(10.7M)	16-Ga. Steel or optional 14-Ga.	
H	Т	9.1	44.5	54	42		3.5"(89mm)	60"(1.52M)	35FT(10.7M)	Minimum 16-Ga. Steel	
Р	U	9.7	47.5	53	42	-	4" (102mm)	60"(1.52M)	60FT(18.3M)	14-Ga. Steel	
H	P	12	58.7	49	42	0.65	4" (102mm)	60"(1.52M)	60FT(18.3M)	14-Ga. Perforated Steel	
	X	10	48.9	53	42	-	3.5"(89mm)	60"(1.52M)	35FT(10.7M)	14 or 16-Ga. Steel (1-Hr fire)	
	Α	5.9	28.9	49	40		3.5"(89mm)	54"(1.37M)	24FT(7.3M)	Minimum 20-Ga. Steel	
N	В	6.4	31.3	50	41	-	3.5"(89mm)	54"(1.37M)	24FT(7.3M)	Minimum 20-Ga. Steel	
2	C	6.9	33.8	51	41	-	3.5"(89mm)	54"(1.37M)	24FT(7.3M)	Minimum 18-Ga.	
S	D	7.4	36.2	52	42	-	3.5"(89mm)	54"(1.37M)	24FT(7.3M)	Minimum 18-GAPSKOVED	
								•	-	JOB COPY	
	N.I.C.	* when teste	ed in accord	lance wit	th ASTM H	2 336-97;	Deduct 2 point	s when using 2	ASTM E 336-05	Reviewed for Code Compliance	
	With the exception of "X" (fire rated), all ALPHA and SIGMA panels are suitable for electric operation.								Signed		
	With	the exceptio	on of "X" (fir	re rated),	all ALPH	A and SI	GMA panel con	structions are	available as cu	rved panels.	
	ALPI	IA & SIGM/	A panels are	e one-pie	ce steel we	Idments	with face sheet	s welded to fra	ume.	Permit #	
	Maxir	num heights	s are for ind	lividual _I	oanel oper	ation and	l may be less fo	r hinged group	os or electric op	eration.	

SUPERTRACK[®]-

Advanced Equipment's family of extended warranty tracks produce easy, reliable, long term service with virtually no maintenance. These tracks are furnished with a 5 or 10-year warranty period that does not exclude *normal wear and tear*. Specify tracks #1a, #8 or #8b.



#1a 900-pound trolley capacity Composite track: Aluminum case with CR steel bar running surface. Manual or electric operation. **5-YEAR WARRANTY**



#8 1700-pound trolley capacity Composite track: Aluminum case with CR steel bar running surface. Manual or electric operation. **10-YEAR WARRANTY**



#8b 1500-pound trolley capacity Composite track: Aluminum case with CR steel bar running surface. Manual or electric operation. **10-YEAR WARRANTY**

Custom walls to fit your design needs



COMPANY PROFILE

Engaging in the design, manufacture, installation and service of operable walls throughout its 50-year history, Advanced Equipment Corporation is the most senior Company in this field.

Concurrent with our design and manufacturing experience, Advanced Equipment developed special purpose machinery to facilitate exceptionally high standards of product quality and precision. An obvious further benefit is the production efficiency permitting these superior quality operable walls to be furnished at competitive prices. A. Welded steel frame with factory applied lumber finish: double glazing: manual operation.
B. VISION® rear projection screen shield: electrically operated: microprocessor controlled: synchronous belt drive: welded, curved steel panels: curved track. VISION is coplanar with room wall when extended. Depicted project has field applied wood veneer finish. **C&D.** Curved ALPHA® panels: curved extruded aluminum track: electric operation: powder coated panel trim and track.

E. Electrically operated: curved, welded tubular steel frames with lumber finish: curved aluminum track. Water jet cut aluminum grill with custom powder coat finish.

ADVANCED EQUIPMENT CORPORATION 2401 WEST COMMONWEALTH AVENU FULLERTON, CA 92833 PHONE 714-635-5350 FAX 714-525-6083 WEB SITE: www.advancedequipment.com EMAIL: sales@aecorp.net ADVANCED EQUIPMENT is a registered trademark of the Advanced Equipment.com Copyright 2008 Advanced Equipment Corporation

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OPERABLE WALL LABORATORY TEST REPORT

REFERENCE: WESTERN ELECTRO-ACOUSTIC LABORATORY, INC. REPORT #TL07-591



DESCRIPTION

THE TEST SPECIMEN WAS A FULLY OPERABLE ADVANCED EQUIPMENT CORPORATION **TYPE "E" PANEL** Sigma Series

PROCEDURE

THE PROCEDURES FOR THIS TEST CONFORM TO THE PROVISION AND REQUIREMENTS OF A.S.T.M. E90-04, STANDARD METHOD FOR LABORATORY MEASUREMENT OF AIRBORNE SOUND TRANSMISSION LOSS OF BUILDING PARTITIONS.

RESULTS

THE SOUND TRANSMISSION CLASS RATING DETERMINED IN ACCORDANCE WITH A.S.T.M. E-413 WAS: STC 53

1/3 OCT BND CNTR FREQ TL IN DB 95% CONFIDENCE IN dB	125 36 1.47	160 38 0.89	200 43 0.76	250 46 1.80	315 48 0.52	400 48 .036	500 50 0.38	630 51 0.29	800 52 0.44
	(1)	(2)	(0)	(0)	<u>[(1)</u>	(4)	(3)	(3)	(3)
1/3 OCT BND CNTR FREQ TL IN DB 95% CONFIDENCE IN dB DEFICIENCIES	1000 51 0.38 (5)	1250 53 0.39 (4)	1600 57 0.36 (0)	2000 58 0.56	2500 59 0.55	3150 58 0.31	4000 59 0.32	5000 62 0.50	APPROVED JOB COPY STC Reviewed for States States (200) and an States Sta

SPECIMEN AREA: 126 SQ. FT. TEMPERATURE: 76.3 DEG. F RELATIVE HUMIDITY: 34 % TEST DATE: October 01, 2007

DIGIT 6 - PANEL CONSTRUCTION

SIGMA[®] SERIES E CONSTRUCTION



SIGMA

INCOMBUSTIBLE STEEL, QUALITY, STRENGTH, PERFORMANCE, AND VALUE at competitive prices.

ROBOTICALLY FUSION WELDED

•MINIMUM 16 - GAUGE STEEL FACE.

• FACE SHEET WELDED TO FRAME.

- PROTECTIVE VERTICAL EDGE TRIM or FINISH WRAPPED AROUND EDGE.
- LIGHT WEIGHT.

MANUAL OR ELECTRIC OPERATION.

PANEL HEIGHT: 35' max.

PANEL WIDTH: 54" max. but do not exceed width of finish fabric.

PANEL WEIGHT: 7.9 pounds per square foot.



SPECIFICATIONS

PANEL CONSTRUCTION: Acoustical panel is approximately 3½" inches thick. Panel faces are minimum 16-gauge CR steel sheet. Face sheets are robotically fusion welded to 16-gauge, vertical and 14-gauge, horizontal steel frame members. Steel panel faces are permanently stiffened by steel members welded to interior surfaces. Interior cavity is filled with appropriate sound attenuating material. Panel weight is approximately 7.5 pounds per square foot. Entire perimeter of panel is encased in aluminum alloy trim. Panel is a steel weldment with one-piece face sheets.

ACOUSTICAL PERFORMANCE: Operable wall with this panel construction shall serve as an effective barrier with a sound transmission class rating of 53 S.T.C. based on a full-scale laboratory test in accordance with ASTM-E90 and conducted at a NVLP acoustic laboratory. Certification of such laboratory tests shall be furnished upon written request. Operable wall shall achieve a minimum 40 N.I.C. when field sound tested in accordance with ASTM E-336-05, or 42 N.I.C. with ASTM E-336-97 provided that the surrounding building construction is compatible with this rating.

(detail shows finish wrapped around vertical edge)



cap trim used when seals are track mounted

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DIGIT 4 - TRACK SYSTEM - MANUAL OPERATION

2 TRACK COMPOSITE TRACK STEEL RUNNING SURFACE





2 YEAR WARRANTY

#2 Track is intended for straight runs with Paired panels, or using curves, "y"s, or switches for remotely stored INDIVIDUAL panels.

For use with Panels not exceeding 20' in height.

SPECIFICATIONS

TRACK: Suspension system shall include Advanced #2 composite track consisting of extruded aluminum case and steel running surface. Aluminum alloy track brackets shall interlock with top flange of track and be spaced to limit local track deflection to 0.09 inches. Bracket spacing not to exceed 48" O.C. Brackets attached to structure with pairs of 1/2 inch diameter steel hanger rods. Approximate weight of track system is 6.0#/ Lin. Ft. Track shall have minimum of 2.07 inch-to-the-fourth Moment of Inertia. Independent testing laboratory results shall be supplied to the architect upon request showing that a track/trolley/ bracket/hanger rod assembly sustains a load of 3,000 pounds at midpoint of 42-inch simple span without damage.

TROLLEYS: Trolleys to have four all-steel wheels with sealed prelubricated ball bearings. Pendant bolt to be steel with minimum 5/8" diameter and attached to panel through a steel plate mounted internally with panel frame. Individual trolley capacity is 600 pounds.



DOOR ACCESSORIES



Reviewed for Code Compliance Signed ^{M for EM} Date ______ Permit II ²⁰²⁴⁰¹⁹⁰

Five Knuckle Standard Weight Series

Recommended for standard weight, medium frequency doors, or doors with closing devices.

- Use for common flush door/frame/wall applications
- For Beveled Edge, where doors are beveled on hinge side, specify TA4314 or TA4714
- For available finishes see page 28

No.	ANSI Cross Reference	Base Material	Weight
TA2314	A5112	Stainless	STD
TA2314	A2112	Brass	STD
TA2714	A8112	Steel	STD



Specifications

			No. of	Fast	eners
Inches	mm	Gauge	Holes	Machine	Wood
3 ¹ /2" x 3 ¹ /2"*	88.9 x 88.9	.123	6	¹ / ₂ x 10-24	1 x 10
4" x 4"*	101.6 x 101.6	.130	8	¹ / ₂ x 12-24	1 ¹ / ₄ x 12
4 ¹ / ₂ " x 4"	114.3 x 101.6	.134	8	¹ / ₂ x 12-24	1 ¹ / ₄ x 12
4 ¹ / ₂ " x 4 ¹ / ₂ "	114.3 x 114.3	.134	8	¹ / ₂ x 12-24	1 ¹ / ₄ x 12
5" x 4 ¹ / ₂ "*	127 x 114.3	.146	8	¹ / ₂ x 12-24	1 ¹ / ₄ x 12
5" x 5"*	127 x 127	.146	8	¹ / ₂ x 12-24	1 ¹ / ₄ x 12
6" x 6"*	152.4 x 152.4	.160	10	¹ / ₂ x ¹ / ₄ -20	1 ¹ / ₂ x 14



* Not available in Brass base material.

Options:

Code	Description	Code	Description	Code
NRP	Non-Removable Pin	GT	Grooved Tip*	CC-18
ТВ	Ball Bearing	LT	Lined Tip*	_
ТСА	Concealed Bearing	RT	Round Tip*	
RC	Round Corner – 1/4"	ST	Steeple Tip	ММ
	radius furnished unless specified otherwise	SSF	Safety Stud Feature	QC
HT	Hospital Tip	CC	Concealed Circuit – 4.8. or 12	
вт	Ball Tip		wire available	_
FT	Flat Tip*			

Code	Description
CC-18	Concealed Circuit – 2, 4, 6, 8 or 10 wire available (2-18AWG wires and the remainder 28AWG wires)
мм	Magnetic Monitoring
QC	ElectroLynx® Hinge – 4, 8 or 12 wire available

*Not available on 3-1/2" and 6" sizes

McKinney Hinge Pin Door Stop

- Recommended for high-use or high impact doors with McKinney T2714 or TA2714 hinges
- Protects against damage to doors and walls
- Runs the full length of the hinge

Part number	Description	Finish
76305	Hinge Pin Stop for MacPro MP79 & MPB79	26D
76306	Hinge Pin Stop for McKinney T2714 & TA2714	26D



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Five Knuckle Standard Weight Series

Recommended for standard weight, medium frequency doors, or doors with closing devices.

- Use for common flush door/frame/wall applications
- For Beveled Edge, where doors are beveled on hinge side, specify TA4314 or TA4714
- For available finishes see page 28

No.	ANSI Cross Reference	Base Material	Weight
TA2314	A5112	Stainless	STD
TA2314	A2112	Brass	STD
TA2714	A8112	Steel	STD



Specifications

			No. of	Fasteners	
Inches	mm	Gauge	Holes	Machine	Wood
3 ¹ /2" x 3 ¹ /2"*	88.9 x 88.9	.123	6	¹ / ₂ x 10-24	1 x 10
4" x 4"*	101.6 x 101.6	.130	8	¹ / ₂ x 12-24	1 ¹ / ₄ x 12
4 ¹ / ₂ " x 4"	114.3 x 101.6	.134	8	¹ / ₂ x 12-24	11/4 x 12
4 ¹ / ₂ " x 4 ¹ / ₂ "	114.3 x 114.3	.134	8	¹ / ₂ x 12-24	1 ¹ / ₄ x 12
5" x 4 ¹ / ₂ "*	127 x 114.3	.146	8	¹ / ₂ x 12-24	1 ¹ / ₄ x 12
5" x 5"*	127 x 127	.146	8	¹ / ₂ x 12-24	1 ¹ / ₄ x 12
6" x 6"*	152.4 x 152.4	.160	10	¹ / ₂ x ¹ / ₄ -20	1 ¹ / ₂ x 14



* Not available in Brass base material.

Options:

Code	Description	Code	Description	Code
NRP	Non-Removable Pin	GT	Grooved Tip*	CC-18
ТВ	Ball Bearing	LT	Lined Tip*	_
ТСА	Concealed Bearing	RT	Round Tip*	
RC	Round Corner – 1/4"	ST	Steeple Tip	MM
	radius furnished unless specified otherwise	SSF	Safety Stud Feature	QC
НТ	Hospital Tip	CC	Concealed Circuit – 4.8. or 12	
вт	Ball Tip		wire available	_
FT	Flat Tip*			

Code	Description
CC-18	Concealed Circuit – 2, 4, 6, 8 or 10 wire available (2-18AWG wires and the remainder 28AWG wires)
мм	Magnetic Monitoring
QC	ElectroLynx® Hinge – 4, 8 or 12 wire available

*Not available on 3-1/2" and 6" sizes

McKinney Hinge Pin Door Stop

- Recommended for high-use or high impact doors with McKinney T2714 or TA2714 hinges
- Protects against damage to doors and walls
- Runs the full length of the hinge

Part number	Description	Finish
76305	Hinge Pin Stop for MacPro MP79 & MPB79	26D
76306	Hinge Pin Stop for McKinney T2714 & TA2714	26D



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part without the express written permission of ASSA ABLOY Accessories and Door Controls Group, Inc. is prohibited.
Five Knuckle Heavy Weight Full Mortise Series

Recommended for use on high frequency and/or heavy wood or metal doors in schools, hospitals or other public buildings where heavy traffic is experienced.

- Heavy weight hinges should be used on all extra heavy doors or those exposed to high frequency use
- T4A3386- Stainless steel base or available in brass base material polished
- T4A3786- Steel base material
- For Beveled Edge, where doors are beveled on hinge side, specify T4A4386 or T4A4786
- For available finishes see page 28

Note: 8" x 6" and 8" x 8" have six bearings. Specify T6B3386 or T6B3786.

No.	ANSI Cross Reference	Base Material	Weight
T4A3386	A5111	Stainless	HVY
T4A3386	A2111	Brass	HVY
T4A3786	A8111	Steel	HVY

Specifications

			No. of	Fast	eners
Inches	mm	Gauge	Holes	Machine	Wood
4 ¹ / ₂ " x 4"	114.3 x 101.6	.180	8	¹ / ₂ x 12-24	1 ¹ / ₄ x 12
4 ¹ / ₂ " x 4 ¹ / ₂ "	114.3 x 114.3	.180	8	¹ / ₂ x 12-24	1 ¹ / ₄ x 12
5" x 4 ¹ / ₂ "	127 x 114.3	.190	8	¹ / ₂ x 12-24	1 ¹ / ₄ x 12
5" x 5"*	127 x 127	.190	8	¹ / ₂ x 12-24	1 ¹ / ₄ x 12
6" x 5"*	152.4 x 127	.203	10	¹ / ₂ x ¹ / ₄ -20	1 ¹ / ₂ x 14
6" x 6"*	152.4 x 152.4	.203	10	¹ / ₂ x ¹ / ₄ -20	1 ¹ / ₂ x 14
8" x 6"**	203.2 x 125.4	.203	16	¹ / ₂ x ¹ / ₄ -20	1 ¹ / ₂ x 14
8" x 8"***	203.2 x 203.2	.203	16	¹ / ₂ x ¹ / ₄ -20	1 ¹ / ₂ x 14

* Not available in brass base material.

** Available in steel only.

***Available in stainless steel only.

****FT tips not offered on 6" and 8" sizes, BT and ST not offered on 8" sizes.



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Options:	
Code	Description
NRP	Non-Removable Pin
T4B	Ball Bearing
ТСА	Concealed Bearing
RC	Round Corner – ¼" radius furnished unless specified otherwise
HT	Hospital Tip
BT****	Ball Tip
FT ****	Flat Tip
ST****	Steeple Tip
SSF	Safety Stud Feature
RB	Raised Barrel*
QC	ElectroLynx® Hinge – 4, 8 or 12 wire available
СС	Concealed Circuit – 4, 8 or 12 wire available
CC-18	Concealed Circuit – 2, 4, 6, 8 or 10 wire available (2-18AWG wires and the remainder 28AWG wires)
ММ	Magnetic Monitori
	JOB COPY Reviewed for Code Compliance Signed



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What is PemkoHinge®?

PemkoHinge[®] consists of two full-height, paired and geared leaves. Each geared leaf rotates evenly from top to bottom riding on proprietary polymer blended bearings. The geared leaves and bearings are held together by a full-length channel cap. This assembly retains the smooth, clean lines of the door and frame, while easily supporting heavy vertical loads.

PemkoHinge®

SECURITY, SAFETY, PRIVACY, LOW WEAR AND TEAR

PemkoHinge® Attributes:

- With a continuous hinge, typical alignment problems (such as door sag and binding) are eliminated
- The continuous hinge distributes load stress uniformly along the full length of the door and frame
- The gear design of the continuous hinge ensures symmetrical operation of each leaf
- 1/2 lb. or less operating force required to operate most doors, regardless of size
- Low operating force feature makes continuous hinges ideal for doors used by the physically challenged
- The continuous hinge, when installed on standard steel doors and frames, requires no additional reinforcement. However, hinge preps must have fillers installed for proper operation
- A high degree of security can be achieved for exterior openings or restricted spaces by using a continuous hinge.
 With the geared construction and the full-length channel cap, the common gap between the door and frame is sealed, which provides security against prying
- In addition, the continuous full-height hinge cap protects against pinching fingers in doors in public areas, particularly those where children are present
- Sight proof design of the continuous hinge provides privacy for lavatories, executive offices, or file rooms

PemkoHinge® Superior Design:

- PemkoHinge[®] has increased critical stress points of the hinge leaf extrusions providing additional strengths and rigidity to the completed product
- PemkoHinge[®] bearing design eliminates premature wear, guarantees proper alignment, and requires fewer bearings to carry more weight. The bearing is produced for Pemko using a chemical composition and injection process that provides a stronger, more accurately formed bearing
- PemkoHinge[®] is designed with inter-meshing gear segments in the hinge which provide 50% more bearing surface resulting in less wear
- PemkoHinge[®] goes through the anodizing process after completing all machining. This means the machined aluminum surfaces that are in direct contact with the bearing have a smoother, harder surface, thereby reducing wear
- PemkoHinge[®] maintains uniform bearing spacing for the full length of the hinge even when lengths exceed 10'
- PemkoHinge[®] uses #12-24 size fasteners with #10 head (#12 Tek fasteners available upon request)
- PemkoHinge[®] commercial models are ideal for use on lead lined doors (i.e. hospital X-ray rooms), without requiring special screw locations

How To Order (Hinge Part Designations)

Finishes		Hinge Type	25	Lengths	Hinge Op	tions	Capacity	ý
BL	Black Anodized	FM	Full-Mortise	79	"blank"	Standard	"blank"	Standard Duty
С	Clear Anodized	FS	Full-Surface	83	СР	Center Pivot	HD1	Heavy Duty, Grade 1
D	Dark Bronze Anodized	HS	Half-Surface	85	RG	Raised Gear	HD3	Heavy Duty, Grade 3
G	Gold Anodized	RS138	Full-Mortise Residential: 1 ³ /8"	95	SF	Safety		
PW	Painted White	RS175	Full-Mortise Residential: 1 ³ / ₄ "	120	SL	Short Leaf (residential on	ly)	
SN	Satin Nickel Anodized	SPFM	Special Full-Mortise		SLF	Short Leaf Flush		
		WT_FM	Wide Throw Full-Mortise		SLI	Short Leaf Inset		
		WT_HS	Half-Surface					



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Example: D| SPFM | 85 | SLI | HD1

BHMA Certification Program

This program was developed to establish product classifications through performance testing. Three grades (1, 2 and 3) of product classifications were established for continuous hinges, with three weight groups (150, 300 and 600) for each grade: Grade 3 being the lowest and Grade 1 being the highest classification. Each classification and weight group has a set of established cycle requirements and wear characteristics, with a minimum for vertical and lateral wear to establish a listing under a weight and grade classification, after the set number of cycles is completed.

Maximum Vertical Wear Allowable:

Grade 3 = 0.105"

Grade 2 = 0.030"

Grade 1 = 0.020"

Maximum Lateral Wear Allowable:

All Grades = 0.062"

Cycle requirements range from Grade 3-600 requiring 100,000 cycles through Grade 1-150 requiring 2.5 million cycles.

For more information on certification testing or other product certification programs, please contact Pemko Customer Service.

Cycle Requirements - Per BHMA Standard ANSI/BHMA A156.26-2012

- Standard Duty Hinges (excluding _RS175 & _RS138) conform to Grade 3-150 and Grade 3-300
- HD3 Hinges conform to Grade 3-150, Grade 3-300, and Grade 3-600
- HD1 Hinges conform to Grade 2-150, Grade 1-300, and Grade 1-600
- 1100 Series and X-Series Hinges conform to Grade 1-150

Weight Bearing - Per BHMA Standard ANSI/BHMA A156.26-2012

- This information pertains to all commercial models
- Heavier weight can be carried; please contact Customer Service for applications other than those listed in the chart
- Special hinge reinforcements are not required as hollow metal door and frame manufacturers' standard are acceptable. Removal of hinge reinforcements in the door and frame is not advised. Hinge preps must have fillers installed

UL Fire Labeled $1^{1/2}$ & 3 Hour

- All models designated with these symbols are tested and certified by Underwriters Laboratories Inc.[®] (U.S.A. and Canada) to standards UL10B, UL10C and UBC7.2 (positive pressure) for a 1¹/₂-Hour Fire Listing for all 4'0" x 10'0" and 8'0" x 10'0" door and frame assemblies. Fire listing certifications apply to all approved hollow metal and wood door assemblies in drywall or masonry wall construction
- Special FirePins[™] are only required on 3-Hour assemblies. Please refer to page 95 for illustrations and information regarding the application of Pemko FirePins[™]
- All hinges are supplied with standard fastener kits. Replacement kits/individual fasteners may be purchased separately
- TEK/TORX fasteners may be purchased separately. Full-mortise hinges require 40 each; half-surface hinges require 20 each; full-surface hinges require 12 each
- All half-surface and full-surface hinges are supplied with a snap cover for the door leaf. Replacement snap covers may be purchased separately
- Rain caps may be purchased separately

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APPROVED



A special modification is available for certain hinges which

provides a Hospital Tip Cap at the top of the gear cap, leaving

no opening. A 45° angled cut on the gear cap and leaf covers

provides a safe environment for hospitals and correctional

Hospital Tip

facilities.



Full Mortise Hinges

• Full-Mortise units are designed mainly for new door applications and are applied to the frame rabbet and door edge to conceal both leaves

Full Mortise

_FM

STANDARD FINISHES: C, D





Full Mortise Short Leaf Inset

- Designed for use with doors which range between 1³/₄" to 2¹/₄"
- Designed for use with hollow metal doors and frames where the inset conforms to S.D.I. specifications for aligning doors and frames

_**FM_SLI** STANDARD FINISHES: **C**, **D**





Full Mortise Short Leaf Flush

- Designed for use with doors which range between $1^{3/_4^{\prime\prime\prime}}$ to $2^{1/_4^{\prime\prime\prime}}$
- Also used for bifold applications to keep the faces of the doors flush (not illustrated)

_FM_SLF

STANDARD FINISHES: C, D





OPTIONAL FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart) BL (Black Anodized) G (Gold Anodized) PW (Painted White) and SN (Satin Nickel) are special finishes available upon request.

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ASSA ABL

Automatic Flush Bolts No. 2840 (Automatic Top Bolt Only) No. 2842 (Set) (replaces the No. 1840 and No. 1842)

Material:	Brass, stainless steel	rass, stainless steel				
Finishes:	US3, US4, US10, US10B, U	JS3, US4, US10, US10B, US26, US26D, US32D				
Fastener:	astener: No. 2842: 20 ea. #8 x ³ /4" FH combo screws, 2 ea. #6 - 8 plastic anchors No. 2840: 10 ea. #8 x ³ /4" FH combo screws. NOTE: No plastic anchor required for top only					
Features:	 For Fire Rated Metal Doors labeled A, B, C, D & E up to 4'w x 8'h Non-handed Fully automatic- opening active door retracts top and bottom bolts Override feature prevents damage to doors or bolts if bolt heads are blocked from entering strikes Bolt head rods are adjustable up to 11/2" Thermal lock automatically locks the inactive door under high heat conditions due to fir 			l from ns due to fire		
Options:	No. 2842 can be used wit	h the No. 570 Dust Pro	of Strike (shown on page E4).			
No.	Size	Weight	ANSI A156.3			
2840	1" x 6 ³ /4"	1.2 lbs.	Type 25			
2842	1" x 6³/4"	2.4 lbs.	Type 25			

Combination Flush Bolts No. 2805 (Self Latching Top Bolt Only) No. 2845 (Set) (replaces No. 1805 and No. 1845)

Material:	Brass, stainless steel			
Finishes:	US3, US4, US10, US10B, US26, US26D, US32D			
Fastener:	Top: 8 ea. #8 x ³ /4" FH combo screws. NOTE: No plastic anchor required for top only. Bottom (No. 2845 only) 18 ea. #8 x ³ /4" FH combo screws, 2 ea. #6 - 8 plastic anchors.			
Features: • For Fire Rated Metal Doors labeled A, B, C, D & E up to 4'w x 8'h				
	 Top Bolt Automatically engages inactive door stays latc button on the bolt face 	when the inactive door hed at the top until the	closes. When the active do top bolt is released by pres	por is opened, the ssing the plunger
Bottom Bolt (No. 2845 only) • Non-handed				
 Fully automatic — opening active door retracts bottom bolt 				
	 Override feature prevents damage to door or bolt if bolt head is blocked from entering strike 			
	 Bolt head rod is adjusta 	ble up to 11/2"		
	 Thermal lock automatic due to fire 	cally locks the inactive o	loor under high heat condi	tions
Options:	No. 2845 can be used wit	h the No. 570 Dust Pro	of Strike (shown on page E4	·)
No.	Size	Weight	ANSI A156.3	Ser Charles
2805	1" x 6 ³ /4"	1.2 lbs.	Type 27	APPROVED
70 /E	11 62/1	2.41		IOR COPY



ROCKWOOD

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800-458-2424 | www.rockwoodmfg.com Check the web site for the up-to-date catalog





Lever Extension Flush Bolt With Bottom Fire Bolt No. 557 x 19BFB

Material:	Flush bolt – brass Bottom fire bolt – stainless steel			
Finishes:	shes: Available in standard architectural finishes (see page 9)			
Fastener:	7 ea. #8 x ³ /4" FH combo screws 4 ea. #8 - 32 x ¹ /2" FH MS 4 ea. #8 counter sunk washer			
Features:	 For Fire Rated Plastic & Wood Cover 4'w x 9'h rated up to 20 minutes ³/₄" bolt throw, ³/₄" backset; door stree When door is subjected to 230°F the allowing the bolt to project, locking Bottom fire bolt eliminates need for Oversize fire bolt strike hole allows 	red Fire Doors measuring up to ngth maintained by corner reinforcing plate e plug and black plastic cover will melt g the leaves together or floor prep for slight door misalignment		
No.	Size	Weight		
557 x 19BFB	Top bolt: 1"x6³/₄" Bottom bolt: ¹³ /16" dia.	0.9 lbs.		

Dust Proof Strike No. 570

Material:	Brass	Brass			
Finishes:	Available in standard architectural f	inishes (see page	9)		
Fastener:	Adjustment nut Spanner wrench 2 ea. #8 x 1 OH SMS, 2 ea. plastic and 2 ea. #8 - 32 x ³/4" OH MS, 2 ea. lead a	chors nchors			
Features:	 Works with all Rockwood manual Removable face plate for use with Adjustable height for carpeted are 	and automatic flu thresholds eas	ish bolts		
No.	Size	Weight	ANSI A156.16		
570	Face plate: 1³/s" x 2 ⁷ /s" Barrel: ⁷ /s" dia.x 2" depth	0.4 lbs.	L04021		



Gravity Door Coordinator No. 576

7"

No.	Size P	rojection	Weight	Code Compliance Signed_Signed_		
Features:	Non-handed reve inactive door is cl	rsible. Prevents t osed	he active door fro			
Other:	 For use on door with Astragal of with Astragal of with Astragal of with Astragal of The overlap of the hinges. Custom 	 For use on door sizes: with Astragal on active door – 18" to 48" with Astragal on inactive door – 18" to 34" with Astragal on both doors – 18" to 30" The overlap of the astragal is maximum ⁷/₈" with door hung on standard hinges. Customer must contact the factory for all other astragal what 				
Fastener:	Body: 2 ea. #10 x 1 Strike: 5 ea. #8 x 1	Body: 2 ea. #10 x 1" FH SMS, 2 ea. #10 - 24 x 1" FH MS Strike: 5 ea. #8 x 1" FH SMS				
Finishes:	Available in stand	Available in standard architectural finishes (see page 9).				
Material:	Cast brass	Cast brass				



576

1" x 5⁷/16"

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2.2 lbs.

Type 21

E4

Product Catalog



7800/8200 Series Mortise Locks



Certifications*

8200/R8200/	7800 Se	ries Mort	ise Locks

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Certification Compliance

ANSI/BHMA BHMA	Certified to ANSI/BHMA A156.13 Series 1000 Operational Grade 1 and Security Grade 1 with all standard trims. Note: LFIC (Removable) Cylinders and SFIC Cylinders do not meet Security Grade 1 requirements.
ADA 🛃	Meets A117.1 Accessibility Code. Meets BOMA International 4.13.8 Complies with American Disability Act; Consult local authorities
UL-cUL	UL and cUL Listed to US and Canadian safety standards for A label 4 x 10 single and 8 x 10 double (3 hour fire door) and lesser class doors, stamped letter F and UL symbol on armored front indicate listing
Positive Pressure	Meets ANSI/UL 10C, Positive Pressure Fire Test of Door Assemblies
California	California State Reference Code (Formerly Title 19, California State Fire Marshal Standard) All levers with returns comply; levers return to within 1/2" (13mm) of door face
Tornado and Hurricane Codes Hurricane	See below

Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and Sargent Manufacturing Company makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire rated opening, or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official (Authority Having Jurisdiction) to ensure compliance with all applicable codes and ratings.

Windstorm Certifications: Florida Building Codes & UL Listings

SARGENT Manufacturing's products meet building codes that require hurricane, windstorm and FEMA certifications, including some of the most stringent building codes as specified in the Florida Building Code, Miami Dade Code and the International Building Code. Listed below are certifications and standards met by the 7800/8200 lock.

Florida Building Code: FL2998 UL Certification Directory: ZHEM.R21744 – Latching Hardware

ANSI/SDI A250.13	"Testing and Rating of Severe Windstorm Resistant Components for Swinging Door Assemblies"
ASTM E330	"Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference"
ASTM E1886	"Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials"
ASTM E1996 (2009)	"Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors and Impact Protective Systems Impacted by Windborne Debris in Hurricanes"
(TAS) 201	"Impact Test Procedures"*
(TAS) 202	"Criteria for Testing Impact and Non-Impact Resistant Building Envelope Components Using Uniform Static Air Pressure"
(TAS) 203	"Criteria for Testing Products Subject to Cyclic Wind Pressure Loading"*

UL Certification Directory: ZHLL.R21744 - Products for Use in Windstorm-rated Assemblies

Certifications to meet assembly requirements are done in conjunction with doors from ASSA ABLOY Group companies CECO DOOR and CURRIES.

ASTM E330	"Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference"
ANSI/ASTM E1886	"Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials"
ASTM E1996	"Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors and Impact Protective Systems Impacted by Windborne Debris in Hurricanes"

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* Any undated reference to a code or standard appearing in this catalog shall be interpreted as referring to the latest edition of the action of the latest edition of the lates

** Published in the 7th Edition (2020), "Florida Building Code" (FBC), State Product Approval Number FL2998

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Features

8200/R8200/7800 Series Mortise Locks

The patented SARGENT Mortise Locks are designed and constructed with high quality components to provide maximum security, performance and durability. These locks represent over a century of innovation and experience in manufacturing hardware and are the industry's benchmark for mortise locks: strong, durable, flexible, innovative and secure.

Specifications

- For Doors 1-3/4" (44mm) thick standard
- Backset 2-3/4" (70mm) only
- Outside Front Plate Brass, bronze or stainless steel. 8" (203mm) x 1-1/4" (31mm), ANSI/BHMA Standard A156.115
- Front adjustable at any angle from flat to beveled 1/8" (3mm) in 2" (51mm)
- Hubs for Knobs/Levers
 - 7800: sintered iron copper infiltrated
 - 8200: cold forged steel
 - R8200: investment cast steel
- Auxiliary Deadlatch is stainless steel and non-handed
- Specify hand on order; easily field reversible (if no hand is specified RH will be provided)
- Strike: Brass, bronze or stainless steel; ANSI Standard; curved lip, non-handed (strike box optional)
- Keys: Two, nickel silver (control key or emergency key must be ordered when required)
- Cylinder: Brass, size #41 (1-1/8") standard (except for Freewheeling, size #46 (1-3/4"))
- Can be masterkeyed or grand masterkeyed. Construction keying available. LA standard keyway
- Stile: 4-1/2" (114mm) minimum stile for 7800/8200/R8200, 4-3/4" (121mm) minimum stile for electrical function locks
- Door Prep: ANSI/BHMA A156.115 or A156.115W modified per template (see template)
- Warranty: 10 year limited warranty, 2 year limited warranty on electrified locks. Warranty limited to replacement of lockbody and/or components

Maximum Strength & Durability

- Sargent 8200 Series UL Cycle above and beyond test completed at 16 Million Cycles. Verification ID: V584148
- Certified to and exceeds ANSI/BHMA A156.13, Series 1000, Operational Grade 1 and Security Grade 1 with all standard trims
- Exceeds cycle testing requirements by 14 times the ANSI/BHMA A156.13 Grade 1 standard
- Case: 12 gauge heavy duty wrought steel, zinc dichromate plated. Thickness 7/64" (3mm) (.109")
- 1/8" (.125") cold-rolled steel inside front holds lock securely in door
- Heavy duty wrought steel hubs and high carbon steel spring cartridge provide superior strength and cycle life for 8200 locks
- Latchbolt is stainless steel with 3/4" (19mm) projection one-piece, anti-friction reversible latch
- Deadbolt is one-piece hardened stainless steel with 1" (25mm) projection
- Optional 8200 stainless steel hubs for Institutional setting (specify 3- option)
- Patent pending and/or patent www.assaabloydss.com/patents





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Features

8200/R8200/7800 Series Mortise Locks

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Maximum Flexibility

- Fast and easy installation. Lock is easily re-handed without removing parts or opening the lock case
- Aesthetic design. Many escutcheon and lever styles available to match a wide range of styles
- Many standard architectural grade finishes, including Polished Nickel (US14) & Satin Nickel (US15) finishes
- 54 functions including 4 electrical functions. The most in the industry for a broad range of applications
- Versatile. Offered for door thicknesses ranging from 1-3/8" (35mm) to 6" (152mm)
- Available with vandalism deterrent trim and/or secure fastener options Torx® and spanner screws for high abuse conditions
- Available with push/pull trim, perfect for hospital applications
- Status indicator options provide peace of mind on the locked/unlocked status of a door

Innovation

- First in the industry to offer a multi-functional lockbody that embodies 8 functions in 1 lockbody
- Easy operation. Only 30° of lever rotation required to retract latchbolt
- Lever springs contained inside of the lock case for easier installation
- SARGENT's revolutionary MicroShield[®] available. This antimicrobial silver-based finish coating permanently suppresses the growth of bacteria, algae, fungus, mold and mildew. EPA and NSF approved and FDA listed
- Broad offering of electro-mechanical configurations offer higher security for the most demanding access/egress control applications featuring ElectroLynx[®] quick connectors

Security

- Multiple security trim options available: free-wheeling, security escutcheon and anti-vandal pull trim
- Security key systems available (Degree, Signature, Keso, Keso F1, & XC)





Features

8200/R8200/7800 Series Mortise Locks

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Note: R8200 and 8200 lockbodies are dimensionally the same except for the through-bolt locations

Explanation of the 8200/7800 Lockbody types:

Lockbody Type¹	Trim Available x Lockbody type	Standard 8200 Door Prep	Through Bolted Trim	Multi-function lockbody available	How to order lockbody only
8200	Lever x Rose/Escutcheon	Yes	Yes	Yes	82 x Function x Finish ³
7800	Knob x Rose/Escutcheon	Yes	Yes	Yes	78 x Function x Finish ³
R8200	Simplí™ roseless trim	No	Yes ²	Yes	R82 x Function x Finish ³
8200 for ALP	ALP Push/Pull Trim	Yes	Yes	Yes	Six Digit Part # determined by function*
7800 PT	PT Push/Pull Trim	Yes	Yes	Yes	Six Digit Part # determined by function*

¹ Lockbodies can only be used with the specified trim

² Through Bolt locations are different from standard trim, special door prep required

³ Note: Cylinder and trim not included. Outside front, strike and screw pack are included

* See Price book; Note: Outside Fronts, Strikes, Cylinders and Trim are NOT included



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7800/8200 Series Mortise Locks

Applications

7800/8200 Series indicators can be used in a variety of applications and are most commonly used to identify occupancy or display the locked/unlocked status of a room.

- Restrooms
- Quiet rooms
- Nursing mother's rooms
- Classroom doors



Features

- Inside, outside or both sides of the door
- Sectional or escutcheon trim
- Available with 35 different functions including thumbturn functions
- Viewing window 25% larger than competition
- Patented curved design for viewing at multiple angles
- Window located prominently above the cylinder
- Highly reflective viewing window for increased safety

Functions

• Indicators are available with the following 7800 and 8200* Series functions. See pages 19-28 for details.

• Optional directional engraving available -

• Retrofitable for existing applications

must specify handing

05	37	52
12	38	56
20	39	57
21	40	58
22	41	59
24	42	65
25	43	66
26	45	67
28	46	68
29	47	NAC-PHR-82281
30	50	NAC-PHR-82285
36	51	

* Indicators can retrofit to 8200 series mortise locks manufactured from the year 2002 to present.



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7800/8200 Series Mortise Locks

Sectional Trim

- Surface mounted
- Torx security screws provided
- Compatible with select sectional trim rose designs: O, LN, E, TR, CR, CO, TO, E2, E3
- Compatible with all thumbturn designs
- Available with optional directional arrow engraving
- Not compatible with BHW, BHL, or BHD trims

Specify option code when ordered with lock. See page 35 for indicator codes.



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Retrofit/Upgrade Kits

Retrofit/upgrade kits are available for existing applications only. Each kit includes single side indicator plate with mechanism, screw pack, plastic template and instructions.

To order retrofit/upgrade kits only, specify by model number below based upon function and mounting location. Door thickness and indicator option code must also be specified with kit.

Kits are handed and easily field reversible. All units are shipped from the factory with a default handing. Handing must be field verified and adjusted as needed per product installation instructions.

Retrofit/upgrade kits with directional engraving must include lock handing and lock function details.

See page 36 for how to order examples. Note: Indicators for both sides of door require two kits.

	Model #	Used with Functions	Available Option Codes	Indicator Location*	
	SA190	20, 21, 22, 24, 25, 26, 28, 29, 30, 39, 40, 41, 43, 45, 46, 47, 50, 51, 52, PHR-NAC-82281	Outside Trim: V10, V20, V30, V40, V50,		
	SA191	36, 56, 57, 58, 67	V60	Inside and/or Outside per Function	
Ĺ	SA192	05, 37, 38, 42, 59	V04, V06		
	SA193	65, 66, 68	V10, V20, V30, V40, V50, V60	Outside	
	SA194	21, 24, 25, 28, 43, 45, 47, 50, 51, 66, 68, PHR-NAC-82281, PHR-NAC-82285			
	SA196	12, 56, 57, 58, 65, 67	V01, V03, V04, V06	Inside	
Ű	SA198	05			
	SA197	12, 30, PHR-NAC-82285	Outside Trim: V10, V20, V30, V40, V50, V60 Inside Trim: V01, V03, V04, V06	Inside or Outside per Function	

*When indicators are required on both sides of the door, 2 upgrade kits must be ordered, one kit for each side.

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7800/8200 Series Mortise Locks

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Escutcheon Trim

- Unique escutcheon (VN1) for both inside and outside of door for indicator functions
- Non-indicator functions provide with standard escutcheons as ordered, i.e. LE1, LE2, LE3, LE4, LW1,
- LS or WTThrough-bolted
- Torx security screws optional
- Compatible with all thumbturn designs
- Available with optional directional arrow engraving
- Not compatible with select knob/lever designs: C, MK, MT, H001, H002, H003, H004, H005, H006, H007, H008, H009, H010, H011

Specify option code when ordered with lock. See page 35 for indicator option codes.



Complete trim kits are available to retrofit/upgrade existing applications.

Trim kit includes levers and escutcheons with mechanism for both sides of door, screw pack, door marker and instructions.

To order trim kit only, specify by adding option code IS and the indicator option code (see pg. 35 for codes) to the complete order string. The IS option code will be used for all trim kits for the VN1 escutcheon with indicators. Both inside and outside will be supplied.

Option Code	Functions
IS	All functions*

*Escutcheon indicator trim kits available for all functions as listed on page 32

Note: Escutcheon applications require both sides of the door to have the unique VN1 escutcheon. Kits will be provided as a set.

How to Order Example

Option Codes	Function	Esctucheon	Lever	Door Thickness	Hand	Finish
IS-V04-	8256*	VN1	L	1-3/4″	RH	26D

* The function of the existing lock is required so the proper escutcheons can be provided.

Office & Inner Entry Lock x escutcheon trim x inside indicator - Unlocked/Locked – Red/White x trim only.



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7800/8200 Series Mortise Locks

Indicator Option Codes

7800/8200 Series indicator option codes are designed to convey wording, color and side of door desired in one simple code. To order, specify option code for complete locksets and/or retrofit/upgrade trim kits.



Single Indicator					
Option Code	Outside Wording	Inside Wording	Color		
V10	Unlocked/Locked	No Indicator	Green/Red		
V10F	Ouvert/Fermé	No Indicator	Green/Red		
V20	Vacant/Occupied	No Indicator	Green/Red		
V20F	Libre/Occupée	No Indicator	Green/Red		
V30	Icons Only	No Indicator	Green/Red		
V40	Unlocked/Locked	No Indicator	White/Red		
V50	Vacant/Occupied	No Indicator	White/Red		
V60	Icons Only	No Indicator	White/Red		
V01	No Indicator	Unlocked/Locked	Green/Red		
V01F	No Indicator	Ouvert/Fermé	Green/Red		
V03	No Indicator	Icons Only	Green/Red		
V04	No Indicator	Unlocked/Locked	White/Red		
V06	No Indicator	Icons Only	White/Red		
	Double In	dicator	·		
Option Code	Outside Wording	Inside Wording	Color		
V11	Unlocked/Locked	Unlocked/Locked	Green/Red		
V11F	Ouvert/Fermé	Ouvert/Fermé	Green/Red		
V21	Vacant/Occupied	Unlocked/Locked	Green/Red		
V21F	Libre/Occupée	Ouvert/Fermé	Green/Red		
V33	Icons Only	Icons Only	Green/Red		
V44	Unlocked/Locked	Unlocked/Locked	White/Red		
V54	Vacant/Occupied	Unlocked/Locked	White/Red		
V66	Icons Only	Icons Only	White/Red		
	Engra	ving	AND CANE		
Option Code	Outside	Inside	Wording		
EMA	Engraving	No Engraving	"Lock" with arowy		
EMB	No Engraving	Engraving	"Lock" Rewitt Brarrow		
EMC	Engraving	Engraving	"Lock" switth arrow		

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7800/8200 Series Mortise Locks

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Engraving Options

- Laser engraving with "LOCK" and directional arrow
- Only available in the following finishes: 3, 4, 14, 15, 26, 26D, 32, 32D
- Available with MicroShield[®]
- Door handing must be specified

Option Code	Description
EMA	Engraving located on outside of door
EMB	Engraving located on inside of door
EMC	Engraving located on inside and outside of door

Note: Engraving is available as an option for all functions when ordered with an indicator. Option codes must be specified with complete lock and/or retrofit (upgrade) kits/trim. EMC is not available with sectional trim upgrade kits.



How to Order Examples

Complete with Lock

Sectional Trim

Option Code	Function	Rose	Lever	Hand	Finish
V04	8238	0	L	RH	26D

Escutcheon Trim

Option Code	Function	Escutcheon	Lever	Hand	Finish
V54 x EMB	8265	VN1	L	RH	26D

Privacy Bedroom/Bath function x escutcheon trim x double indicator - Vacant/Occupied – Red/White (Outside) Unlocked/Locked – Red/White (Inside)

Retrofit (Upgrade)/Trim Kit Only

Sectional Trim*

Option Code	Option Code Model #		Finish	
V04	SA190	1-3/4″	26D	

Keyed function indicator for sectional trim x single indicator inside – Unlocked/Locked – Red/White

* When indicators are required on both sides of the door, 2 upgrade kits must be ordered, one kit for each side.

All units are shipped from the factory with a default handing. Handing must be field verified and adjusted as needed per product installation instructions.

Escutcheon Trim

Option Codes	Function	Esctucheon	Lever	Door Thickness	Hand	Finish	OF CAPE
IS-V04-	8256**	VN1	L	1-3/4″	RH	26D	
							APPROVE

Office & Inner Entry Lock x escutcheon trim x inside indicator - Unlocked/Locked – Red/White x trim only. ** The function of the existing lock is required so the proper escutcheons can be provided.



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7800/8200 Series Mortise Locks

Sectional Trim Only Indicators

The following indicators are available with sectional trim only and have different features and options than the indicators found on pages 32-36. To order the following sectional indicators with locksets, specify option codes 49- or 50-.

49- Option Visual Status Indicator for Non Secure Applications	Inside Only
 Designed to work with Classroom security functions Red/White indicator plate standard Mounts on inside of door Functions and Roses available: 30, 36 & 37 Functions with 7800, 8200 and R8200 locks, CR. L. LN. TR. E & O Roses 	1850
 - 26, 29, 38, 39, 40 and 41 Functions with 7800, 8200, and R8200 locks & LN Roses Only As retrofit, order 185C x finish 49- Option Occupancy Indicator with Emergency Release 	1050
 Ideal for restrooms or conference rooms where easy determination of use needs to be made OCC/VAC indicator plate standard Mounts on outside of door Emergency coin operated release standard Functions and Roses available: 65, 66, 68 Functions with 7800, 8200, and R8200 locks, CR, E, L, LN, O & TR Roses As retrofit, order 185P x finish 	8 • • • • 185P

50- Option Secured Indicator Rose

- Non-handed with lever and mounting posts field reversible
- VAC/OCC indicator plate standard
- Mounts on outside of door
- Available for the following functions: 24, 25, 26, 28, 29, 30, 36, 37, 38, 39, 40, 41, 43, 45, 50, 51, 52, 57, 58, 67 with Rose Trim only
- Patent pending and/or patent www.assaabloydss.com/patents
- Not available with Roseless trim (R8200)
- For retrofit, order 185S x suffix x finish:

Suffix	Door Thickness
-1	1-3/8" (35mm)
-2	1-3/4" (44mm)
-3	2" (51mm)
-4	2-1/4" (57mm)

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Note: For 49- and 50- Options, key will not retract latch when used with 37 and 38 functions

CO



Reviewed for Code Compliance Signed ______ 19/16/2024 Date ______ Permit #______



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Thumbturn Designs

8200/R8200/7800 Series Mortise Locks

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130KB Round Backplate





- Round backplate supplied standard with L, O, LN roses and R8200 roseless trim
- Standard turn automatically supplied with sectional trim for R8200 & 8200 locks
- Specify T1, T2 or T3 as an option for decorative turns
- 1-1/2" (38mm) round brass or stainless steel plate
- Meets ADA Requirements

130KT Traditional Backplate





- Dual radii edge backplate supplied standard with TO and TR roses
- Standard turn automatically supplied with sectional trim for R8200 & 8200 locks
- Specify T1, T2 or T3 as an option for decorative turns
- 1-3/4" (44mm) round brass plate
- Meets ADA Requirements

130LB Large Round Backplate (Shown with Large ADA Turn)



- Available with R8200 & 8200 with sectional trim
- 40% larger than standard thumbturn
- Specify LB as an option for ADA turn
- ٠ 2" (51mm) round brass, zinc, or stainless steel plate & turn
- 130LT Traditional backplate, 130LC Contemporary backplate
- Meets ADA Requirements

126 T-Turn (7892 function only)



- 2-3/16" (56mm) round stainless steel backplate
- 2-3/8" (61mm) tall thumbturn
- Available in brass or bronze finishes only
- Surface mounted with three screws
- Order as "SST" trim with 7892 function

130KA Square Backplate



- Square backplate supplied standard with E, E2, E3 or E4 roses
- Standard turn automatically supplied with sectional trim for R8200 & 8200 locks
- Specify T1, T2 or T3 as an option for decorative turns
- 1-1/2" (38mm) round brass or stainless steel plate •
- Meets ADA Requirements

130KC Contemporary Backplate



- Beveled edge backplate supplied standard with CO and CR roses
- Standard turn automatically supplied with sectional trim for R8200 & 8200 locks
- Specify T1, T2 or T3 as an option for decorative turns
- 1-3/4" (44mm) round brass or stainless steel plate
- Meets ADA Requirements

130KBHA Turn for use with 8200 Mortise BHW, ALP, BHL and BHD Trim



- 3-3/4" x 2-1/2" rectangular shape
- Stainless steel housing
- Meets ADA and OMH Requirements

130W Round Backplate

(Shown with Standard Turn)



- Used with 7800 with sectional trim
- 1-1/2" (38mm) round brass or stainless steel plate



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Emergency Releases & Accessories

8200/R8200/7800 Series Mortise Locks

Emergency Releases

184KB Emergency Release (used with R8200 & 8200 with sectional trim)



- 1-1/2" (38mm) round brass, bronze or stainless steel plate
- For 65, 66 and 68 functions only

Studio Collection Emergency Release

- 184KC Emergency Release Contemporary
- 184KT Emergency Release Traditional

184KA Emergency Release (used with E rose)



- 1-1/2" (38mm) square brass, bronze or stainless steel plate
- For 65, 66 and 68 functions only

184KBHA Emergency Release (used with BHW, ALP, BHL and BHD trim)



- 3-3/4" x 2-1/2" rectangular shape
- Stainless steel housing
- Meets ADA and OMH Requirements

184W Emergency Release (used with 7800 with sectional trim)



• 1-1/2" (38mm) round brass, bronze or stainless steel plate

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• For 65, 66 and 68 functions only

Emergency Key 14-0057



- Carbon steel
- For 65, 66 and 68 functions only
- Must be ordered separately

130KBCVR Cap



- Thumbturn plate
- Covers hole in door when thumb turn is no longer needed

Trim One Side Kit Refer to page 51 for a complete list of kits

82-4023 Cap



- 2" round
- Covers hole for levers and roses

Door Thickness	Part Number
1-3/8"	82-4022
1-3/4"	82-4023
2"	82-4024
2-1/4"	82-4025





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Cylinder Lengths (Dim X)

Cylinder No.	41	42	43	44	46	48	50	52	54	56
Dim X Length Under Cylinder Head	1-1/8" (29mm)	1-1/4" (32mm)	1-3/8" (35mm)	1-1/2" (38mm)	1-3/4" (44mm)	2" (51mm)	2-1/4" (57mm)	2-1/2" (64mm)	2-3/4" (70mm)	3" (76mm)

40 Series Type Cylinder



- Cap: Brass, bronze or stainless steel All functions take a Standard Cam Functions
- Standard Cam 13-0664
- 16 & 92 Inside Cam -105
- 50 Hotel Cam -115 supplied standard with all Hotel Function Cylinders

7850/8250 Function Hotel Cylinder



- When door is locked by deadbolt, only emergency key is able to unlock
- Must request emergency key separately (7268EMK x reg #)
- Supplied with Cam suffix -115 for Hotel Functions



10- Option Signature Series

- The protected system offers the building owner full control over duplication of keys. Highly pick-resistant cylinders
- 10-63- Option Signature cylinder with Large Format Interchangeable Cores

F1-82- and 82- Option KESO



11- Option XC Key System



DG1, DG2, DG3 -**Degree Series**



- The system offers the building owner full control over duplication of keys
- Highly pick-resistant cylinders
- Expanded levels of masterkeying
- F1-83- & 83- Option Keso removable core
- 84- Option Keso construction core cylinder
- Key system works with existing SARGENT keyway adding increased security
- 11- XC standard cylinder
- 11-63- Large format interchangeable core
- 11-73- Small format interchangeable core
- Utility patented, bump resistant and requires the use of a patenteed key
- All three locking mechanis within the same system to be operAPPROVIED just one key JOB COPY
- See Degree Key System Gatalog for available options Signed _____

Not all cylinder series offered in sizes listed above, for complete cylinder information, see Cylinders & Components, Degree, Signature, Keso, Keso F1 or XC catalogs.



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- 78- Option Exposed Barrel
 - Standard for use only with SARGENT Escutcheon Trims KE3, KE4, LE3, LE4
 - Available 6-Pin standard or 7-Pin optional NOT available with 50-, 60-, 70- or other specialty or higher security options
 - See function table for cam required
 - Not available in 50 function
 - Plug finishes: 4, 15 (similar to 26 finish)

124 Series Mortise Cylinder Turn Lever

- Turn lever: Brass, bronze or aluminum
 - Cap: Brass, bronze or stainless steel
- Must be ordered separately





Cylinders & Rosettes

8200/R8200/7800 Series Mortise Locks

51- Option Old Style Removable Core



- Available for existing systems only Permanent Removable Cores
- Control key used to remove core, must request control key separately

60- or 70- Option Plastic Construction Core



- For doors that do not require key locking during the construction period • Operate with coin or flat screw driver
- For use with LFIC (removable) (60-
- Option) or SFIC (70- Option) core

63- Option Large Format Interchangeable (Removable) Core

- Allows immediate removal of the core. Virtually unlimited key changes
 - Available 10-63-, 11-60-, 11-63- & 11-64-
 - For disposable core, see 60- Option
 - 64- Option- LFIC 6-Pin construction core Control key used to remove core, must request control key separately

7300B Interchangeable Core



- Small Format Interchangeable Core (SFIC)
- SARGENT Interchangeable Core cylinders and MasterKey Systems are available for increased security through quick change of keying. It is unnecessary to remove a cylinder
- SARGENT 7300B Interchangeable Cores are available in SARGENT 4A and 4B keyways, as well as the following standard competitor keyways: A, B, C, D, E, F, G, H, J, K, L, M
- For disposable core, see 70- Option
- 65-73 Option 6-Pin SFIC uncombinated
- 65-73-7P Option 7-Pin SFIC uncombinated
- 70- Option Disposable SFIC
- 72- Option Construction SFIC
- 11-72- Construction core provided for use with 11-7300 cylinder housing 11-70- temporary plastic core prepared to accept 11-7300 core
- 73- Option 6-Pin SFIC, SARGENT 4A, 4B keyways
- 73-7P Option 7-Pin SFIC, SARGENT 4A, 4B keyways
- Control key used to remove core (ordered separately)

1SB Cylinder Collar

- Standard for 7800 BHD, 8200 BHL & BHW mortise locks
- Stainless steel
- 1-29/32" diameter
- Available in 4 sizes
- Projection from door:
- 5/16" (8mm) 1SB-1
- 7/16" (11mm) 1SB-2 9/16" (14mm) 1SB-3
- 1SB-4 11/16" (16mm)
- Finishes: 32, 32D

21- Option Lost Ball Construction System

• The SARGENT construction keying system protects the building owner by providing temporary masterkeying during the construction period

1KB Rosette with 8200 & R8200 sectional trim



- Used with mortise cylinders and No. 90 blocking rings when cylinders project from door
- Furnished standard with L, O, LN, CO, CR, TO and TR roses
- Brass, bronze or stainless steel
- 1-1/2" (38mm) diameter, includes compression sprina
- Finishes: 3, 4, 10, 10B, 10BE, 10BL, 20D, 26, 26D, 32, 32D, BSP, WSP
- Projection from door:

1KB-1 5/16" (8mm) — Standard 7/16" (11mm) 9/16" (14mm) 1KB-2 1KB-3

11/16" (16mm) 1KB-4

1KA Rosette with 8200 sectional trim

- Used with mortise cylinders
- Furnished standard with the E. E2. E3 and F4 roses Brass, bronze or stainless steel
 - 1-1/2" (38mm) Square, includes compression spring
- Projection from door:
 - 5/16" (8mm) Standard 7/16" (11mm)
 - 1KA-4 11/16" (16mm)
- Finishes: 3, 4, 10, 10B, 10BE, 10BL, 20D, 26, 26D, 32, 32D, BSP, WSP

No. 97 Rosette



- Standard for cylinders ordered separately from hardware
- Standard for 7800 knob mortise & 4870 deadbolt
- Brass, bronze or stainless steel
- 1-11/16" diameter (43mm), 9/32" (7mm) projection, includes compression spring
- Finishes: 3, 4, 10, 10B, 10BE, 10BL, 20D, 32, 32D, BSP, WSP

No. 90 Blocking Ring



- Used with 1KB rosettes as spacer when mortise cylinder projects from face of door Brass, bronze or stainless steel
- Finishes: 3, 4, 10, 10B, 10BE, 10BL, 20D, 26, 26D, 32, 32D, BSP, WSP

1KB-5 Cylinder Retaining Cap



- Required for double cylinder functions on LS Escutcheon only JOB COPY
- Steel or stainless steel
- 1-15/32" (37mm) diameter Con
- 9/16" (14mm) projection
- Finishes: 3, 4, 9, 10, 10B, 10BE, 10BL, 20D, • 26, 26D, 32, 32D, BSP, WSP



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1KA-1 1KA-2

- 9/16" (14mm) 1KA-3



Rosette Requirements & Cams

8200/R8200/7800 Series Mortise Locks

Single Cylinder

Sectional Trim (CO, CR, L, LN, O, PT, SL, SN, TO, TR)

Culinday Size	Door Thickness					
Cylinder Size	1-3/8"	1-3/4"	2"	2-1/4"		
41	1KB-2	1KB-1	1KB-1	N/A		
42	1KB-3	1KB-2	1KB-2	1KB-1		
43	1KB-4	1KB-3	1KB-3	1KB-3		

Sectional Trim (E, E2, E3, E4)

Culindan Sina	Door Thickness					
Cylinder Size	1-3/8"	1-3/4"	2"	2-1/4"		
41	1KA-2	1KA-1	1KA-1	N/A		
42	1KA-3	1KA-2	1KA-2	1KA-1		
43	1KA-4	1KA-3	1KA-3	1KA-3		

Escutcheon Trim (CE, KE1, KE2, KW1, LE1, LE2, LW1, TE)

Culindan Sina	Door Thickness				
Cylinder Size	1-3/8"	1-3/4"	2"	2-1/4"	
41	1KB-1	Cylinder Only	Cylinder Only	Cylinder Only	
42	1KB-2	1KB-1	Cylinder Only	Cylinder Only	
43	1KB-3	1KB-1	1KB-1	Cylinder Only	

Escutcheon Trim (WT)

Culindan Sina	Door Thickness					
Cylinder Size	1-3/8"	1-3/4"	2"	2-1/4"		
41	97	Cylinder Only	Cylinder Only	Cylinder Only		
42	1SB-2	97	Cylinder Only	Cylinder Only		
43	1SB-3	97	97	Cylinder Only		

Specialty Hardware (BHW, BHL, BHD, ALP)

Culindar Siza	Door Thickness					
Cylinder Size	1-3/8"	1-3/4"	2"	2-1/4"		
41	1SB-2	1SB-1	1SB-1	N/A		
42	1SB-3	1SB-2	1SB-2	1SB-1		
43	1SB-4	1SB-3	1SB-3	1SB-3		

Sectional and Escutcheon Trim with V Series Indicators

Culinalan Cina	Door Thickness						
Cylinder Size	1-3/8"	1-3/4"	2"	2-1/4"			
41	Cylinder Only	Cylinder Only	N/A	N/A			
42	1KB-1	Cylinder Only	Cylinder Only	N/A			
43	1KB-2	1KB-1	Cylinder Only	Cylinder Only			

	Culindan Cine	Door Thickness						
	Cylinder Size	1-3/8"	1-3/4"	2"	2-1/4"			
	41	1KB-1	Cylinder Only	N/A	N/A			
	42	1KB-1	1KB-1	Cylinder Only	N/A			
	43	1KB-2	1KB-1	1KB-1	Cylinder Only			

Cylinder Cams For Mortise Locks

SARGENT Conventional Cylinders

• Standard



Std Cam (13-0664) for all functions except for 50 and the Inside cam for 16 &

92 function

locks



(13-0665) 50 Function Hotel Cam, supplied with 50 function cylinders

SARGENT	Large	Format	Interchangeable	Core	Cylinders

- 6300 Cams are factory installed and are not removable
- 6300 Cams are not sold separately
- Specify required Cam as a suffix: 63-44-105 cam

(C O)

I/S Cylinder

• For Standard Cam: no suffix is required



Std 6300 Cam for all functions except for 50 and the Inside cam for 16 & 92 function locks

 $\bigcirc \mathbb{C}$ -105 Cam -115 Cam for 6300 Series 16 & 92 function

for 6300 Series 50 (Hotel) function, supplied with 50 function cylinders



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Double Cylinder

Cylinder	Door Thickness				
Size	1-3/8"	1-3/4"	2"	2-1/4"	
41	1KB-3	1KB-2	1KB-1	N/A	
42	1KB-4	1KB-3	1KB-2	1KB-1	
43	97-0352	1KB-4	1KB-3	1KB-2	

Cylinder	Door Thickness					
Size	1-3/8"	1-3/4"	2"	2-1/4"		
41	1KA-3	1KA-2	1KA-1	N/A		
42	1KA-4	1KA-3	1KA-2	1KA-1		
43		1KA-4	1KA-3	1KA-2		

Culindar Siza		Door T	hickness	
Cylinder Size	1-3/8"	1-3/4"	2"	2-1/4"
41	1KB-2	90 1/8	Cylinder Only	Cylinder Only
42	1KB-3	1KB-2	1KB-1	Cylinder Only
43	1KB-4	1KB-3	1KB-2	90 1/8

Cylinder Door Thickness				
Size	1-3/8"	1-3/4"	2"	2-1/4"
41	1SB-2	97	Cylinder Only	Cylinder Only
42	1SB-3	1SB-2	97	Cylinder Only
43	1SB-4	1SB-2	1SB-2	97

Cylinder	Door Thickness					
Size	1-3/8"	1-3/4"	2"	2-1/4"		
41	1SB-3	1SB-2	1SB-1	N/A		
42	1SB-4	1SB-3	1SB-2	1SB-1		
43	1SB-4	1SB-4	1SB-3	1SB-2		

See Cylinder catalogs for additional information

16 & 92

Function

Cylinder

Inside

Cam



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ADA and Handicap Warning

8200/R8200/7800 Series Mortise Locks

ADA and Handicap Warning

Lever Return to Door



Standard Thumbturn

1-3/8 (35mm)

Turn

- Lever designs H002, H005, H006, H016, J, L, MX, MW, MZ, ND, NF, NJ, NS, NU, P
- Lever returns within 1/2" (13mm) of door face or less
- Meets ADA Compliance for national codes



- Complete lever abrasive coated
- Milled 1/16" Grooves: Options 75-, 76- & 77-
- B, E, J, L, P and W Levers Grooves on backside surface of lever
- F Lever Grooves on top and bottom surface of lever

Tactile Handicapped Warning



- Knurled B & C Knobs available ; options 75-, 76-, & 77-
- Knobs are NOT ADA compliant

LB - Thumbturn



Meets the tougher local ADA requirements

• Meets ADA Compliance for

130KT, 130W or 130KA x finish

• Order as: 130KB, 130KC,

See page 38 for design

national codes

- 40% larger than standard thumb turn
- Order as: 130LB, 130LC or 130 LT x finish

See page 38 for design



- Large key bows are available in Sargent C family of keyways
- Standard key bows can have attachments added to increase the grip area
- Keys are NOT ADA compliant



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Mechanical Options

8200/R8200/7800 Series Mortise Locks

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Available mechanical options by lock type

Mechanical Options:

Categories	How to Specify	Detailed Description	8200	R8200	7800
1-3/8" Door	1-	1-1/16" (27mm) wide front for 1-3/8" (35mm) doors (not available with RX-Option) (1- for 93 + 94 function is a special order)	Х		Х
Add Strength	3-	Stainless steel hubs with in the mortise lock	Х		_
	23-	4-7/8" (124mm) ANSI flat lip strike	Х	Х	Х
Strike Option	OBS-	Open back strike	Х	Х	Х
	WBS-	Wrought box strike	Х	Х	Х
Thick Doors	31-	For doors 1-7/8" (48mm) to 2-1/4" (57mm) thick — see cylinder options for limitations on door thickness. When ordering the following information is required: Location of lock within the door, door thickness -IF PANELED -must specify panel thickness & panel location (inside or outside of the door) For doors thicker than 2-1/4" — consult factory.	х	х	х
Security	36-	6 Lobe head security screws (Torx [®] type)	Х	—	Х
Fasteners	37-	Spanner head security screw (not available with Studio levers)	Х	—	Х
	49-	Visual Status Indicator or Occupancy indicator with emergency release (not available with escutcheon trim)	Х	х	х
	50-	Secured indicator rose (available with rose trim only)	Х	—	Х
	V10	Single Indicator Outside - Unlocked/Locked - Green/Red	Х	—	Х
	V20	Single Indicator Outside - Vacant/Occupied - Green/Red	Х	_	Х
	V30	Single Indicator Outside - Icons Only - Green/Red	Х	—	Х
	V40	Single Indicator Outside - Unlocked/Locked - White/Red	Х		Х
	V50	Single Indicator Outside - Vacant/Occupied - White/Red	Х		Х
	V60	Single Indicator Outside - Icons Only - White/Red	Х	_	Х
	V01	Single Indicator Inside - Unlocked/Locked - Green/Red	Х	_	Х
	V03	Single Indicator Inside - Icons Only - Green/Red	Х	_	Х
	V04	Single Indicator Inside - Unlocked/Locked - White/Red	Х	_	Х
Visual Indicators	V06	Single Indicator Inside - Icons Only - White//Red	Х	_	Х
	V11	Double Indicator - Unlocked/Locked - Green/Red (Outside) Unlocked/Locked - Green/ Red (Inside)	Х	_	х
	V21	Double Indicator - Vacant/Occupied - Green/Red (Outside) Unlocked/Locked - Green/ Red (Inside)	х	_	х
	V33	Double Indicator - Icons Only - Green/Red (Outside) Icons Only - Green/Red (Inside)	Х		Х
	V44	Double Indicator - Unlocked/Locked - White/Red (Outside) Unlocked/Locked - White/ Red (Inside)	Х		х
	V54	Double Indicator - Vacant/Occupied - White/Red (Outside) Unlocked/Locked - White/ Red (Inside)	Х	—	х
	V66	Double Indicator - Icons Only - White/Red (Outside) Icons Only - White/Red (Inside)	Х	—	Х
	EMA	Outside Engraving with "Lock" and Directional Arrow	Х	—	Х
	EMB	Inside Engraving with "Lock" and Directional Arrow	Х	—	Х
	EMC	Engraving Both Sides with "Lock" and Directional Arrow	Х	—	Х
	V10F	Single Indicator Outside - Ouvert/Fermé - Green/Red	Х	—	Х
	V20F	Single Indicator Outside - Libre/Occupée - Green/Red	Х	—	Х
Visual Indicators -	V01F	Single Indicator Inside - Ouvert/Fermé - Green/Red	Х	—	X
French	V11F	Double Indicator - Ouvert/Fermé - Green/Red (outside) Ouvert/Fermé - Green/Red (inside)	Х		Х
	V21F	Double Indicator - Ouvert/Fermé - Green/Red (outside) Libre/Occupée - Green/Red (inside)	Х	COF CARE	Х

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* Available on 15, 26D, and 32D Finishes only

** Not available in combination



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Mechanical Options

8200/R8200/7800 Series Mortise Locks

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Categories	How to Specify	Detailed Description	8200	R8200	7800
	DX-	Deadbolt monitoring — Monitor deadbolt position (not available with LX-)	Х	Х	Х
	LX-	Latchbolt monitor — Monitors latchbolt position (not available with deadbolt functions)	Х	Х	Х
Electrical Options	RX-**	Request to Exit — Monitors each lever independently (not available with LB-option)	Х	Х	Х
	TL-	SARGuide illuminated inside WT trim with the word EXIT illuminated (4-1/2" pocket depth required)		—	_
Lever/Knob	68-	8200 Lock furnished w/lever handle outside x knob inside (not available with the AV-Option or FE Trim)	Х	—	
Combination	69-	8200 Lock furnished w/lever handle inside x knob outside (not available with the AV-Option or FE Trim)	Х	—	—
Lead Lining	74- ²	Lead lining or wrapping available with sectional trim only (not available with DX-or LX- Options)	х	_	х
Lead Lining	75-	Factile Warning — Milled levers or knurled knobs. Inside trim only (not available with Studio & Coastal levers, the A lever & K, N & D knobs)		_	х
	76-	Tactile Warning — Milled levers or knurled knobs. Outside trim only (not available with Studio & Coastal levers, the A lever & K, N & D knobs)	х	—	х
Tactile Warnings	77-	Tactile Warning — Milled levers or knurled knobs. Inside & outside trim (not available with Studio & Coastal levers, the A lever & K, N & D knobs)	Х	—	Х
	85- ³	Tactile Warning — Abrasive coating inside trim only (not available with D knobs)	Х	Х	Х
	86- ³	Tactile Warning — Abrasive coating outside trim only (not available with D knobs)	Х	Х	Х
	87- ³	Tactile Warning — Abrasive coating inside & outside trim (not available with D knobs)	Х	Х	Х
Anti-Vandal Trim	AV-	Anti-Vandal pull trim (not available with LS & FE trim and Options 1-, 31-, 49-, 50-, 68-, 69-, 76-, 77-, 86-, 87-, DX-or SG-)	х	—	х
Einich Protection	CPC-	Clear Powder Coat (available for 32 & 32D finishes)	Х	Х	Х
Finish Frotection	SG-1	MicroShield® antimicrobial clear powder coat	Х	Х	x x x x - - - - x x x x x x x x x x x x
	LB-	ADA Extra large thumbturn; backplate matches rose design chosen	Х	Х	Х
Thumbturns	T1-	Decorative thumbturn; backplate matches rose design chosen	Х	Х	_
(See page 38)	T2-	Decorative square thumbturn; backplate matches rose design chosen	Х	Х	—
	Т3-	Decorative cylinder thumbturn; backplate matches rose design chosen	Х	Х	_

1 Available on 15, 26D, and 32D Finishes only

2 Not available in combination

3 Entire lever surface provided with abrasive coating

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Cylinder Options

Cylinder Options:

Categories	How to Specify	Detailed Description	Cylinder Sizes Available
Conventional Cylinder		SARGENT Conventional Cylinders supplied standard	41-44,46,48,50,52,54,56
	DG1-	SARGENT Degree Key System Level 1 (bump resistant with patented keys)	41-44, 46
	DG1-21-*	Degree Level 1 Construction Master Keying	41-44, 46
	DG1-60-	Degree Level 1 Removable Disposable Construction Core	41-44, 46
	DG1-63-	Degree Level 1 Removable Core	41-44, 46
	DG1-64-	Degree Level 1 Removable Construction Keyed LFIC	41-44, 46
	DG1-65-*	Degree Level 1 Unassembled/Uncombined Core	41-44, 46
	DG1-78-*	Degree Level 1 Exposed Plug (for use with LE3/LE4 escutcheons only)	41-43
	DG2-*+	SARGENT Degree Key System Level 2 (geographically exclusive; bump and pick resistant)	41-44, 46
Dama Kau Castan	DG2-21-*	Degree Level 2 Construction Master Keying	41-44, 46
Degree Key System	DG2-60-*	Degree Level 2 Removable Disposable Construction Core	41-44, 46
	DG2-63-*	Degree Level 2 Removable Core	41-44, 46
	DG2-64-*	Degree Level 2 Removable Construction Keyed LFIC	41-44, 46
	DG2-65-*	Degree Level 2 Unassembled/Uncombined Core	41-44, 46
	DG3-*+	SARGENT Degree Key System Level 3 (geographically exclusive; UL437 certified; bump and pick resistant)	41-44, 46
	DG3-21-*	Degree Level 3 Construction Master Keying	41-44, 46
	DG3-60-*	Degree Level 3 Removable Disposable Construction Core	41-44, 46
	DG3-63-*	Degree Level 3 Removable Core	41-44, 46
	DG3-64-*	Degree Level 3 Removable Construction Keyed LFIC	41-44, 46
Signature Key System	10-*	SARGENT Signature Key System (not available with other key systems)	41-44,46,48,50,52,54,56
	10-21-*	SARGENT Signature Construction Key System (Lost Ball)	41-44,46,48,50,52,54,56
Signature Large Format Interchangeable Core (Removable Core)		SARGENT Signature LFIC (removable) Core Cylinder	42, 43, 44 & 46
NC Key Sustan	11-*	XC Key System (not available with other key systems, unless specified)	41-44,46,48,50,52,54,56
XC- Key System	11-21-*	XC- Construction Key System (Lost Ball)	41-44,46,48,50,52,54,56
	11-60-*	Hardware to accept XC- Permanent LFIC (removable core), disposable plastic core provided	42, 43, 44 & 46
XC- Large Format Interchangeable Core (Removable Core)	11-63-*	Hardware provided with XC- LFIC (removable core) cylinder (Includes masterkeying, grand masterkeying)	42, 43, 44 & 46
· · ·	11-64-*	Hardware provided with keyed construction core to accept XC- LFIC (removable) permanent core ordered separately	42, 43, 44 & 46
	11-70-7P-*	Hardware to accept XC- SFIC (7-Pin) XC- permanent cores, disposable plastic core provided	43 & 46
XC- Small Format Interchangeable Cores	11-72-7P-*	Hardware to accept XC- SFIC (7-Pin keyed construction core provided) cylinder permanent core ordered separately	43 & 46
	11-73-7P-*	Hardware provided with XC- Small format 7-Pin interchangeable core (Includes masterkeying, grand masterkeying)	43 & 46
	11-65-73-7P-*	Hardware provided to accept XC- Uncombinated 7-Pin SFIC (permanent) core (packed loose)	43 & 46
Construction Key	21-*	SARGENT Lost Ball Construction keying for conventional, XC and Signature Series (N/A with 63- or 73-)	-
System	22-*	SARGENT Construction Split Key System for conventional cylinders (existing systems only) (N/A with 10-, 11-, 63- or 73-)	
Old Style	51-*	Removable core cylinder (Old style) provided (existing systems only)	142,143 144,146
Old Style Removable Core	52-*	Removable construction core (Old style) permanent core ordered separately (existing systems only)	142,143,144,146

* Options not available with 50 function lockout cylinder

+ Not available with R8200 Series

Note: Interchangeable core and removable core cylinders do not meet Security Grade 1 requirements

JM for EM

10/16/2024 Date

Permit # 2



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Cylinder Options 8200/R8200/7800 Series Mortise Locks

Cylinder Options:

Categories	How to Specify	Detailed Description	Cylinder Sizes Available
Large Format	60-	Hardware to accept SARGENT permanent LFIC (removable core), disposable plastic core provided (permanent cores ordered separately)	42, 43, 44 & 46
Interchangeable Core	63-	Hardware provided with LFIC (removable core) cylinder - (Includes masterkeying, grand masterkeying)	
	64-	Hardware provided with Keyed construction core to accept LFIC (removable) permanent core (ordered separately)	
	70-*	Hardware to accept 6- or 7-Pin SFIC permanent cores, disposable plastic core provided	43 & 46
	72-*	Hardware to accept 6- or 7-Pin SFIC (keyed construction core provided) cylinder (permanent core ordered separately)	43 & 46
	73-*	73-* Hardware provided with 6-Pin SFIC (Includes masterkeying, grand masterkeying)	
Small Format Interchangeable Cores	65-73-*	Hardware provided to accept uncombinated 6-Pin SFIC (permanent) core — (packed loose for field keying)	
	65-73-7P-*	.7P-* Hardware provided to accept uncombinated 7-Pin SFIC (permanent) core — (packed loose for field keying)	
	73-7P-*	Hardware provided with Small Format 7-Pin interchangeable core (Includes masterkeying, grand masterkeying)	43 & 46
	81-*	Hardware provided with housings to accept Keso (83) & Keso F1 (F1-83-) removable cores (permanent cores ordered separately)	172-174,176
	82-	Hardware provided with SARGENT Keso security cylinder	71-74,76
Kana & Kana E1	F1-82-	Hardware provided with SARGENT Keso F1 security cylinder (patented)	71-74,76
Keso & Keso I I	83-*	Hardware provided with SARGENT Keso security removable core cylinder	172-174,176
	F1-83-*	Hardware provided with SARGENT Keso F1 security removable core cylinder (patented)	172-174,176
	84-*	Hardware provided with SARGENT Keso construction cores (permanent cores ordered separately)	172-174,176
Additional Security	BR-	Bump resistant cylinder (available with conventional & conventional XC cylinders only)	
Less Cylinder	LC-	Less cylinder – SARGENT supplies standard blocking rings for 1-1/8" cylinders (for longer cylinders order collars/rings separately)	_
Schlage	SC-*^	Schlage C keyway cylinder, 0 bitted	#41 Only
Keyways	SE-*^	Schlage E keyway cylinder, 0 bitted	#41 Only

^ Options not available with Freewheeling Trim

* Options not available with 50 function lockout cylinder

Note: When using Interchangeable Core Cylinders, the ANSI/BHMA Cylinder Grade determines the grade of the lock, even if the lock is certified ANSI/BHMA Grade 1 with a standard cylinder

Cylinder Length	SARGENT Cylinder Sizes	Keso Cylinder Sizes	Keso R/C Cylinder Sizes	
1-1/8"	#41	#71	N/A	
1-1/4"	#42	#72	#172	
1-3/8"	#43	#73	#173	OF CAR
1-1/2"	#44	#74	#174	6
1-3/4"	#46	#76	#176	APPRO
2"	#48	N/A	N/A	JOB CO
2-1/4"	#50	N/A	N/A	Reviewed for
2-1/2"	#52	N/A	N/A	Code Compliance
2-3/4"	#54	N/A	N/A	10/16/2024 Date
3"	#56	N/A	N/A	Permit #

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SARGENT ASSA ABLOY

How To Order, Finishes, Packaging & Security Screw Chart

8200 Series Mortise Locks

How to Order 8200, R8200 & 7800 Series Mortise Locks

10-	82	71	12VDC	TR	MJ	15	RHR
Options*	Series	Function	Voltage	Roses/ Escutcheons	Trim	Finish	Hand
For all available options see Pages 45-48	82 R82 78 Mortise Lock	Pages 19-28 for Details	12VDC 24VDC	Pages 10-13 (With R8200, specify "R" for roseless design)	Levers — Pages 8-12 FW Trim — Page 14, Push/Pull Trim — Page 18, Knobs — Page 15		RHR
						Dama 40	RH
			Must be specified for Functions 70, 71, 72 & 73			Fage 49	RH LHR
							LH

* Multiple options can be selected

Finishes

Standard Levers & Knobs	BHW Trim	BHL Trim	BHD Trim	Studio Collection Lever Trim	8200 Coastal Series™ Trim and 8200 Freewheeling Trim	7800 Push/Pull Trim	Description	ANSI/ BHMA
03				03	03	03	Polished brass, clear coated	605
04				04	04	04	Satin brass, clear coated	606
09				09	09	09	Polished bronze, clear coated	611
10				10	10	10	Satin bronze, clear coated	612
10B				10B	10B	10B	Oxidized bronze, oil rubbed	613
10BE				10BE	10BE		Dark oxidized satin bronze, equivalent	(613E)
10BL				10BL	10BL		Oxidized satin, bronze, clear coated	614
14				14	14		Polished nickel, clear coated	618
15 *				15 *	15 *		Satin nickel, clear coated	619
20D				20D	20D		Statuary dark bronze, clear coated	624
26				26	26		Polished chrome	625
26D *				26D *	26D *		Satin chrome	626
32	32	32	32	32		32	Polished stainless steel	629
32D *	32D *	32D *	32D *	32D *		32D *	Satin stainless steel	630
BSP				BSP	BSP		Black suede powder coat	_
WSP				WSP	WSP		White suede powder coat	_

* MicroShield® — optional designate SG- option (Available on 15, 26D, and 32D Finishes only)

Split Finishes — specify outside finish first, then inside finish example: US26D (outside) / US04 (inside)

6 Lobe & Spanner Bit packs

Part Number	Descriptions
82-3855	6 Lobe Bit Pack 6 bits
82-3856	(sizes- T8, T9, T10, T15, T20, T25, T27) 9/32" Driver Spanner Bit Pack 5 bits (sizes- 6, 8, 10, 12, 14) 1/4" Driver

Packaging

8205 x LNL	approx. 6.1 lbs. (2.7kg)/box	6 boxes/case
8205 x WTL	approx. 7.2 lbs. (3.1kg)/box	6 boxes/case

Door Handing



Wrought Box Strike optional — must order With a strike optional — must order With a strike optional — must order With a strike option and the strike strike

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Coastal Series Roses & Escutcheons





CR Contemporary RoseBeveled edge



TE Traditional Escutcheon



CE Contemporary Escutcheon



Standard Roses

L Rose



3-1/2"

(89mm)

3-1/16" (78mm)

> 3-1/2" (89mm)



LN Rose

BH Rose

O Rose



E Rose



_____ 5/16" (8mm)

5/16"

(8mm)

5/16" (8mm)







5/16"

(8mm)

5/16"

(8[']mm)

2" (51mm)

3" (76mm)



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Permit # 20

Coastal Series[™] & Standard Levers

8200 Mortise Locks

Coastal Series (8200 & R8200 Series)

Features

- All levers meet ADA compliance for national codes
- Not available with CO and TO roses
- Levers are solid cast brass
- Finishes available 3, 4, 9, 10, 10B, 10BE, 10BL, 14, 15, 20D, 26, 26D, BSP, WSP
- All lever height (+/- 1/16") measurements represent total distance from door face



Standard Levers (8200 Series Only)

Features

- All levers meet ADA compliance for national codes
- Solid forged or cast
- Lever designs J, L and P have lever returns within 1/2" (13mm) or less of door face and
- meet California State Reference Fire Code
- All lever height (+/- 1/16") measurements represent total distance from door face



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8200/R8200/7800 Mortise Locks



Single Cylinder without Deadbolt

*‡04 Storeroom or Closet 8200, R8200 & 7800

- Key outside retracts latchbolt •
- Trim outside locked at all times •
- Trim inside always retracts latchbolt
- Auxiliary deadlatch
- A Multi-Function 8200/R8200/7800 Lockbody
- ANSI F07

+*31 Utility 8200, R8200 & 7800



- Key outside retracts latchbolt
- Trim outside is always locked
- No inside trim or cylinder A Multi-Function 8200/R8200/7800 Lockbody

Key locks and unlocks trim

No inside trim or cylinder

Auxiliary dead latch

Lockbody

A Multi-Function 8200/R8200/7800

Auxiliary deadlatch

*05 Office or Entry 8200. R8200 & 7800

- Key outside retracts latchbolt, also locks & unlocks outside trim
- Trim inside always retracts latchbolt, trim outside remains locked
- Thumbturn inside locks & unlocks outside trim
- Auxiliary deadlatch
- A Multi-Function 8200/R8200/7800 Lockbody
- ANSI F04

•

The Multi-Function Advantage with rose trim:

- 1. Lock will accommodate 04, 05, 15 & 37 functions without additional parts.
- 2. By adding an additional cylinder, lock will accommodate 38 function.
- 3. By adding a Trim One Side Kit, lock will accommodate 06, 13, 31 & 36 functions.

NOTE: Office/Entry Function with toggle is a 55 function.

06 Storeroom or Service

*8200 Available with Freewheeling Trim

27800 Available with Push/Pull Trim

8200, R8200 & 7800



- No trim outside, cylinder only
- Key outside retracts latchbolt
- Trim inside always retracts latchbolt
- Auxiliary deadlatch
- A Multi-Function 8200/R8200/7800 Lockbody
- Same as 04 Function without trim outside

*±37 Classroom 8200, R8200 & 7800

*+36 Closet

8200, R8200 & 7800



- Key outside retracts latchbolt, also locks & unlocks outside trim
- Trim inside always retracts latchbolt
 - Auxiliary deadlatch
- A Multi-Function 8200/R8200/7800 Lockbody
- ANSI F05

55 Office or Entry

8200, R8200 & 7800



- Key outside retracts latchbolt
- Trim inside always retracts latchbolt, outside trim remains locked
 - Trim outside is locked & unlocked by the toggle only
- Auxiliary deadlatch





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If shaded, knob or lever rigid at all times

8200/R8200/7800 Mortise Locks

Non-Keyed

13 Exit Latch

8200, R8200 & 7800

- No outside trim or cylinder
- Trim inside retracts latchbolt
- A Multi-Function 8200/R8200/7800 Lockbody
- Auxiliary deadlatch
- ANSI F31

*66 Privacy Bath/Bedroom

.

*68 Privacy Bath/Bedroom

8200, R8200 & 7800

- by coin, screw driver or Emergency key (14-0057) ordered separately

Trim outside retracts latchbolt except when

simultaneously, unlocking the outside trim

Trim inside retracts both latchbolt and deadbolt

Emergency Release retracts and projects deadbolt —

deadbolt is projected

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- Thumbturn retracts and projects deadbolt
- ANSI F19

‡15 Passage or Closet

8200, R8200 & 7800



- Trim from either side retracts latchbolt at all times
- ANSI F01



8200, R8200 & 7800

- Trim from either side retracts latchbolt at all times
- Thumbturn retracts and projects deadbolt
- Emergency release retracts and projects deadbolt by coin, screwdriver or Emergency key (14-0057) ordered separately
- Latchbolt and deadbolt are independent of each other
- ANSI F02

*‡ 65 Privacy Bath/Bedroom

8200, R8200 & 7800

С

E

- Trim outside retracts latchbolt except when locked by thumbturn
- Trim inside retracts latchbolt and unlocks outside trim
- Emergency Release locks/unlocks trim outsideby coin, screwdriver or Emergency key (14-0057) ordered separately
- Thumbturn locks and unlocks trim outside
- Closing the door will unlock outside trim
- ANSI F22

93 Trim Dummy 8200, R8200 & 7800

- Trim on inside of door is always rigid
- Trim only used as door pull
- For double door applications, installed on the inactive door, use template #4298 to accept latchbolt from active door
- Note: Lever is through-bolted



Reviewed for Code Compliance Signed ______ 10162024 Date ______ Permit # _20240130

*8200 Available with Freewheeling Trim ‡7800 Available with Push/Pull Trim

◆CAUTION: Not recommended for use on any door used for Life Safety egress

03/19

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8200/R8200/7800 Mortise Locks



Single Cylinder without Deadbolt

*‡04 Storeroom or Closet 8200, R8200 & 7800

- Key outside retracts latchbolt •
- Trim outside locked at all times •
- Trim inside always retracts latchbolt
- Auxiliary deadlatch
- A Multi-Function 8200/R8200/7800 Lockbody
- ANSI F07

+*31 Utility 8200, R8200 & 7800



- Key outside retracts latchbolt
- Trim outside is always locked
- No inside trim or cylinder A Multi-Function 8200/R8200/7800 Lockbody

Key locks and unlocks trim

No inside trim or cylinder

Auxiliary dead latch

Lockbody

A Multi-Function 8200/R8200/7800

Auxiliary deadlatch

*05 Office or Entry 8200. R8200 & 7800

- Key outside retracts latchbolt, also locks & unlocks outside trim
- Trim inside always retracts latchbolt, trim outside remains locked
- Thumbturn inside locks & unlocks outside trim
- Auxiliary deadlatch
- A Multi-Function 8200/R8200/7800 Lockbody
- ANSI F04

•

The Multi-Function Advantage with rose trim:

- 1. Lock will accommodate 04, 05, 15 & 37 functions without additional parts.
- 2. By adding an additional cylinder, lock will accommodate 38 function.
- 3. By adding a Trim One Side Kit, lock will accommodate 06, 13, 31 & 36 functions.

NOTE: Office/Entry Function with toggle is a 55 function.

06 Storeroom or Service

*8200 Available with Freewheeling Trim

27800 Available with Push/Pull Trim

8200, R8200 & 7800



- No trim outside, cylinder only
- Key outside retracts latchbolt
- Trim inside always retracts latchbolt
- Auxiliary deadlatch
- A Multi-Function 8200/R8200/7800 Lockbody
- Same as 04 Function without trim outside

*±37 Classroom 8200, R8200 & 7800

*+36 Closet

8200, R8200 & 7800



- Key outside retracts latchbolt, also locks & unlocks outside trim
- Trim inside always retracts latchbolt
 - Auxiliary deadlatch
- A Multi-Function 8200/R8200/7800 Lockbody
- ANSI F05

55 Office or Entry

8200, R8200 & 7800



- Key outside retracts latchbolt
- Trim inside always retracts latchbolt, outside trim remains locked
 - Trim outside is locked & unlocked by the toggle only
- Auxiliary deadlatch





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If shaded, knob or lever rigid at all times

8200/R8200/7800 Mortise Locks

Non-Keyed

13 Exit Latch

8200, R8200 & 7800

- No outside trim or cylinder
- Trim inside retracts latchbolt
- A Multi-Function 8200/R8200/7800 Lockbody
- Auxiliary deadlatch
- ANSI F31

*66 Privacy Bath/Bedroom

.

*68 Privacy Bath/Bedroom

8200, R8200 & 7800

- by coin, screw driver or Emergency key (14-0057) ordered separately

Trim outside retracts latchbolt except when

simultaneously, unlocking the outside trim

Trim inside retracts both latchbolt and deadbolt

Emergency Release retracts and projects deadbolt —

deadbolt is projected

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- Thumbturn retracts and projects deadbolt
- ANSI F19

‡15 Passage or Closet

8200, R8200 & 7800



- Trim from either side retracts latchbolt at all times
- ANSI F01



8200, R8200 & 7800

- Trim from either side retracts latchbolt at all times
- Thumbturn retracts and projects deadbolt
- Emergency release retracts and projects deadbolt by coin, screwdriver or Emergency key (14-0057) ordered separately
- Latchbolt and deadbolt are independent of each other
- ANSI F02

*‡ 65 Privacy Bath/Bedroom

8200, R8200 & 7800

С

E

- Trim outside retracts latchbolt except when locked by thumbturn
- Trim inside retracts latchbolt and unlocks outside trim
- Emergency Release locks/unlocks trim outsideby coin, screwdriver or Emergency key (14-0057) ordered separately
- Thumbturn locks and unlocks trim outside
- Closing the door will unlock outside trim
- ANSI F22

93 Trim Dummy 8200, R8200 & 7800

- Trim on inside of door is always rigid
- Trim only used as door pull
- For double door applications, installed on the inactive door, use template #4298 to accept latchbolt from active door
- Note: Lever is through-bolted



Reviewed for Code Compliance Signed ______ 10162024 Date ______ Permit # _20240130

*8200 Available with Freewheeling Trim ‡7800 Available with Push/Pull Trim

◆CAUTION: Not recommended for use on any door used for Life Safety egress

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ASSA ABLOY, the global leader in door opening solutions

80 Series

Windstorm Certifications: Florida Building Codes & UL Listings

SARGENT Manufacturing's products meet building codes that require hurricane, windstorm and FEMA certifications, including some of the most stringent building codes as specified in the Florida Building Code, Miami Dade Code and the International Building Code. Listed below are certifications and standards met by the 80 Series lock.

Florida Building Code: FL2998 UL Certification Directory: ZHEM.R21744 - Latching Hardware

ANSI/SDI-BHMA A250.13	"Testing and Rating of Severe Windstorm Resistant Components for Swinging Door Assemblies"
ANSI/ASTM E330	"Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference"
ANSI/ASTM E1886	"Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials"
ASTM E1996	"Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors and Impact Protective Systems Impacted by Windborne Debris in Hurricanes"
(TAS) 201	"Impact Test Procedures"*
(TAS) 202	"Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference"
(TAS) 203	"Criteria for Testing Products Subject to Cyclic Wind Pressure Loading"*

* Published in the "Florida Building Code"

Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and Sargent Manufacturing Company makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire rated opening, or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official (Authority Having Jurisdiction) to ensure compliance with all applicable codes and ratings.

UL Certification Directory: ZHLL.R21744 – Products for Use in Windstorm-rated Assemblies

Certifications to meet assembly requirements are done in conjunction with doors from ASSA ABLOY Group companies CECO DOOR and CURRIES.

ASTM E330	"Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference"
ANSI/ASTM E1886	"Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials"
ASTM E1996	"Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors and Impact Protective Systems Impacted by Windborne Debris in Hurricanes"
AAMA/WDMA/CSA 101/I.S.2/A440	"Standard/Specification for Windows, Doors, and Unit Skylights"
FEMA Publication 320 (2014)	"Taking Shelter From the Storm: Building a Safe Room for Your Home or Small Business", investigated with respect to impact and pressure requirements only.
FEMA Publication 361 (2015)	"Design and Construction Guidance for Community Safe Rooms", investigated with respect to impact and pressure requirements only.
ICC 500 (2014)	"ICC/NSSA Standard for the Design and Construction of Storm Shelters", investigated with respect to impact and pressure testing. Minimum missile impact speeds vary with the design wind speed desired for a particular product. The information below correlates design wind speed to the minimum missile speeds as discussed in Table 305.1.1 of ICC 500

Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and Sargent Manufacturing Company makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire rated opening, or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official Authority Having Jurisdiction) to ensure compliance with all applicable codes and ratings.



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cymaci mormation for Exit Devices						
Cylin Exit Device	der Chart: Series x Function	ET T (700 Series Aux	rim kiliary Control)	PTB, PSB, ST FLL, FSL,	PTB, PSB, STS, MAL, MSL, FLL, FSL, FLW, FSW	
	Door Thickness	1-3/4 " (44mm)	2-1/4 " (57mm)	1-3/4 " (44mm)	2-1/4 " (57mm)	
	8304	46	48	41	43	
Normany Cetta	8313/8343	41	41	Not A	vailable	
Mortise Exit Device	8344	46	48	Not A	vailable	
	8363	Not Av	ailable	41	43	
Narrow Stile	8375/8376	46	48	Not A	vailable	
CVR Exit Device	All 8400	41	41	Not A	vailable	
Narrow Stile	8504	34	34	Not A	vailable	
RimExit	8513/8543	41	41	Not A	vailable	
Concealed Vertical Rod	All LP/LR/LS8600	41		Not Available		
Exit Devices	All SP/PP/PR8600	41		Not Available		
	All AD, MD & WD8600	41	41	Not A	vailable	
Surface	8706/8713/8743/8746	41	41	Not A	vailable	
Vertical Rod	8762/8763	Not Available		34 34		
Exit Devices	All SP/PP/PR8700	41	N/A	Not A	vailable	
	8804	34	34	34	34	
	8806/8813/8843/8846	41	41	Not A	vailable	
	8816	34/*44	34/*44	Not A	vailable	
Rim Exit Devices	8844	34	34	Not A	vailable	
	8863	Not Av	ailable	34	34	
	8866	Not Av	ailable	34/*44	34/*44	
	8875/8876/8877	34	34	Not A	vailable	
	8904	46	48	41	43	
Mortise Lock Exit Devices	8913/8943	41	41	Not A	vailable	
	8916	*34/46	*34/48	Not A	vailable	
	8944	46	48	Not A	vailable	
	8963	Not Av	ailable	41	43	
	8966	Not Av	ailable	*41/34	*43/34	
	8975/8976	46	48	Not A	vailable	

Cylinder Information for Exit Devices

* Inside Cylinders

Chart shows cylinder type and size for conventional SARGENT cylinders.

Note: Cylinder sizes & types are limited, as noted: SC- & SE- cylinders are available in size 41

60-, 63- & 64- cylinders are available in sizes 42, 43, 44 & 46 70-, 11-70-, 72-, 11-72-, 73- & 11-73 cylinders are available in sizes 43 & 46

Note: The 8888's Lever & Rose Trim cylinder standard is the standard SARGENT 10 Line cylinder (13-3266) **Note:** 41 Cylinder is 1-1/8" in length; For each additional digit, the cylinder is a 1/8" longer. Example: 42 is 1-1/4"; 43 is 1-3/8" and 4<u>6</u> is <u>4-3/4</u>" Note: SARGENT supplies standard blocking rings. Specify if using competitor cylinders Permit # 200

03/19 90641



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650A

Removable

Aluminum

US28/Satin

Anodized Aluminum

Specify "650A x 10B"

for 313AN to match 10B

96'

120"

658 Strikes Included

Not Required

1-1/2" x 2-1/2"

Includes 651 Stabilizers and

imbedded Weather Stripping

Top Retainer 94-2050

Bottom Retainer 94-2051

Aluminum Mullio

507A - Anodized Aluminum

n Mullions	Electrified	
980	L980	EL980
Removable	Lockable	Electrical Lockable
Aluminum	Aluminum	Steel
Prime Coat	Aluminum Prime Coat	Gray Paint
Specify "980A" for Anodized US28/ Satin Aluminum	Specify: "L980A" Anodized Aluminum Specify: "L980A x10B" for 313AN to match 10B	Wall Mounting Kit: 98-2580 Top Ret Pack :98-2559
96"	96"	96"
120"	120"	120"
No	No	No
Not Required	#41	#46 Only
T Shaped 2-1/2" x 3"	T Shaped 2-1/2" x 3"	Rectangular 2" x 3"
Top Retainer - 511 Bottom Retainer - 502 Adapter for narrow transom: 507 - Aluminum Prime Coated	All Cylinder Options Available Wall Mount Kit 98-2578 Top Ret Pack 98-2526 Bottom Ret Pack 98-2525	For use with Electric Strikes and Monitoring, Quick Connec Wiring Supplied Cylinder Kit 980C2*

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Bottom Ret Pack 98-2525 Cylinder Kit 980C1*

*Note: Cylinder Kits must be ordered separately

Product Designation

Description

Material

Standard Finish

Options

Stk Size

Max Stk Height

Pre-prepped

Cylinder Size

Shape

Misc. Information

and Accessories

Steel Mullions

Product Designations	HC980	980S	L980S	HCL980	12-HD980
Description	Hurricane Code	Standard Mullion	Lockable	Lockable Hurricane Code	Heavy Duty
Material	Steel	Steel	Steel	Steel	Steel
Fire Rated	Specify 12-HC980	Specify 12-980	Specify 12-L980	Specify 12-HCL980	Specify 12-HD980
Fire Rated Max Height	96"	96"	96"	96"	120"
Finish	Gray Paint	Gray Paint	Gray Paint	Gray Paint	Gray Paint
Stk Size	96"	96"	96"	96"	120"
Max Stk Height	96"	120"	120"	96"	120"
Pre-prepped	No	No	No	No	No
Cylinder Size	Not Required	Not Required	#41 Std (#42 & #43 available)	#41 Std (#42 & #43 available) Not Required
Shape	Rectangular 2' x 3"	Rectangular 2" x 3"	Rectangular 2" x 3"	Rectangular 2" x 3"	Rectangular 2" x 3"
Misc. Information	Designed for severe wind load conditions due to hurricanes or windstorms. Tested to Dade County Protocols & ASTM Standards	For 12-8800 - Channel Iron & Malleable iron top & bottom retainers.	Fire rated for 8'0" x 8'0" paired openings	See Notes Below	12-HD980 is for pair of doors over 8'0" to 10'0" for use with 2-8800 Rim Exits includes two piece strikes
Accessories	Top Ret Pack - 98-2599 Bottom Ret Pack - 98-2600 Top Retainer Shim Kit - 601	Top Ret Pack - 98-2190 Bottom Ret Pack - 98-2191 Top Retainer Shim Kit - 601	Wall Mounting Kit - 98-2579 Top Ret Pack - 98-2559 Bottom Ret Pack - 98-2556 Top Retainer Shim Kit - 601 Cylinder Kit - 980C1*	- Top Retainer Pack: 98-2593 - Bottom Retainer Pack: 98-2594 - Top Retainer Shim Kit - 601 Cylinder Kit - 980C1*	Top Ret Pack - 98-2599 ottom Ret Pack - 98-2600 op Retainer Shim Kit - 601

*Note: Cylinder Kits must be ordered separately

Note for HC980/12-HC980 Mullions:

- Designed for severe wind load conditions due to hurricanes or tornadoes
- Tested to Dade County protocols and ANSI 250.13 ASTM Standards and **FEMA 361**
- 12- Fire labeled version
- Replacement lock kits are available for lockable mullions Part numbers for each model are listed in the price book

HCL980 Mullion Information



- Model 12-HC-L980 may be supplied for doors UL fire APPROVER and including 3 hrs not exceeding 8 ft in width and height^{OB COP}
- Meets the following standards: ANSI 250.13, ASTM ASTM 1886, ASTM 1996, TAS 201, TAS 202 & TAS 203
- Designed for use with UL Classified HC8810, HC8800 and -12-HC8800 rim exit devices

Mullion Accessories and Stabilizers

80 Series

Mullion Accessories

RK980

Latchbolt assembly retrofit kit with top and bottom retainers for 980 aluminum mullion



651 Mullion Stabilizer Kit



- Stabilizer block
- Furnished standard w/650A Mullion
- Order as a 651 Kit

980C1 Cylinder Mullion Kit



- Lockable mullions only
- Aluminum and steel
- Includes cylinder and collar
- Available in 26D & 10B finish

980C2 Cylinder Mullion Kit



- Lockable mullions
- Electrified only
- Includes cylinder and collar
- Available in 26D finish only

507 Narrow Transom Bars Adapter

- Available with 980 and 980A
- Required when soffit is 1-1/4" (32mm) to 2" (51mm) wide
- Order as a: 507 for 980 mullion or 507A for 980A mullion



650A Mullion



Lockable Mullion



Mullion Weights & Packaging

Product	Avg Wt	Case
Exit Device with Trim	15 lbs	1 ea
980 Mullion	18 lbs	1 ea
12-980 Mullion	40 lbs	1 ea
650A Mullion	18 lbs	1 ea

980S Mullion Application

• All steel mullions are 2" x 3"



980 Mullion & L980 Lockable Mullion



Lockable Mullion Cylinder Kit Options*

L980, L980A, L980S & HC-L980 mullions are available with these options: 10, 10-21-,

10-63-, 11-, 11-21-, 11-60, 11-63-, 11-64-, 11-72-7P-, 11-65-73-7P-, 11-73-7P-, 21-, 22-, 60-, 63-, 64-, 70, 72-, 73-, 65-73-, 65-73-7P-, 73-7P-, 81-, 82-, F1-82-, 83-, F1-83-, 84-, SC- & SE-.

EL980 mullion is available with these options:

10, 10-21-, 10-63-, 11-, 11-21-, 11-60, 11-63-, 11-64-, 11-72-7P-, 11-65-73-7P-, 11-73-7P-, 21-, 22-, 60-, 63-, 64-, 70, 72-, 73-, 65-73-, 65-73-7P-, 73-7P-, 81-, 82- & F1-82-.

*Lockable mullions are shipped without cylinders. Order Cylinder Mullion Kit separately.











Mechanical Options and Descriptions



80 Series

Mechanical Options:

Categories	How to Specify	Detailed Description				
Fire Rated	12-	UL Fire Label Exit hardware (not available with 16- & HK-)				
SVR Bolt	14-	Sliding bolt bottom case for 8700				
Culindar Dogging	16-	Cylinder lockdown with # 41 Cylinder & # 97 Ring (not available with 12-, 57, 59-, AL- or BT- Option)				
Cylinder Dogging	LD-	Less dogging for non fire rated devices				
Less Touch Pad	19-	Pushbar without Lexan touchpad (not available TL-)				
8900/8300 Strike	23-	4-7/8" (124mm) ANSI flat lip strike (for 8900 & 8300 Series Mortise Lock Exit Devices)				
Thick Doors	31-	Doors over 1-3/4" and/or Panels (Specify door thickness, panel thickness & location as required) Not available for HC8700, FM8700, PP, PR & SP8700, PP, PR & SP8600, LP, LR & LP8700 Extended lip strike supplied for 8300 & 8900 Series				
	36-	Six lobe security head screws				
Security Fasteners	37-	Spanner head screws				
Flush End cap	43-	Flush End Cap (Not available with LP, LR & LS Devices)				
Indicator	49-	Indicator (Available on 8816 and 8866 functions only)				
	53-	Latchbolt monitoring switch (not available with 59-, GL-, HC-, WS- or on FM8700, PP/PR/SP8600 & LP/LR/LS8600 Exit Devices)				
	54-	Monitors ET Lever movement with Internal micro switch in ET Control				
55- Request to Exit - Signal Switch in Rail (not available with 59- & FM8700)						
	56-	Remote Latch Retraction (not available 57-, 58-, 59-, AL- or BT- Option)				
56-HK-		Remote Latch Retraction with manual Hex Key dogging (not available 12-, 57-, 58-, 59-, AL- or BT- Option)				
Electrical	57-	Delayed Egress (Electromagnetic Lock required & purchased separately) (not available 16-, 53-, 56-, 56-HK, 58-, 59-, AL, Bc-59- or BT, GL, TL Prefixes) (NB, 54- are available on request)				
Options	58-	Electric Rail Dogging (Not available 56- & 59-)				
	59-	Electroguard® Self Contained Delayed Egress Device (not available with 16-, 53-, 55-, 56-, 57-, 58-, AL-, BT-, GL-, HC- & WS Option Prefixes, PP/PR/SP8600, LP/LR/LS8600 Exit Devices) (NB, 54- are available upon request)				
	AL-	Alarmed Exit (Not available 16-, 56-, 57-, 59-, BT-, GL-, HC- & WS-)				
BC-59- Bcjoin and on NB8700, PP/PR/SP8600 & LP/LR/LS8600 Exit Devices)						
	TL-	SARGuide Electro-Luminescent Touchpad (not available 19-, 85-, 87- & PL-)				
	76-	Tactile Warning - Milled Outside Lever (not available with Studio & Coastal Levers and the A Lever)				
Tactile Warning	85-	Tactile Warning - Abrasive strip on Push Rail (Not available with PL- & TL-)				
Options	86-	Tactile Warning - Abrasive coating on Outside Lever				
	87-	Tactile Warning - Abrasive strip on Push Rail & Abrasive coating on Outside Lever (not available with PL- & TL-)				
Finish Destantion	CPC-	Clear Powder Coat (Available for 32 & 32D Finishes)				
Finish Protection	SG-	MicroShield® antimicrobial clear powder coat (only available with 15, 26D and 32D finishes)				
Top Rod Only	NB-	Less Bottom Rod & Bolt (for SVR & CVR Devices)				
Guarded Latch	GL-	Guarded Latch for Rim Exit Devices (not available 53-, 56-, 59-, AL-, HC- & WS-)				
SARGuide	PL-	SARGuide [™] PL – Photoluminescent Coated Push Rail – (Touchpad eliminated) (not available 85, 87 & TL-)				
Through Bolts	TB-	Through Bolts for 8300, 8500, 8600, 8700, 8800 & 8900 Devices				
Rail Force	5CH-	5lb. Pressure Release (8800 only)				

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Cylinder Options and Descriptions





Cylinder Options:

Conventional Cylinder	-	SARGENT Conventional Cylinders Supplied Standard (Unless Otherwise Specified)
	DG1-	SARGENT Degree Key System Level 1 (bump resistant with patented keys)
	DG1-21-	Degree Level 1 Construction Master Keving
	DG1-60-	Degree Level 1 Removable Disposable Construction Core
	DG1-63-	Degree Level 1 Removable Core
	DG1-64-	Degree Level 1 Removable Construction Keyed LEIC
	DG1-04-	
	DG1-65-	CAPCENT Degree Key Gestern Level 2 (see much inclusion huma on Anich and its attent)
	DG2-	SARGENT Degree Rey System Level 2 (geographically exclusive; bump and pick resistant)
	DG2-21-	Degree Level 2 Construction Master Keying
Degree Key System	DG2-60-	Degree Level 2 Removable Disposable Construction Core
0,,,	DG2-63-	Degree Level 2 Removable Core
	DG2-64-	Degree Level 2 Removable Construction Keyed LFIC
	DG2-65-	Degree Level 2 Unassembled/Uncombined Core
	DG3-	SARGENT Degree Key System Level 3 (geographically exclusive; UL437 certified; bump and pick resistant)
	DG3-21-	Degree Level 3 Construction Master Keying
	DG3-60-	Degree Level 3 Removable Disposable Construction Core
	DG3-63-	Degree Level 3 Removable Core
	DG3-64-	Degree Level 3 Removable Construction Keyed LFIC
	DG3-65	Degree Level 3 Unassembled/Uncombined Core
Signature	10-	SARGENT Signature Key System (Not Available with other Key Systems)
Key System	10.21.	SARCENT Signature Construction Key System (Lost Ball)
Signaturo I EIC	10-21-	SARCENT Signature Large Format Interchangeable Core (Vinder (Domovable)
	10-03-	YC Key System (Not available with other Key systems unless specified)
XC- Key System	11.21.	Acconstruction Key System (1 oct Ball)
VC Large Format	11-60-	Device to accent XC- Permanent Large Format Interchangeable Core. Disposable plastic Core- provided
Interchangeable Core	11-63-	Device provided with XC- Large Format Interchangeable Core Cylinder - (Includes masterkeving, grand masterkeving)
(Removable Core)	11-64-	Device provided with Keyed construction core to accept XC- Permanent Large Format Interchangeable Core (ordered separately)
	11-70-7P-	Device to accept XC- SFIC (7-Pin) XC- Permanent Cores, plastic disposable core provided
XC- Small Format	11-72-7P-	Device to accept XC- SFIC (7-Pin Keyed Construction Core provided) cylinder Permanent core ordered separately
Core	11-73-7P-	Device provided with XC- Small Format 7-Pin interchangeable core (Includes masterkeying, grand masterkeying)
	11-65-73-7P-	Device provided to accept XC- Uncombinated 7-Pin SFIC (Permanent) Core - (Packed Loose)
Construction Key	21-	SARGENT Lost Ball Construction Keying for Conventional, XC and Signature Series (N/A with 63- or 73-)
Systems	22-	SARGENT Construction Split Key System for Conventional Cylinders (Existing Systems Only) (N/A with 10-, 11-, 63- or 73-)
Old Style Removable	51-	Removable Core Cylinder (Old Style) provided (existing systems only)
Core	52-	Removable Construction Core (Old Style) Permanent core ordered separately (existing systems only)
Large Format	60-	Permanent Cores ordered separately)
(Removable Core)	63-	Device provided with Large Format Interchangeable Core Cylinder - (Includes masterkeying, grand masterkeying)
	64-	Device provided with Keyed construction core to accept Permanent Large Format Interchangeable Core (ordered separately)
	70-	Device to accept 6- or 7-Pin SFIC Permanent Cores, plastic disposable core provided
Small Format	72-	Device to accept 6- or 7-Pin SFIC (6-Pin Keyed Construction Core provided) Cylinder (Permanent Core ordered separately)
Interchangeable	(3-	Device provided with 6-Pin SFIC (Includes masterkeying, grand masterkeying)
Core	65-73-	Device provided to accept Uncombinated 6-Pin SFIC (Permanent) Core - (Packed Loose for field keying)
	72 70	Device provided to accept on combinated r-rm sinc (realmater) cole - (Packed bose to need keying) Device provided with Small Semmer 7. Die Interchangeble Core (Includes methodowing, small methodowing)
	81.	Device provided with bousings to accent Keso (83) & Keso F1 (F1-83-) removable cores (Permanent Cores ordered separately)
	87-	Device provided with SARGENT Keso Security Cylinder
	F1-82-	Device provided with SARGENT Kess F1 Security (Vinder (Patented)
Keso & Keso F1	83-	Device provided with SARGENT Kess Security Removable Core cylinder
	F1-83-	Device provided with SARGENT Keso F1 Security Removable Core cylinder (Patented)
	84-	Device provided with SARGENT Keso Construction Cores (Permanent Cores ordered separately)
Added Security	BR-	Bump Resistant Cylinder (Available with Conventional & Conventional XC Cylinders Only)
Less Cylinder	LC-	Less Cylinder - SARGENT supplies standard blocking rings for 1-1/8" Cylinders (For longer cylinders order collars/rings
	SC-	separately) APPROVED Schlage C keyway cylinder 0 bitted (not available with: 8004, 8016, 8044, 8075, 8076, 8866, 8304, 8344, 8275, 1008 C@RY
Schlage Keyways	SE-	Schlage E keyway cylinder, 0 bitted (not available with: 8904, 8916, 8944, 8975, 8976, 8866, 8304, 8344, 8345, & 8376)
Lever to	SF-	L Lever to accept MEDECO KeyMark Large Format Interchangeable and Schlage Full Size Interchangeable Core (Supplied Less Cylinder, but with tailpiece needed) (Available for 88-K11.8, 88-C11.)
Acceptioninage		

Permit # _____

Note: For V-10 Cylinders and information, contact ASSA

AD8400 and NB-AD8400 Narrow Stile Concealed Vertical Rod Exit Device for Aluminum Doors

80 Series





AD8400 Series

Concealed Vertical Rod Exit Device for Aluminum Doors

AD8400 & NB-AD8400 Features

- Designed for narrow stile aluminum door applications (e.g., full glass doors)
- Concealed rods for security and aesthetics
- UL10C (Fire) and UL305 (Panic) listed
- Specify NB- for less bottom rod
- NB- device allows free access for wheelchairs and carts. No bottom strike eliminates tripping potential
- All functions determined by outside trim
- Devices are ANSI/BHMA A156.3 Grade 1

Specifications for AD8400 & NB-AD8400 Exit

		7	
Door Type	Hollow or extruded aluminum doors	AD8400	NB-AD8400
Door Thickness	1-3/4" (44mm) minimum thickness. For doors over 1-3/4" to 2-1/4" thick, specify thickness and order as 31-		
Stile	1-3/4" (44mm) minimum stile width required. Stile must be hollow with inside dimension of at least 1-3/8" (35mm) square		
Rail sizes as determined by door width	Rails are available in 4 sizes, use door width to determine size needed. Rails will be factory cut to size, if door width is supplied • E Rail for 24" to 32" door widths • F Rail for 33" to 36" door widths • J Rail for 37" to 42" door widths • G Rail for 43" to 48" door widths		
Strike	640 Strike for Top & Bottom	m	
Dogging Feature	Hex key dogging standard on non fired rated devices; specify 16- for cylinder dogging (#41 cylinder supplied)		
Electric Options	AL- Alarm PL- SARGuide™ Photoluminescent Coated TL- SARGuide™ Illuminated Touchpad 53- LX Latchbolt Monitor 54- Outside Lever Monitoring 55- Request-to-Exit Signal - Rail Monitoring 56- Remote Latch Retraction 57- Delay Egress & Electromagnets 58- Electric Dogging 59- Electroguard – Self Contained Delayed Egress		
Mounting Fasteners	Supplied standard with machine screws	421	
Top Bolt	Stainless steel		
Device Centerline from Finished Floor	41" (1041mm) for Standard Applications 38" (965mm) for elementary schools		
Door/Opening Height	Must be specified - 120" (3048mm) Max Door Opening		
Center Case Dimensions	8-3/8" (213mm) x 2-5/8" (67mm)		
Projection	Pushbar Neutral – 3" (76mm) Pushbar Depressed – 2-1/8" (54mm)		
Fire Exit Hardware	Not Available		

Note: AD8400 can be used as NB- Device by simply not installing the bottom rod/bolt

100 Series Aux Control

- Available as an 06 or 13 function
- Supplied with a SARGENT #41 Mortise Cylinder
- Can be used with any SARGENT Mortise Key System



639/640 Strike Kits

- Steel with Black Nylon Coating
- Machine Screws Supplied
 640 Kit contains 2 strikes
- (Top & Bottom) • 639 Kit contains 1 strike
- (Top Only)





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AD8400 and NB-AD8400 Functions and Trims for Aluminum Doors

80 Series



ASSA ABLOY

How to order: Options Series 55- AD84	Function Ra	il Lgth Trim F ETL	HandOutside FinishInside FinishDoorRHR26D32D3	Width Door Height AFF 6" 84" 41"	Options
700 Series ET Trim	SARGENT Function Numbers	ANSI Function Numbers	Description & Cylinder Info (1-3/4" Door)	ANSI Type 6 AD8400 Panic	Mechanical Options: 16- 19- 31-
Exits with ET Trim, specify lever design after the ET designation (e.g., ETL)	06	09	Key unlocks Trim, Trim retracts latch/ Trim relocks when key is removed #41 Cylinder Supplied	AD8406 x ET_	36- 37- 43- 53-
0	10	01	No outside operation (No Cylinder)*	AD8410	54- 55- 56- 56-HK- 57-
	10	02	No outside operation (No Cylinder)* ET Control is used as Pull Only	AD8410 x ET_	58- 59- 5CH- BC-59-
Lever Designs for ET Controls A, B, E, F, J, L, P, W Also available with Coastal Series &	13	08	Key Outside Unlocks/locks Trim #41 Cylinder Supplied	AD8413 x ET_	76- 85- 86- 87- AL-
Studio Collection Levers ET Designation with Suffix (Used to order ET without device)	15	14	Passage Only (No cylinder)	AD8415 x ET_	BT- CPC- LD- NB- PL-
8400 & NB-8400 Series: 706-4, 710-4, 713-4, 715-4, 740-4, 743-4, 746-4, 773-4, & 774-4	40	02	Freewheeling Trim - No outside operation (No Cylinder)* Dummy Trim	AD8440 x ET_	* SG- TL- Cylinder Options: 10-
Freewheeling Trim	43	08	Freewheeling Trim - Key Outside Unlocks/locks Trim #41 Cylinder Supplied	AD8443 x ET_	10-21- 10-63- 11- 11-21- 11-60
locked preventing excessive force from being applied to the horizontal lever Electrified ET Trim	46	09	Freewheeling Trim - Key unlocks Trim, Trim retracts latch/ Trim relocks when key is removed #41 Cylinder Supplied	AD8446 x ET_	11-63- 11-64- 11-70-7P- 11-72-7P- 11-73-7P-
Voltage must be specified for the following functions: 73 and 74. Specify: 12VDC or 24VDC	73		Electrified ET Trim - Fail Safe Power Off, Unlocks Lever (No Cylinder)* Specify: 12VDC or 24VDC	AD8473 x ET_	11-65-73-7P- 21- 22- 51- 52-
	74		Electrified ET Trim - Fail Secure Power Off, Locks Lever (No Cylinder)* Specify: 12VDC or 24VDC	AD8474 x ET_	60- 63- 64- 70-
	Note: Exit device in 32 or 32D to m 14/32 or 15/32D Note: AFF means * Cylinder Overrie Example Order: A	s are available in al natch accordingly. to receive nickel fi Above Finished Flo de is available with \D8473F 12V x ETM	I standard finishes, except 14, 15, 26 & 26D. With these fin 32 or 32D is automatically supplied when 26 or 26D is spec nished trims and stainless exit devices. Jor, center line of rail Above Finished Floor I a 106 Aux Control I G x 106 x RHR x 32D x 36'w x 84''h	ishes, exit devices are supplied ified. For nickel finishes, specify	72- 73- 65-73- 65-73-7P- 73-7P- 81- 82- F1-82-

Example Order: AD8473F 12V x ETMG x 106 x RHR x 32D x 36"w x 84"h

100 Series Auxiliary Control* & 862 Pull		SARGENT Function Numbers	ANSI Function Numbers		AD8400 Panic
	7	06	12	Key unlocks Turn, Turn retracts latch/ Turn relocks when key is removed #41 Cylinder Supplied	AD8410 x 106
1		10	02	862 Pull Only (Optional Pulls: 863 & 864)	AD8410 x 862 Pull
100 Series Aux. Control	862 Pull	13	11	Key Outside Unlocks/locks Turn #41 Cylinder Supplied	AD8410 x 113

Note: When ordering 8400 Series Exit Device x 100 Series Aux. Control, specify 10 Function for the exit. Example: AD8410F x 106 x RHR x 32D x 42" x 90"

83-F1-83-

84-BR-LC-SC-SE-

* Only available with 15, 26D and 32D finishes

> Available **Finishes**

SARGENT Finishes 03

04 09 10

10B

10**B**E

BL 4

APPROVED

JOB COPY ed for 26D

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WSP

Permit # 20

BHMA Finishes

605 606 611

612

613

613E

614 618

619 624 625

626

629 630

Auxiliary Controls

PE80 Series Exit Device

Auxiliary Controls

P100 Series



- Used with concealed vertical rod devices (PE8400 and PE8600)
- Engages with Auxiliary Control Link Assembly on vertical rod
- Wood doors require unit to be mounted approximately 4-5/8" above chassis centerline _ See template MEDT70 for more details)
- Metal doors require unit to be mounted approximately 7-5/16" above chassis centerline
 - See template MEDT7 for more details)





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Metal

P300 Series



- Used with surface vertical rod devices (PE8700)
- Engages with Inside Rod Actuator Assembly
- Metal and Wood door applications are mounted at same position above chassis centerline
- See template <u>#4214</u> for more details





Inside Rod Actuator Assembly



- Used with surface vertical rod devices (PE8700)
- Attaches to top rod and engages with P300 Series Auxiliary Control
- Packed standard with P306 and P313 Auxiliary Controls
- Part # 97-2378 .
- See template <u>#4214</u> for more details





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Trim and Pulls

PE80 Series Exit Device







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Experience a safer and more open world

AD8400 and NB-AD8400 Narrow Stile Concealed Vertical Rod Exit Device for Aluminum Doors

80 Series





AD8400 Series

Concealed Vertical Rod Exit Device for Aluminum Doors

AD8400 & NB-AD8400 Features

- Designed for narrow stile aluminum door applications (e.g., full glass doors)
- Concealed rods for security and aesthetics
- UL10C (Fire) and UL305 (Panic) listed
- Specify NB- for less bottom rod
- NB- device allows free access for wheelchairs and carts. No bottom strike eliminates tripping potential
- All functions determined by outside trim
- Devices are ANSI/BHMA A156.3 Grade 1

Specifications for AD8400 & NB-AD8400 Exit

		7	
Door Type	Hollow or extruded aluminum doors	AD8400	NB-AD8400
Door Thickness	1-3/4" (44mm) minimum thickness. For doors over 1-3/4" to 2-1/4" thick, specify thickness and order as 31-		
Stile	1-3/4" (44mm) minimum stile width required. Stile must be hollow with inside dimension of at least 1-3/8" (35mm) square		
Rail sizes as determined by door width	Rails are available in 4 sizes, use door width to determine size needed. Rails will be factory cut to size, if door width is supplied • E Rail for 24" to 32" door widths • F Rail for 33" to 36" door widths • J Rail for 37" to 42" door widths • G Rail for 43" to 48" door widths		
Strike	640 Strike for Top & Bottom	m	
Dogging Feature	Hex key dogging standard on non fired rated devices; specify 16- for cylinder dogging (#41 cylinder supplied)		
Electric Options	AL- Alarm PL- SARGuide™ Photoluminescent Coated TL- SARGuide™ Illuminated Touchpad 53- LX Latchbolt Monitor 54- Outside Lever Monitoring 55- Request-to-Exit Signal - Rail Monitoring 56- Remote Latch Retraction 57- Delay Egress & Electromagnets 58- Electric Dogging 59- Electroguard – Self Contained Delayed Egress		
Mounting Fasteners	Supplied standard with machine screws	421	
Top Bolt	Stainless steel		
Device Centerline from Finished Floor	41" (1041mm) for Standard Applications 38" (965mm) for elementary schools		
Door/Opening Height	Must be specified - 120" (3048mm) Max Door Opening		
Center Case Dimensions	8-3/8" (213mm) x 2-5/8" (67mm)		
Projection	Pushbar Neutral – 3" (76mm) Pushbar Depressed – 2-1/8" (54mm)		
Fire Exit Hardware	Not Available		

Note: AD8400 can be used as NB- Device by simply not installing the bottom rod/bolt

100 Series Aux Control

- Available as an 06 or 13 function
- Supplied with a SARGENT #41 Mortise Cylinder
- Can be used with any SARGENT Mortise Key System



639/640 Strike Kits

- Steel with Black Nylon Coating
- Machine Screws Supplied
 640 Kit contains 2 strikes
- (Top & Bottom) • 639 Kit contains 1 strike
- (Top Only)





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AD8400 and NB-AD8400 Functions and Trims for Aluminum Doors

80 Series



ASSA ABLOY

How to order: Options Series 55- AD84	Function Ra	il Lgth Trim F ETL	HandOutside FinishInside FinishDoorRHR26D32D3	Width Door Height AFF 6" 84" 41"	Options
700 Series ET Trim	SARGENT Function Numbers	ANSI Function Numbers	Description & Cylinder Info (1-3/4" Door)	ANSI Type 6 AD8400 Panic	Mechanical Options: 16- 19- 31-
Exits with ET Trim, specify lever design after the ET designation (e.g., ETL)	06	09	Key unlocks Trim, Trim retracts latch/ Trim relocks when key is removed #41 Cylinder Supplied	AD8406 x ET_	36- 37- 43- 53-
0	10	01	No outside operation (No Cylinder)*	AD8410	54- 55- 56- 56-HK- 57-
	10	02	No outside operation (No Cylinder)* ET Control is used as Pull Only	AD8410 x ET_	58- 59- 5CH- BC-59-
Lever Designs for ET Controls A, B, E, F, J, L, P, W Also available with Coastal Series &	13	08	Key Outside Unlocks/locks Trim #41 Cylinder Supplied	AD8413 x ET_	76- 85- 86- 87- AL-
Studio Collection Levers ET Designation with Suffix (Used to order ET without device)	15	14	Passage Only (No cylinder)	AD8415 x ET_	BT- CPC- LD- NB- PL-
8400 & NB-8400 Series: 706-4, 710-4, 713-4, 715-4, 740-4, 743-4, 746-4, 773-4, & 774-4	40	02	Freewheeling Trim - No outside operation (No Cylinder)* Dummy Trim	AD8440 x ET_	* SG- TL- Cylinder Options: 10-
Freewheeling Trim	43	08	Freewheeling Trim - Key Outside Unlocks/locks Trim #41 Cylinder Supplied	AD8443 x ET_	10-21- 10-63- 11- 11-21- 11-60
locked preventing excessive force from being applied to the horizontal lever Electrified ET Trim	46	09	Freewheeling Trim - Key unlocks Trim, Trim retracts latch/ Trim relocks when key is removed #41 Cylinder Supplied	AD8446 x ET_	11-63- 11-64- 11-70-7P- 11-72-7P- 11-73-7P-
Voltage must be specified for the following functions: 73 and 74. Specify: 12VDC or 24VDC	73		Electrified ET Trim - Fail Safe Power Off, Unlocks Lever (No Cylinder)* Specify: 12VDC or 24VDC	AD8473 x ET_	11-65-73-7P- 21- 22- 51- 52-
	74		Electrified ET Trim - Fail Secure Power Off, Locks Lever (No Cylinder)* Specify: 12VDC or 24VDC	AD8474 x ET_	60- 63- 64- 70-
	Note: Exit device in 32 or 32D to m 14/32 or 15/32D Note: AFF means * Cylinder Overrie Example Order: A	s are available in al natch accordingly. to receive nickel fi Above Finished Flo de is available with \D8473F 12V x ETM	I standard finishes, except 14, 15, 26 & 26D. With these fin 32 or 32D is automatically supplied when 26 or 26D is spec nished trims and stainless exit devices. Jor, center line of rail Above Finished Floor I a 106 Aux Control I G x 106 x RHR x 32D x 36'w x 84''h	ishes, exit devices are supplied ified. For nickel finishes, specify	72- 73- 65-73- 65-73-7P- 73-7P- 81- 82- F1-82-

Example Order: AD8473F 12V x ETMG x 106 x RHR x 32D x 36"w x 84"h

100 Series Auxiliary Control* & 862 Pull		SARGENT Function Numbers	ANSI Function Numbers		AD8400 Panic
	7	06	12	Key unlocks Turn, Turn retracts latch/ Turn relocks when key is removed #41 Cylinder Supplied	AD8410 x 106
1		10	02	862 Pull Only (Optional Pulls: 863 & 864)	AD8410 x 862 Pull
100 Series Aux. Control	862 Pull	13	11	Key Outside Unlocks/locks Turn #41 Cylinder Supplied	AD8410 x 113

Note: When ordering 8400 Series Exit Device x 100 Series Aux. Control, specify 10 Function for the exit. Example: AD8410F x 106 x RHR x 32D x 42" x 90"

83-F1-83-

84-BR-LC-SC-SE-

* Only available with 15, 26D and 32D finishes

> Available **Finishes**

SARGENT Finishes 03

04 09 10

10B

10**B**E

BL 4

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Signed JN for EM 32 Date 20240192 SP

WSP

Permit # 20

BHMA Finishes

605 606 611

612

613

613E

614 618

619 624 625

626

629 630









ASSA ABLOY, the global leader in door opening solutions

80 Series

Windstorm Certifications: Florida Building Codes & UL Listings

SARGENT Manufacturing's products meet building codes that require hurricane, windstorm and FEMA certifications, including some of the most stringent building codes as specified in the Florida Building Code, Miami Dade Code and the International Building Code. Listed below are certifications and standards met by the 80 Series lock.

Florida Building Code: FL2998 UL Certification Directory: ZHEM.R21744 - Latching Hardware

ANSI/SDI-BHMA A250.13	"Testing and Rating of Severe Windstorm Resistant Components for Swinging Door Assemblies"
ANSI/ASTM E330	"Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference"
ANSI/ASTM E1886	"Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials"
ASTM E1996	"Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors and Impact Protective Systems Impacted by Windborne Debris in Hurricanes"
(TAS) 201	"Impact Test Procedures"*
(TAS) 202	"Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference"
(TAS) 203	"Criteria for Testing Products Subject to Cyclic Wind Pressure Loading"*

* Published in the "Florida Building Code"

Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and Sargent Manufacturing Company makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire rated opening, or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official (Authority Having Jurisdiction) to ensure compliance with all applicable codes and ratings.

UL Certification Directory: ZHLL.R21744 – Products for Use in Windstorm-rated Assemblies

Certifications to meet assembly requirements are done in conjunction with doors from ASSA ABLOY Group companies CECO DOOR and CURRIES.

ASTM E330	"Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference"
ANSI/ASTM E1886	"Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials"
ASTM E1996	"Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors and Impact Protective Systems Impacted by Windborne Debris in Hurricanes"
AAMA/WDMA/CSA 101/I.S.2/A440	"Standard/Specification for Windows, Doors, and Unit Skylights"
FEMA Publication 320 (2014)	"Taking Shelter From the Storm: Building a Safe Room for Your Home or Small Business", investigated with respect to impact and pressure requirements only.
FEMA Publication 361 (2015)	"Design and Construction Guidance for Community Safe Rooms", investigated with respect to impact and pressure requirements only.
ICC 500 (2014)	"ICC/NSSA Standard for the Design and Construction of Storm Shelters", investigated with respect to impact and pressure testing. Minimum missile impact speeds vary with the design wind speed desired for a particular product. The information below correlates design wind speed to the minimum missile speeds as discussed in Table 305.1.1 of ICC 500

Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and Sargent Manufacturing Company makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire rated opening, or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official Authority Having Jurisdiction) to ensure compliance with all applicable codes and ratings.



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cymaci mormation for Exit Devices					
Cylin Exit Device	der Chart: Series x Function	ET T (700 Series Aux	rim kiliary Control)	PTB, PSB, STS, MAL, MSL, FLL, FSL, FLW, FSW	
Door Thickness		1-3/4 " (44mm)	2-1/4 " (57mm)	1-3/4 " (44mm)	2-1/4 " (57mm)
	8304	46	48	41	43
Normany Cetta	8313/8343	41	41	Not A	vailable
Mortise Exit Device	8344	46	48	Not A	vailable
	8363	Not Av	ailable	41	43
Narrow Stile	8375/8376	46	48	Not A	vailable
CVR Exit Device	All 8400	41	41	Not A	vailable
Narrow Stile	8504	34	34	Not A	vailable
RimExit	8513/8543	41	41	Not A	vailable
Concealed Vertical Rod	All LP/LR/LS8600	41		Not Available	
Exit Devices	All SP/PP/PR8600	41		Not Available	
	All AD, MD & WD8600	41	41	Not A	vailable
Surface	8706/8713/8743/8746	41	41	Not A	vailable
Vertical Rod	8762/8763	Not Available		34	34
Exit Devices	All SP/PP/PR8700	41	N/A	Not A	vailable
	8804	34	34	34	34
	8806/8813/8843/8846	41	41	Not A	vailable
	8816	34/*44	34/*44	Not A	vailable
Rim Exit Devices	8844	34	34	Not A	vailable
	8863	Not Av	ailable	34	34
	8866	Not Av	ailable	34/*44	34/*44
	8875/8876/8877	34	34	Not A	vailable
	8904	46	48	41	43
	8913/8943	41	41	Not A	vailable
	8916	*34/46	*34/48	Not A	vailable
Mortise Lock Exit Devices	8944	46	48	Not A	vailable
	8963	Not Av	ailable	41	43
	8966	Not Av	ailable	*41/34	*43/34
	8975/8976	46	48	Not A	vailable

Cylinder Information for Exit Devices

* Inside Cylinders

Chart shows cylinder type and size for conventional SARGENT cylinders.

Note: Cylinder sizes & types are limited, as noted: SC- & SE- cylinders are available in size 41

60-, 63- & 64- cylinders are available in sizes 42, 43, 44 & 46 70-, 11-70-, 72-, 11-72-, 73- & 11-73 cylinders are available in sizes 43 & 46

Note: The 8888's Lever & Rose Trim cylinder standard is the standard SARGENT 10 Line cylinder (13-3266) **Note:** 41 Cylinder is 1-1/8" in length; For each additional digit, the cylinder is a 1/8" longer. Example: 42 is 1-1/4"; 43 is 1-3/8" and 4<u>6</u> is <u>4-3/4</u>" Note: SARGENT supplies standard blocking rings. Specify if using competitor cylinders Permit # 200

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650A

Removable

Aluminum

US28/Satin

Anodized Aluminum

Specify "650A x 10B"

for 313AN to match 10B

96'

120"

658 Strikes Included

Not Required

1-1/2" x 2-1/2"

Includes 651 Stabilizers and

imbedded Weather Stripping

Top Retainer 94-2050

Bottom Retainer 94-2051

Aluminum Mullio

507A - Anodized Aluminum

n Mullions		Electrified
980	L980	EL980
Removable	Lockable	Electrical Lockable
Aluminum	Aluminum	Steel
Prime Coat	Aluminum Prime Coat	Gray Paint
Specify "980A" for Anodized US28/ Satin Aluminum	Specify: "L980A" Anodized Aluminum Specify: "L980A x10B" for 313AN to match 10B	Wall Mounting Kit: 98-2580 Top Ret Pack :98-2559
96"	96"	96"
120"	120"	120"
No	No	No
Not Required	#41	#46 Only
T Shaped 2-1/2" x 3"	T Shaped 2-1/2" x 3"	Rectangular 2" x 3"
Top Retainer - 511 Bottom Retainer - 502 Adapter for narrow transom: 507 - Aluminum Prime Coated	All Cylinder Options Available Wall Mount Kit 98-2578 Top Ret Pack 98-2526 Bottom Ret Pack 98-2525	For use with Electric Strikes and Monitoring, Quick Connec Wiring Supplied Cylinder Kit 980C2*

SARGENT

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Bottom Ret Pack 98-2525 Cylinder Kit 980C1*

*Note: Cylinder Kits must be ordered separately

Product Designation

Description

Material

Standard Finish

Options

Stk Size

Max Stk Height

Pre-prepped

Cylinder Size

Shape

Misc. Information

and Accessories

Steel Mullions

Product Designations	HC980	980S	L980S	HCL980	12-HD980
Description	Hurricane Code	Standard Mullion	Lockable	Lockable Hurricane Code	Heavy Duty
Material	Steel	Steel	Steel	Steel	Steel
Fire Rated	Specify 12-HC980	Specify 12-980	Specify 12-L980	Specify 12-HCL980	Specify 12-HD980
Fire Rated Max Height	96"	96"	96"	96"	120"
Finish	Gray Paint	Gray Paint	Gray Paint	Gray Paint	Gray Paint
Stk Size	96"	96"	96"	96"	120"
Max Stk Height	96"	120"	120"	96"	120"
Pre-prepped	No	No	No	No	No
Cylinder Size	Not Required	Not Required	#41 Std (#42 & #43 available)	#41 Std (#42 & #43 available) Not Required
Shape	Rectangular 2' x 3"	Rectangular 2" x 3"	Rectangular 2" x 3"	Rectangular 2" x 3"	Rectangular 2" x 3"
Misc. Information	Designed for severe wind load conditions due to hurricanes or windstorms. Tested to Dade County Protocols & ASTM Standards	For 12-8800 - Channel Iron & Malleable iron top & bottom retainers.	Fire rated for 8'0" x 8'0" paired openings	See Notes Below	12-HD980 is for pair of doors over 8'0" to 10'0" for use with 2-8800 Rim Exits includes two piece strikes
Accessories	Top Ret Pack - 98-2599 Bottom Ret Pack - 98-2600 Top Retainer Shim Kit - 601	Top Ret Pack - 98-2190 Bottom Ret Pack - 98-2191 Top Retainer Shim Kit - 601	Wall Mounting Kit - 98-2579 Top Ret Pack - 98-2559 Bottom Ret Pack - 98-2556 Top Retainer Shim Kit - 601 Cylinder Kit - 980C1*	- Top Retainer Pack: 98-2593 - Bottom Retainer Pack: 98-2594 - Top Retainer Shim Kit - 601 Cylinder Kit - 980C1*	Top Ret Pack - 98-2599 ottom Ret Pack - 98-2600 op Retainer Shim Kit - 601

*Note: Cylinder Kits must be ordered separately

Note for HC980/12-HC980 Mullions:

- Designed for severe wind load conditions due to hurricanes or tornadoes
- Tested to Dade County protocols and ANSI 250.13 ASTM Standards and **FEMA 361**
- 12- Fire labeled version
- Replacement lock kits are available for lockable mullions Part numbers for each model are listed in the price book

HCL980 Mullion Information



- Model 12-HC-L980 may be supplied for doors UL fire APPROVER and including 3 hrs not exceeding 8 ft in width and height^{OB COP}
- Meets the following standards: ANSI 250.13, ASTM ASTM 1886, ASTM 1996, TAS 201, TAS 202 & TAS 203
- Designed for use with UL Classified HC8810, HC8800 and -12-HC8800 rim exit devices

Mullion Accessories and Stabilizers

80 Series

Mullion Accessories

RK980

Latchbolt assembly retrofit kit with top and bottom retainers for 980 aluminum mullion



651 Mullion Stabilizer Kit



- Stabilizer block
- Furnished standard w/650A Mullion
- Order as a 651 Kit

980C1 Cylinder Mullion Kit



- Lockable mullions only
- Aluminum and steel
- Includes cylinder and collar
- Available in 26D & 10B finish

980C2 Cylinder Mullion Kit



- Lockable mullions
- Electrified only
- Includes cylinder and collar
- Available in 26D finish only

507 Narrow Transom Bars Adapter

- Available with 980 and 980A
- Required when soffit is 1-1/4" (32mm) to 2" (51mm) wide
- Order as a: 507 for 980 mullion or 507A for 980A mullion



650A Mullion



Lockable Mullion



Mullion Weights & Packaging

Product	Avg Wt	Case
Exit Device with Trim	15 lbs	1 ea
980 Mullion	18 lbs	1 ea
12-980 Mullion	40 lbs	1 ea
650A Mullion	18 lbs	1 ea

980S Mullion Application

• All steel mullions are 2" x 3"



980 Mullion & L980 Lockable Mullion



Lockable Mullion Cylinder Kit Options*

L980, L980A, L980S & HC-L980 mullions are available with these options: 10, 10-21-,

10-63-, 11-, 11-21-, 11-60, 11-63-, 11-64-, 11-72-7P-, 11-65-73-7P-, 11-73-7P-, 21-, 22-, 60-, 63-, 64-, 70, 72-, 73-, 65-73-, 65-73-7P-, 73-7P-, 81-, 82-, F1-82-, 83-, F1-83-, 84-, SC- & SE-.

EL980 mullion is available with these options:

10, 10-21-, 10-63-, 11-, 11-21-, 11-60, 11-63-, 11-64-, 11-72-7P-, 11-65-73-7P-, 11-73-7P-, 21-, 22-, 60-, 63-, 64-, 70, 72-, 73-, 65-73-, 65-73-7P-, 73-7P-, 81-, 82- & F1-82-.

*Lockable mullions are shipped without cylinders. Order Cylinder Mullion Kit separately.











Mechanical Options and Descriptions



80 Series

Mechanical Options:

Categories	How to Specify	Detailed Description
Fire Rated	12-	UL Fire Label Exit hardware (not available with 16- & HK-)
SVR Bolt	14-	Sliding bolt bottom case for 8700
Culindar Dogging	16-	Cylinder lockdown with # 41 Cylinder & # 97 Ring (not available with 12-, 57, 59-, AL- or BT- Option)
Cylinder Dogging	LD-	Less dogging for non fire rated devices
Less Touch Pad	19-	Pushbar without Lexan touchpad (not available TL-)
8900/8300 Strike	23-	4-7/8" (124mm) ANSI flat lip strike (for 8900 & 8300 Series Mortise Lock Exit Devices)
Thick Doors	31-	Doors over 1-3/4" and/or Panels (Specify door thickness, panel thickness & location as required) Not available for HC8700, FM8700, PP, PR & SP8700, PP, PR & SP8600, LP, LR & LP8700 Extended lip strike supplied for 8300 & 8900 Series
	36-	Six lobe security head screws
Security Fasteners	37-	Spanner head screws
Flush End cap	43-	Flush End Cap (Not available with LP, LR & LS Devices)
Indicator	49-	Indicator (Available on 8816 and 8866 functions only)
	53-	Latchbolt monitoring switch (not available with 59-, GL-, HC-, WS- or on FM8700, PP/PR/SP8600 & LP/LR/LS8600 Exit Devices)
	54-	Monitors ET Lever movement with Internal micro switch in ET Control
	55-	Request to Exit - Signal Switch in Rail (not available with 59- & FM8700)
	56-	Remote Latch Retraction (not available 57-, 58-, 59-, AL- or BT- Option)
Electrical	56-HK-	Remote Latch Retraction with manual Hex Key dogging (not available 12-, 57-, 58-, 59-, AL- or BT- Option)
	57-	Delayed Egress (Electromagnetic Lock required & purchased separately) (not available 16-, 53-, 56-, 56-HK, 58-, 59-, AL, Bc-59- or BT, GL, TL Prefixes) (NB, 54- are available on request)
Options	58-	Electric Rail Dogging (Not available 56- & 59-)
	59-	Electroguard® Self Contained Delayed Egress Device (not available with 16-, 53-, 55-, 56-, 57-, 58-, AL-, BT-, GL-, HC- & WS Option Prefixes, PP/PR/SP8600, LP/LR/LS8600 Exit Devices) (NB, 54- are available upon request)
	AL-	Alarmed Exit (Not available 16-, 56-, 57-, 59-, BT-, GL-, HC- & WS-)
	BC-59-	Electroguard® Boca Code (Door Status Switch required) (not available with 16-, 55-, 56-, 57-, 58-, AL-, BT-, GL-, HC- & WS- Options and on NB8700, PP/PR/SP8600 & LP/LR/LS8600 Exit Devices)
TL- SARGuide Electro-Luminescent Touchpad (not available 19-, 85-, 87- & PL-)		SARGuide Electro-Luminescent Touchpad (not available 19-, 85-, 87- & PL-)
	76-	Tactile Warning - Milled Outside Lever (not available with Studio & Coastal Levers and the A Lever)
Tactile Warning	85-	Tactile Warning - Abrasive strip on Push Rail (Not available with PL- & TL-)
Options	86-	Tactile Warning - Abrasive coating on Outside Lever
	87-	Tactile Warning - Abrasive strip on Push Rail & Abrasive coating on Outside Lever (not available with PL- & TL-)
Finish Destantion	CPC-	Clear Powder Coat (Available for 32 & 32D Finishes)
Finish Protection	SG-	MicroShield® antimicrobial clear powder coat (only available with 15, 26D and 32D finishes)
Top Rod Only	NB-	Less Bottom Rod & Bolt (for SVR & CVR Devices)
Guarded Latch	GL-	Guarded Latch for Rim Exit Devices (not available 53-, 56-, 59-, AL-, HC- & WS-)
SARGuide	PL-	SARGuide [™] PL – Photoluminescent Coated Push Rail – (Touchpad eliminated) (not available 85, 87 & TL-)
Through Bolts	TB-	Through Bolts for 8300, 8500, 8600, 8700, 8800 & 8900 Devices
Rail Force	5CH-	5lb. Pressure Release (8800 only)

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Cylinder Options and Descriptions





Cylinder Options:

Conventional Cylinder	-	SARGENT Conventional Cylinders Supplied Standard (Unless Otherwise Specified)
	DG1-	SARGENT Degree Key System Level 1 (bump resistant with patented keys)
-	DG1-21-	Degree Level 1 Construction Master Keving
	DG1-60-	Degree Level 1 Removable Disposable Construction Core
	DG1-63-	Degree Level 1 Removable Core
	DG1-64-	Degree Level 1 Removable Construction Keyed LEIC
	DG1-04-	
	DG1-65-	CAPCENT Degree Key Gestern Level 2 (see much inclusion huma on Anich and its attent)
	DG2-	SARGENT Degree Rey System Level 2 (geographically exclusive; bump and pick resistant)
	DG2-21-	Degree Level 2 Construction Master Keying
Degree Key System	DG2-60-	Degree Level 2 Removable Disposable Construction Core
0,,,	DG2-63-	Degree Level 2 Removable Core
	DG2-64-	Degree Level 2 Removable Construction Keyed LFIC
	DG2-65-	Degree Level 2 Unassembled/Uncombined Core
	DG3-	SARGENT Degree Key System Level 3 (geographically exclusive; UL437 certified; bump and pick resistant)
	DG3-21-	Degree Level 3 Construction Master Keying
	DG3-60-	Degree Level 3 Removable Disposable Construction Core
	DG3-63-	Degree Level 3 Removable Core
	DG3-64-	Degree Level 3 Removable Construction Keyed LFIC
	DG3-65	Degree Level 3 Unassembled/Uncombined Core
Signature	10-	SARGENT Signature Key System (Not Available with other Key Systems)
Key System	10.21.	SARCENT Signature Construction Key System (Lost Ball)
Signaturo I EIC	10-21-	SARCENT Signature Large Format Interchangeable Core (Vinder (Domovable)
	10-03-	YC Key System (Not available with other Key systems unless specified)
XC- Key System	11.21.	Acconstruction Key System (1 oct Ball)
VC Large Format	11-60-	Device to accent XC- Permanent Large Format Interchangeable Core. Disposable plastic Core- provided
Interchangeable Core	11-63-	Device provided with XC- Large Format Interchangeable Core Cylinder - (Includes masterkeving, grand masterkeving)
(Removable Core)	11-64-	Device provided with Keyed construction core to accept XC- Permanent Large Format Interchangeable Core (ordered separately)
	11-70-7P-	Device to accept XC- SFIC (7-Pin) XC- Permanent Cores, plastic disposable core provided
XC- Small Format	11-72-7P-	Device to accept XC- SFIC (7-Pin Keyed Construction Core provided) cylinder Permanent core ordered separately
Core	11-73-7P-	Device provided with XC- Small Format 7-Pin interchangeable core (Includes masterkeying, grand masterkeying)
	11-65-73-7P-	Device provided to accept XC- Uncombinated 7-Pin SFIC (Permanent) Core - (Packed Loose)
Construction Key	21-	SARGENT Lost Ball Construction Keying for Conventional, XC and Signature Series (N/A with 63- or 73-)
Systems	22-	SARGENT Construction Split Key System for Conventional Cylinders (Existing Systems Only) (N/A with 10-, 11-, 63- or 73-)
Old Style Removable	51-	Removable Core Cylinder (Old Style) provided (existing systems only)
Core	52-	Removable Construction Core (Old Style) Permanent core ordered separately (existing systems only)
Large Format	60-	Permanent Cores ordered separately)
(Removable Core)	63-	Device provided with Large Format Interchangeable Core Cylinder - (Includes masterkeying, grand masterkeying)
	64-	Device provided with Keyed construction core to accept Permanent Large Format Interchangeable Core (ordered separately)
	70-	Device to accept 6- or 7-Pin SFIC Permanent Cores, plastic disposable core provided
Small Format	72-	Device to accept 6- or 7-Pin SFIC (6-Pin Keyed Construction Core provided) Cylinder (Permanent Core ordered separately)
Interchangeable	(3-	Device provided with 6-Pin SFIC (Includes masterkeying, grand masterkeying)
Core	65-73-	Device provided to accept Uncombinated 6-Pin SFIC (Permanent) Core - (Packed Loose for field keying)
	72 70	Device provided to accept on combinated r-rm sinc (realmater) cole - (Packed bose to need keying) Device provided with Small Semmer 7, pin Interchangenhale Core - (Packed bose to need keying)
	81.	Device provided with bousings to accent Keso (83) & Keso F1 (F1-83-) removable cores (Permanent Cores ordered separately)
	87-	Device provided with SARGENT Keso Security Cylinder
	F1-82-	Device provided with SARGENT Kess F1 Security (Vinder (Patented)
Keso & Keso F1	83-	Device provided with SARGENT Kess Security Removable Core cylinder
	F1-83-	Device provided with SARGENT Keso F1 Security Removable Core cylinder (Patented)
	84-	Device provided with SARGENT Keso Construction Cores (Permanent Cores ordered separately)
Added Security	BR-	Bump Resistant Cylinder (Available with Conventional & Conventional XC Cylinders Only)
Less Cylinder	LC-	Less Cylinder - SARGENT supplies standard blocking rings for 1-1/8" Cylinders (For longer cylinders order collars/rings
	SC-	separately) APPROVED Schlage C keyway cylinder 0 bitted (not available with: 8004 8016 8044 8075 8076 8866 8304 8344 8275 100 BC@RY
Schlage Keyways	SE-	Schlage E keyway cylinder, 0 bitted (not available with: 8904, 8916, 8944, 8975, 8976, 8866, 8304, 8344, 8345, & 8376)
Lever to	SF-	L Lever to accept MEDECO KeyMark Large Format Interchangeable and Schlage Full Size Interchangeable Core (Supplied Less Cylinder, but with tailpiece needed) (Available for 88-K11.8, 88-C11.)
Acceptioninage		

Permit # _____

Note: For V-10 Cylinders and information, contact ASSA

AD8500 Narrow Design Rim Exit Device for Aluminum Doors

80 Series



Specifications for AD8500 Series Exit

Door Type	Aluminum Doors
Door Thickness	1-3/4" (44mm) minimum thickness. For doors over 1-3/4" to 2 1/4" thick, specify thickness and order as 31-
Stile	2" (114mm) minimum stile (Less Trim)
Rail sizes as determined by door width	Rails are available in 4 sizes, use door width to determine size needed. Rails will be factory cut to size, if door width is supplied • E Rail for 24" to 32" door widths • F Rail for 33" to 36" door widths • J Rail for 37" to 42" door widths • G Rail for 43" to 48" door widths
Strike	657 Strike, Supplied standard for panic devices 656 Strike, Supplied standard for panic devices 649 Strike, Supplied standard for fired rated devices Optional Strikes – 649, 658 Standard with 650A Mullion
Dogging Feature	Hex key dogging standard; specify 16- for cylinder dogging (#41 cylinder supplied)
Electric Options	AL- Alarm PL- SARGuide™ Photoluminescent Coated TL- SARGuide™ Illuminated Touchpad 53- LX Latchbolt Monitor 54- Outside Lever Monitoring 55- Request-to-Exit Signal - Rail Monitoring 56- Remote Latch Retraction 57- Delay Egress & Electromagnets 58- Electric Dogging 59- Electric Dogging 59- Electroguard – Self Contained Delayed Egress
Mounting Fasteners	Supplied standard with wood and machine screws Available with through-bolts and mortise (sex) nuts
Latch Bolt	Stainless steel, 3/4" (19mm) throw
Device Centerline from Finished Floor	41" (1041 mm) for Standard Applications
Center Case Dimensions	8-5/16" (211mm) x 1-1/16" (27mm)
Projection	Pushbar Neutral – 3" (77mm) Pushbar Depressed – 2-1/8" (54mm)

535 Kit for Windstorm Applications (WS-AD8500)

- Two Chassis Shims and Two End Cap Shims • Shims are 1/8" for
- a total height of 1/4'
- 649 Strike Pack
- 651 Stabilizer Kit



AD8500 Features

 Designed for narrow stile applications (e.g., aluminum frame full glass doors)

SARGENT

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- Single and double doors with mullion
- Single point rim latching device
- Quiet operation and solid security
- Devices are ANSI/BHMA A156.3 Grade 1
- Available Windstorm-rated; order WS-

657 Standard Strike for 8500

• Surface applied \bigcirc or mortised 0

For use on frames with blade stop or

integral stop

Black nylon coated

651 Mullion Stabilizer Kit



- Stabilizer block
- Furnished standard w/650A Mullion
- Order as a 651 Kit

656 Mullion Strike

- Surface applied • Use with 980 mullions
- Black nylon coated

604 Wear Plate Kit



- Surface applied
- Accommodates all sizes of door frame face



03/19

AD8500 Narrow Design Rim Exit Device Functions & Trim



80 Series

How to order:	Options F1-83-56	Series F AD85	unction 13	Rail Lgth F	Trim ETL	Hand RHR	Outside Finish 15	Inside Finish 32D	Door Width 36"
700 Corios ET Tu	in							_	Options
		SARGEN	ANSI				ANSI Ty ADS	/pe 4 500	AD8500
lever desi	gn after the ET	Numbers	Numbers	Description	& Cylinder Inf	o. (1-3/4" Door)	Pan	ic	Mechanical Options:
designation (e.g., ETL)	04*	03		Night Latch Key Retracts La #34 Cylinder Sup	ich plied	AD8504	x ET_	12- 16- 19- 31- 36-	
9		06	09	Key un Trim	locks Trim, Trim re relocks when key #41 Cylinder Sup	etracts latch/ s removed plied	AD8506	x ET_	37- 43- 53- 54- 55- 56-
Lever Designs fr	or FT Controls	10	01	No ou	tside operation (N	lo Cylinder)	AD85	510	56-HK- 57-
A, B, E, F, J, L, P, W		10	02	No ou ET	tside operation (N Control is used as	lo Cylinder) Pull Only	AD8510	x ET_	58- 59- 5CH-
Also available with Studio Collection L	Coastal Series & evers	13	08	Key	Outside Unlocks/l #41 Cylinder Sup	ocks Trim plied	AD8513	x ET_	BC-59- 76- 85- 86-
(Used to order ET	with Suffix without device)	15	14	Pa	assage Only (No cy	(linder)	AD8515	x ET_	AL- BT- CPC-
AD8500 Series: 704, 706-8, 710, 713-8, 715-8, 740, 743-8, 744, 746-8, 773-8 & 774-8		40	02	4)	Freewheeling Tr No outside opera Io Cylinder) Dumr	im - Ition ny Trim	AD8540	x ET_	GL- LD- PL- * SG- TL-
Freewheeling T	rim	-							WS-
The lever rotates will locked preventing e being applied to the	nen the door is excessive force from e horizontal lever	43	08	Key	Freewheeling Tr Outside Unlocks/l #41 Cylinder Sup	im - ocks Trim plied	AD8543	x ET_	10- 10-21- 10-63-
Electrified ET Tr	im ecified for the	- 44	03		Freewheeling Tr Key Retracts La #34 Cylinder Sup	im - tch plied	AD8544	x ET_	11-21- 11-60- 11-63- 11-64-
Tonowing functions: 73 and 74. Specify: 12VDC or 24VDC		46	09	Key un Trim	Freewheeling Tr locks Trim, Trim re relocks when key i #41 Cylinder Sup	im - etracts latch/ s removed plied	AD8546	x ET_	11-70-7P- 11-72-7P- 11-73-7P- 11-65-73-7P- 21- 22- 51-
		73		Ele Power O	ectrified ET Trim - ff, Unlocks Lever (I	Fail Safe No Cylinder)**	AD8573	x ET_	52- 60- 63-
		74		Elec Power (ctrified ET Trim - Fa Off, Locks Lever (N	il Secure o Cylinder)**	AD8574	x ET_	64- 70- 72- 73- 65-73-
		Note: Exit dev in 32 or 32D	vices are available to match accordi	e in all standard fin ngly. 32 or 32D is a	ishes, except 14, 1 automatically supp	5, 26 & 26D. With the lied when 26 or 26D i	se finishes, exit devices a s specified. For nickel fin	re supplied ishes, specify	65-73-7P- 73-7P-

Note: Exit devices are available in all standard finishes, except 14, 15, 26 & 26D. With these finishes, exit devices are supplied in 32 or 32D to match accordingly. 32 or 32D is automatically supplied when 26 or 26D is specified. For nickel finishes, specify 14/32 or 15/32D to receive nickel finished trims and stainless exit devices * Consult factory when using with cylinders from other manufacturers ** Cylinder override is not available with AD8500 Series Devices

84-8R-LC-SC-SE-Series * Only available with **Trim designations** 15, 26D and 32D finishes SARGENT ANSI Available **Function** Function **Description & Cylinder** Finishes Pull Trim Section Numbers Numbers Info. (1-3/4" Door) AD8500 Panic SARGENT Finishes BHMA Finishes Night Latch Key Retracts Latch #34 Cylinder Supplied AD8504 x 862 04 03 03 605 Pull only 04 09 606 611 AD8510 x 862 10 612 613 613E 614 618 862 Pull Only (Optional Pulls: 863 & 864) 10 02 Pull only 862 Pull APPROVED JOB COPY 619 for 20D 624 625 626 629

81-82-F1-82-83-F1-83-

1026 JN for EM 26D 10/16/2024 32

BSP

WSP

Permit #

630

-









ASSA ABLOY, the global leader in door opening solutions

80 Series

Windstorm Certifications: Florida Building Codes & UL Listings

SARGENT Manufacturing's products meet building codes that require hurricane, windstorm and FEMA certifications, including some of the most stringent building codes as specified in the Florida Building Code, Miami Dade Code and the International Building Code. Listed below are certifications and standards met by the 80 Series lock.

Florida Building Code: FL2998 UL Certification Directory: ZHEM.R21744 - Latching Hardware

ANSI/SDI-BHMA A250.13	"Testing and Rating of Severe Windstorm Resistant Components for Swinging Door Assemblies"
ANSI/ASTM E330	"Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference"
ANSI/ASTM E1886	"Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials"
ASTM E1996	"Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors and Impact Protective Systems Impacted by Windborne Debris in Hurricanes"
(TAS) 201	"Impact Test Procedures"*
(TAS) 202	"Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference"
(TAS) 203	"Criteria for Testing Products Subject to Cyclic Wind Pressure Loading"*

* Published in the "Florida Building Code"

Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and Sargent Manufacturing Company makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire rated opening, or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official (Authority Having Jurisdiction) to ensure compliance with all applicable codes and ratings.

UL Certification Directory: ZHLL.R21744 – Products for Use in Windstorm-rated Assemblies

Certifications to meet assembly requirements are done in conjunction with doors from ASSA ABLOY Group companies CECO DOOR and CURRIES.

ASTM E330	"Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference"
ANSI/ASTM E1886	"Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials"
ASTM E1996	"Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors and Impact Protective Systems Impacted by Windborne Debris in Hurricanes"
AAMA/WDMA/CSA 101/I.S.2/A440	"Standard/Specification for Windows, Doors, and Unit Skylights"
FEMA Publication 320 (2014)	"Taking Shelter From the Storm: Building a Safe Room for Your Home or Small Business", investigated with respect to impact and pressure requirements only.
FEMA Publication 361 (2015)	"Design and Construction Guidance for Community Safe Rooms", investigated with respect to impact and pressure requirements only.
ICC 500 (2014)	"ICC/NSSA Standard for the Design and Construction of Storm Shelters", investigated with respect to impact and pressure testing. Minimum missile impact speeds vary with the design wind speed desired for a particular product. The information below correlates design wind speed to the minimum missile speeds as discussed in Table 305.1.1 of ICC 500

Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and Sargent Manufacturing Company makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire rated opening, or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official Authority Having Jurisdiction) to ensure compliance with all applicable codes and ratings.



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cymaci mormation for Exit Devices					
Cylin Exit Device	der Chart: Series x Function	ET T (700 Series Aux	rim kiliary Control)	PTB, PSB, ST FLL, FSL,	rs, MAL, MSL, FLW, FSW
	Door Thickness	1-3/4 " (44mm)	2-1/4 " (57mm)	1-3/4 " (44mm)	2-1/4 " (57mm)
	8304	46	48	41	43
Normany Cetta	8313/8343	41	41	Not A	vailable
Mortise Exit Device	8344	46	48	Not A	vailable
	8363	Not Av	ailable	41	43
Narrow Stile	8375/8376	46	48	Not A	vailable
CVR Exit Device	All 8400	41	41	Not A	vailable
Narrow Stile	8504	34	34	Not A	vailable
RimExit	8513/8543	41	41	Not A	vailable
Concealed Vertical Rod	All LP/LR/LS8600	41		Not Available	
Exit Devices	All SP/PP/PR8600	41		Not Available	
	All AD, MD & WD8600	41	41	Not A	vailable
Surface	8706/8713/8743/8746	41	41	Not A	vailable
Vertical Rod	8762/8763	Not Av	ailable	34 34	
Exit Devices	All SP/PP/PR8700	41	N/A	Not A	vailable
	8804	34	34	34	34
	8806/8813/8843/8846	41	41	Not A	vailable
	8816	34/*44	34/*44	Not A	vailable
Rim Exit Devices	8844	34	34	Not A	vailable
	8863	Not Av	ailable	34	34
	8866	Not Av	ailable	34/*44	34/*44
	8875/8876/8877	34	34	Not A	vailable
	8904	46	48	41	43
	8913/8943	41	41	Not A	vailable
	8916	*34/46	*34/48	Not A	vailable
Mortise Lock Exit Devices	8944	46	48	Not A	vailable
	8963	Not Av	ailable	41	43
	8966	Not Av	ailable	*41/34	*43/34
	8975/8976	46	48	Not A	vailable

Cylinder Information for Exit Devices

* Inside Cylinders

Chart shows cylinder type and size for conventional SARGENT cylinders.

Note: Cylinder sizes & types are limited, as noted: SC- & SE- cylinders are available in size 41

60-, 63- & 64- cylinders are available in sizes 42, 43, 44 & 46 70-, 11-70-, 72-, 11-72-, 73- & 11-73 cylinders are available in sizes 43 & 46

Note: The 8888's Lever & Rose Trim cylinder standard is the standard SARGENT 10 Line cylinder (13-3266) **Note:** 41 Cylinder is 1-1/8" in length; For each additional digit, the cylinder is a 1/8" longer. Example: 42 is 1-1/4"; 43 is 1-3/8" and 4<u>6</u> is <u>4-3/4</u>" Note: SARGENT supplies standard blocking rings. Specify if using competitor cylinders Permit # 200

03/19 90641



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650A

Removable

Aluminum

US28/Satin

Anodized Aluminum

Specify "650A x 10B"

for 313AN to match 10B

96'

120"

658 Strikes Included

Not Required

1-1/2" x 2-1/2"

Includes 651 Stabilizers and

imbedded Weather Stripping

Top Retainer 94-2050

Bottom Retainer 94-2051

Aluminum Mullio

507A - Anodized Aluminum

n Mullions		Electrified
980	L980	EL980
Removable	Lockable	Electrical Lockable
Aluminum	Aluminum	Steel
Prime Coat	Aluminum Prime Coat	Gray Paint
Specify "980A" for Anodized US28/ Satin Aluminum	Specify: "L980A" Anodized Aluminum Specify: "L980A x10B" for 313AN to match 10B	Wall Mounting Kit: 98-2580 Top Ret Pack :98-2559
96"	96"	96"
120"	120"	120"
No	No	No
Not Required	#41	#46 Only
T Shaped 2-1/2" x 3"	T Shaped 2-1/2" x 3"	Rectangular 2" x 3"
Top Retainer - 511 Bottom Retainer - 502 Adapter for narrow transom: 507 - Aluminum Prime Coated	All Cylinder Options Available Wall Mount Kit 98-2578 Top Ret Pack 98-2526 Bottom Ret Pack 98-2525	For use with Electric Strikes and Monitoring, Quick Connec Wiring Supplied Cylinder Kit 980C2*

SARGENT

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Bottom Ret Pack 98-2525 Cylinder Kit 980C1*

*Note: Cylinder Kits must be ordered separately

Product Designation

Description

Material

Standard Finish

Options

Stk Size

Max Stk Height

Pre-prepped

Cylinder Size

Shape

Misc. Information

and Accessories

Steel Mullions

Product Designations	HC980	980S	L980S	HCL980	12-HD980
Description	Hurricane Code	Standard Mullion	Lockable	Lockable Hurricane Code	Heavy Duty
Material	Steel	Steel	Steel	Steel	Steel
Fire Rated	Specify 12-HC980	Specify 12-980	Specify 12-L980	Specify 12-HCL980	Specify 12-HD980
Fire Rated Max Height	96"	96"	96"	96"	120"
Finish	Gray Paint	Gray Paint	Gray Paint	Gray Paint	Gray Paint
Stk Size	96"	96"	96"	96"	120"
Max Stk Height	96"	120"	120"	96"	120"
Pre-prepped	No	No	No	No	No
Cylinder Size	Not Required	Not Required	#41 Std (#42 & #43 available)	#41 Std (#42 & #43 available) Not Required
Shape	Rectangular 2' x 3"	Rectangular 2" x 3"	Rectangular 2" x 3"	Rectangular 2" x 3"	Rectangular 2" x 3"
Misc. Information	Designed for severe wind load conditions due to hurricanes or windstorms. Tested to Dade County Protocols & ASTM Standards	For 12-8800 - Channel Iron & Malleable iron top & bottom retainers.	Fire rated for 8'0" x 8'0" paired openings	See Notes Below	12-HD980 is for pair of doors over 8'0" to 10'0" for use with 2-8800 Rim Exits includes two piece strikes
Accessories	Top Ret Pack - 98-2599 Bottom Ret Pack - 98-2600 Top Retainer Shim Kit - 601	Top Ret Pack - 98-2190 Bottom Ret Pack - 98-2191 Top Retainer Shim Kit - 601	Wall Mounting Kit - 98-2579 Top Ret Pack - 98-2559 Bottom Ret Pack - 98-2556 Top Retainer Shim Kit - 601 Cylinder Kit - 980C1*	- Top Retainer Pack: 98-2593 - Bottom Retainer Pack: 98-2594 - Top Retainer Shim Kit - 601 Cylinder Kit - 980C1*	Top Ret Pack - 98-2599 ottom Ret Pack - 98-2600 op Retainer Shim Kit - 601

*Note: Cylinder Kits must be ordered separately

Note for HC980/12-HC980 Mullions:

- Designed for severe wind load conditions due to hurricanes or tornadoes
- Tested to Dade County protocols and ANSI 250.13 ASTM Standards and **FEMA 361**
- 12- Fire labeled version
- Replacement lock kits are available for lockable mullions Part numbers for each model are listed in the price book

HCL980 Mullion Information



- Model 12-HC-L980 may be supplied for doors UL fire APPROVER and including 3 hrs not exceeding 8 ft in width and height^{OB COP}
- Meets the following standards: ANSI 250.13, ASTM ASTM 1886, ASTM 1996, TAS 201, TAS 202 & TAS 203
- Designed for use with UL Classified HC8810, HC8800 and -12-HC8800 rim exit devices

Mullion Accessories and Stabilizers

80 Series

Mullion Accessories

RK980

Latchbolt assembly retrofit kit with top and bottom retainers for 980 aluminum mullion



651 Mullion Stabilizer Kit



- Stabilizer block
- Furnished standard w/650A Mullion
- Order as a 651 Kit

980C1 Cylinder Mullion Kit



- Lockable mullions only
- Aluminum and steel
- Includes cylinder and collar
- Available in 26D & 10B finish

980C2 Cylinder Mullion Kit



- Lockable mullions
- Electrified only
- Includes cylinder and collar
- Available in 26D finish only

507 Narrow Transom Bars Adapter

- Available with 980 and 980A
- Required when soffit is 1-1/4" (32mm) to 2" (51mm) wide
- Order as a: 507 for 980 mullion or 507A for 980A mullion



650A Mullion



Lockable Mullion



Mullion Weights & Packaging

Product	Avg Wt	Case
Exit Device with Trim	15 lbs	1 ea
980 Mullion	18 lbs	1 ea
12-980 Mullion	40 lbs	1 ea
650A Mullion	18 lbs	1 ea

980S Mullion Application

• All steel mullions are 2" x 3"



980 Mullion & L980 Lockable Mullion



Lockable Mullion Cylinder Kit Options*

L980, L980A, L980S & HC-L980 mullions are available with these options: 10, 10-21-,

10-63-, 11-, 11-21-, 11-60, 11-63-, 11-64-, 11-72-7P-, 11-65-73-7P-, 11-73-7P-, 21-, 22-, 60-, 63-, 64-, 70, 72-, 73-, 65-73-, 65-73-7P-, 73-7P-, 81-, 82-, F1-82-, 83-, F1-83-, 84-, SC- & SE-.

EL980 mullion is available with these options:

10, 10-21-, 10-63-, 11-, 11-21-, 11-60, 11-63-, 11-64-, 11-72-7P-, 11-65-73-7P-, 11-73-7P-, 21-, 22-, 60-, 63-, 64-, 70, 72-, 73-, 65-73-, 65-73-7P-, 73-7P-, 81-, 82- & F1-82-.

*Lockable mullions are shipped without cylinders. Order Cylinder Mullion Kit separately.











Mechanical Options and Descriptions



80 Series

Mechanical Options:

Categories	How to Specify	Detailed Description					
Fire Rated	12-	UL Fire Label Exit hardware (not available with 16- & HK-)					
SVR Bolt	14-	Sliding bolt bottom case for 8700					
Culindar Dogging	16-	linder lockdown with # 41 Cylinder & # 97 Ring (not available with 12-, 57, 59-, AL- or BT- Option)					
Cylinder Dogging	LD-	Less dogging for non fire rated devices					
Less Touch Pad	19-	Pushbar without Lexan touchpad (not available TL-)					
8900/8300 Strike	23-	4-7/8" (124mm) ANSI flat lip strike (for 8900 & 8300 Series Mortise Lock Exit Devices)					
Thick Doors	31-	Doors over 1-3/4" and/or Panels (Specify door thickness, panel thickness & location as required) Not available for HC8700, FM8700, PP, PR & SP8700, PP, PR & SP8600, LP, LR & LP8700 Extended lip strike supplied for 8300 & 8900 Series					
	36-	Six lobe security head screws					
Security Fasteners	37-	Spanner head screws					
Flush End cap	43-	Flush End Cap (Not available with LP, LR & LS Devices)					
Indicator	49-	Indicator (Available on 8816 and 8866 functions only)					
	53-	Latchbolt monitoring switch (not available with 59-, GL-, HC-, WS- or on FM8700, PP/PR/SP8600 & LP/LR/LS8600 Exit Devices)					
	54-	Monitors ET Lever movement with Internal micro switch in ET Control					
	55-	quest to Exit - Signal Switch in Rail (not available with 59- & FM8700)					
	56-	emote Latch Retraction (not available 57-, 58-, 59-, AL- or BT- Option)					
	56-HK-	Remote Latch Retraction with manual Hex Key dogging (not available 12-, 57-, 58-, 59-, AL- or BT- Option)					
Electrical	57-	Delayed Egress (Electromagnetic Lock required & purchased separately) (not available 16-, 53-, 56-, 56-HK, 58-, 59-, AL, Bc-59- or BT, GL, TL Prefixes) (NB, 54- are available on request)					
Options 58-		Electric Rail Dogging (Not available 56- & 59-)					
	59-	Electroguard® Self Contained Delayed Egress Device (not available with 16-, 53-, 55-, 56-, 57-, 58-, AL-, BT-, GL-, HC- & WS Option Prefixes, PP/PR/SP8600, LP/LR/LS8600 Exit Devices) (NB, 54- are available upon request)					
	AL-	Alarmed Exit (Not available 16-, 56-, 57-, 59-, BT-, GL-, HC- & WS-)					
	BC-59-	Electroguard® Boca Code (Door Status Switch required) (not available with 16-, 55-, 56-, 57-, 58-, AL-, BT-, GL-, HC- & WS- Options and on NB8700, PP/PR/SP8600 & LP/LR/LS8600 Exit Devices)					
	TL-	SARGuide Electro-Luminescent Touchpad (not available 19-, 85-, 87- & PL-)					
	76-	Tactile Warning - Milled Outside Lever (not available with Studio & Coastal Levers and the A Lever)					
Tactile Warning	85-	Tactile Warning - Abrasive strip on Push Rail (Not available with PL- & TL-)					
Options	86-	Tactile Warning - Abrasive coating on Outside Lever					
	87-	Tactile Warning - Abrasive strip on Push Rail & Abrasive coating on Outside Lever (not available with PL- & TL-)					
Finish Destantion	CPC-	Clear Powder Coat (Available for 32 & 32D Finishes)					
Finish Protection	SG-	MicroShield® antimicrobial clear powder coat (only available with 15, 26D and 32D finishes)					
Top Rod Only	NB-	Less Bottom Rod & Bolt (for SVR & CVR Devices)					
Guarded Latch	GL-	Guarded Latch for Rim Exit Devices (not available 53-, 56-, 59-, AL-, HC- & WS-)					
SARGuide	PL-	SARGuide [™] PL – Photoluminescent Coated Push Rail – (Touchpad eliminated) (not available 85, 87 & TL-)					
Through Bolts	TB-	Through Bolts for 8300, 8500, 8600, 8700, 8800 & 8900 Devices					
Rail Force	5CH-	5lb. Pressure Release (8800 only)					

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Cylinder Options and Descriptions





Cylinder Options:

Conventional Cylinder	-	SARGENT Conventional Cylinders Supplied Standard (Unless Otherwise Specified)
	DG1-	SARGENT Degree Key System Level 1 (bump resistant with patented keys)
	DG1-21-	Degree Level 1 Construction Master Keving
	DG1-60-	Degree Level 1 Removable Disposable Construction Core
	DG1-63-	Degree Level 1 Removable Core
	DG1-64-	Degree Level 1 Removable Construction Keyed LEIC
	DG1-04-	
	DG1-65-	CAPCENT Degree Key Gestern Level 2 (see much inclusion huma on Anich and its attent)
	DG2-	SARGENT Degree Rey System Level 2 (geographically exclusive; bump and pick resistant)
-	DG2-21-	Degree Level 2 Construction Master Keying
Degree Key System	DG2-60-	Degree Level 2 Removable Disposable Construction Core
0,,,	DG2-63-	Degree Level 2 Removable Core
	DG2-64-	Degree Level 2 Removable Construction Keyed LFIC
	DG2-65-	Degree Level 2 Unassembled/Uncombined Core
	DG3-	SARGENT Degree Key System Level 3 (geographically exclusive; UL437 certified; bump and pick resistant)
	DG3-21-	Degree Level 3 Construction Master Keying
	DG3-60-	Degree Level 3 Removable Disposable Construction Core
	DG3-63-	Degree Level 3 Removable Core
	DG3-64-	Degree Level 3 Removable Construction Keyed LFIC
	DG3-65	Degree Level 3 Unassembled/Uncombined Core
Signature	10-	SARGENT Signature Key System (Not Available with other Key Systems)
Key System	10.21.	SARCENT Signature Construction Key System (Lost Ball)
Signaturo I EIC	10-21-	SARCENT Signature Large Format Interchangeable Core (Vinder (Domovable)
	10-03-	YC Key System (Not available with other Key systems unless specified)
XC- Key System	11.21.	Acconstruction Key System (1 oct Ball)
VC Large Format	11-60-	Device to accent XC- Permanent Large Format Interchangeable Core. Disposable plastic Core- provided
Interchangeable Core	11-63-	Device provided with XC- Large Format Interchangeable Core Cylinder - (Includes masterkeving, grand masterkeving)
(Removable Core)	11-64-	Device provided with Keyed construction core to accept XC- Permanent Large Format Interchangeable Core (ordered separately)
	11-70-7P-	Device to accept XC- SFIC (7-Pin) XC- Permanent Cores, plastic disposable core provided
XC- Small Format	11-72-7P-	Device to accept XC- SFIC (7-Pin Keyed Construction Core provided) cylinder Permanent core ordered separately
Core	11-73-7P-	Device provided with XC- Small Format 7-Pin interchangeable core (Includes masterkeying, grand masterkeying)
	11-65-73-7P-	Device provided to accept XC- Uncombinated 7-Pin SFIC (Permanent) Core - (Packed Loose)
Construction Key	21-	SARGENT Lost Ball Construction Keying for Conventional, XC and Signature Series (N/A with 63- or 73-)
Systems	22-	SARGENT Construction Split Key System for Conventional Cylinders (Existing Systems Only) (N/A with 10-, 11-, 63- or 73-)
Old Style Removable	51-	Removable Core Cylinder (Old Style) provided (existing systems only)
Core	52-	Removable Construction Core (Old Style) Permanent core ordered separately (existing systems only)
Large Format	60-	Permanent Cores ordered separately)
(Removable Core)	63-	Device provided with Large Format Interchangeable Core Cylinder - (Includes masterkeying, grand masterkeying)
	64-	Device provided with Keyed construction core to accept Permanent Large Format Interchangeable Core (ordered separately)
	70-	Device to accept 6- or 7-Pin SFIC Permanent Cores, plastic disposable core provided
Small Format	72-	Device to accept 6- or 7-Pin SFIC (6-Pin Keyed Construction Core provided) Cylinder (Permanent Core ordered separately)
Interchangeable	(3-	Device provided with 6-Pin SFIC (Includes masterkeying, grand masterkeying)
Core	65-73-	Device provided to accept Uncombinated 6-Pin SFIC (Permanent) Core - (Packed Loose for field keying)
	72 70	Device provided to accept on combinated r-rm sinc (realmater) cole - (Packed bose to need keying) Device provided with Small Semmer 7, pin Interchangenhale Core - (Packed bose to need keying)
	81.	Device provided with bousings to accent Keso (83) & Keso F1 (F1-83-) removable cores (Permanent Cores ordered separately)
	87-	Device provided with SARGENT Keso Security Cylinder
	F1-82-	Device provided with SARGENT Kess F1 Security (Vinder (Patented)
Keso & Keso F1	83-	Device provided with SARGENT Kess Security Removable Core cylinder
	F1-83-	Device provided with SARGENT Keso F1 Security Removable Core cylinder (Patented)
	84-	Device provided with SARGENT Keso Construction Cores (Permanent Cores ordered separately)
Added Security	BR-	Bump Resistant Cylinder (Available with Conventional & Conventional XC Cylinders Only)
Less Cylinder	LC-	Less Cylinder - SARGENT supplies standard blocking rings for 1-1/8" Cylinders (For longer cylinders order collars/rings
	SC-	separately) APPROVED Schlage C keyway cylinder 0 bitted (not available with: 8004 8016 8044 8075 8076 8866 8304 8344 8275 100 BC@RY
Schlage Keyways	SE-	Schlage E keyway cylinder, 0 bitted (not available with: 8904, 8916, 8944, 8975, 8976, 8866, 8304, 8344, 8345, & 8376)
Lever to	SF-	L Lever to accept MEDECO KeyMark Large Format Interchangeable and Schlage Full Size Interchangeable Core (Supplied Less Cylinder, but with tailpiece needed) (Available for 88-K11.8, 88-C11.)
Acceptioninage		

Permit # _____

Note: For V-10 Cylinders and information, contact ASSA

ET Trim, Levers and Pulls

A Lever

80 Series

ET Lever Controls







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(19mm) JM for EM Date Permit # 20240180



SIDE PROFILE



NB-8700 Top Latch Surface Vertical Rod Exit Device 80 Series

SARGENT ASSA ABLOY



Specifications for NB-8700 Series Exit

Door Type	Wood or metal doors
Door Thickness	1-3/4" (44mm) minimum thickness. For doors over 1-3/4" to 2-1/4" thick, specify thickness and order as 31-
Stile	4-1/2" (114mm) minimum stile with trim and 3-1/2" (44mm) minimum stile without trim
Rail sizes as determined by door width	 Rails are available in 4 sizes, use door width to determine size needed. Rails will be factory cut to size, if door width is supplied E Rail for 24" to 32" door widths, No cutting required for 32" door F Rail for 33" to 36" door widths, No cutting required for 36" door J Rail for 37" to 42" door widths, No cutting required for 42" door G Rail for 43" to 48" door widths, No cutting required for 48" door
Strike	646 Top Strike (Panic and Fire Rated)
Dogging Feature	Hex key dogging standard on non fired rated devices; specify 16- for cylinder dogging (#41 cylinder supplied)
Electric Options	AL- Alarm PL- SARGuide Photoluminescent Coated TL- SARGuide Illuminated Touchpad 53- LX Latchbolt Monitor 54- Outside Lever Monitoring 55- Request-to-Exit Signal - Rail Monitoring 56- Remote Latch Retraction 57- Delay Egress & Electromagnets 58- Electric Dogging 59- Delayed Egress
Mounting Fasteners	Supplied standard with wood and machine screws Available with through-bolts and mortise (sex) nuts
Top Bolt	Stainless steel
Device Centerline from Finished Floor	41" (1041mm) for Standard Applications
Door/Opening Height	Must be specified - 120" (3048mm) Max Door Opening
Center Case Dimensions	8-3/8" (213mm) x 2-5/8" (67mm)
Projection	Pushbar Neutral – 3" (76 mm) Pushbar Depressed – 2-1/8" (54 mm)
Fire Fxit Hardware	See Chart – Page 6

NB-300 Series Aux Control

- Available as an 06 or 13 function
- Supplied with SARGENT #41 Mortise Cylinder



• NB-300 is mounted in-line with the exit chassis

ed U

Note: NB 300 Series Controls only work with NB8710 Devices

646 Top Strike

- Standard for both Panic & Fire (12-) Hardware
- Surface applied
- Fire Rated
- Black nylon coated



NB-8700 Functions and Trims



80 Series

How to order	Coptions	Seri NB-8	es Functio 37 13	n Rail Lgth F	Trim Etl	Hand RHR	Outside Finish 26D	Inside Finish 32D	Door Width 36"	Doo	r Height 84"	AFF 41"
700 Series ET Exits wi lever de	Trim th ET Trim, speci esign after the ET	fy	SARGENT Function Numbers	ANSI Function Numbers	De	scription (1-3/	& Cylinder Info 4" Door)	A (Pa	NSI Type 2 NB-8700 anic & Fire)		Optic NB-87 Mechanical	O NS 700 Options:
designa	ntion (e.g., ETL)		06	09	Key Tr	v unlocks Trir im relocks w #41 Cylir	n, Trim retracts latch/ rhen key is removed nder Supplied	NB	-8706 x ET_		16- 19- 31- 36-	
9)		10	01	No	outside ope	ration (No Cylinder)		NB-8710		37- 43- 53- 54- 55-	
Lever Designs	for ET Contro	ols	10	02	No	outside ope ET Control is	eration (No Cylinder) s used as Pull Only	NB	-8710 x ET_		56- 56-H 57- 58-	K-
A, B, E, F, J, L, P, W Also available wit Studio Collectior	h Coastal Series Levers	&	13	08	!	Key Outside #41 Cylii	unlocks/locks trim nder Supplied	NB	-8713 x ET_		55- 5CH 76- 85- 86-	
ET Designatio (Used to order E	n with Suffix	<u>ce)</u>	15	14		Passage Or	nly (No cylinder)	NB	-8715 x ET_		87- AL- BT- CPC	
NB-8700 Series: 7 715-8, 740, 743-8 774-8	3, 746-8, 773-8 &	5, 1	40	02		Freewh No outs (No Cylinde	eeling Trim - ide operation er) Dummy Trim	NB	-8740 x ET_		PL- * SG TB- TL-	
Freewheeling The lever rotates locked preventing	Trim when the door is g excessive force	s from	43	08	ŀ	Freewh Key Outside U #41 Cylii	eeling Trim - Jnlocks/locks Trim nder Supplied	NB	-8743 x ET_		Cylinder O 10- 10-2 10-62 11-	ptions: - }-
being applied to the second se	the horizontal le Trim	ver	46	09	Кеу	Freewh unlocks Trir relocks whe #41 Cylir	eeling Trim - n, Trim retracts latch/ n key is removed nder Supplied	NB	-8746 x ET_		11-2 11-6 11-6 11-6	-)- 3- 4-
Voltage must be s following functio Specify: 12VDC o	specified for the ns: 73 and 74. r 24VDC		73		Powe	Electrified E er Off, Unlocl	ET Trim - Fail Safe ks Lever (No Cylinder)*	NB	-8773 x ET_		11-70- 11-72- 11-73- 11-65-73 21-	7P- 7P- 7P- 3-7P-
			74		Pov	Electrified ET	Trim - Fail Secure	NB	-8774 x ET_		22- 51-	
			Note: Exit devices in 32 or 32D to m 14/32 or 15/32D Note: AFF means Note: 12-NB8700 Note: 12-NB App * Cylinder overrid	s are available in al latch accordingly. to receive nickel fin Above Finished Flc devices require th lications require th e is not available v	l standard finis 32 or 32D is au hished trims ar hor, center line hermal pins hermal pin. The vith NB-8700 S	thes, except tomatically ad stainless e of rail Above ermal Pin sup series Device	14, 15, 26 & 26D. With the supplied when 26 or 26D exit devices e Finished Floor oplied when ordered as a s	ese finishes, exit dev is specified. For nick 12-NB Device.	ices are supplied el finishes, specify		60- 63- 64- 70- 72- 73- 65-73- 65-73-	3- 7P-
											73-71 81- 82- F1-82 83- F1-83	2- 3-
	NB-300 Seri Auxiliary Co	ies ontrol	SARGENT Function Numbers	ANSI Function Numbers	De	scription (1-3/	& Cylinder Info 4" Door)	Pa	NB-8700 anic & Fire		84- BR- LC- SC-	
			06	12	Tu	Key un Turn re rn relocks wl #41 Cylin	locks Turn, tracts latch/ hen key is removed ider Supplied	NB	8710 x 306		* Only availat 15, 26D and finishes Availa	ole with 132D
	NB300 Se Aux, Con	eries trol	13	11	К	ey Outside L #41 Cylin	Inlocks/locks Turn Ider Supplied	NB·	8710 x 313		Finish SARGENT Finishes	BHMA Finishes
			1	Note: When ord Example: NB-87 Note: NB-300 Se Auxiliary contro	ering NB-8700 10F x NB-306 > eries auxiliary o ls, ordered less) Series Exit E RHR x 32D : controls are o hardware, fi	Device x 300 Series Aux. C x 42" x 90" only used with NB-8710 D or use with NB-8710 are s	ontrol, specify 10 Fu levices. pecified as a NB-300	nction for the exit. 5 or NB-313 x finish.	APPF JOE Reviewed fr Code Comp Signed Signed	03 04 09 10 10 8 8 8 8 9 8 7 9 8 7 9 8 7 9 8 7 9 7 9 7	605 606 611 612 613 613E 614 618 619 624 625 626 629 630

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ASSA ABLOY, the global leader in door opening solutions

80 Series

Windstorm Certifications: Florida Building Codes & UL Listings

SARGENT Manufacturing's products meet building codes that require hurricane, windstorm and FEMA certifications, including some of the most stringent building codes as specified in the Florida Building Code, Miami Dade Code and the International Building Code. Listed below are certifications and standards met by the 80 Series lock.

Florida Building Code: FL2998 UL Certification Directory: ZHEM.R21744 - Latching Hardware

ANSI/SDI-BHMA A250.13	"Testing and Rating of Severe Windstorm Resistant Components for Swinging Door Assemblies"
ANSI/ASTM E330	"Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference"
ANSI/ASTM E1886	"Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials"
ASTM E1996	"Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors and Impact Protective Systems Impacted by Windborne Debris in Hurricanes"
(TAS) 201	"Impact Test Procedures"*
(TAS) 202	"Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference"
(TAS) 203	"Criteria for Testing Products Subject to Cyclic Wind Pressure Loading"*

* Published in the "Florida Building Code"

Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and Sargent Manufacturing Company makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire rated opening, or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official (Authority Having Jurisdiction) to ensure compliance with all applicable codes and ratings.

UL Certification Directory: ZHLL.R21744 – Products for Use in Windstorm-rated Assemblies

Certifications to meet assembly requirements are done in conjunction with doors from ASSA ABLOY Group companies CECO DOOR and CURRIES.

ASTM E330	"Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference"
ANSI/ASTM E1886	"Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials"
ASTM E1996	"Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors and Impact Protective Systems Impacted by Windborne Debris in Hurricanes"
AAMA/WDMA/CSA 101/I.S.2/A440	"Standard/Specification for Windows, Doors, and Unit Skylights"
FEMA Publication 320 (2014)	"Taking Shelter From the Storm: Building a Safe Room for Your Home or Small Business", investigated with respect to impact and pressure requirements only.
FEMA Publication 361 (2015)	"Design and Construction Guidance for Community Safe Rooms", investigated with respect to impact and pressure requirements only.
ICC 500 (2014)	"ICC/NSSA Standard for the Design and Construction of Storm Shelters", investigated with respect to impact and pressure testing. Minimum missile impact speeds vary with the design wind speed desired for a particular product. The information below correlates design wind speed to the minimum missile speeds as discussed in Table 305.1.1 of ICC 500

Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and Sargent Manufacturing Company makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire rated opening, or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official Authority Having Jurisdiction) to ensure compliance with all applicable codes and ratings.



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cymaci mormation for Exit Devices					
Cylin Exit Device	der Chart: Series x Function	ET T (700 Series Aux	rim kiliary Control)	PTB, PSB, ST FLL, FSL,	rs, MAL, MSL, FLW, FSW
	Door Thickness	1-3/4 " (44mm)	2-1/4 " (57mm)	1-3/4 " (44mm)	2-1/4 " (57mm)
	8304	46	48	41	43
Normany Cetta	8313/8343	41	41	Not A	vailable
Mortise Exit Device	8344	46	48	Not A	vailable
	8363	Not Av	ailable	41	43
Narrow Stile	8375/8376	46	48	Not A	vailable
CVR Exit Device	All 8400	41	41	Not A	vailable
Narrow Stile	8504	34	34	Not A	vailable
RimExit	8513/8543	41	41	Not A	vailable
Concealed Vertical Rod	All LP/LR/LS8600	41		Not Available	
Exit Devices	All SP/PP/PR8600	41		Not Available	
	All AD, MD & WD8600	41	41	Not A	vailable
Surface	8706/8713/8743/8746	41	41	Not A	vailable
Vertical Rod	8762/8763	Not Av	ailable	34 34	
Exit Devices	All SP/PP/PR8700	41	N/A	Not A	vailable
	8804	34	34	34	34
	8806/8813/8843/8846	41	41	Not A	vailable
	8816	34/*44	34/*44	Not A	vailable
Rim Exit Devices	8844	34	34	Not A	vailable
	8863	Not Av	ailable	34	34
	8866	Not Av	ailable	34/*44	34/*44
	8875/8876/8877	34	34	Not A	vailable
	8904	46	48	41	43
	8913/8943	41	41	Not A	vailable
	8916	*34/46	*34/48	Not A	vailable
Mortise Lock Exit Devices	8944	46	48	Not A	vailable
	8963	Not Av	ailable	41	43
	8966	Not Av	ailable	*41/34	*43/34
	8975/8976	46	48	Not A	vailable

Cylinder Information for Exit Devices

* Inside Cylinders

Chart shows cylinder type and size for conventional SARGENT cylinders.

Note: Cylinder sizes & types are limited, as noted: SC- & SE- cylinders are available in size 41

60-, 63- & 64- cylinders are available in sizes 42, 43, 44 & 46 70-, 11-70-, 72-, 11-72-, 73- & 11-73 cylinders are available in sizes 43 & 46

Note: The 8888's Lever & Rose Trim cylinder standard is the standard SARGENT 10 Line cylinder (13-3266) **Note:** 41 Cylinder is 1-1/8" in length; For each additional digit, the cylinder is a 1/8" longer. Example: 42 is 1-1/4"; 43 is 1-3/8" and 4<u>6</u> is <u>4-3/4</u>" Note: SARGENT supplies standard blocking rings. Specify if using competitor cylinders Permit # 200

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650A

Removable

Aluminum

US28/Satin

Anodized Aluminum

Specify "650A x 10B"

for 313AN to match 10B

96'

120"

658 Strikes Included

Not Required

1-1/2" x 2-1/2"

Includes 651 Stabilizers and

imbedded Weather Stripping

Top Retainer 94-2050

Bottom Retainer 94-2051

Aluminum Mullio

507A - Anodized Aluminum

n Mullions		Electrified
980	L980	EL980
Removable	Lockable	Electrical Lockable
Aluminum	Aluminum	Steel
Prime Coat	Aluminum Prime Coat	Gray Paint
Specify "980A" for Anodized US28/ Satin Aluminum	Specify: "L980A" Anodized Aluminum Specify: "L980A x10B" for 313AN to match 10B	Wall Mounting Kit: 98-2580 Top Ret Pack :98-2559
96"	96"	96"
120"	120"	120"
No	No	No
Not Required	#41	#46 Only
T Shaped 2-1/2" x 3"	T Shaped 2-1/2" x 3"	Rectangular 2" x 3"
Top Retainer - 511 Bottom Retainer - 502 Adapter for narrow transom: 507 - Aluminum Prime Coated	All Cylinder Options Available Wall Mount Kit 98-2578 Top Ret Pack 98-2526 Bottom Ret Pack 98-2525	For use with Electric Strikes and Monitoring, Quick Connec Wiring Supplied Cylinder Kit 980C2*

SARGENT

ASSA ABLOY

Bottom Ret Pack 98-2525 Cylinder Kit 980C1*

*Note: Cylinder Kits must be ordered separately

Product Designation

Description

Material

Standard Finish

Options

Stk Size

Max Stk Height

Pre-prepped

Cylinder Size

Shape

Misc. Information

and Accessories

Steel Mullions

Product Designations	HC980	980S	L980S	HCL980	12-HD980
Description	Hurricane Code	Standard Mullion	Lockable	Lockable Hurricane Code	Heavy Duty
Material	Steel	Steel	Steel	Steel	Steel
Fire Rated	Specify 12-HC980	Specify 12-980	Specify 12-L980	Specify 12-HCL980	Specify 12-HD980
Fire Rated Max Height	ire Rated Max Height 96"		96"	96"	120"
Finish	Gray Paint	Gray Paint	Gray Paint	Gray Paint	Gray Paint
Stk Size	96"	96"	96"	96"	120"
Max Stk Height	96"	120"	120"	96"	120"
Pre-prepped	No	No	No	No	No
Cylinder Size	Not Required	Not Required	#41 Std (#42 & #43 available)	#41 Std (#42 & #43 available) Not Required
Shape	Rectangular 2' x 3"	Rectangular 2" x 3"	Rectangular 2" x 3"	Rectangular 2" x 3"	Rectangular 2" x 3"
Misc. Information	Designed for severe wind load conditions due to hurricanes or windstorms. Tested to Dade County Protocols & ASTM Standards	For 12-8800 - Channel Iron & Malleable iron top & bottom retainers.	Fire rated for 8'0" x 8'0" paired openings	See Notes Below	12-HD980 is for pair of doors over 8'0" to 10'0" for use with 2-8800 Rim Exits includes two piece strikes
Accessories	Top Ret Pack - 98-2599 Bottom Ret Pack - 98-2600 Top Retainer Shim Kit - 601	Top Ret Pack - 98-2190 Bottom Ret Pack - 98-2191 Top Retainer Shim Kit - 601	Wall Mounting Kit - 98-2579 Top Ret Pack - 98-2559 Bottom Ret Pack - 98-2556 Top Retainer Shim Kit - 601 Cylinder Kit - 980C1*	- Top Retainer Pack: 98-2593 - Bottom Retainer Pack: 98-2594 - Top Retainer Shim Kit - 601 Cylinder Kit - 980C1*	Top Ret Pack - 98-2599 ottom Ret Pack - 98-2600 op Retainer Shim Kit - 601

*Note: Cylinder Kits must be ordered separately

Note for HC980/12-HC980 Mullions:

- Designed for severe wind load conditions due to hurricanes or tornadoes
- Tested to Dade County protocols and ANSI 250.13 ASTM Standards and **FEMA 361**
- 12- Fire labeled version
- Replacement lock kits are available for lockable mullions Part numbers for each model are listed in the price book

HCL980 Mullion Information



- Model 12-HC-L980 may be supplied for doors UL fire APPROVER and including 3 hrs not exceeding 8 ft in width and height^{OB COP}
- Meets the following standards: ANSI 250.13, ASTM ASTM 1886, ASTM 1996, TAS 201, TAS 202 & TAS 203
- Designed for use with UL Classified HC8810, HC8800 and -12-HC8800 rim exit devices

Mullion Accessories and Stabilizers

80 Series

Mullion Accessories

RK980

Latchbolt assembly retrofit kit with top and bottom retainers for 980 aluminum mullion



651 Mullion Stabilizer Kit



- Stabilizer block
- Furnished standard w/650A Mullion
- Order as a 651 Kit

980C1 Cylinder Mullion Kit



- Lockable mullions only
- Aluminum and steel
- Includes cylinder and collar
- Available in 26D & 10B finish

980C2 Cylinder Mullion Kit



- Lockable mullions
- Electrified only
- Includes cylinder and collar
- Available in 26D finish only

507 Narrow Transom Bars Adapter

- Available with 980 and 980A
- Required when soffit is 1-1/4" (32mm) to 2" (51mm) wide
- Order as a: 507 for 980 mullion or 507A for 980A mullion



650A Mullion



Lockable Mullion



Mullion Weights & Packaging

Product	Avg Wt	Case
Exit Device with Trim	15 lbs	1 ea
980 Mullion	18 lbs	1 ea
12-980 Mullion	40 lbs	1 ea
650A Mullion	18 lbs	1 ea

980S Mullion Application

• All steel mullions are 2" x 3"



980 Mullion & L980 Lockable Mullion



Lockable Mullion Cylinder Kit Options*

L980, L980A, L980S & HC-L980 mullions are available with these options: 10, 10-21-,

10-63-, 11-, 11-21-, 11-60, 11-63-, 11-64-, 11-72-7P-, 11-65-73-7P-, 11-73-7P-, 21-, 22-, 60-, 63-, 64-, 70, 72-, 73-, 65-73-, 65-73-7P-, 73-7P-, 81-, 82-, F1-82-, 83-, F1-83-, 84-, SC- & SE-.

EL980 mullion is available with these options:

10, 10-21-, 10-63-, 11-, 11-21-, 11-60, 11-63-, 11-64-, 11-72-7P-, 11-65-73-7P-, 11-73-7P-, 21-, 22-, 60-, 63-, 64-, 70, 72-, 73-, 65-73-, 65-73-7P-, 73-7P-, 81-, 82- & F1-82-.

*Lockable mullions are shipped without cylinders. Order Cylinder Mullion Kit separately.











Mechanical Options and Descriptions



80 Series

Mechanical Options:

Categories	How to Specify	Detailed Description			
Fire Rated	12-	UL Fire Label Exit hardware (not available with 16- & HK-)			
SVR Bolt	14-	Sliding bolt bottom case for 8700			
Cylinder Dogging	16-	Cylinder lockdown with # 41 Cylinder & # 97 Ring (not available with 12-, 57, 59-, AL- or BT- Option)			
	LD-	Less dogging for non fire rated devices			
Less Touch Pad	19-	Pushbar without Lexan touchpad (not available TL-)			
8900/8300 Strike	23-	4-7/8" (124mm) ANSI flat lip strike (for 8900 & 8300 Series Mortise Lock Exit Devices)			
Thick Doors	31-	Doors over 1-3/4" and/or Panels (Specify door thickness, panel thickness & location as required) Not available for HC8700, FM8700, PP, PR & SP8700, PP, PR & SP8600, LP, LR & LP8700 Extended lip strike supplied for 8300 & 8900 Series			
Security Fasteners	36-	Six lobe security head screws			
	37-	Spanner head screws			
Flush End cap	43-	Flush End Cap (Not available with LP, LR & LS Devices)			
Indicator	49-	Indicator (Available on 8816 and 8866 functions only)			
	53-	Latchbolt monitoring switch (not available with 59-, GL-, HC-, WS- or on FM8700, PP/PR/SP8600 & LP/LR/LS8600 Exit Devices)			
	54-	Monitors ET Lever movement with Internal micro switch in ET Control			
	55-	Request to Exit - Signal Switch in Rail (not available with 59- & FM8700)			
	56-	Remote Latch Retraction (not available 57-, 58-, 59-, AL- or BT- Option)			
Electrical Options	56-HK-	Remote Latch Retraction with manual Hex Key dogging (not available 12-, 57-, 58-, 59-, AL- or BT- Option)			
	57-	Delayed Egress (Electromagnetic Lock required & purchased separately) (not available 16-, 53-, 56-, 56-HK, 58-, 59-, AL, Bc-59- or BT, GL, TL Prefixes) (NB, 54- are available on request)			
	58-	Electric Rail Dogging (Not available 56- & 59-)			
	59-	Electroguard® Self Contained Delayed Egress Device (not available with 16-, 53-, 55-, 56-, 57-, 58-, AL-, BT-, GL-, HC- & WS Option Prefixes, PP/PR/SP8600, LP/LR/LS8600 Exit Devices) (NB, 54- are available upon request)			
	AL-	Alarmed Exit (Not available 16-, 56-, 57-, 59-, BT-, GL-, HC- & WS-)			
	BC-59-	Electroguard® Boca Code (Door Status Switch required) (not available with 16-, 55-, 56-, 57-, 58-, AL-, BT-, GL-, HC- & WS- Options and on NB8700, PP/PR/SP8600 & LP/LR/LS8600 Exit Devices)			
	TL-	SARGuide Electro-Luminescent Touchpad (not available 19-, 85-, 87- & PL-)			
Tactile Warning Options	76-	Tactile Warning - Milled Outside Lever (not available with Studio & Coastal Levers and the A Lever)			
	85-	Tactile Warning - Abrasive strip on Push Rail (Not available with PL- & TL-)			
	86-	Tactile Warning - Abrasive coating on Outside Lever			
	87-	Tactile Warning - Abrasive strip on Push Rail & Abrasive coating on Outside Lever (not available with PL- & TL-)			
Finish Protection	CPC-	Clear Powder Coat (Available for 32 & 32D Finishes)			
	SG-	MicroShield® antimicrobial clear powder coat (only available with 15, 26D and 32D finishes)			
Top Rod Only	NB-	Less Bottom Rod & Bolt (for SVR & CVR Devices)			
Guarded Latch	GL-	Guarded Latch for Rim Exit Devices (not available 53-, 56-, 59-, AL-, HC- & WS-)			
SARGuide	PL-	SARGuide [™] PL – Photoluminescent Coated Push Rail – (Touchpad eliminated) (not available 85, 87 & TL-)			
Through Bolts	TB-	Through Bolts for 8300, 8500, 8600, 8700, 8800 & 8900 Devices			
Rail Force	5CH-	5lb. Pressure Release (8800 only)			

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Cylinder Options and Descriptions





Cylinder Options:

Conventional Cylinder	-	SARGENT Conventional Cylinders Supplied Standard (Unless Otherwise Specified)
	DG1-	SARGENT Degree Key System Level 1 (bump resistant with patented keys)
	DG1-21-	Degree Level 1 Construction Master Keving
	DG1-60-	Degree Level 1 Removable Disposable Construction Core
	DG1-63-	Degree Level 1 Removable Core
	DG1-64-	Degree Level 1 Removable Construction Keyed LEIC
	DG1-04-	
	DG1-65-	CAPCENT Degree Key Gestern Level 2 (see much inclusion huma on Anich and its attent)
	DG2-	SARGENT Degree Rey System Level 2 (geographically exclusive; bump and pick resistant)
	DG2-21-	Degree Level 2 Construction Master Keying
Degree Key System	DG2-60-	Degree Level 2 Removable Disposable Construction Core
0,,,	DG2-63-	Degree Level 2 Removable Core
	DG2-64-	Degree Level 2 Removable Construction Keyed LFIC
	DG2-65-	Degree Level 2 Unassembled/Uncombined Core
	DG3-	SARGENT Degree Key System Level 3 (geographically exclusive; UL437 certified; bump and pick resistant)
	DG3-21-	Degree Level 3 Construction Master Keying
	DG3-60-	Degree Level 3 Removable Disposable Construction Core
	DG3-63-	Degree Level 3 Removable Core
	DG3-64-	Degree Level 3 Removable Construction Keyed LFIC
	DG3-65	Degree Level 3 Unassembled/Uncombined Core
Signature	10-	SARGENT Signature Key System (Not Available with other Key Systems)
Key System	10.21.	SARCENT Signature Construction Key System (Lost Ball)
Signaturo I EIC	10-21-	SARCENT Signature Large Format Interchangeable Core (Vinder (Domovable)
	10-03-	YC Key System (Not available with other Key systems unless specified)
XC- Key System	11.21.	Acconstruction Key System (1 oct Ball)
VC Large Format	11-60-	Device to accent XC- Permanent Large Format Interchangeable Core. Disposable plastic Core- provided
Interchangeable Core	11-63-	Device provided with XC- Large Format Interchangeable Core Cylinder - (Includes masterkeving, grand masterkeving)
(Removable Core)	11-64-	Device provided with Keyed construction core to accept XC- Permanent Large Format Interchangeable Core (ordered separately)
	11-70-7P-	Device to accept XC- SFIC (7-Pin) XC- Permanent Cores, plastic disposable core provided
XC- Small Format	11-72-7P-	Device to accept XC- SFIC (7-Pin Keyed Construction Core provided) cylinder Permanent core ordered separately
Core	11-73-7P-	Device provided with XC- Small Format 7-Pin interchangeable core (Includes masterkeying, grand masterkeying)
	11-65-73-7P-	Device provided to accept XC- Uncombinated 7-Pin SFIC (Permanent) Core - (Packed Loose)
Construction Key	21-	SARGENT Lost Ball Construction Keying for Conventional, XC and Signature Series (N/A with 63- or 73-)
Systems	22-	SARGENT Construction Split Key System for Conventional Cylinders (Existing Systems Only) (N/A with 10-, 11-, 63- or 73-)
Old Style Removable	51-	Removable Core Cylinder (Old Style) provided (existing systems only)
Core	52-	Removable Construction Core (Old Style) Permanent core ordered separately (existing systems only)
Large Format	60-	Permanent Cores ordered separately)
(Removable Core)	63-	Device provided with Large Format Interchangeable Core Cylinder - (Includes masterkeying, grand masterkeying)
	64-	Device provided with Keyed construction core to accept Permanent Large Format Interchangeable Core (ordered separately)
	70-	Device to accept 6- or 7-Pin SFIC Permanent Cores, plastic disposable core provided
Small Format	72-	Device to accept 6- or 7-Pin SFIC (6-Pin Keyed Construction Core provided) Cylinder (Permanent Core ordered separately)
Interchangeable	(3-	Device provided with 6-Pin SFIC (Includes masterkeying, grand masterkeying)
Core	65-73-	Device provided to accept Uncombinated 6-Pin SFIC (Permanent) Core - (Packed Loose for field keying)
	72 70	Device provided to accept on combinated r-rm sinc (realmater) cole - (Packed bose to need keying) Device provided with Small Semmer 7, pin Interchangenhale Core - (Packed bose to need keying)
	81.	Device provided with bousings to accent Keso (83) & Keso F1 (F1-83-) removable cores (Permanent Cores ordered separately)
	87-	Device provided with SARGENT Keso Security Cylinder
	F1-82-	Device provided with SARGENT Kess F1 Security (Vinder (Patented)
Keso & Keso F1	83-	Device provided with SARGENT Kess Security Removable Core cylinder
	F1-83-	Device provided with SARGENT Keso F1 Security Removable Core cylinder (Patented)
	84-	Device provided with SARGENT Keso Construction Cores (Permanent Cores ordered separately)
Added Security	BR-	Bump Resistant Cylinder (Available with Conventional & Conventional XC Cylinders Only)
Less Cylinder	LC-	Less Cylinder - SARGENT supplies standard blocking rings for 1-1/8" Cylinders (For longer cylinders order collars/rings
	SC-	separately) APPROVED Schlage C keyway cylinder 0 bitted (not available with: 8004, 8016, 8044, 8075, 8076, 8866, 8304, 8344, 8275, 1008 C@RY
Schlage Keyways	SE-	Schlage E keyway cylinder, 0 bitted (not available with: 8904, 8916, 8944, 8975, 8976, 8866, 8304, 8344, 8345, & 8376)
Lever to	SF-	L Lever to accept MEDECO KeyMark Large Format Interchangeable and Schlage Full Size Interchangeable Core (Supplied Less Cylinder, but with tailpiece needed) (Available for 88-K11.8, 88-C11.)
Acceptioninage		

Permit # _____

Note: For V-10 Cylinders and information, contact ASSA

76

ET Trim, Levers and Pulls

A Lever

80 Series

ET Lever Controls







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(19mm) JM for EM Date Permit # 20240180



SIDE PROFILE



8800 Rim Exit Device

80 Series

SARGENT[®] ASSA ABLOY

8800 Series Rim Exit Device



8800 Features

- Designed for standard width stile applications on wood and metal doors
- Also available as an HC8800 or WS8800 for hurricane-resistant applications, see Hurricane-Resistant section of this catalog
- Single point rim latching device
- Single door & double door applications with mullions
- Quiet operation and solid security
- ANSI/BHMA A156.3 Grade 1
- UL10C (Fire) and UL305 (Panic) Listed

Specifications

8800 Series Rim Exit Device

Door Type	Metal Doors
Door Thickness	1-3/4" (44mm) minimum thickness. For doors over 1-3/4" to 2 1/4" thick, specify thickness and order as 31-
Rail sizes as determined by door width	 Rails are available in 4 sizes, use door width to determine size needed. Rails will be factory cut to size, if door width is supplied E Rail for 24" to 32" door widths, No cutting required for 32" door F Rail for 33" to 36" door widths, No cutting required for 36" door J Rail for 37" to 42" door widths, No cutting required for 42" door G Rail for 43" to 48" door widths, No cutting required for 48" door
Strike	649 Standard Black Nylon Coated
Optional Strikes	642, 644 and 613
Dogging Feature	Hex key dogging standard on non fired rated devices; specify 16- for cylinder dogging (#41 cylinder supplied)
Electric Options	AL- Alarm PL- SARGuide Photoluminescent Coated TL- SARGuide Illuminated Touchpad
	49- Indicator 53- LX Latchbolt Monitor 54- Outside Lever Monitoring 55- Request-to-Exit Signal - Rail Monitoring 56- Remote Latch Retraction 57- Delay Egress & Electromagnets 58- Electric Dogging 59- Electroguard – Self Contained Delayed Egress
Mounting Fasteners	Supplied standard with wood and machine screws Available with through-bolts and mortise (sex) nuts
Latch Bolt	Stainless steel, 3/4" (19mm) throw
Device Centerline from Finished Floor	41" (1041 mm) for Standard Applications
Center Case Dimensions	8-3/8" (213mm) x 2-5/8" (67mm)
Projection	Pushbar Neutral – 3" (76 mm) Pushbar Depressed – 2-1/8" (54 mm)
Fire Exit Hardware	See Chart – Page 6

49- Lock/Unlock Indicator Option



- Displays whether the door has been secured by the inside cylinder.
- Red icon indicates locked
- White icon indicates unlocked
- Dogging overrides 49functionality (must order less dogging)
- Available on 8816 and 8866 functions only

649 Strike



- Supplied standard for panic & fire rated openings
- Surface applied
- Black nylon coated

03/19

90641



- 688 Trim Retrofit kit allows an 8800* Series rim exit with an ET to replace Von Duprin's 98/99 Series exit with trim with minimal door prep. Except for 16 function
- Order as: 688 Kit

642 Strike

Alternate Strikes For 8800 Rim Devices



• Mortised. Dimension "L" equals door thickness plus 1/2" (13mm). Black nylon coated on lip only



 Surface applied. For use on pairs of doors without mullion. Ductile Iron. Black nylon coated



8800 Functions and Trims



ASSA ABLOY

80	Series	
80	Series	

	Opt	tions Se	ries Fun	ction Rai	l Lgth	Trim		Outside Fi	nish I	nside Finish	Door W	'idth	
700 Serie	s FT Trim	5-50	SARCENT	ΔΝςι	1	LIL	NIIK	200		ANSI Type 1	50	Opt	ions
Ex	its with ET Trim	n, specify	Function	Function	ı	Descripti	on & Cylind	ler Info		8800		88	00
les de	ver design after	the ET ETL)	Numbers	Number	S	(1	-3/4" Door)			Panic & Fire	_	Mechanic	al Options:
6		, ,	04	03		Ke #34	Night Latch y Retracts Latc Cylinder Suppl	h ied		8804 x ET_		1	2- 6- 9- 1-
0)		06	09		Key unlocks Trim reloc #41	Trim, Trim reti ks when key is Cylinder Suppl	racts latch/ removed ied		8806 x ET_		3 3 4 5	6- 7- 3- 3-
1			10	01		No outside	operation (No	Cylinder)		8810		5	4- 5-
Lover Dec	ions for ET (ontrols	10	02		No outside ET Contr	operation (No ol is used as Pu	Cylinder) Ill Only		8810 x ET_		56 55	ь- -НК- 7-
A, B, E, F, J, L,	P, W		13	08		Key Outsi #41	de Unlocks/loo Cylinder Suppl	cks Trim ied		8813 x ET_		5 5 5	8- 9- 2H-
Also availab Studio Colle	le with Coastal ection Levers	Series &	15	14		Passage	e Only (No cyli	nder)		8815 x ET		BC 7 8	-59- 6- 5-
ET Design	ation with S	Suffix	16	10		Key Ou Key Inside	tside Retracts Unlocks/Locks	Latch; O/S Trim		8816 x ET_		8 8 4	6- 7- L-
8800 Series: 715-8, 716,	: 704, 706-8, 71 740, 743-8, 74	10, 713-8, 4, 746-8,	40	02	0/5	Free No c	ewheeling Trin outside operati	nder Supplied 1 - ion		8840 x ET_		C C L	1- PC- iL- D-
773-8, 774-8	8, 775-8 & 776	-8				(No Cyl	inder) Dummy	/Trim				Р **	L- SG-
Freewhee	eling Trim		43	08		Key Outsi #41	de Unlocks/loo Cylinder Suppl	cks Trim ied		8843 x ET_		T Cylinder	L- Options:
The lever ro locked preve being applie	tates when the enting excessiv ed to the horizo	door is re force from ontal lever	44	03		Free Ke #34	ewheeling Trin y Retracts Latc Cylinder Suppl	η- h ied		8844 x ET_		10 10 10 11	-21- -63- 1- -21
Flectrified	l FT Trim		46	09		Free Key unlocks Trim reloct #41	ewheeling Trin Trim, Trim reti ks when key is Cylinder Suppl	n - racts latch/ removed ied		8846 x ET_		11 11 11 11-7 11-7	-60- -63- -64- 0-7P- 2-7P-
Voltage mus	st be specified i	for the	73			Electrifi Power Off, Ui	ed ET Trim - Fa nlocks Lever (N	il Safe Io Cylinder)		8873 x ET_		11-7 11-65	3-7P- -73-7P-
following fu Specify: 12V	nctions: 73, 74 DC or 24VDC	ł, 75 and 76.	74			Electrifie Power Off, L	d ET Trim - Fail ocks Lever (No	Secure Cylinder)		8874 x ET_		2	2- 1- 2-
			75		Ро	Electrifi wer Off, Unlo #34	ed ET Trim - Fa cks Lever, Key Cylinder Suppl	il Safe Retracts Latch lied		8875 x ET_		6 6 7	0- 3- 4- 0-
			76			Electrifie Powe Ke #34	d ET Trim - Fail er Off, Locks Le y Retracts Latc Cylinder Suppl	Secure ver, h ied		8876 x ET_	72- 73- 65-73- 65-73-7P- 73-7P- 73-7P-		
			Note: Exit devi or 32D to mat	ices are availa ch accordingl	ble in all stan y. 32 or 32D i	dard finishes, s automatica	except 14, 15 lly supplied wh	, 26 & 26D. Wit nen 26 or 26D i	h these finishe s specified. For	s, exit devices are supplie nickel finishes, specify 14	d in 32 /32 or	8 8 F1- 8	1- 2- ·82- 3-
Pull & Thumbpiece Trim Section • Use thr Exit Dev			Use thre Exit Devi	e letter de ce with tri	Trim Des signation im	s (Ex "866-N) when orde	ering the	Series		FI 8 B L	-83- 4- R- C- 5C- 5E-	
				ordering	trim with	out an Exi	t Device, a	lways speci	fy finish			* Options a available	re not with 8816
					G	P			\cap			15, 26D	and 32D
SARGENT	ANSI	Descri	ption &	1	n	Ř	F	5				Avai	lable
Function Numbers	Function Numbers	Cylind (1-3/4	er Info. " Door)	J.	L.	at the	de la			8800 Panic & Fire		Fini	shes
04	03	Nigh Key Retr #34 Cylind	t Latch acts Latch er Supplied	814-FSL*	814- FSW*	814-MSL	* 814-PSB*	814-STS	862 Pull	8804 x Trim Designation		SARGENT Finishes	BHMA Finishes
10	02	No O/S Opera (Pull	tion or Cylinder Only)	810-FLL	810-FLW	810-MAI	. 810-PTB	810-STS	862 Pull	8810 x Trim Designation		04 09	606 611
28	15	Passag (No cy	ge Only /linder)	828-FLL	828-FLW	828-MAI	828-PTB	828-STS	N/A	8828 x Trim Designation		10B	612 613 613F
63	05	Key Outsio Locks Th #34 Cylind	de Unlocks/ umbpiece er Supplied	866-FLL	866-FLW	866-MAI	. 866-PTB	866-STS	N/A	8863 x Trim Designation	AF	PROVED B CORY	614 618 619
66	07	Key Outside I Key Inside Un Trim O/S #	Retracts Latch; locks/Locks O/S 34 & I/S #44	866-FLL	866-FLW	866-MAI	. 866-PTB	866-STS	N/A	8866 x Trim Designation	Reviewed Code Cor Signed 1916	200 for 26 nplian@6D	625 626 629

* FSL, FSW, MSL and PSB trims are used with (HC-& 12-) 8888 and 8804 only and are the same as FLL, FLW, MAL and PTB pulls except for cylinder hole located 3/8" (9mm) lowe?". Note: Thumbpiece trims for 63 and 66 function devices are identical and are identified as 66 function when trim is ordered separately. Note: FLW & FSW trims are not available in 32(630) or 320(630). Note: Pulls and thumb piece trims are not available in 14, 15, 26 or 26D. Permit # NBSF WSP

03/19

90641





Reviewed for Code Compliance Signed Mirr EM Date ______ Permit #

Accessories

ITEM	ACCESSORY	DESCRIPTION
	157D Torx® security bit	• Tamper resistant Torx® R20 insert bit.
	310-2-3 Astragal strike latch guard	• Designed to prevent tampering with the latchbolt, and the latchbolt keeper. Prevents one door from being opened before the other.
	2001-1 Wire-in bridge rectifier	 Converts AC to unfiltered DC. Rated 35 V, 2 Amp. Not recommended for 1006 Electric Strike.
a constant	2001M Plug-in bridge rectifier	 Converts AC to unfiltered DC. Rated 35 V, 1 Amp. Includes MOV and self-resettable fuse Not recommended for 1006 Electric Strike.
	2004M ElectroLynx® adapter	 Adapter between existing electric strikes and ElectroLynx[®] connectors.
And Free as	2005M3 SMART Pac® III Addition of Smart Pac to any electric strike extends the 5 year no-fault warranty to a 10 year no-fault warranty.	 In-line power controller able to receive input voltages from 12- 32V AC or DC. Built-in bridge rectifier. Reduces initial voltage by 25% to extend the life of the electric strike. Includes built-in resettable fuse, MOV, voltage regulation and input voltage level indicating and unit status. For use with 1006, input voltage must be DC.
	2006M Plug-in buzzer	• Audible operation indicator at 24 VDC, 75db at 11-3/4".
	2007M Plug-in pigtail connectors	• With 4" wire leads.



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i hesinnovations.com | 800 626 7590 | customerservice.hes@assaabloy.com Updated 9/28/22 Patent pending and/or patent.gug/WWW3ssaabloy.dss.com/patents

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And Free at	2005M3 SMART Pac® III Addition of Smart Pac to any electric strike extends the 5 year no-fault warranty to a 10 year no-fault warranty.	 In-line power controller able to receive input voltages from 12- 32V AC or DC. Built-in bridge rectifier. Reduces initial voltage by 25% to extend the life of the electric strike. Includes built-in resettable fuse, MOV, voltage regulation and input voltage level indicating and unit status. For use with 1006, input voltage must be DC.
	2006M Plug-in buzzer	• Audible operation indicator at 24 VDC, 75db at 11-3/4".
	2007M Plug-in pigtail connectors	• With 4" wire leads.



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i hesinnovations.com | 800 626 7590 | customerservice.hes@assaabloy.com Updated 9/28/22 Patent pending and/or patent.gug/WWW3ssaabloy.dss.com/patents

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Electric Strikes



1600 **Electric Strike**

Works with all brands of cylindrical and mortise locksets, with or without a deadbolt



Also available in a Complete One **Box Solution**

The 1600 Series electric strike accommodates up to a 1" deadbolt with enhanced vertical cavity spacing.

The 1600 Series Electric Strike sets a new standard in the industry by offering dynamic integrated adjustability and field configurable options compatible with any cylindrical or mortise lock. The modular design of the platform makes stocking and installing easier with interchangeable faceplates and accessories. For the first time, the aesthetics of an electric strike are complementary to other surrounding door hardware and blend in with the opening due to the fully finished design, available in eight finishes.

Features

Standard Features

Stainless steel construction

- Tamper resistant
- Static strength 1,500 lbs
- Dynamic strength 70 ft-lbs
- Endurance 1 million cycles
- Field selectable fail safe/fail secure
- Non-handed
- Interchangeable faceplates and accessories
- Field replaceable components
- Fully finished faceplate, keeper, case and trim
- Field adjustable integrated shim
- Strike body depth 1-5/8" [41.3mm]
- SecuriCare five-year, no-fault, no questions asked warranty

Optional Features

- LM Lock monitor
- **DLM** Dual lock monitors
- LMS Lock monitor and strike monitor
- **DLMS** Dual lock monitors and strike monitor

Accessories

- 157 Torx screws
- HESCUT-MTK Metal template kit
- 1600-104-xxx Lip extension trim adapter (finish to match)
- 1600-106-xxx 1006 adapter and trim enhancer kit (finish to match)
- **OPT-1SRK** Spring replacement kit
 - **OPT-1LM** Single lock monitor
 - **OPT-1DLM** Dual lock monitors
 - MOD-1SOL Solenoid replacement module





h.e.s.

ASSA ABLOY

















Permit # 20

1600 Electric Strike

Specifications

Certifications

- ANSI/BHMA A156.31, Grade 1
- UL 1034 burglary-resistant listed and suitable for outdoor use
- UL 294 listed
- RoHS compliant
- UL 10C fire rated, 3-hour single door (fail secure only)
- UL 10C fire rated, 1-1/2 hour double door (fail secure only)
- CAN/ULC-S104 fire door conformant
- NFPA-252 fire door compliant
- ASTM-E152 fire door compliant
- California Fire Marshal listed
- ANSI/SDI A250.13 windstorm resistant
- Florida Building Code approved TAS 201, 202, 203
- ANSI-ASTM E330

Frame Application

- Metal
- Wood

Electrical (DC Continous Duty)

- Dual voltage 12/24 VDC/VAC
- 240 mA at 12 VDC/120 mA at 24 VDC
- PoE friendly





How to Order

SERIES	MODEL	FINISH*	OPTION (S)
1600	– CS	- 630	– LM
Universal Electric Strike	(blank) Electric strike body only,	605 Bright Brass	(blank) No Monitor
	faceplates ordered separately	606 Satin Brass	LM Lock Monitor
	CS* Complete Electric Strike; includes	612 Satin Bronze	DLM Dual Lock Monitor
	1LB faceplate kit for latchbolts and	613 Bronze Toned	LMS Lock Monitor and
	TDB faceptate kit for deadboits	613E Dark Oxidized Satin Bronze Powder	Strike Monitor
	CLB* Complete Electric Strike for	629 Bright Stainless Steel	DLMS Dual Lock Monitors
	Latchbolt Locks; includes 1LB	630 Satin Stainless Steel	and Strike Monitor
		BSP Black Suede Powder	
	CDB* Complete Electric Strike for Deadbolt Locks; includes 1DB faceplate kit for deadbolts		
	SERIES 1600 Universal Electric Strike	SERIES MODEL 1600 – CS Universal Electric Strike (blank) Electric strike body only, faceplates ordered separately CS* Complete Electric Strike; includes 1LB faceplate kit for latchbolts and 1DB faceplate kit for latchbolts CLB* Complete Electric Strike for Latchbolts CDB* Complete Electric Strike for Deadbolt Locks; includes 1DB faceplate kit for latchbolts	SERIES MODEL FINISH* 1600 - CS - 630 Universal Electric Strike (blank) Electric strike body only, faceplates ordered separately 605 Bright Brass CS* Complete Electric Strike; includes 1LB faceplate kit for latchbolts and 1DB faceplate kit for latchbolts 612 Satin Bronze CLB* Complete Electric Strike for Latchbolts 613 Bronze Toned G13E Dark Oxidized Satin Bronze Powder 629 Bright Stainless Steel G30 Satin Stainless Steel 630 Satin Stainless Steel Back Suede Powder BSP Black Suede Powder

*Complete Pacs are only available in the 630 finish



NOTE: Electric strike compatibility is determined at time of electric strike product release. ASSA ABLOY is not responsible for incompatibility approver that have changed in design or craftsmanship by their respective manufacturers. When compatibility is a concern, contact Customer Support for the assistance.

Reviewed for Code Compliance

Updated 9/28/22 Patent pending and/or patent^{owe}

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Long door pulls are an artful and functional solution for any door. We offer both straight and offset versions. Most offen used as full height, these pulls are available in three diameters and any length from 3 feet to over 8 feet long; see price list for more information. Specify a mid-post on full height pulls to provide the most rigid grip where heavy doors or high wind loads are present.

			ivieg	long door pulls	
Straight P	ulls - Squar	e Ends	Offset Pulls - Square	e.Ends	
Pull No.	Diameter	CTC	Pull No. Diameter	CTC	
RM3300 RM3301	1" 1%"	36" to 96" 36" to 96"	RM3310 1" RM3311 1%"	36" to 96"	
RM3302	1%"	36" to 96"	RM3312 1%"	36" to 96"	
			G	9	
			æl æ		
₀⊣			ਕੀ ਕੀ		
Straight P	ulls - Round	Ends	Offset Pulls - Round	Ends	
Pull No.	Diameter	CTC	Pull No. Diameter	CTC	
RM3320 RM3321	1%"	36" to 96" 36" to 96"	RM3330 1" RM3331 1%"	36" to 96" 36" to 96"	
RM3322	1%"	36" to 96"	RM3332 1%"	36" to 96"	R
95			Application Suggesti	lone	
		inds		Optional Mid Post	
Straight P	Pulls - Bent E	CTC			
Straight P Pull No. RM3340	Diameter	CTC 36" to 96"		VV	
Straight P Pull No. RM3340 RM3341	Diameter 1" 1%"	CTC 36" to 96" 36" to 96"		VIII HVIII	
Straight P Pull No. RM3340 RM3341 RM3342	Diameter 1" 1%" 1%"	CTC 36" to 96" 36" to 96" 36" to 96"			

number with "MP" (example: RM3301MP). • Over 96" available on select finishes.



Checkmate[®] Stops and Holders **Adjustable Standard-Duty 10 Series**

Surface Mount – Interior – Medium Traffic Doors

Product Description & Features

- Single acting doors
- Non-handed
- Slide track design
- Recommended for medium traffic, medium weight doors
- Degree of opening fully adjustable and can be adapted to changing needs
- Heavy shock absorber spring provides compression before deadstop
- Can be ordered specifically as a stop, friction stay, or hold open.
- Multi-function unit is shipped as a stop. Can be converted to a hold open or friction in field. 5012-PKG (Adapter kit) included
- Complete screw packet with thru-bolts for door, wood and machine screws for frame
- Torx[®] screws optional for security applications, but heavy-duty units should be considered for high-security applications
- Standard architectural finishes
- Durable slider cam and shock block
- 110° maximum opening
- 3/4" square channel
- Stop function UL listed for fire door assemblies
- For pull side mounting or flush and rabbeted mounting on push side use angle jamb bracket adapter 5258
- Hanging means other than standard butts or offset pivots require special templating and pricing. Consult factory

ANSI No. Shipping H.Q Friction Stop Weight C05532 C05542 3.5 lbs. JOB COP

Door Opening Chart (in inches)

Butts	s Center		Model			
Pivots	Pivots	Friction	Н.О.	Stop	Multi	
*18 - 24	21 - 26-1/2	10-116	10-126	10-136	10-146	
24-1/16 - 30	26-9/16 - 32	10-216	10-226	10-236	10-246	
30-1/16 - 36	32-1/16 - 38	10-316	10-326	10-336	10-346	
36-1/16 - 42	38-1/16 - 45	10-416	10-426	10-436	10-446	
42-1/16 - 48	45-1/16 - 48	10-516	10-526	10-536	10-546	

*Butt hung only on this size door. No swing clear hinges.

Checkmate® Stops & Holders







Checkmate[®] Stops and Holders Options, Certifications, Limited Warranty, Specifications

Options

Less Spring – Suffix LS

Heavy duty slide track type stops have a spring in the end of the channel that keeps the slider from deadstopping. If these units are being used with electromechanical closer, where the door must deadstop, the LS option is needed. For non-adjustable models 1 and 9 only.

Angle Jamb Bracket Adapter – Standard-duty models suffix 5258 (non-handed) Heavy-duty models suffix 5458 (LH) or 5459 (RH)

When surface mounted units are mounted on a rabbeted door on the push side, flush door and transom on the push side, or in a reverse installation on the pull side of the door a special bracket is needed. Note that not all models can be mounted on the pull side of the door (*See specific model numbers in catalog.*)

Security Screws – Suffix Torx

Security screws can be supplied for exposed fasteners.

Certifications

All Rixson Checkmate[®] overhead stops and holders are in compliance with ANSI/BHMA 156.8, Grade 1 and 2 Standards. See individual products for sub sections. See individual models for UL Listing.



Limited Warranty

Rixson Checkmate[®] stops and holders are warranted for 2 years for defect. See *Rixson* price book for specific details of the limited warranty

Specifications

All overhead stops and holders shall be from a single manufacturer.

Standard-duty models used for interior or low to medium traffic doors.

Heavy-duty models used for exterior or high traffic doors or doors subject to abuse.

For extremely abusive areas or high winds use double lever arm type.

Coordinate deadstop and/or hold open location with concealed floor closers.

Checkmate products provide hold open and/or deadstop.







Reviewed for Code Compliance Signed ______ 10/16/2024 Date ______ Permit #_____2220100

SURFACE CLOSERS





Experience a safer and more open world







ASSA ABLOY

7500 SERIES INSTITUTIONAL DOOR CLOSER



CERTIFICATIONS

- ANSI/BHMA A156.4, Grade 1 certified BHMA
- UL/cUL listed for use on fire rated doors (**U**)
- ULIOC listed for positive pressure fire test
- 7500 door closers are designed to comply with requirements for the Americans with P Disabilities Act (A.D.A) and ANSI standard A117.1
- This product is manufactured in an ISO 9001, ISO 14001 facility
- Health product declaration and UL certified environmental product declaration
- GreenCircle certified environmental facts

CAUTION: Door Closers for Low Opening Force Applications:

Door closers installed in openings required to meet the requirements of the Americans With Disabilities Act or ANSI/BHMA Standard A117.1, when adjusted to meet those requirements, may not provide adequate closing power to dependably close and latch the door based on opening or site conditions.



An Environmental Product Declaration (EPD) documents the cradle-to-grave life cycle of a product and how it affects the environment. An important aspect of EPD® is to provide

the basis of a fair comparison of products and services by its environmental performance. EPDs can reflect the continuous environmental improvement of products and services over time and are able to communicate and add up relevant environmental information along a product's supply chain.

Windstorm

7500 door closers are UL certified for inswing and outswing single and pair (up to 8'0" x 8'0") door assemblies to ICC 500 for Storm Shelters. Additionally, the 7500 meets FEMA 361 guidelines. 7500 is part of a complete ASSA ABLOY tornado and hurricane shelter solutions utilizing Ceco StormPro 361, Curries StormPro 361, Fleming F5 doors and frames and McKinney SP hinges. APPROVED

JOB COPY Signed _____

Experience a safer and more open world



ASSA ABLOY

l



Adjustable Backcheck Position Valve

Allows the door opening position, where backcheck cushioning begins, to be adjusted to a greater

7500 SERIES

EXPLANATION OF FEATURES

Aluminum Alloy Housing

Closer bodies are constructed

carefully selected to accommodate

Provides a smooth constant control

of the door through its full opening

can be achieved when door, frame,

hardware and arm function do not

With few exceptions all series 7500

door closers are non-handed and

can be installed on either right or

body in both directions. Some

Sweep Speed Control Valve

Latch Speed Control Value

door's fully closed position.

and soffit plates to allow for

the closer be specified.

the closed position.

Tri-Style[®] Packing

installations.

Valve

left hand swing doors. Pinion shaft

extends vertically through the closer

options will require that the hand of

Allows adjustment of door speed

from the door's full open position

down to approximately 10° from

Allows adjustment of door speed

7500 comes with screws, brackets

regular, top jamb, and parallel arm

Adjustable Backcheck Cushion

Provides control of the door in

the opening cycle, beginning at

approximately 75° of door opening.

from approximately 10° down to the

and closing cycle. 180° door swing

interactive steel components and

of a special aluminum alloy,

operating conditions.

interfere

Non-handed

Rack & Pinion Operation

INSTITUTIONAL DOOR CLOSER

door angle, up to a maximum of 20° farther (approximately 95°).

Standard Molded Cover

Molded of high-impact U.L. listed material and covers the entire closer body assembly. This cover is nonhanded for all applications.

Warranty

These closers carry a limited 30-year warranty against defect, and life of the building on the aluminum housing.

Closer Fluid

NorGlide® closer fluid is a specially formulated multi-viscosity hydraulic fluid that contains lubricity and anti-oxidation agents that provide optimum performance and efficiency. This fluid complements the interaction of the door closer's aluminum housing with its steel and brass components, while maintaining stable viscosity to allow the door closer to perform in temperatures ranging from extremely high to as low as -40° F.

DOOR CLOSER POWER OPTIONS

Series 7500 Multi-Sized Door Closer

Adjustable through the entire power range of door closer sizes 1 through 6, as outlined in ANSI/ BHMA standard A156.4.

The series 7500 also conforms to the minimum opening force requirements of the Americans with Disabilities Act (A.D.A.) and ANSI/ BHMA standard A117.1 for interior doors.

Extra Power

For applications that require additional closing power to overcome stack pressure, high wind, unbalanced HVAC and other issues that can prevent the doors from closing, model 7706EP is available. Model 7706EP offers as much as 22 Ibs. of closing force (not adjustable, arm mounting (RA, TJ or PA) and degree of swing determine the exact Ibs.) Non-ADA doors only.

Corrosion-Resistant Door Closer

The series 7500SS door closers with molded plastic cover are available for use where corrosive conditions exist. This series is provided with brass adjustment valves, a 440 grade stainless steel pinion shaft, an all-aluminum body and bronze closer arm bushings; all other components are of 302/303 grade stainless steel. Fasteners are 8-18 stainless steel. This product is available for standard regular arm, top jamb and parallel arm, non-hold open, applications only.

Optional Metal Cover

This steel cover is non-handed for regular and parallel arm applications, but is handed for top jamb applications.

Cover is available in sprayed or architectural plated finishes.

Security Cover

Supplied standard with all series 7570 door closers. This deep drawn steel cover is handed for all



applications. The cover is fastened to the closer body at two points on top and to the door closer body stand-offs at two points on the bottom.

Optional ABS Cover

Consult factory for details



I

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EXPLANATION OF FEATURES

ASSA ABLOY

Enhanced Backcheck

This feature provides adjustable backcheck intensity beginning

at approximately 15° of the door opening cycle. It is intended for use in situations where the standard backcheck beginning at approximately 75° of door opening

allows too much unrestricted door travel to obtain control of the door

walls or structures. This feature is

detention facilities. Specify suffix

most frequently used in schools and

Adjustable Delayed Action Closing

An optional hydraulic feature that

closing cycle. This feature becomes

effective when the door is opened

and released at any point beyond

70°. The amount of time delay

depends upon the combination

of the angle of door release and

delay times of:

Non-Hold Open

Unitrol® arms.

valve adjustment. The valve can be

adjusted with a 1/8" (3mm) hex key

from no delay time up to maximum

OPTIONAL FEATURES – ARMS

Self-closes door every time door is

opened. Auxiliary stop (by others)

CloserPlus[®]. CloserPlus Sprina™ or

required except when using the

adds a third speed range to the

without the fear of peripheral damage to the door closer, door, frame, hinges or pivots; or adjacent

8000 Series

EBC.

700 Se







90° to 180°

Door Opening Degrees

Hold Open



Door Opened and Released at	Approximate Time of Delay Cycle
180°	4-5 minutes
120°	2-3 minutes
90°	25-30 seconds

Pressure Relief Safety Valve

The delayed action hydraulic system contains a pressure relief valve. Any time the door is forced toward the closed direction while it is in the closing cycle, the valve will open and permit the door to close. This prevents damage to door, frame and closer.

Suggested Applications

Delaved Action closing allows slow-moving traffic to clear the opening before the door closer's normal closing cycle begins. This

feature can be helpful in health care facilities such as hospitals and nursing homes. It provides sufficient time for persons on crutches or in wheelchairs to pass through a door without concern of it closing. At the same time, it can accommodate the facility's staff with movement of food service carts, beds, and other wheeled traffic.

7500 SERIES

INSTITUTIONAL DOOR CLOSER

Use of delayed action closers on many doors throughout industrial and commercial buildings can also assist the flow of traffic. Locations where additional time to clear the opening is advantageous are doors between office and factory/ warehouse facilities. doors to workshops or laboratories, to kitchen and food processing areas, etc.

Hold Open

CloserPlus®

Parallel Arm

85° to 110°

85° to 110°

1

85° to 180°

Achieved by means of ball and detent/ roller. Ball and detent or roller hold open is effective in a range of 85° to 110°.

CloserPlus

Spring™ Parallel Arm

85° to 110°

85° to 110°

Unitrol®

Parallel Arm

85° to 110°

85° to 180°

Unitrol®

Top Jamb

85° to 110°

85° to 180°

Hold open arm door closers are not permitted to be used on fire door assemblies

Low Profile

Regular,

Parallel

1

✔=180° trim a	ind template permitting	
	10/16/2024 Date	
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and more open world

Slide Trac

APPROVED

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ASSA ABLOY

APPLICATIONS

Regular Arm



Non-hold open arm shown This is the only pull-side application where a double lever arm is used. It is the most power efficient application for a door closer. Sufficient frame, door

Since the arm assembly projects directly out from the frame, this application may present an aesthetics issue or be prone to vandalism.

and/or ceiling clearance must be considered.



Parallel Arm

This application provides the most appealing design appearance for a surface-mounted door closer having a double lever arm. This also makes it beneficial in vandalism-prone areas. It is on the push side of the door and the arm assembly extends almost parallel to the door. In the closed position, there is very little or no hardware projecting beyond the frame face in most situations.

Due to the geometry of the arm it is approximately 25% less power-efficient than a regular arm application. The entire closer and arm assembly are mounted below the frame stop, requiring a top rail clearance on the door of between 6-5/8" (168mm), when using a low profile arm, to 7-1/4" (184mm), when using the hold open arm.



INSTITUTIONAL DOOR CLOSER

Top Jamb

Non-hold open arm shown

7500 SERIES

For efficiency reasons this application provides the best alternative to the regular arm application. There must be sufficient frame face and/or ceiling clearance for this application. It requires a top rail on the door of just 2-1/8" (54mm). This application provides the best door control for doors in exterior walls that swing out of a building.

The entire door closer and arm assembly project from the frame, similar to the regular arm application, where matters of appearance and malicious abuse can be of concern. Consideration must be given to depth of frame reveal.



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APPLICATIONS



Parallel Rigid Arm

Non-hold open arm shown

An enhanced variation of the standard parallel arm assembly that is intended for use in heavy traffic areas where auxiliary door stops are installed.

Hold open available - specify hand when ordering.



CloserPlus® Arm

Non-hold open arm shown

Similar to the Parallel Rigid arm, this arm incorporates a stop at the arm's soffit plate to dead stop the door at a predetermined degree of door swing between 85° and 110°, in 5° increments. Prior to dead stop the door closer's backcheck feature slows the door speed to reduce the impact of the stop action.

The CloserPlus arm is intended for use where an auxiliary door stop cannot be utilized and no more than moderate abuse is anticipated. Where more extreme conditions are expected, use of a Unitrol® arm is recommended.

Hold open strength is adjustable.



Non-hold open arm shown

CloserPlus Spring[™]

This arm has all of the characteristics of the CloserPlus arm with an additional steel buffer spring that provides greater protection at the end of the door opening cycle.

For extreme conditions, use of a Unitrol arm is recommended. Available with or without hold open.



CloserPlus Ramp[™]

The CLP-R uses a patent pending ramp and plunger design that easily slides into place reducing wear often seen on traditional hold open arms. Ideal for applications where the door will constantly be pulled out of hold open.



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<u>7500 Seri</u>

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8000 Series

600 Series

9300 Series



APPLICATIONS



Regular Rigid Heavy-Duty Arm

This double lever arm features a non-adjustable secondary arm. Orbitally riveted joints prevent tampering or disassembly. Prefix "R" to model number. Available non-hold open only.



Parallel Rigid Offset Arm

Non-hold open arm shown

This heavy-duty parallel rigid arm provides additional vertical clearance. It is well suited for applications where weather-stripping or other hardware prevents the use of the standard Parallel Rigid (PR) soffit plate. The non-hold open and hold arms allow 1-1/4" clearance. When used in conjunction with a 6891 spacer block, the PRO arm provides 1-7/8" clearance to accommodate the use of a surface overhead stop/holder.





Unitrol[®] Arm

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Unitrol[®] Parallel Arm

Can be used for either parallel arm or top jamb applications. Unitrol arms combine the features of a double lever arm overhead door stop/holder with the backcheck feature of the door closer to reduce door stopping shock loads to a minimum. The Unitrol uses a compression spring buffer at the soffit plate/arm shoe that will absorb 30 lbs. of force, 5° prior to the door's dead stop. Coupled with the door closer's backcheck feature, this arm provides the most controlled stop available with a surface door closer.

For parallel arm applications there are three different length arm assemblies. Each length is designed for a specific range of door widths to provide precise door control. This further lessens the dead stop impact on the door's hinges/pivots.

Only available in painted finishes.



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APPLICATIONS





Slide Track

Whether pull or push side mounted, slide track applications provide the designer with the smoothest lines available in a surface mounted door closer. The single lever arm allows components to be located in a stack configuration to minimize projection and eliminate obtrusive arm angles. The arm geometry reduces door closer power efficiency by approximately 25% from that of a regular arm.

A variation of the standard slide track application is available for pocket doors, where it is desirable to have the door closer completely concealed when the door is in the 90° open position. See page 26 for details.



Low Profile Pull Side



Low Profile Push Side

- Adjustable 85° to 110° (hold open and non-hold open). Track is supplied with a spring buffered stop. An auxiliary stop, by others, is recommended.
 - Specify if hold open unit is required.

Standard Unit:

180° swing (non-hold open, pull side only) is also available. This track assembly requires that a door stop, by others, be supplied to stop the door.





Low Profile Arm

Parallel Arm - Parallel Arm allows closer to be installed 1/2" (13mm) higher up on door than standard parallel arm appl (24 F40)

Supplied with 7580 series door closers for non-hold open installations only. Low profile arms have a reduced height elbow joint and a straight main arm. This enables the door closer to be installed in less vertical space

JM for EM

<u>7500 Seri</u>

1600





7570 Series

8000 Series

PULL SIDE SLIDE TRACK



Mounting holes for closer body are spaced 2-3/8" (60mm) vertically x 6-3/4" (171mm) horizontally.

R (inches/mm) Minimum Top Rail of Door with Frame Stop					
Without Drop Plate	With 7786 Drop Plate				
3-1/2" (89)	2-5/8" (67)				

Model Number		
Hold Open		
7500STH		

Notes:

- Door closers are set at midpower range from the factory
- Measurements are inches/mm unless noted
- Standard door widths: interior 32"-48" (81-122cm)
 - exterior 32"-38" (81-97cm)

78-BF Series

1700 Series



ASSA ABLOY

PUSH SIDE SLIDE TRACK



Mounting holes for closer body are spaced 2-3/8" (60mm) vertically x 6-3/4" (171mm) horizontally.

R (inches/mm) Minimum Top Rail of Door with Frame Stop		
Without Drop Plate	With 7786 Drop Plate	
6" (152)	2-5/8" (67)	

Model Number		
Non-Hold Open	Hold Open	
PS7500ST	PS7500STH	

Notes:

- Door closers are set at midpower range from the factory
- Measurements are inches/mm unless noted
- Standard door widths: interior 32"-48" (81-122cm) exterior 32"-38" (81-97cm)



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<u>1700 Serie:</u>



ASSA ABLOY

LOW PROFILE PULL SIDE SLIDE TRACK



Mounting holes for closer body are spaced 2-3/8" (60mm) vertically x 6-3/4" (171mm) horizontally.

R (inches/mm) Minimum Top Rail of Door with Frame Stop			
Without Drop Plate	With 7786 Drop Plate		
3-1/2" (89)	2" (51)		

Model Number		
Hold Open		
7540STH		

Notes:

- Door closers are set at midpower range from the factory
- Measurements are inches/mm unless noted
- Standard door widths: interior 32"-48" (81-122cm)



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7500 Series



7570 Series

8000 Series

1600 Series

9300 Series

78-BF Series

<u>1700 Serie:</u>

210 Series

9500 Series

9540 Series

LOW PROFILE PUSH SIDE SLIDE TRACK



Mounting holes for closer body are spaced 2-3/8" (60mm) vertically x 6-3/4" (171mm) horizontally.

R (inches/mm) Minimum Top Rail of Door with Frame Stop	
Without Drop Plate	With 7786 Drop Plate
5-1/4" (133)	3-5/8" (92)

Model Number		
Non-Hold Open	Hold Open	
PS7540ST	PS7540STH	

Notes:

- Door closers are set at midpower range from the factory
- Measurements are inches/mm unless noted
- Standard door widths: interior 32"-48" (81-122cm)



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POCKET DOOR 7706EPSTP

Ref. - Top of Wall Pocket

0

IMPORTANT

Wall Reinforcement (by others) Must Be Sufficient to Withstand

Door Action

Slide Tracl

Door

Ref. - Top of Wall Pocket

23"

(584)

 $\frac{2-1/4"}{(57)}$ to $\frac{4-1/4"}{(108)}$ Pocket Depth

3/4"

(19)

5-1/2" (140)

3/4" (19)

5-1/2"

(140) **e** Pivot

• Hinge or Pivot

ASSA ABLOY

0

410 Se

 Important

 Wax.

 Important

 Wall Reinforcement (by others)

 Must Be Sufficient to Withstand

 Door Action





INSTITUTIONAL DOOR CLOSER

7500 SERIES

7706EPSTP Closers Slide Track for 90° Wall Pocket Installation For Pocket Depths 2-1/4" to 4-1/4" (57mm to 108mm)





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7570 Series

8000 Series

1600 Series

<u>9300 Series</u>

78-BF Series

<u>1700 Serie</u>:

210 Series

<u>9500 Series</u>



ASSA ABLOY

RETROFIT PLATE



The retrofit plates allow the 7500 door closers to replace the 4040 or 4010 closers without modifying the existing hole pattern in the door. The plates will work with regular and parallel arm applications.

Model Number	Replaces
RP75-4040	LCN-4040XP
RP75-4010	LCN-4010, 4011

• The location of the arm shoe on the frame will change, therefore the frame must be patched.



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1-1

(38)

210 Series



REGULAR ARM

ASSA ABLOY

NORTON RIXSON

Closer Mounting Plate



Narrow Top Rail - 7786 Drop Plate: For use where the narrow top rail of the door prevents the closer from being mounted directly to the door surface. This drop plate must be used for closer mounted on a top rail between 1-7/8" and 3-3/8" (48 and 86mm) in height.



Overhead Door Holder - 7786OH Drop Plate: For use when the presence of a surface or concealed overhead door holder prevents normal mounting of closer body due to interference between closer's mounting screws and door holder track. This drop plate's mounting screws are located on the door surface 2-3/8" down from the frame rabbet allowing room for placement of the surface mounted or overhead concealed door stop/holder.

Brackets for Non-Hold Open Arms

Brackets for Non-Hold Open Arms

3-5/16"



Molded/Bull Nose Trim - 2403B Bracket: For use where the door frame has molded or bull nose trim which will not accept a standard non-hold open shoe. The bracket is mortised into the frame rabbet, and projects beyond the face of the frame. It will accommodate a frame rabbet up to 2" (51mm) deep.

3-3/4 (95) (38)

Molded/Bull Nose Trim - 2403-3/4 Bracket: This bracket is similar to - but longer than - the 2403B bracket. It is designed to accommodate frame rabbets from 2" to 2-7/8" (51 to 73mm) deep.

Molded/Bull Nose Trim - 80 Bracket: For use where the door frame has molded or bull nose trim which will not accept a standard hold open shoe. It is mortised into the frame rabbet, and projects beyond the face of the frame. It WAPPROVED accommodate a rabbet up to 2" (51mm) deop.conis bracket is used in combination with the standard hold open mounting shoe. JM for EM

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ASSA ABLOY



REGULAR ARM

Corner Brackets for Closer Mounting



Mounting Opposite Hinge Side - 7798 Standard Drop Corner Bracket: For use where it is desired to mount a regular arm non-hold open closer.



clear a separate overhead door holder. This bracket drops the closer 1-1/8" (29mm) lower than the 7798

Corner Bracket.

TOP JAMB

Closer Mounting Plates



Narrow Frame - 7786 Back Plate: For use where a narrow frame face prevents the closer from being mounted directly to the frame. This back plate must be used for closer mounted on a frame between 1-7/8" and 3-1/8" (48 and 79mm) in height.



Low Ceiling Clearance - Overhead Door Holder

- 7787 Drop Plate: For use where the ceiling clearance is between 1-7/8" and 3-7/8" (48 and 98mm) or where a surface or concealed overhead door holder prevents normal top jamb mounting. This plate drops the closer and allows the arm mounting screws to clear the bottom of the door holder. This places the centerline of the arm mounting screws at 3-1/8" (79mm) from the top of the door.



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PARALLEL ARM

Closer Mounting Plate



Narrow Top Rail - 7788 Drop Plate: For use where a narrow top rail prevents the closer from being mounted directly to the door surface. This drop plate can be used to mount a closer on a top rail as narrow as 2-1/2" (64mm) in height.

Brackets for Non-Hold Open Arms



Standard Installation - 1618 Soffit Plate: Supplied standard with parallel arm closers. It can be mounted where the frame soffit is as narrow as 1" (25mm). Specify 1618A-SS for stainless steel soffit plate.



Narrow Frame/Removable Stop - 2018B Soffit

Plate: For use where a narrow frame or frame with removable stop does not permit use of the standard soffit plate. This soffit plate may be mounted on the frame soffit or the frame rabbet where the stop does not exceed 5/8" (16mm) in height. All of the screw holes are in a straight line, requiring as little as 1-1/4" (32mm) of frame reveal to mount bracket and maintain good closer arm geometry. Where the frame soffit is as wide as 2" (51mm), this soffit plate may be used to clear weather-stripping that is up to 1-3/8" (35mm) wide and 5/8" (16mm) in height.





Mounting between Doors - 2018 Soffit Bracket:

For use where insufficient space between companion doors does not permit use of other soffit plates. This bracket permits mounting of the closer between doors with as little as 3" (76mm) of header space. Permits closer arm to clear up to 5/8" (16mm) high stop.



Blade/Applied Stop - 2018D Soffit Plate: For use where a blade or applied stop does not permit installation of the standard soffit plate. Mounts to either the frame soffit or rabbet. Since this soffit plate projects 7/8" (22mm) less than a standar soffit plate, it requires a minimum frame reveal 1-1/2" (38mm). Permits closer to clear up to approved (16mm) stop. JOB COPY



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(64)

For use where rabbeted or flush transom

conditions prevent installation of the standard 1628H hold open adapter plate. It is used in combination with the 1628H adapter plate.







Extra-Clearance - 2018S Offset Soffit Plate: For use where the need for additional clearance prevents use of the standard soffit plate. This plate mounts to the frame soffit to provide up to 2" (51mm) of clearance when a separate overhead door holder is used. Standard mounting requires a 2-5/8" (67mm) wide frame soffit. It may also be used where unusually high frame stops or weather-stripping prevent the use of other soffit plates.

PARALLEL ARM

7500 SERIES

Brackets for Non-Hold Open Arms (continued)

INSTITUTIONAL DOOR CLOSER



Flush Transom - 2022 Angle Bracket: For use where rabbeted or flush transom conditions prevent installation of a soffit plate. Used in combination with the 1618 soffit plate, or may be used in combination with the 2018S soffit plate when it is necessary for the closer arm to clear a separate overhead door holder.

Brackets for Hold Open Arms



Parallel Hold Open - 1628H Adapter Plate: Supplied standard with all parallel arm hold open closers. It can also be used to convert regular arm or top jamb hold open arms to parallel arm installation. It can be mounted where the frame soffit is as narrow as 1" (25mm).









PARALLEL RIGID ARM

NORTON RIXSON

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Closer Mounting Plate



Narrow Top Rail - 7788 Drop Plate: For use where a narrow top rail prevents the closer from being mounted directly to the door surface. This drop plate can be used to mount a closer on a top rail as narrow as 2-1/2" (64mm) in height.

Brackets for Non-Hold Open Arms & Hold Open Arms



Standard - 2019S Spacer Block: For use where a narrow frame soffit does not provide adequate support for the soffit plate. Supplied as standard with all parallel rigid arm closers.



Narrow Frame - 6890 Support Bracket: For use where the frame is narrow, and the soffit plate cannot be mounted directly to the frame soffit or rabbet. Used in combination with the 6891 Spacer B lock on blade stop frames to provide extra support and needed clearance of the blade stop. Used on frames where the frame stop does not exceed 5/8" (11mm) in height.



Flush Rabbeted Transom - 2019L Angle Bracket: For use where flush transom conditions prevent mounting of the standard soffit plate. This bracket is used in combination with the standard soffit plate.



Clearance/Support Blade Stop - 6891 Spacer Block:

For use where the door frame has a blade stop and the soffit plate must be mounted on the frame rabbet. This accessory is used in combination with the standard spacer block to provide clearance of the blade stop.



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CLOSERPLUS® ARMS

Closer Mounting Plate

Narrow Top Rail - 7788 Drop Plate: For use where a narrow top rail prevents the closer from being mounted directly to the door surface. This drop plate can be used to mount a closer on a top rail as narrow as 2-1/2" (64mm) in height.



Brackets for Non-Hold Open Arms & Hold Open Arms



Standard - 2019S Spacer Block: For use where a narrow frame soffit does not provide adequate support for the soffit plate. Supplied as standard with all parallel rigid arm closers.



Flush Rabbeted Transom - 2019L Angle Bracket:

For use where flush transom conditions prevent mounting of the standard soffit plate. This bracket is used in combination with the standard soffit plate.



Narrow Frame - 6890 Support Bracket: For use where the frame is narrow, and the soffit plate cannot be mounted directly to the frame soffit or rabbet. Used in combination with the 6891 Spacer Block on blade stop frames to provide extra support and needed clearance of the blade stop. Used on frames where the frame stop does not exceed 5/8" (11mm) in height.



Clearance/Support Blade Stop - 6891 Spacer Block: For use where the door frame has a blade stop and the soffit plate must be mounted on the frame rabbet. This accessory is used in combination with the standard spacer block to provide clearance the blade stop. APPROVED

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JM for EM

1600 Series

<u>7500 Serie</u>

7570 Series

1700

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1600 Series

9300 Series

78-BF Series

700 Series

210 Series

9500 Series

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UNITROL® ARM

Closer Mounting Plate (for Parallel Arm)



Narrow Top Rail - 7788 Drop Plate: For use where a narrow top rail prevents the closer from being mounted directly to the door surface. This drop plate can be used to mount a closer on a top rail as narrow as 2-3/8" (60mm) in height.

Soffit Plate Reinforcing Brackets (for Parallel Arm)



Additional Support - 6190 Reinforcing Bracket: Standard for use with all Parallel Arm Unitrol Door Controls. Provides additional support to the soffit plate on installations with door frame reveals from 1-7/8" to 4-5/8" (48 to 117mm).





Flush Rabbeted Transom - 2022 Angle Bracket: Optional for use with all Parallel Arm Unitrol Door Controls. For use where rabbeted or flush transom conditions prevent installation of the soffit plate assembly. This bracket fastens to the overhead transom to provide a mounting surface for the soffit plate assembly.



Wide Frame - 6191 Reinforcing Kit: Optional for use with all Parallel Arm Unitrol Door Controls. Used to support the soffit plate on installations with wide frames. Clamps may be used with or without the spacer block, depending on frame conditions.

Closer Mounting Plate (for Top Jamb)



Standard Installation - 7786 Back Plate: Can be mounted where a frame face is as narrow as 1-5/8" (41mm) in height.



Minimum Ceiling Clearance - 7787 Drop Plate: Fo use where the ceiling clearance is as little Repetter 7/8" (48mm).





SLIDE TRACK



Slide Track - 7786JP Back Plate: Required for frames with standard 2" (51mm) profile face. Without plate, minimum 4" (102mm) face frame required.



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DOOR CLOSER BODY ASSEMBLIES



SNB's

SNB134-47

SNB200-47

SNB214-47

SNB134SS-47

STEEL DOOR

ПП

Sleeve Nut: "SN" (4 per pack) or Sleeve Nut & Screw: "SNB" (4 per pack)

Door

Thickness

1-3/4"

2"

2-1/4"

S.S. SNB'S

1-3/4"

(Stainless Steel) SN's

SN-134

NA

SN-214

SN-134SS

ALUMINUM AND WOOD DOOR APPLICATION (ALUMINUM DOOR SHOWN)

Through-Bolt & Grommet Nut: "TBGN" (4 per pack)





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FINISHES

Norton Rixson offers waterborne acrylic, polyster powder coat and plated finishes. Custom finishes are available on special order. A sample and approval is required. Waterborne acrylic and polyester powder coat will withstand 100 hours of salt spray (ANSI requires 25 hours).

Specify BHMA Designation	Description	Specify BHMA Designation	Description	Complements the following finishes
600 ¹	Prime Coat	689	Aluminum	628, 625, 629, 630, 651, 652
605 ²	Bright Brass	690	Statuary Bronze	640, 613
606 ²	Satin Brass	691	Dull Bronze	612, 637, 639
6112	Bright Bronze	693	Black	315
612²	Satin Bronze	694	Medium Amber	313
613E	Dark Oxidized Satin Bronze - Equivalent	696	Gold	605, 606, 632, 633
619 ²	Satin Nickel	BSP	Black Suede Powder	
625²	Bright Chrome	WSP	White Suede	
626 ²	Satin Chrome		Powaer	

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- 600 is a special rust-inhibiting prime coat. Closers can be ordered prime coat only (specify closer x 600). An additional charge applies if finish coat is required over prime coat.
- Closer bodies and plastic covers are available in waterborne acrylic finishes. Arms and metal covers are available in powder coat or plated finishes.
- When a plated finish is ordered, arm and cover will be plated unless "cover only" is specified.





<u>7500 Serie</u>

7570 Series

8000 Series

<u>9300 Series</u>

78-BF Series

210 Series





HOW TO ORDER

NOTE: For optimum protection of door and frame assemblies, always use auxiliary wall, floor, or overhead door stop.

JL Prefixes	75 st & Second Digit Defines closer series	O Third Digit Specifies some options	O Fourth Digit Specifies closer size	H Suffixes
No Prefix 7500 series designates (tri-packed for regular, t mounting) S - Regular arm application o Non-Hold Open P - 7500 Parallel arm applic Open 7580 low profile of resistant closer	Tri-Style® packaging op jamb or parallel n only, Non-Hold Open only (3" maximum reveal), cation only, Non-Hold closer 7500SS corrosion	 0 - Specifies standard arm 3 - Indicates top jamb (J prefix) for frame reveal 0 to 3" (0-76mm) 7786 back plate included. 4 - Specifies shallow 11/16" (17mm) depth slide track for closer with "ST" suffix. (ST-DE is not available) 7 - Specifies closer having a security arm, security cove and Torx® security screws (specify hand) 8 - Specifies low-profile arm 	 O – Adjustable 1-6 None - Non-hold H - Hold oper when "PR M - Metal cover jamb appi MLL - Lead lineer r DA - Optional e ST - Slide trackston record 	open arm function arm function (specify hand " prefix is ordered) er (cover is handed for top lications) d metal cover delayed action feature enhanced backcheck < - single lever arm (auxiliary mmended). For push side -
 J - Top jamb installation. S backplate 2-3/4" - 7" rev JL - Top jamb Installation. S plate 2-3/4" - 7" reveal, 10 PR - Parallel rigid arm (paral for hold open functions 	upplied with 7786 eal, 150° swing upplied with 7786 back 80° swing Ilel arm only); specify hand offect coffit plate	(use prefix "P" parallel arm or "J" for top jamb) Non- hold open only	ST-180 - Slide track track with maximum required) ST-DE - Slide track SS - Corrosion	 single lever arm, pull side out buffer assembly for a door swing (auxiliary stop pull side double egress resistant closer Available
 PRO - Parallel rigid affit with ((parallel arm only); speciapplications PS - 7500ST / 7540ST for pusion included) (N/A in stainled) CLP - CloserPlus® arm (parallel CPS - CloserPlus Spring™ arm (parallel arwidth) Frame reveals 1- standard UNIJ - Unitrol® arm (top jamb or 7-3/8" (187mm) maximum) 	sh side mounting only ar arm (Torx® screws not ess steel or hold open) el arm only) n (parallel arm only) rm only - specify door 7/8" to 4-5/8" (48-117mm) only - specify frame reveal) um		 T - Thumbtur (CLP) or C R - Ramp hol arm G - ABS cover EP - Extra Pow (RA, PA, or STP - Slide Tracl 7706EPST DLP - Double Le 	Additional adjustable arm agular arm, top jamb "J" parallel arm "P" prefix rn hold open on CloserPlus® loserPlus Spring™ (CPS) arm d open on CloserPlus® (CLP)

NOTE:

- Before installing a door closer, verify the accessibility, fire, and life-safety requirements that are in effect. This includes the mounting height and projection into the clear opening. Check the adopted state and local building codes and consult the Authority Having Jurisdiction (AHJ)
- To maintain the warranty and ensure proper operation of the product, follow the installation instructions & templates and install on the inside of the building. Consult NFPA 80 for the hinge requirements on a fire door.
- Failure to use fasteners supplied with closer may void factory warranty. .
- Optional fasteners are available for a variety of applications. Consult the door and frame manufacturer to ensure the proper fasteners are used to maintain certifications.
- JOB COPY Sizing charts are based on 1-3/4" x 7' standard weight doors swinging to 110°. Other application conditions (e.g. larger door heights or weight) may require larger size closer. Adjusting the spring power to meet the low opening force requirements of the Americans With Disabilities Act or ANSI/BHMA Standard A117.1, may not provide adequate closing power to dependably close and latch the door in some conditionate. air movement from wind gusts or building stack pressure).

53 | Norton Rixson

CATALOG





Experience a safer and more open world

OPERATORS CONTROL FOR ANY APPLICATION







6300 SERIES

INTRODUCTION

The Norton Rixson 6300 Series Low Energy Operator offers a broad set of intelligent functions, such as power close, latch assist and obstruction detection to safely secure a variety of moderate to high traffic openings. A unique design with one of the slimmest profiles available allows the 6300 to blend more seamlessly with the frame while fitting challenging applications with minimal header space. A modular design, simple controls, and new WiFi interface via a mobile device make for easy installation and setup.



FEATURES

- Push and pull side mounting
- Non-handed
- Activated by wall switch, hands-free and RF devices
- Door size: min width 36", max width 48", max weight 200 lbs.
- Aesthetically pleasing, slim profile
- Modular design
- · Adjustable opening force
- · Adjustable closing power
- LCD screen
- WiFi Interface*
- 2 year limited warranty



* No connection to building's WiFi is required

28 | Norton Rixson Door Controls

SMART

- · Latch assist ensures door closes to secure facility
- Occupant safety enhanced by Obstruction
 Detection, Power Assist and Push & Go functions
- Customizable inputs and outputs for accessories, including security override and fire safety

SIMPLE

- Modular design allows for one-person installation
- Heavy-duty back plate serves as template simplifying and speeding installation
- Unit learns door properties (approximate weight) during installation for easy programming and set-up
- · Easy to use controls simplify setup
- · Easy setup via a mobile device
- USB port allows for quick software updates

GOOD LOOKING

- Unique design with slim profile blends seamlessly with frame
- Low profile easily fits applications with minimal header space



5500 Series

0 Series

5800 Series

5600 Series

Door Usage Guider

Product Comparison

6000 Serie

NORTON

ASSA ABLOY

6300 SERIES

LOW ENERGY POWER OPERATORS

FUNCTIONS

- · Adjustable Hold Open
- Amount of time a door will stay in the full open position after an activation
- Blow Open for Smoke Ventilation
 - Door opens when signal is received from alarm system allowing air or smoke to flow through opening
 - Door will stay open until signal from alarm system is stopped
- Emergency Interface Relay (fire panel input)
 - Door closes and ignores any activation input until signal is discontinued
- Infinite Hold Open
 - Door will hold open at set position until power is turned off
- Latch Assist
 - At closed position, after an activation, the door is pulled in
 - After the door has closed, the door is pulled in to assist with latch release engagement
- · Obstruction Detection
 - Open: door closes if it hits an obstruction while opening
 - Close: door will reverse to open position if it hits an obstruction while closing
 - Close (Selectable stop on stall): door will stop once it hits an obstruction and will rest against the obstruction until removed
- Open Delay
 - Delays operator opening for locking hardware

- · Outside Wall Switch Disable
 - When contact is closed, outside wall switch is disabled
- Power Assist
 - Senses the door is being opened manually and applies small amount of power to assist user in opening the door with force less than 5 lbs.
 - Door opens only as far as it is moved manually, then closes once released
- Power Close
 - Additional force to assist door closing between 7° and 2°
- Presence Detector Input
 - Input for external sensor to detect presence at door open or close position only
- Push & Go
 - As the door is manually opened, the operator "senses" movement and opens door to the full-open – position
- · Selector Mode Switch
 - Off Disables signal inputs unless Blow Open is activated
 - On Activates signal inputs
 - Hold Open Activates the unit (unless blow closed is activated on 6300) to the hold open position
- · Vestibule Delay
 - When the wall switch is pressed, first door in vestibule will open. Second door will open once vestibule door delay has expired. Delay is adjustable.



5700 Series

ASSA ABLOY

6300 SERIES

ELECTRICAL DATA

- Power input 120 VAC, 3A, 60Hz
- Current draw 1.5A
- Power output 24VDC @ 1.3A max draw (less accessories)

CERTIFICATIONS

- ANSI/BHMA A156.19 certified
- · UL325/991 certified
- ULIOC listed for positive pressure fire test
- Complies with requirements for the Americans with Disabilities Act (A.D.A)
- Manufactured in an ISO 9001 and ISO 14001 certified facility

SPECIFICATIONS

Door Control (interior) (exterior) closing force shall be adjustable to ensure adequate closing control. Door Operator shall simulate conventional door closer opening and closing forces unless the power operator motor is activated. Door Operator shall have electronic backcheck to cushion the door speed if door is opened violently. [(Door Operator shall be AUTOMATICALLY ACTIVATED by either a slight push or pull in the direction of opening swing - Push & Go.) (Door Operator shall be SELECTIVELY ACTIVATED by external initiating device, i.e. wall switch, etc.) (Door Operator shall be both AUTOMATICALLY ACTIVATED and SELECTIVELY ACTIVATED.)] Operator shall have selectable latch boost to provide additional closing force to overcome conditions that may prevent door from latching. Unit shall have delay switches for motor activation, electric lock interfacing, and hold open time. Units shall interface with latch retraction exit devices or similar products and have 24VDC @ 1.3A maximum (less accessories) output for connection of electric strike, lock, radio frequency receiver, etc. Unit shall have a three-position Selector Mode Switch that will permit the unit to be switched "ON" to monitor for function inputs, switch to "H/O" for infinite hold open function or switched "OFF" which will disable function inputs allowing unit to be used as a manual door closer. Unit shall be U.L. Listed for automatic closing door. The Unit shall be adjustable to provide compliance with the requirements of the Americans with Disabilities Act (ADA). Unit shall be certified by BHMA to meet A156.19 requirements. Unit shall meet UL325/991, UL10C standards.



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5800 Series

5600 Series



6300 SERIES

LOW ENERGY POWER OPERATORS

ASSA ABLOY

APPLICATIONS



6311

HINGE (PULL) SIDE OF DOOR RIGID ARM AND SLIDE TRACK







6332

STOP (PUSH) SIDE OF DOOR STANDARD-DUTY DOUBLE LEVER ARM







31 Norton Rixson Bergin Controls

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6300 SERIES

LOW ENERGY POWER OPERATORS



6352 Shown DOUBLE EGRESS ARM (PULL) SIDE OF DOOR







32 | Norton Rixson Door Controls

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5700 Series

5800 Series

5600 Series



6000 Serie

5700 Series

6300 SERIES

LOW ENERGY POWER OPERATORS

6341, 6342 - UNIVERSAL UNITS INCLUDE:

- Operator
- Cover
- Push and pull arms







push arm **(6330-1)**

pull arm **(6310-1)**

5800 Serie

600 Serie

APPROVED JOB COPY Reviewed for Code Compliance 33 | Norton Rixson Destance Permit # ______ Permit # ______

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6300 SERIES

PRODUCT COMPARISON

	Mou	nting		Arms			Compatible with	Coverspans	Cap be used	
Model	Pull Side	Push Side	Rigid Arm & Slide Track	Double Lever	Double Egress	Overall Length (L)	585 Presence Detector	full frame (36" door only)	on a pair of 36" doors	
6311			141							
6331						77 7/01		Ne	Mar	
6341		i.				57-3/8"	37-3/8"		NO	Yes
6351	•				8		Mar			
6312							Yes			
6332						70 5/01	70 5 (0)		Vez	Ne
6342						39-5/8		Yes	NO	
6352										



TECHNICAL INFORMATION

Model	Door Opening	Reveal Range	Minimum Top Rail	Minimum Ceiling Clearance*	Frame Width	Door Width	Door Weight
6311 6312	Up to 180°	1/8"	1-1/8"	2-1/4" standard; 1-1/2" with field modification^			
6331 6332	110° to 135° (depending on reveal)	1/8" to 6-3/4"	2-1/4"	5/8" standard; 0" with field modification^	Minimum Ol	Minimum 36"	250 11-
6341 6342	Refer to 6311/6312 or 63	331/6332 ir	Minimum 2"	Maximum 48"	250 lbs		
6351 6352	Up to 130°	1/8" to 2-3/4"	1-1/2"	2-1/4" standard; 1-1/2" with field modification^			

*Based on units mounted on 2" frame ^Consult factory

NOTES:

• For additional information, the 6300 Series Instruction Manual is available online.



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LOW ENERGY POWER OPERATORS



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6300 KITS

Hands-Free Kits



6341K2 (37-3/8") 6342K2 (39-5/8") Kit includes: • Operator

- · Cover
- Push and Pull Arms
- (2) 700 Wave-to-Open Switches

ADA Kits



6341K3 (37-3/8") 6342K3 (39-5/8")

- Kit includes:
- Operator
- · Cover
- Push and Pull Arms
- · (2) ADA1019-2 Switches
- · (2) 548 Transmitters
- 539 Receiver



Code Compliance 35 | Norton Rixson Bect Controls United Actions Permit # 20008 6000 Serie

5700 Series

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6300 SERIES

PARTS LIST



Parts

Part Number	Description	For Models
6300LAP	Pull/Push Body Sub-Assembly	All models
6300CM2	Power Supply / Board Assembly	All models
6300CAB2	Cable Kit	All models
6300COV	39-5/8" Cover	6312, 6332, 6342, 6352
6300COV2	37-3-8" Cover	6311, 6331, 6341, 6351

Miscellaneous Parts

Part Number	Description	For Models
6300END	End Cap Kit (included both end caps)	All models
6300SP	Screw Pack	All models

ARM AND TRACK ASSEMBLIES





6310-1	Arm and Track Assembly
6310-1W	Arm Assembly
7100-1T	Track Assembly



6330-1	Arm Assembly
6330-1W	Main Arm & Rod
6620-12	Adjusting Tube & Shoe



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 6350-1L
 Arm and Track Assembly (LH)

 6350-1R
 Arm and Track Assembly (RH)

 6350-1LW
 Arm Assembly (LH)

 6350-1RW
 Arm Assembly (RH)

 7100-1T
 Track Assembly



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5500 Series

5700 Series

6300 Series

6200 Serie

5800 Series



6300 SERIES

LOW ENERGY POWER OPERATORS

HOW TO ORDER

Note: All transmitters (wall switches or key fob) must be ordered separately.

63		3	V	1	x	689	For Radio Frequency Control, order 539 RF Receiver separately. Part number 539.
FIRST TWO DIGITS PRODUCT SERIES	0		FOURTH D IDENTIFIES MODEL/COV 1 – 37-3/8" 2 – 39-5/8"	DIGIT ER LENGT overall le overall l	H ength ength		
	THIRD DI IDENTIFIES HINGE (PUL 1 – Rigid Arr Max reve STOP (PUSH 3 – Double L Minimur Maximur	GIT TYPE OF APPLICA L) SIDE OF DOOR m & Slide Track al 1/8" (3mm) H) SIDE OF DOOR ever Arm m reveal: 2-5/8" (67) m reveal: 6-3/4" (17)		FINI: Produ water	SHES uct will b	e sprayed with a crylic and polyest	combination of er powder coat.
	UNIVERSAL MOUNTING 4 – Rigid Arr	. (PULL OR PUSH S	GIDE)	Desc	ription	Specify Designat (BHMA)	ion Complements the following finishes
	DOUBLE EC 5 – Rigid Arr 130° doo	GRESS ARM (PULL m & Slide Track Up r swing) to	Alum Statu	iinum Iary	689	628, 625, 629, 630, 651, 652 640, 613
	* Consult Tech door is hung	nical Support Depart on offset pivots	ment when	Black	e	BSP	_
	See page 35 fo	or Kits.		Whit	e Suede	WSP	_



C1



Width of Plates:

Push Side: 2" less than door width. Pull Side: 11/2" less than door width. NFPA 80 STANDARDS — 2-4.5 Protection Plates: Factory-installed protection plates shall be installed in accordance with the listing of the door. Field-installed protection plates shall be labeled and installed in accordance with their listing.

Exception: Labeling is not required where the top of the protection plate is not more than 16" (406 mm) above the bottom of the door.

Metal Door Plate – Economy Duty No. K1038

Material:	.038" aluminum, stainless steel	
Finishes:	US32D	
Fastener:	#6 x ⁵ /8" OH SMS	
Ordering:	Specify height x width x finish code. Add	l any options
Weight:	8" x 34" = 3.2 lbs	
Options:	 SA – self-adhesive mounting 	• Cı
	 TORX – security Torx screws 	pa
	 TEK – self-drilling screws 	

Cutouts for locks, louvers, or windows (see worksheets on pages C14-C15 for details on how to order)

TORX – security Torx screws

Metal Door Plate - Standard Duty No. K1050

Material:	.050" Stainless St	teel		
Finishes:	US32D			
Fastener:	#6 x 5/8" OH SMS	S		
Ordering:	Size	High	Width	
	8x34BEV.32D	8"	34"	
	10x34BEV.32D	10"	34"	
	34x34BEV.32D	34"	34"	
Options:	 Beveled Edge a One day shippi 	nd Count ng availa	ter Sink included ble	• Door markings are not available on quick ship

Metal Door Plate – Standard Duty No. K1050, K1050F

Material:	.050" aluminum, brass, bronze, stainless steel	
Finishes:	US10BE, US32D, US32DMS	
Fastener:	#6 x 5/8" OH SMS	
Ordering:	Specify height x width x finish code. Add any options	
Weight:	8" x 34" = 4.0 lbs	
ANSI:	J101 - metal armor plate, J102 - metal kick plate, J103 - met	al stretcher & mop plate
Options:	 SA – self-adhesive mounting TEK – self-drilling screws Beveled 3 or 4 edges, specify B3E or B4E Cutouts for locks, louvers, or windows (see worksheets) 	 Heavy bevel available, specify HVBEV Screw mounting (K1050F) and UL listed for use on 90-minute label wood doors and 3-hour label metal doors CSK – countersurk boles

Windstorm Plate – K1050WS

on pages C14-C15 for details on how to order)

Material: 050" Aluminium, Brass, Bronze, Stainless Steel Finishes: Standard Architectural Finishes Fastener: #10x⁵/8" Pan Head Tek Screws **Ordering:** Part # when ordering is K1050WS All plates are UL and Windstorm rated **Options:** • Cutouts for locks, louvers or windows Heavy Bevel Rounded Corners Screw Mount only (ŸL) Certified to the below standards: Part of windstorm assembly cards: ZHLA.45, APPROVED JOB COPY ZHLA.46, ZHLA.47, ZHLA.51, ZHLA.53, ZHLA.54 - ICC-500 (2014) - FEMA Guideline 320 (2014) - FEMA Guideline 361 (2015) **Opening Solutions** 800-458-2424 | www.assaabloydooraccessories.us Check the web site for the up-to-date catalog Experience a safer Copyright © 2012-2019, ASSA ABLOY Accessories and Door Controls Group, Inc. All rights reserved. Reproduction in whole or in and more open world part without the express written permission of ASSA ABLOY Accessories and Door Controls Group, Inc. is prohibited.

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ROCKWOOD®



Material:	Cast brass with DuraFlex bumper
Finishes:	Available in standard architectural finishes (see page 9)
Options:	Exterior pack screw packs, stainless steel plated to match - use EXP suffix (470 x EXP) when ordering

No. 471

No.	Fastener	Base	Height	Weight	ANSI A156.16
470	3 ea. #12 x 1 ¹ /4" FH WS; 3 ea. plastic anchors	2 ¹ /2" dia.	3"	0.7 lbs.	L02121
471	1 ea. ⁵ /16 - 18 x 1 ³ /4" stud, lead anchor; #8 x ³ /4" OH SMS, plastic anchor	2 ¹ /2" dia.	3"	0.7 lbs.	L02131



Door Stops with Keepers No. 472, 473

Material:	Cast brass with DuraFlex bumper
Finishes:	Available in standard architectural finishes (see page 9)
Other:	Keeper size 1" w x 1 ³ / ₄ " h
Options:	Exterior pack screw packs, stainless steel plated to match - use EXP suffix (472 x EXP) when ordering

No. 473

No.	Fastener	Base	Height	Weight	ANSI A156.16
472	3 ea. #12 x 1¼" FH WS; 3 ea. plastic anchors Keeper: 2 ea. #12 x 1¼" FH WS; 2 ea. plastic anchors	21/2" dia.	33/4"	0.9 lbs.	L01361
473	⁵ / ₁₆ - 18 x 1 ³ / ₄ " stud, lead anchor; #8 x ³ / ₄ " OH SMS, plastic anchor Keeper: 2 ea. #12 x 1 ¹ / ₄ " FH WS; 2 ea. plastic anchors	21/2" dia.	33/4"	0.9 lbs.	L01371



D11

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Solid Cast Wall Stops No. 400, 401, 402

Material: Cast brass with DuraFlex bumper

Finishes: Available in standard architectural finishes (see page 9)

Concealed mounting, convex bumper. Back plate prevents damage to wall Features:

No.	Bumper	Fastener	Size	Projection	Weight	ANSI A156.16
400	Convex	#6x11/2" FH SMS, plastic toggle	2 ⁷ /16" dia.	1"	3.3 lbs./10	L02101
401	Convex	#8 x 1" RH WS, plastic anchor	2 ⁷ /16" dia.	1"	3.3 lbs./10	L02101
402	Convex	#8-32x1" TH MS, lead anchor	27/16" dia.	1"	3.3 lbs./10	L02101

Solid Cast Wall Stops No. 403, 404, 405

Material:	Cast brass with DuraFlex bumper
Finishes:	Available in standard architectural finishes (see page 9)
Features:	Concealed mounting, concave bumper. Back plate prevents damage to wall

No.	Bumper	Fastener	Size	Projection	Weight	ANSI A156.16
403	Concave	#6 - 11/2" FH SMS, plastic toggle	27/16" dia.	1"	3.3 lbs./10	L02251
404	Concave	#8x1" RH WS, plastic anchor	27/16" dia.	1"	3.3 lbs./10	L02251
405	Concave	#8-32x1" TH MS, lead anchor	27/16" dia.	1"	3.3 lbs./10	L02251



Wrought Wall Stops No. 406

Material:	Wrought brass, bronze, and stainless steel with DuraFlex bumper
Finishes:	Available in standard architectural finishes (see page 9)
Features:	 Concealed mounting, convex bumper. Back plate prevents damage to wall Accepted by the New York State Office of Mental Health (OMH) for use in high risk areas

No.	Bumper	Fastener	Size	Projection	Weight	ANSI A156.16
406	Convex	#8 x 11/4" TH SMS, plastic toggle	21/2" dia.	³ /4"	1.8 lbs./10	L02101



Wrought Wall Stops No. 409

Material:	Wrought brass, bronze, and stainless steel with DuraFlex bumper
Finishes:	Available in standard architectural finishes (see page 9)
Features:	 Concealed mounting, concave bumper. Back plate prevents damage to wall Accepted by the New York State Office of Mental Health (OMH) for use in high risk area

Options:

DuraFlex bumper available in standard gray or optional black

No.	Bumper	Fastener	Size	Projection	Weight	ANS 456.16
409	Concave	#8 x 11/4" TH SMS, plastic toggle	2 ¹ /2" dia.	3/4"	1.8 lbs./10	LOZZEN
						JOB COPY



ROCKWOOD



Split Astragals with Snap Covers – Concealed Fasteners

- Snap cover helps prevent vandalism and adds an attractive finished look by concealing the fasteners
- Replacement snap cover part number is _29316. Please specify finish and length when ordering.



Meeting Stile Gasketing

• These products do not work well on beveled-edge pairs of doors



314_N AVAILABLE FINISHES: C, D, G **REPLACEMENT INSERT:** E3 (BL, GR)





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358_N AVAILABLE FINISHES: C, D, G **REPLACEMENT INSERT:** E6 (BL, GR)



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PemkoPrene

(PK)

pile (P)

Eco-V[™](V)

soft brush (SB)

Reviewed Code Con JM for EM

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section was finish chart) A (Mill Finish Aluminum) C (Clear Anodized) D (Dark Bronze Anodized) G (Gold Anodized) Special finishes available upon request

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Kerf-In Weatherstrip (Cont.)

PK52_ AVAILABLE FINISHES: **BL, W**

ANSI: ROG154 AVAILABLE LENGTHS: 18', 20', 300'

 Minimum space between the door face and the stop is $\frac{1}{16}$; maximum space is $\frac{3}{8}$

P50

AVAILABLE FINISHES: BL, W AVAILABLE LENGTHS: 17', 25', 250'

- Minimum space between the door face and the stop is 1/16"; maximum space is 5/16".
- Thermoplastic elastomer formulation will not transmigrate; remains flexible to -60° F





MAG349

AVAILABLE FINISHES: D, W AVAILABLE LENGTHS: 37", 85", 96", 121"

- Minimum space between the door face and the stop is 3/8"; maximum space is 7/16
- Magnetic kerf-in weatherstrip features a magnetic strip encased by a UV-stable TPE cover
- Use for steel-faced door and wood frame applications
- Can be trimmed in the field and corner-mitered



Magnetic Kerf-In Weatherstrip

2815_M AVAILABLE FINISHES: C, D, G **REPLACEMENT INSERT: 2815MAG**



Adhesive Perimeter Gasketing

For more information on these perimeter gasketing products, please see the Adhesive Gasketing section.

S773

AVAILABLE FINISHES: BL, D, GR, W AVAILABLE LENGTHS: 17', 18', 20', 21', 25', 30', 250', 500'

ANSI: ROE154, ROE155

- Triple-fin design blocks light and sound from infiltrating a room
- Product designed as hospitality gasketing (see more hospitality products in the Hospitality Products section)
- Seal begins compressing at 3/8"; compresses to seal up to a $1/_{16}$ " gap





S88

AVAILABLE FINISHES: BL, C, D, GR, TAN, W AVAILABLE LENGTHS: 17', 18', 20', 21', 25', 30', 204', 510' ANSI: ROE154, ROE155

- Seal begins compressing at 1/4"; compresses to seal up to a $\frac{1}{16}$ gap
- Available with perforations for Behavioral Health applications. Substitute "P" in place of "S" to order this option.



S44

AVAILABLE FINISHES: BL, C, D, GR, W AVAILABLE LENGTHS: 17', 18', 20', 21', 25', 30', 204', 510'

ANSI: ROE154, ROE155

- Designed for tighter frames.
- Demonstrates extremely low closing force.
- Seal begins compressing at 5/16"; compresses to seal up to a 1/16" gap
- Available with perforations for Behavioral Health applications. Substitute "P" in place of "S" to order this option.



NOTE: Products shown in this section may not be drawn to scale. AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section was finish chart)

Adhesive Gasketing Colors: BL (Black) C (Clear) D (Dark Brown) GR (Light Gray) TAN (Tan), WWWhite)

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200

BRUSH GASKETING

180° Aluminum Retainers (Cont.)



180° Concealed Fastener Retainers

- Aluminum snap cover conceals mounting screws to provide a clean aesthetic appearance
- Replacement snap cover is item _29316; when ordering, identify finish and length

293100_NB AVAILABLE FINISHES: C, D REPLACEMENT INSERT: P516100 (BL, GR, W) ANSI: R3A434

 $\frac{1}{4}''$

√//////

door bottom



 $\frac{1}{4}''$

*₄*ЩЩШ

door bottom

7⁄8'

(22.2)

5/8" (15.9) 29324_NB AVAILABLE FINISHES: C, D, G REPLACEMENT INSERT: P516041 (BL, GR) ANSI: R3A434



NOTE: Products shown in this section may not be drawn to scale.

(22.2)

(25.4)

<u>BHMA</u>

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart) C (Clear Anodized) D (Dark Bronze Anodized) G (Gold Anodized) PW (Painted White) SN (Satin Nickel Anodized) Special finishes available upon request

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Cover snaps securely into place to deter vandalism

Alternate Insert For 29324 29324_SB

29324_3D Available finishes: **C, D** Replacement insert: **P3 (BL, GR)**







The global leader in door opening solutions

DOOR BOTTOMS

Door Bottom Sweeps

315_N

AVAILABLE FINISHES: **B, C, D, G, PW, SN** REPLACEMENT INSERT: **N8 (BL, GR)** ANSI: **R3B434, R3B435**





368_N

AVAILABLE FINISHES: C, D, G REPLACEMENT INSERT: N10 (BL) ANSI: R3B434, R3B435





3151_N

AVAILABLE FINISHES: **C, D, G** REPLACEMENT INSERT: **N9 (BL)** ANSI: **R3B434**





29326_V

AVAILABLE FINISHES: C, D, G REPLACEMENT INSERT: EV65 (BL, GR, W) ANSI: R3D434





321_N AVAILABLE FINISHES: C, D, G REPLACEMENT INSERT: N8 (BL) ANSI: R3B434, R3B435





293100_V

AVAILABLE FINISHES: C, D, G REPLACEMENT INSERT: EV54 (BL, GR, W) ANSI: R3D434







NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart) B (Mill Finish Extruded Bronze [Brass]) BDG (Bright Dip Gold Anodized) C (Clear Anodized) D (Dark Bronze Anodized) G (Gold Anodized) PW (Painted White) SN (Satin Nickel Anodized)

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Saddle Thresholds (Cont.)



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107

Experience a safer

and more open world

ROCCOOD 800-458-2424 | www.rockwoodmfg.com Check the web site for the up-to-date catalog



Wall Guard No. 606

Material:	Clear rubber				
Other:	Sold in sheets of 55				
Features:	Self-adhesive mounting				
No.	Fastener	Size	Weight		
606	Self-adhesive back	1"x 1"	0.4 lbs./55		



Privacy Door Latch No. PDL (formerly 607)

No.	Fastener	Size	Weight
Features:	 ADA compliant Enhanced in room Easy to install For use with UL Cl steel composite to Wood composite and 20 minutes w 	a privacy assified fire doors for use w ype fire doors rated up to a type fire doors rated up to ithout hose stream	rith hollow metal nd including 3 hrs and including 1½ hrs
Finishes:	BRS, DBRS, STNN, C	RM, DCRM, ORB	
Material:	Zinc die cast		

 $1^{1/2}$ "x $2^{13/16}$ "

0.75 lbs.

Door Silencer No. 608CA

#12 x 11/4" FH SMS

PDL

Material:	Clear rubber					
Other:	Sold in packages of 300	Sold in packages of 300				
Features:	Self-adhesive mounting					
No.	Fastener	Size	Weight			
608CA	³ /8" dia.x ¹ /8"	Metal or wood	0.2 lbs./300			





The global leader in door opening solutions

Door Silencers No. 608, 609

Material:	DuraFlex gray rubber		
Other:	Sold in packages of 100		

No.	Size	Frame Type	Weight	ANSI A156.16
608	¹ /2" dia.x ⁵ /8"	Metal	1.3 lbs./500	L03011
609	³ /8" X ³ /4"	Wood	1.3 lbs./500	L0302APPROVED



CATALOG

ELECTRIFIED CLOSERS AND HOLDERS





Experience a safer and more open world





EF-1





Model: G-100-VG

Direct Drive Centrifugal Roof Exhaust Fan

Previously: G-103-VG

Dimensional				
Quantity	1			
Weight w/o Acc's (lb)	36			
Weight w/ Acc's (lb)	43			
Standard Curb Cap Size (in.)	19 x 19			
Optional Damper (in.)	12 x 12			
Roof Opening (in.)	15.5 x 15.5			

Performance				
Requested Volume (CFM)	830			
Actual Volume (CFM)	830			
Total External SP (in. wg)	0.5			
Fan RPM	1335			
Operating Power (hp)	0.14			
Elevation (ft)	164			
Airstream Temp.(F)	70			
Air Density (lb/ft3)	0.075			
Tip Speed (ft/min)	3,887			
Static Eff. (%)	48			

Misc Fan Data				
Fan Eff. Index (FEI)	-			
Outlet Velocity (ft/min)	922			

Motor	
Motor Mounted	Yes
Size (hp)	1/4
Voltage/Cycle/Phase	115/60/1
Enclosure	TENV
Motor RPM	1725
Efficiency Rating	High
Windings	1
FLA (Amps)	2.85
Min. Circuit Ampacity (MCA)	4
Max. Overcurrent Protection (MOP)	15
Short Circuit Current Rtg (SCCR)	5 kA

Sound Power by Octave Band

Sound Data	62.5	125	250	500	1000	2000	4000	8000	LwA	dBA	Sones
Inlet	71	75	69	63	55	53	48	41	66	54	7.1

OVERALL HEIGHT MAY BE GREATER DEPENDING ON MOTOR, ADAPTER, AND/OR HINGE BASE.

Ø 24.40



Operating point at Total External SP

Fan curve System curve

----- Brake horsepower curve

Notes:

All dimensions shown are in units of in. *NEC FLA, MCA and MOP are for reference only – based on tables 430.248 or 430.25 of National Electric Code 2020. Actual motor FLA may vary, for sizing thermal overload, consult factors MCA and MOP values shown only account for the motor, not accessories (damper actuator, field supplied VFD, etc). dBA - A weighted sound pressure level, based on 11.5 dB JOB COPY SOUND attenuation per Octave band at 5 ft - dBA levels are not licensed by AMCA International Reviewed for AIR PERCOR Sones - calculated using ANSI/AMCA 301 at 5 ft

C:\Users\ElijahMarta\ColeBreit Engineering\2023 001-100 - 20230057 - Capitola Community Center TI\09 NOTES AND DATA\01 CUT SH

^{23.70} 1.75 - 19.00 SQ -



Model: G-100-VG

Direct Drive Centrifugal Roof Exhaust Fan

Standard Construction Features:

- Aluminum housing - Backward inclined composite (sizes 60-95) or aluminum (sizes 97-300) wheel - Aluminum curb cap with prepunched mounting holes - Birdscreen - Ball bearing motors (sizes 85-300 and all Vari Green), sleeve bearing motors (sizes 60-80) - Motor isolated on shock mounts - Corrosion resistant fasteners

Selected Options & Accessories:

Motor - Vari-Green EC motor Control - Dial for balancing Standard Curb Cap Size - 19 Square UL/cUL 705 Listed - "Power Ventilators" Switch, NEMA-1, Toggle, Shipped with Unit Junction Box Mounted & Wired Coated with Hi-Pro Polyester, Concrete Gray-RAL 7023, Fan And Attached Acc Birdscreen: Galvanized, nom. 84% Free Area Unit Warranty: 1 Yr (Standard) Damper Shipped Loose, BD-100-PB-12X12, Gravity Operated, Not Coated, Nominal Size

The Vari-Green Motor included in this order has a 'Multi-Voltage' ability. The red wire on the motor is called a 'Voltage Doubler', and when it is connected the motor can be powered by 115V.

If the Red wire is disconnected, then the motor can be powered with 208-230/277V. The motor will leave the factory with the voltage doubler wired per the order.



C:\Users\ElijahMarta\ColeBreit Engineering\2023 001-100 - 20230057 - Capitola Community Center TI\09 NOTES AND DATA\01 CUT SHEETS\01 MECH \230925 EF1 Cut Sheet.gfcj



Cut Sheet - Not for Submittal Printed Date: 09/25/2023 Mark: EF-1 Model: G-100-VG

AMCA



AMCA Licensed for Sound and Air Performance. Power rating (BHP/kW) does not include transmission losses.

Greenheck Fan Corporation certifies that the model shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program. Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP/kW) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per ANSI/AMCA Standard 301. Values shown are for installation type A: free inlet hemispherical sone levels. dBA levels are not licensed by AMCA International. The AMCA Certified Ratings Seal applies to sone ratings only.



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ELKAY EZH2O



Reviewed for Code Compliance Signed ^{M for EM} Date ______ Permit II ²⁰²⁴⁰¹⁹⁰



Elkay ezH2O® Bottle Filling Station & Versatile Bi-Level ADA Cooler Filtered Non-Refrigerated Light Gray Model LZSTLDDWSLK

PRODUCT SPECIFICATIONS

Elkay ezH2O® Bottle Filling Station & Versatile Bi-Level ADA Cooler Filtered Non-Refrigerated Light Gray. Features shall include Antimicrobial*, Filtered, Green Ticker™, Hands Free, Laminar Flow, Real Drain, Visual Filter Monitor. Furnished with Flexi-Guard ® Safety Bubbler. Electronic Bottle Filler Sensor with Electronic Front and Side Bubbler Pushbar activation. Product shall be Wall Mount (On Wall), for Indoor applications, serving 2 station(s). Unit shall be certified to UL 399 and CAN/CSA C22.2 No. 120.

Special Features:	Antimicrobial, Filtered, Green Ticker™, Hands Free, Laminar Flow, Real Drain, Visual Filter Monitor
Finish:	Light Gray Granite
Power:	115V/60Hz
Bubbler Style:	Flexi-Guard ® Safety Bubbler
Activation by:	Electronic Bottle Filler Sensor with Electronic Front and Side Bubbler Pushbar
Mounting Type:	Wall Mount (On Wall)
Chilling Capacity:	Non-refrigerated
Full Load Amps	1.1
Rated Watts:	15
Dimensions (L x W x H):	36-3/4" x 19" x 39-1/16"
Approx. Shipping Weight:	82 lbs.
Installation Location:	Indoor
No. of Stations Served:	2

Special Note: Installs with stainless steel back panel (1000004920); accessory to enhance design & ease of installation.

- Visual Filter Monitor: LED Filter Status Indicator for when filter change is necessary.
- Filter is certified to NSF 42 and 53 for lead, cyst, particulate, chlorine, taste and odor reduction. 3,000 gal. capacity.
- Green Ticker: Informs user of number of 20 oz. plastic water bottles saved from waste.
- Laminar flow provides clean fill with minimal splash.
- Key plastic components are manufactured with silver ion antimicrobial agent helping to provide clean, stain- and odor-free surfaces.
- Real Drain System eliminates standing water.

*Antimicrobial claims are in refence to components manufactured antimicrobial agents, helping to provide clean, stain- and odor-free surfaces.

PROJECT:______ CONTACT:

_____QTY: _____



Included with Product:

Water Cooler (LZSTLDDWSLC), Bottle Filler (LZWSR), Filter

▼ Ships in multiple boxes.

A Century of Tradition and Quality.

For more than 100 years, Elkay has been making innovative products and providing exceptional customer care. We take pride in offering plumbing products that make life easier, inspire change and leave the world a better place.

PRODUCT COMPLIANCE

ADA & ICC A117.1

ASME A112.19.3/CSA B45.4

CAN/CSA C22.2 No. 120

GreenSpec®

NSF/ANSI 42, 53, 61 (Q≤1), 372 (lead free), & 401 UL 399





Complies with ADA & ICC A117.1 accessibility requirements when installed according to the requirements outlined in these standards. Installation may require additional components and/or construction features to be fully compliant. Consult the local Authority Having Jurisdiction if necessary. Installation Instructions (PDF) - 1000002243

Electrical components and water system are warranted for 12 months from date of installation. Warranty pertains to drinking water applications only. Non-drinking water applications are not covered under warranty.

Warranty (PDF)



Reviewed for Code Compliance

In keeping with our policy of continuing product improvement, Elkay reserves the right to change product specifications without notice. Please visit elkay.com for the most current version of Elkay product specification sheets. This specification describes an Elkay product with design, quality, and functional benefits to the user. When making a comparison of other producers' offerings, be certain these features are not overlooked.

APPROVAL:

PART

DATE:

NOTES:





Elkay ezH2O® Bottle Filling Station & Versatile Bi-Level ADA Cooler Filtered Non-Refrigerated Light Gray Model LZSTLDDWSLK

Optional Accessorie	es	_
<u>51300C</u>	WaterSentry [®] Lead + Microplastics NSF/ANSI Certified Filter (Bottle Fillers) Spec Sheet (PDF)	
<u>LKAPREZL</u>	Elkay Cane Apron for EZ Gray Spec Sheet (PDF)	
<u>MLP200</u>	In-wall Carrier for Bi-level On-wall Bottle Fillers Coolers & Fountains Spec Sheet (PDF)	
<u>98551C</u>	WaterSentry Filter Mounting Cover (Gray Granite) <u>Spec Sheet (PDF)</u>	



Reviewed for Code Compliance

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Elkay ezH2O® Bottle Filling Station & Versatile Bi-Level ADA Cooler Filtered Non-Refrigerated Light Gray Model LZSTLDDWSLK



LEGEND:

REDUCE HEIGHT BY 3 INCHES FOR INSTALLATION OF CHILDRENS ADA COOLER

A = Recommended Water Supply location. Shut-off Valve (not furnished) to accept 3/8" O.D. unplated copper tube. Up to 3" (76mm) maximum out from wall. B = Recommended Waste Outlet location. To accommodate 1-1/2" nominal drain. Drain stub 2" (51mm) out from wall.

C = 1-1/2" Trap (not furnished).

D = Electrical Supply (3) Wire Recessed Box Duplex Outlet.

= Insure proper ventilation by maintaining 6" (152mm) minimum clearance from cabinet louvers to wall. Е

F = 7/16" (11mm) Bolt Holes for fastening to wall

Note : New Installations Must Use Ground Fault Circuit Interrupter (GFCI).



In keeping with our policy of continuing product improvement, Elkay reserves the right to change product specifications without notice. Please visit elkay.com for the most current version of Elkay product specification sheets. This specification describes an Elkay product with design, quality, and functional benefits to the user. When making a comparison of other producers' offerings, be certain these features are not overlooked.



IMPORTANT! INSTALLER PLEASE NOTE :

This water cooler has been designed and built to provide water to the user which has not been altered by materials in the cooler waterways. The grounding of electrical equipment such as telephone, computer, etc. to water lines is a common procedure. The grounding may be in the building but may also occur away from the building. This grounding can cause electrical feedback into a water cooler creating an electrolysis which creates a metallic taste or causes an increase in the metal content of the water. This condition is avoidable by installing the cooler using the proper materials as shown below

NOTICE

This water cooler must be connected to the water supply using a dielectric coupling. The cooler is furnished with a non-metallic strainer which meets this requirement. The drain trap which is provided by the installer should also be plastic to completely isolate the cooler from the building plumbing system.

Bottle filler unit on bracket attached to wall by 6 holes (as shown). Water and electrical will connect through pre-punched hole in basin.



WaterSentry® Plus Filter System



REDUCE HEIGHT BY 3 INCHES FOR INSTALLATION OF CHILDRENS ADA COOLER

LEGEND:

A = Recommended Water Supply location. Shut-off Valve (not furnished) to accept 3/8" O.D. unplated copper tube. Up to 3" (76mm) maximum out from wall. B = Recommended Waste Outlet location. To accommodate 1-1/2" nominal drain. Drain stub 2" (51mm) out from wall.

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Note : New Installations Must Use Ground Fault Circuit Interrupter (GFCI).



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LG AHU



Reviewed for Code Compliance Signed Mitrices Date ______ Permit II 2024030

Job Name/Location: Capitola CC T	ПАНИ	Tag No.:			
Date: 10/19/2023	For: File	Resubmit			
PO No.:	Approval	Other	C LG		
Architect:	GC:				
Engr: Axiom Engineers / Colebreit	Mech:				
Rep: DMG North - San Francisco Bay An	rea Matthew Alvarez				
(Company) ARUM121BTE5 Multi V [™] 5 with LGRED [°] 208 10 Ton Single Frame Heat Pump a	(Project Manager) 8-230V ODU and Heat Recovery	Derating Range:			
Performance:		Cooling (°F DB)**	5 - 122		
Cooling Mode:		Heating (°F WB)	-22 - 61		
Nominal Canacity (Ptu/b)	110 700	Synchronous			
Power Input (kW)	119,700	Cooling Based (°F DB)	14 - 81		
	7.72	Heating Based (°F WB)	14 - 61		
Heating Mode:		Unit Data:			
Nominal Capacity (Btu/h)	135,000	Refrigerant Type	R410A		
Power Input (kW)	9.20	Refrigerant Control	EEV		
Rated capacity is certified under AHRI Standard 1230. Rat	ings are subject to change without notice. Current certified	Max. Number of Indoor Units ³	20		
ratings are available at www.ahridirectory.org.		Sound Pressure* dB(A)	59.0		
Frame	ARI 11/121 RTE5	Frame	ARUM121BTE5		
Power Supply (V/Hz/Ø) ¹	208-230/60/3	Net (lbs.)	507		
MOP (A)	40	Shipping (lbs.)	534		
MCA (A)	30.9	Communication Cable (No x AWG)⁵	2 x 18		
Rated Amps (A)	26.3	Heat Exchanger Coating	Black Coated Fin™		
Compressor A (A)	18.3	Compressor:			
Compressor B (B)	-	Туре	HSS DC Scroll		
Fan (A)	8.0	Quantity	1		
Piping: ²		Oil / Type	PVE / FVC68D		
Frame	ARUM121BTE5	Fan:			
Refrigerant Charge (lbs.)	23.2	Туре	Propeller		
Liquid (in., O.D.)	1/2 Braze	Quantity	2		
(Heat Recov only; in, O.D.)	3/4 Braze	Motor Drive	Brushless Digitally Controlled Direct		
Low Pressure Vapor		Air Flow Rate (rated/max, CFM)	8,400 / 11,300		
(in., O.D.)	1-1/8 Braze	Notes:			
Standard Features:		Cables terminate at each frame.	with the applicable local and hational codes.		
Advanced Smart Load Control	 Active Refrigerant Control 	2. For main pipe segment size, refer to t	he LATS Multi V tree diagram.		
Intelligent Heating	Variable Heat Path Exchanger	4. Sound pressure levels are tested in an	anechoic chamber under ISO Standard		
HiPOR (High Pressure Oil Return) Smart Oil Control	 Subcooling and Vapor Injection Control 	3745 for the combination of outdoor	units. nd IDLIs must be 2-conductor 18 AW/G		
Night Quiet Operation	Liquid Cooled Inverter Controller	twisted, stranded, and shielded. Ensur	e the communication cable shield is properly		
Fault Detection and Diagnosis	Advanced Comfort Cooling	grounded to the Main ODU chassis on at any other point. Wiring must compl 6. Acceptable operating voltage: 1874 - 2	ly. Do not ground the communication cable y with all applicable local and national codes 53V		
Optional Accessories:		7. Fan ESP (in wg) selectable range is 0.1	b to U.32.		
Air Guide - ZAGDKA52A			_		
Hail Guard Kit - ZHGDKA52A					

- Low Ambient Baffle Kit ZLABKA52A, Control Kit -
- PRVC2 (1 per system)
- Base Pan Heater ZPLT1A52A

**Cooling range with the Low Ambient Baffle Kit (sold separately) is -9.9°F to +122°F and is achieved only when all indoor units are operating in cooling mode. Does not impact heat recovery system synchronous operating range.

LGRED° Powerful Heat Technology

Street Inverter



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SB_MultiV_5_ODU_ARUM121BTE5_2021_05_26_154503

Page 1 of 3

ARUM121BTE5

Multi V[™] 5 with LGRED° 208-230V ODU

10 Ton Single Frame Heat Pump and Heat Recovery

LG Life's Good

Date: <u>10/19/2023</u> PO No.:



W	48-13/16"			
Н	66-17/32"			
D	29-29/32"			
L1	6-5/16"			
L2	3-3/4"			
L3	5-29/32"			
L4	5-13/32"			
L5	2-25/32"			
L6	24-9/32"			
L7	2-25/32"			
L8	4-1/32"			
L9	6 – 1/2"			
L10	5 – 9/16"			
L11	8 – 5/8"			
L12	6 – 7/16"			
L13	9 – 15/16"			
L14	3 – 5/8"			
Center of Gravity				
Х	23-7/32"			

	Y	15-5/8"			
	Z	25-	-9/	16"	
A to [L	II dime	nsior e of	is h ± (nave).25	a in.
5	JOBCE	After	of	Gra	vity
С	ode Compliance				
Si	JM for EM				

SB_MultiV_5_ODU_ARUM121BTE5_2021_05_26_154503

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ARUM121BTE5 Multi V[™] 5 with LGRED[°] 208-230V ODU 10 Ton Single Frame Heat Pump and Heat Recoverv

🕑 L

Tag No.: _____

Date: 10/19/2023

Life's Good PO No.: _

-

Reference Number	Indoor Type	Cooling Capacity (95°F)	EER (95°F)	IEER	SCHE	High Heating Capacity (47°F)	High COP (47°F)	Low Heating Capacity (17°F)	Low COP (17°F)
205281462	Ducted Indoor Units	114,000	12.50	24.60	26.40	129,000	3.46	84,000	2.53
202516176	Non-Ducted Indoor Units	114,000	13.10	29.60	31.00	129,000	3.97	84,000	2.74



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MARMOLEUM FLOORING



Reviewed for Code Compliance Signed Mitrices Date ______ Permit II 2024030





Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring¹

This standard is issued under the fixed designation F710; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This practice covers the determination of the acceptability of a concrete floor for the installation of resilient flooring.

1.2 This practice includes suggestions for the construction of a concrete floor to ensure its acceptability for installation of resilient flooring.

1.3 This practice does not cover the adequacy of the concrete floor to perform its structural requirements.

1.4 This practice covers the necessary preparation of concrete floors prior to the installation of resilient flooring.

1.5 This practice does not supersede in any manner the resilient flooring or adhesive manufacturer's written instructions. Consult the individual manufacturer for specific recommendations.

1.6 Although carpet tiles, carpet, wood flooring, coatings, films, and paints ae not specifically intended to be included in the category of resilient floor coverings, the procedures included in this practice may be useful for preparing concrete floors to receive such finishes.

1.7 This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use. See , 7.1.1, and 7.1.2 for specific warning statements.

1.8 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

2. Referenced Documents

2.1 ASTM Standards:²

- C109/C109M Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50-mm] Cube Specimens)
- C472 Test Methods for Physical Testing of Gypsum, Gypsum Plasters and Gypsum Concrete

D4259 Practice for Abrading Concrete

- D4263 Test Method for Indicating Moisture in Concrete by the Plastic Sheet Method
- D4397 Specification for Polyethylene Sheeting for Construction, Industrial, and Agricultural Applications
- E1155 Test Method for Determining F_F Floor Flatness and F_L Floor Levelness Numbers
- E1486 Test Method for Determining Floor Tolerances Using Waviness, Wheel Path and Levelness Criteria
- **E1745** Specification for Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs
- F141 Terminology Relating to Resilient Floor Coverings
- F710 Practice for Preparing Concrete Floors to Receive Resilient Flooring
- F1869 Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride
- F2170 Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes

NOTE 1—Specifications and test methods for cements and other related materials are found in ASTM Volume 04.01. Specifications and test methods for concretes and related materials are found in ASTM Volume 04.02.

2.2 ACI Guides:³

302.1R-06 Guide for Concrete Floor and Slab Construction117R Standard Tolerances for Concrete Construction and Materials

2.3 Resilient Floor Covering Institute (RFCI):⁴

Recommended Work Practices for the Removal of Resilient Floor Coverings

⁴ Resilient Floor Covering Institute, 966 Hungerford Drive Rockville, MD 20850.



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 $^{^{1}}$ This practice is under the jurisdiction of ASTM Committee F06 on Resilient Floor Coverings and is the direct responsibility of Subcommittee F06.40 on Practices.

Current edition approved May 15, 2011. Published June 2011. Originally approved in 1981. Last previous edition approved in 2008 as F710 – 08. DOI: 10.1520/F0710-11.

² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

^{2.4} Other Standards:

 $^{^{3}}$ Available from American Concrete Institute, 19150 Redford Station, Detroit, MI 48219.

MASTERSPEC Guide Spec Section 03 30 00 "Cast-In-Place Concrete"⁵

3. Terminology

3.1 *Definitions*— For definitions of terms used in this practice, see Terminology F141.

3.2 Definitions of Terms Specific to This Standard:

3.2.1 *mat*, as in "mat test"—a sample of vapor-retardant sheet resilient floor finish material or equivalent.

3.2.2 moisture vapor emission—a term used by the flooring industry in the U.S. to measure moisture emission from concrete floors in lb/1000 ft²· 24 h (56.51 µg/(s · m²) using the anhydrous calcium chloride test.

4. General Guidelines

4.1 The installation of a permanent, effective moisture vapor retarder with a minimum thickness of 0.010 in. and a permeance of 0.1 y, as described in Specification E1745 is required under all on- or below-grade concrete floors. The use of such a moisture vapor retarder, provided its integrity has not been compromised, reduces potential severity of water vapor penetration. Every concrete floor slab on- or below-grade to receive resilient flooring shall have a water vapor retarder (often improperly called a vapor barrier) installed directly below the slab.

4.2 The surface of concrete floors to receive resilient flooring shall be dry, clean, smooth, and structurally sound. They shall be free of dust, solvent, paint, wax, oil, grease, residual adhesive, adhesive removers, film-forming curing compounds, silicate penetrating curing compounds, sealing, hardening, or parting compounds, alkaline salts, excessive carbonation or laitence, mold, mildew, and other foreign materials that might affect the rate of moisture dissipation from the concrete, the adhesion of resilient flooring to the concrete or cause a discoloration of the flooring from below. Non-chemical methods for removal, such as abrasive cleaning or bead-blasting, including methods described in Practice D4259 may be used on existing slabs with deleterious residues.

4.2.1 **Warning**—Hydraulic cement used in concrete construction may contain trace amounts of free crystalline silica. Prolonged exposure to airborne free crystalline silica may be a health hazard. Avoid actions that cause dust to become airborne. Use local or general ventilation to control exposures below applicable exposure limits.

4.2.2 **Warning**—See 7.1.1 and 7.1.2 for warnings regarding asbestos and lead paint.

4.3 Surface cracks, grooves, depressions, control joints or other non-moving joints, and other irregularities shall be filled or smoothed with latex patching or underlayment compound recommended by the resilient flooring manufacturer for filling or smoothing, or both. Patching or underlayment compound shall be moisture-, mildew-, and alkali-resistant, and, for commercial installations, shall provide a minimum of 3000 psi compressive strength after 28 days, when tested in accordance with Test Method C109/C109M or Test Method C472, whichever is appropriate. 4.3.1 Joints such as expansion joints, isolation joints, or other moving joints in concrete slabs shall not be filled with patching compound or covered with resilient flooring. Consult the resilient flooring manufacturer regarding the use of an expansion joint covering system.

4.4 The surface of the floor shall be cleaned of all loose material by scraping, brushing, vacuuming, or other methods, or a combination thereof, as recommended by the resilient flooring manufacturer, immediately before commencing installation of resilient flooring.

4.5 Many resilient floorings may not be installed over concrete when residual asphalt adhesive residue is present. Consult the resilient flooring manufacturer's written recommendations concerning use of resilient flooring products in these situations.

4.6 Concrete floors shall be smooth to prevent irregularities, roughness, or other defects from telegraphing through the new resilient flooring. The surface of concrete floors shall be flat to within the equivalent of $\frac{3}{16}$ in. (3.9 mm) in 10 ft, (as described in ACI 117R, or as measured by the method described in Test Method E1155 or any industry-recognized method specified) and within the equivalent of $\frac{1}{32}$ in. (0.8 mm) in 12 in. (305 mm). See X1.7 for more information regarding flatness measurement methods.

4.7 Acclimation—Because of the role acclimation plays in a successful installation, most resilient flooring manufacturers recommend or require that their flooring products, sundry supplies (adhesives, coatings, welding rods, etc.) and the area to receive the resilient flooring are properly conditioned. Consult floor covering and sundry manufacturers for appropriate temperature and humidity range for the products to be installed and the geographic area where the job site is located. General recommendations are for the installation area and materials listed above to be maintained at a minimum of 65°F (18.3°C) and a maximum of 85°F (29.4°C) for 48 h before, during and for 48 h after completion of the installation. Relative humidity level extremes should also be avoided because of their influence on proper drying and curing of patching compounds and adhesives. General recommended humidity control level is between 35 – 55 %. If a system other than the permanent HVAC source is utilized, it must provide proper control of both temperature and humidity to recommended or specific levels for the appropriate time duration.

5. Testing Procedures

5.1 *Moisture Testing*—All concrete slabs shall be tested for moisture regardless of age or grade level. For the preferred moisture testing method and limits, consult the written instructions from the floor covering manufacturer, the adhesive manufacturer, the patching/underlayment manufacturer, or combination thereof. In the absence of manufacturer's guide-lines, refer to Table 1.

APPROVED	TABLE 1	ASTM	Test	Methods	for	Concrete	NOBCOPE	Reading
							APPROVED	

Test Method	Maximumedia it Code Compliance
F1869	3 lb/1000 ft ² (170 @@/tm2) per 24 h
F2170	750%
	20240135

⁵ Available from MASTERSPEC, AIA Master Systems, King Street Station, 225 Reinekers Lane, Suite 215, Alexandria, VA 22314-2875.

5.1.1 Consult the resilient flooring manufacturer, the adhesive manufacturer, the underlayment manufacturer's written instructions, or combination thereof, for their acceptable test methods. If these instructions are in conflict, the most stringent requirements shall apply.

5.2 *pH Testing*—Concrete floors shall be tested for pH prior to the installation of resilient flooring. Levels of pH shall not exceed the written recommendations of the resilient flooring manufacturer or the adhesive manufacturer, or both.

5.2.1 To test for pH at the surface of a concrete slab, use wide range pH paper, its associated pH chart, and distilled or deionized water. Place several drops of water on a clean surface of concrete, forming a puddle approximately 1 in. (25 mm) in diameter. Allow the puddle to set for 60 ± 5 s, then dip the pH paper into the water. Remove immediately, and compare to chart to determine pH reading. Other pH testing methods such as pH pencils or pH meters, or both, are available and may be used to measure pH. Readings below 7.0 and in excess of 10.0 have been known to affect resilient flooring or adhesives, or both. Refer to resilient flooring manufacturer's written instructions for guidelines on acceptable testing methods and acceptable pH levels. See X1.4 for more information about pH levels in concrete slabs.

6. Preparation of New Concrete Floors

6.1 New concrete slabs shall be properly cured and dried or treated before installation of resilient flooring. Drying time before slabs are ready for moisture testing will vary depending on atmospheric conditions and mix design. See X1.3 for more information. Floors containing lightweight aggregate or excess water, and those which are allowed to dry from only one side, such as concrete over a moisture vapor retarder or concrete on metal deck construction, may need a much longer drying time and should not be covered with resilient flooring unless the moisture vapor emission rate or the percentage of internal relative humidity meets the manufacturer's installation specifications.

7. Preparation of Existing Concrete Floors

7.1 The resilient flooring manufacturer shall be consulted regarding the necessity of removal of old resilient flooring, adhesive residue, paint, or other surface contaminants. If old resilient flooring, paint, or adhesive residue is to be removed, follow 7.1.1 and 7.1.2:

7.1.1 **Warning**—Do not sand, dry sweep, dry scrape, drill, saw, beadblast, or mechanically chip or pulverize existing resilient flooring, backing, lining felt, paint, asphaltic cutback

adhesives, or other adhesives. These products may contain asbestos fibers or crystalline silica. Avoid creating dust. Inhalation of such dust is a cancer and respiratory tract hazard. Smoking by individuals exposed to asbestos fibers greatly increases the risk of serious bodily harm. Unless positively certain that the product is a nonasbestos-containing material, presume that it contains asbestos. Regulations may require that the material be tested to determine asbestos content. The Resilient Floor Covering Institute's (RFCI's) recommended work practices for removal of existing resilient floor coverings should be consulted for a defined set of instructions addressed to the task of removing all resilient floor covering structures.

7.1.2 **Warning**—Certain paints may contain lead. Exposure to excessive amounts of lead dust presents a health hazard. Refer to applicable federal, state, and local laws and guidelines for hazard identification and abatement of lead-based paint published by the U.S. Department of Housing and Urban Development⁶ regarding appropriate methods for identifying lead-based paint and removing such paint, and any licensing, certification, and training requirements for persons performing lead abatement work.

7.2 Adhesive Removers—There are a number of commercial adhesive removers that will properly remove adhesive residue from a subfloor, however, there are concerns that these products may adversely effect the new adhesive and new floor covering. The Resilient Floor Covering Institute's (RFCI's) recommended work practices for removal of existing resilient floor coverings and the resilient flooring manufacturer's written instructions should be consulted for a defined set of instructions which should be followed if existing adhesives must be removed.

8. Installation on Radiant Heated Floors

8.1 Most resilient flooring can be installed on radiant heated slabs providing the maximum temperature of the surface of the slab does not exceed 85°F (29°C) under any condition of use. Consult the resilient flooring manufacturer for specific recommendations.

9. Keywords

9.1 adhesive removers; cement; concrete floors; installation; moisture; moisture vapor emissions; pH testing; preparation; resilient flooring; rubber; slabs



⁶ Lead-Based Paint: Interim Guidelines for Hazard Identification and Abatement in Public and Indian Housing, U.S. Department of Housing and Urban Development, Washington, DC, 1990.

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APPENDIXES

(Nonmandatory Information)

X1. CONCRETE COMPOSITION AND PRACTICES

X1.1 *General*—This brief information on concrete composition and practices is provided to help specifiers, resilient flooring installers, and resilient flooring manufacturers understand the properties of concrete. A concrete slab is not an inert substrate. It is a complex mixture of organic and inorganic substances whose properties and condition will affect the performance of a floor covering placed on its surface. Surface flatness, strength, joints, alkalinity, permeability, and many other concrete properties will have a significant effect on the long-term appearance and performance of resilient flooring.

X1.1.1 Concrete used for most floors is a mixture of hydraulic cement, fine aggregate (sand), coarse aggregate (stone), water and admixtures. In addition to these batch ingredients, chemical admixtures can be used to control the setting time, rate of strength development, workability, air entrapment, and other properties of concrete. For example, water-reducing admixtures can increase the slump of fresh concrete without adding additional water. Pozzolanic admixtures such as fly ash or ground granulated blast furnace slag are sometimes present as a partial replacement for the cement.

X1.1.2 Lightweight concrete, less than 115 lb/ft ³ (1841 kg/m³), may have such low compressive strength that it is unsuitable for covering with resilient flooring unless 1 in. (25 mm) or more of standard weight concrete, generally 140 lb/ft³ (2241 kg/m³) or more, is used as a topping.

X1.2 *Water-Cement Ratio*—The most important factor affecting concrete properties is the water-cement ratio. This is the ratio of the mass of water to the mass of cement in a standard volume of concrete. For a given concrete mix design, as the water-cement ratio is increased, most concrete properties are affected negatively. Of special interest to the floor covering industry, compressive and flexural strengths are decreased, permeability is increased, and drying times are lengthened. Moderate to moderately low water-cement ratios (0.40 to 0.45) can be used to produce floor slabs that can easily be placed, finished, and dried, and which will have acceptable permeability to moisture. Floor slabs with water-cement ratios above 0.60 take an exceedingly long time to dry and cause adhesives or floor coverings, or both, to fail due to high moisture permeability.

X1.3 Curing and Drying New Concrete:

X1.3.1 Freshly placed concrete sets and gains strength by the chemical reaction of water with the silicate and aluminate materials in the cement. As long as water is available during the planned curing period, the concrete will continue to gain strength and decrease its permeability. Various ways concrete is cured include cover curing with paper or plastic sheets or other methods which aid in retaining some moisture in the concrete, thus retarding the rate of drying. Resilient flooring and adhesive manufacturer's specifications often prohibit the use of membrane forming curing compounds as they can interfere with the bond of the adhesive to the concrete.

X1.3.2 Membrane forming curing compounds, in many cases, form a surface film of oil, wax, resins, or a combination thereof, that tend to lengthen the drying time of the concrete, obstruct the bond between the concrete surface and the adhesive and/or the patching or underlayment compound to the concrete, or may trap moisture in the concrete which will be released at a future date, or both, causing adhesive failure or other problems related to excess water vapor between the flooring and the slab. In all cases where curing compounds have been used, the resilient flooring or adhesive manufacturer, or both, shall be consulted.

X1.3.3 Excess water is always present beyond the amount of water required for cement hydration. As the cement continues to hydrate, excess water must be permitted to flow out of the concrete, generally by evaporation at the top surface, during a planned drying period following curing. A4 in. (100 mm) thick slab, allowed to dry from only one side, batched at a water-cement ratio of 0.45, typically requires approximately 90 to 120 days to achieve a moisture vapor emission rate (MVER) of 3 lb/1000 ft² (170 μ g/m²) per 24 h (the resilient flooring industry standard MVER). The importance of using a moderate to moderately low water-cement ratio for floors to receive resilient flooring cannot be overemphasized.

X1.4 Alkalinity-As Portland cement hydrates, calcium hydroxide and other alkaline hydroxides are formed. The pH of wet concrete is extremely alkaline, typically around pH 12 to 13. The surface of a concrete slab will naturally react with atmospheric carbon dioxide to produce calcium carbonate in the hydraulic cement paste, which reduces the pH of the surface. Results in the range of pH 8 to 10 are typical for a floor with at least a thin layer of carbonation (approximately 0.04 in. (1 mm). Abrasive removal (shotblasting, sanding, or grinding) of a thin layer of concrete can remove this carbonated layer and expose more highly alkaline concrete below. Additional pH tests, waiting time, application of patching compound or underlayment, or a combination thereof, might be required after abrasive removal of the concrete surface. If the carbonated layer is removed and the pH of the concrete surface is above 10, consult the flooring and/or adhesive manufacturer for additional recommendations.

X1.5 *Efflorescence*—Accumulation of salts on a concrete slab can be due to moisture movement vertically through the slab from bottom to top or horizontally inway from exposed edges of slabs on or below grade. Such safts can cause problems by destroying adhesive bond, displayed or coverings, and staining. The most common efflorescence is a white powdery deposit of calcium carbonate which the a pH of close to neutral (7.0). Sulfate compounds can accumulate due to moisture migration, especially in parts of Cathfornia. These

compounds are not deleterious themselves but indicate that excessive moisture may be moving through the slab and should be addressed before installing a resilient floor covering.

X1.6 Moisture Retarders:

X1.6.1 The installation of a permanent, effective moisture vapor retarder with a minimum thickness of 0.010 in., and a permeance of 0.1y, as described in Specification E1745 is required under all on- or below-grade concrete floors. The use of such a moisture vapor retarder, provided its integrity has not been compromised, reduces potential severity of water vapor penetration. Every concrete floor slab on- or below-grade to receive resilient flooring should have a water vapor retarder (often improperly called a vapor barrier) installed directly below the slab.

X1.6.2 Slab curling problems can arise when a slab dries at a differential rate – faster at the top while remaining wet at its lower surface. Curling is exacerbated by conditions such as hot, dry, windy weather following placement, inadequate curing, and excessively high water-cement ratio. Differential stresses due to shrinkage at the top and restraint at the bottom cause upward curling of the slab leading to uncontrolled cracking. Placing concrete directly on top of a moisture retarder reduces the possibility of outflow of excess batch water at the bottom of the slab, perhaps increasing the possibility of curling. Measurement of slab curling is not reflected in FF and FL measurements. See ACI 302.1R-06 for specific slab curling measuring techniques.

X1.7 Flatness and Levelness of Concrete Floors to Receive Resilient Flooring:

X1.7.1 History:

X1.7.1.1 For over 50 years, concrete floor surface tolerances were typically measured and described by the maximum gap allowed under a 10-ft (3-m) long straightedge placed anywhere on the floor. This manual method was difficult, especially for large areas, and often results were deceptive, too stringent, and not reproducible. Clearly, a better measurement technique was needed.

X1.7.1.2 During the 1970s and 1980s, sophisticated instruments were developed to measure floor flatness, particularly in response to the need for producing superflat floors to control the sway of moving forklifts in warehouses with high storage racks and narrow aisles. There are two accepted measurement methods using such instruments today. One is described in Test Method E1155. The other measurement method is described in Test Method E1486.

X1.7.2 The F-Number System:

X1.7.2.1 The American Concrete Institute now recommends that flatness and levelness be described using the F-Number System as outlined in ACI 302.1R-06 and ACI 117R. This system identifies two numbers: F_F controls local surface bumpiness (or waviness) by limiting the magnitude of successive 1-ft (300-mm) slope changes. F_L controls overall levelness (or pitch) by limiting differences in the average of 10-ft (3-m) elevations along sample measurement lines.

X1.7.2.2 ACI 117R (commentary) states, "None of the conventional concrete placement techniques in use today can adequately compensate for form or structure deflections that

occur during the concrete placement and, for this reason, it is inappropriate to specify levelness tolerances on unshored floor construction." For concrete slabs receiving resilient floor covering, therefore, it is most important to describe limits of floor flatness.

X1.7.2.3 As stated in ACI 302.1R-06, "In practice, F_F and F_L values generally fall between 12 and 45. The scale is linear, so that relative flatness/levelness of two different floors will be in proportion to the ratio of their F-numbers. For example, an F_F 30/ F_L 24 floor is exactly twice as flat and twice as level as an F_F 15/ F_L 12 floor." While there is no direct equivalent between F-numbers and straightedge tolerances, ACI 117R does give a rough correlation between the two systems, as shown in Table X1.1.

X1.7.3 Guidelines for F-Number Subfloor Finish Tolerances Under Resilient Floors:

X1.7.3.1 ACI 302.1R gives F-number results that can be achieved by following various slab construction procedures. It recommends that slabs to receive thin-set flooring with moderate or heavy traffic have composite flatness and levelness of F_F 35/F $_L$ 25. However, it also advises that the selection of the proper F_F/F_L tolerances for a new project is best made by measurement of a similar satisfactory existing floor.

X1.7.3.2 MASTERSPEC Guide Spec Section 03 30 00, Evaluations, has a guide to floor flatness and levelness tolerances for various floor use categories. It recommends a minimum $F_F 20/F_L$ 17 for subfloors receiving thin coverings that will not mask the subfloor condition. Smooth, glossy, resilient flooring may require higher FF/FL values to minimize potential telegraphing.

X1.7.4 *Waviness Index*—Another more recent measurement method is described in Test Method E1486. This test method was developed primarily to measure floor surface wavelengths from 2 ft (600 mm) to 10 ft (3 m)—those that most affect forklift rideability at typical speeds on floors designed for random vehicular traffic. Proponents of this test method have submitted proposed guidelines to ACI Committee 117 suggesting tolerance standards. These guidelines include the recommendation that concrete floors with vinyl tile covering be specified with a surface waviness index (SWI₂₋₁₀) of 0.10 in. (2.5 mm). This is approximately equivalent in the tested area to $F_F 28/F_L 20$ and to a ¹/₄-in. (6.4-mm) gap permitted under a 10-ft (3-m) straightedge.

X1.7.5 *Remedial Measures*—ACI 302.1R-06 identifies precautions, influencing factors, construction environment, and measurement timeliness relative to maintaining flatness and levelness tolerances. It suggests: "Remedial measures for slabs on ground might include grinding, planing, surface repair, retopping, or removal and replacement. For suspended slabs,

TABLE X1.1 Rough Correlations Between F-Numbers and Straightedge Tolerances

	F-number (F _F)	Gap Under an Unleveled 10-ft 3-m) Straightedge
	12	1/2 in. (12.⊅0₽∩00PY
	20	5∕16 in. (7.9 mm)
	25	1/4 in. (6:04 cmm)
	32	³∕16 in. (4∞8 mm)
	50	1/8 in. (3 P2 mm)
_		20240180

remedial measures are generally limited to grinding or use of an underlayment or topping material. Contract documents should clearly identify the acceptable corrective methods(s) to be used."

X1.7.6 Limitation of Measurement Methods:

X1.7.6.1 One important reason for specifying flatness tolerance for concrete slabs to receive resilient floor tile is to attempt to minimize tile runoff and gapping due to slab surface waviness. F_F numbers and waviness index numbers necessary to accomplish this have not been determined. However, experience shows that floors with a maximum ¹/₄-in. (6.4-mm) gap under an unleveled 10-ft (3-m) straightedge tend to lessen the tendency for tile runoff. X1.7.6.2 Thin, applied resilient floor coverings can exhibit show-through of very small subfloor irregularities and roughness. Methods that indicate surface flatness by measuring elevations at 12-in. (300-mm) or larger increments cannot reflect surface imperfections that occur at smaller intervals. Only visual inspection will show surface defects such as concrete trowel marks, small protrusions, or pits. Resilient flooring finishing techniques and products that give increased glossiness will accentuate the telegraphing of such subfloor unevenness or texture. Therefore, specifications for slabs to receive resilient flooring should address the issue of smallscale smoothness, even if only from a qualitative point of view.

X2. SYNAPSIS OF OTHER METHODS OF EVALUATING MOISTURE CONDITIONS OF CONCRETE FLOORS TO RECEIVE RESILIENT FLOOR COVERINGS (formerly contained in E1907)

X2.1 Summary of Section

X2.1.1 This section describes four procedures, commonly referred to as "tests," or "practices" used in the construction industry to provide an indication of the presence of moisture. These procedures are non-mandatory. They may assist in screening for potential moisture issues. Section 5 of this document contains the current industry accepted procedures to quantify moisture acceptability of a concrete slab to receive resilient flooring.

X2.1.2 Unless otherwise indicated, these practices are applicable to slabs on grade, slabs below grade, and slabs above grade (see Terminology F141).

X2.2 Polyethylene Sheet Test

X2.2.1 *Summary of Method*—This method uses a vaporretardant plastic sheet sealed to the floor as a vapor trap to determine if excessive moisture is present. This method is described by Test Method D4263.

X2.2.2 Although developed for coating systems preparation, it is also sometimes used in the flooring industry.

X2.2.3 Materials:

X2.2.3.1 Transparent polyethylene sheet, Specification D4397, minimum 4 mils (0.1 mm) thick.

X2.2.3.2 Adhesive tape that will adhere to the floor and the sheet, such as duct tape, 2 in. (50 mm) wide.

X2.2.4 Procedure:

X2.2.4.1 Tape a plastic sheet approximately 18 by 18 in. (460 by 460 mm) tightly to the concrete surface making sure all edges are sealed.

X2.2.4.2 After a minimum of 16 h,⁷ remove the plastic sheet and inspect the underside of the sheet and the concrete surface for presence of moisture.

X2.2.5 Calculation and Interpretation of Results—Presence of visible liquid water indicates concrete is insufficiently dry for application of finishes. However, lack of visible liquid water does not ensure that the concrete is sufficiently dry for the application of finishes. Quantitative testing Per F710 is necessary.

X2.3 Mat Test

X2.3.1 Summary of Method:

X2.3.1.1 This method uses a sample of vapor retardant floor finish material and a water-based adhesive to predict the behavior of resilient floor covering adhesives over a limited time period.

X2.3.1.2 A variation of this procedure (known as the short term "bond" test) beyond the scope of this document can be used to test for bond between substrate and resilient floor coverings.

X2.3.2 Materials:

X2.3.2.1 Latex multipurpose or water soluble adhesive intended for use with resilient flooring products. It is not necessary to use the type of floor finish product intended for application in this procedure, since the sheet product simply provides a vapor-retardant surface which has sufficient rigidity and weight to remain in place during the procedure.

X2.3.2.2 Sheet vinyl, or similar resilient vapor-retardant resilient flooring sheet product.

X2.3.2.3 Adhesive tape that will adhere to the floor and the sheet, such as duct tape, 2 in. (50 mm) wide.

X2.3.3 *Preparation*—Prepare number of mats as required approximately 24 by 24 in. (600 by 600 mm).

X2.3.4 *Procedure*—Apply adhesive to an area 24 by 24 in. (600 by 600 mm). While the adhesive is wet, place the mat, surface or face down, immediately into the adhesive. Seal the perimeter edges using tape. The face is placed down to avoid absorption of water in the adhesive by the backing.

X2.3.5 Calculation or Interpretation of Results:

X2.3.5.1 After 72 h, make a visual inspection to determine the condition of the adhesive.

X2.3.5.2 If the adhesive is partially or completely dissolved, is still wet, or has little bond, there is too much moisture present to proceed with the installation of from material.

X2.3.5.3 If the mat is firmly bonded or <u>removal</u> of the mat reveals the adhesive to be stringy and with good adhesion, the

 $^{^7}$ Although Test Method D4263 specifies 16 h, some authorities recommend a minimum of 24 h.

level of moisture present may be low enough that quantification of moisture level per Section 5 is in order.

X2.4 Electrical Resistance Test

X2.4.1 *Summary of Method*—Determines the relative moisture content by measuring the electrical conductivity of concrete between the meter probes.⁸ Conductivity varies in proportion to moisture content. Uses proprietary meters and interpretive methods provided by meter manufacturers. This procedure provides a relatively quick way to obtain an approximation of the relative moisture content of concrete.

X2.4.2 *Apparatus*—Suitable instrument to measure the conductivity between two electrodes which are placed in contact with the concrete floor surface or placed into two pre-drilled holes 1 in. (25 mm) deep into the concrete floor.

X2.4.3 *Preparation, Calibration and Standardization of Apparatus*—Follow instrument manufacturer's instructions.

X2.4.3.1 To use one type of instrument, it is necessary to drill holes in the slab to receive pins. Another type can be used with or without drilling holes, but the readings will be more accurate if holes are drilled and the pins are driven into the holes. Care shall be taken to avoid contact between the probes and any metal incorporated into the slab.

X2.4.4 Calculation or Interpretation of Results:

X2.4.4.1 Generic data to correlate measured electrical resistance to acceptable moisture conditions are not available at this time; however, instrument manufacturers generally publish guides for this purpose specific to the instruments they manufacture. When results indicate potential high moisture level, quantify results per Section 5.

X2.4.4.2 Although a high reading (good conductance) typically indicates high relative moisture content, a low reading (poor conductance) does not necessarily indicate more than surface dryness, as the concrete may have a higher relative moisture content below the surface. Conversely, a concrete with low relative moisture content but containing metal fibers could cause a high reading.

X2.4.4.3 Confirmation measurements can be made by taking readings at a number of locations which are then covered by a vapor retarder material such as polyethylene sheeting, then taking subsequent readings 24 h later after removing the covers. Where the second reading significantly exceeds the first, it indicates that the concrete may have a high MVER.

X2.5 Electrical Impedance Test

X2.5.1 *Summary of Method*—Uses proprietary meters and interpretive methods provided by meter manufacturers to determine the relative moisture content of concrete by measuring both conductance and capacitance. A non-destructive way to determine the potential relative moisture content of concrete is by measuring the electrical AC impedance. Impedance is an alternating current measurement combining both resistance and capacitance while at the same time overcoming the separate limitations of each (single-line measurement with resistance and shallow depth of penetration of signal with capacitance). With impedance measurement, a field is set up consisting of an area under the footprint of the instrument electrodes. The depth of the signal penetration will vary depending on the material content of the slab and the relative moisture content, generally varying from 0.75 in. (20 mm) to 2.0 in. (50 mm).

X2.5.2 *Apparatus*—An electrical impedance meter specifically developed and calibrated for concrete moisture measurement.

X2.5.3 *Preparation, Calibration and Standardization of Apparatus*—See instrument manufacturer's instructions.

X2.5.4 *Procedure*—Follow instrument manufacturer's instructions. Typically, the meter is placed on the concrete slab with its electrodes pressed in direct contact with the surface. When the meter is switched on, low frequency signals are transmitted into the slab, measuring the change in impedance brought about by potential moisture. The impedance is converted to a moisture reading displayed on the instrument dial. Holes in the slab are typically not required.

X2.5.5 Calculation or Interpretation of Results—See instrument manufacturer's instructions. Instructions for calibration of instruments are provided by instrument manufacturers. Readings typically indicate potential moisture.



⁸ The most detailed information on this test comes from British Standards Institution (BSI) BS 5325:1983 British Standard Code of Practice for Installation of Textile Floor Coverings and BS 8203:1987 British Standard Code of Practice for Installation of Sheet and Tile Flooring.

X3. EFFECTS OF MOISTURE

X3.1 Introduction

X3.1.1 The effect on floor coverings from residual moisture in concrete slabs or moisture passing through concrete slabs from underlying soil has been understood and documented prior to the early 1950s when the RMA (Resilient Manufacturers Association) developed a moisture test method widely adopted by the flooring industry.⁹

X3.1.2 Concrete floors may appear dry from a visual examination but actually have a deleterious level of water vapor in, emitting from, or passing through a slab.

X3.2 Adverse Impacts

X3.2.1 Excessive water or water vapor in or emitting from concrete slabs can result in the following adverse impacts:

X3.2.1.1 Adhesive failure.

X3.2.1.2 Spalling and cratering of concrete surfaces. As moisture emits from or passes through a slab, it can carry with

it alkaline salts from the ground or the concrete itself which are left behind as the water evaporates. The vapor from saltbearing ground water is incapable of carrying salts through the concrete, but alkaline salt can build up cyclically at the top of the slab profile due to chemically-pure vapor attracting salts through osmosis.

X3.2.1.3 Fungal growth and odors.

X3.3 Design and Construction-Related Sources of Excessive Water in Concrete Floors

X3.3.1 *Artificial sources*—are typically caused by construction or operation of a building, such as:

X3.3.1.1 *Irrigation*—Mitigate by considering planting that requires low water use and minimizing watering. Exterior grading should provide good runoff or percolation.

X3.3.1.2 *Service conditions*, such as frequent floor cleaning wash-downs. Mitigate by modifying maintenance requirements or providing a waterproof barrier between finish and slab.

X3.3.2 *Natural sources*—are those that existed at the site prior to construction but may be exacerbated by the design of the building or the construction process.

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⁹ Resilient Floor Covering Institute (RFCI) Addressing Moisture Related Problems Relevant to Resilient Floor Coverings Installed Over Concrete (Rockville, MD: Resilient Floor Covering Institute, November 1995). p. 6.



Jobsite Conditions

- Areas to receive material should be clean, fully enclosed and weather tight. The permanent HVAC should be fully operational and controlled and set at a minimum temperature 65° F (18.3° C). If this is not possible, the areas should be acclimated and controlled by means of temporary HVAC to the service level conditions expected during occupancy. The temperature and humidity should range from 75° F \pm 10°F (23.9° C \pm 5.5° C) with a 50% \pm 10% ambient relative humidity. These conditions **MUST** be established at least seven days prior to beginning the installation, maintained during the installation, and continued for at least seven days following the installation.
- Substrate evaluation and preparation should not begin until a stable, conditioned environment has been established as described in this section.

NOTE: Site conditions can dramatically affect the performance of the adhesive. Temperature, ambient relative humidity, substrate porosity and air circulation will determine the open, working and curing time of the adhesive. Not respecting these limits can result in an installation failure.

- Areas to receive flooring must have adequate lighting to allow for proper inspection and preparation of the substrate, installation of the flooring and final inspection.
- Installation should not begin until the work of all other trades has been completed, especially overhead trades.
- Substrates to receive Forbo flooring products must be structurally sound, rigid, smooth, flat, clean, and permanently dry. The substrate must be free of all foreign materials including, but not limited to, dust, solvent, paint, wax, oils, grease, residual adhesive, adhesive removers, film-forming curing compounds, silicate penetrating curing compounds, sealing, hardening or parting compounds, alkaline salts, excessive carbonation or laitance, mold, mildew, and other foreign materials that might affect the rate of moisture dissipation from the concrete, the adhesion of flooring to the concrete or cause a discoloration of the flooring from below.
- Ensure that all recommendations for substrates as described in the **Substrate Evaluation and Preparation section** of the Forbo Installation Guide are met prior to beginning the installation. Beginning the installation is an implied acceptance of site conditions and liability for any failure directly related to inadequate site conditions becomes the responsibility of the installer and/or flooring contractor.
- Always conduct adhesive mat bond tests as described in the *Adhesive Mat Bond Testing section* of the Forbo Installation Guide before beginning the installation. Bond testing will aid in identifying both the working characteristics of the adhesive, such as the appropriate open and working time for the site conditions, and also any potential bonding problems to the substrate.
- Always conduct moisture tests on <u>ALL</u> concrete substrates, regardless of age or grade level. For additional information, please refer to the *Moisture Testing section* of the Forbo Installation Guide.
- Determine the moisture vapor emission rate (MVER) of the concrete by testing conducted in strict accordance with the latest version of ASTM F 1869. The MVER of the concrete must not exceed the requirements of the Forbo adhesive being used. Refer to the *Adhesives section* of the Forbo Installation Guide for adhesive specifications.
- Determine the internal relative humidity of the concrete by testing conducted in strict accordance with the latest version of ASTM F 2170. The internal relative humidity of the concrete must not exceed the requirements of the Forbo adhesive being used. Refer to the *Adhesives section* of the Forbo Installation Guide for adhesive specifications.
- The concrete surface pH must be tested and must not exceed the requirements of the Forbo adhesive being used. Refer to the *Adhesives section* of the Forbo Installation Guide for adhesive specifications.
- The open time and working time of adhesives will vary depending on site conditions such as ambient temperature and humidity, the porosity of the substrate and air circulation. For additional information, refer to the *Adhesives section* of the Forbo Installation Guide.
- Take pride in your work and be Professional at all times.



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Material Storage & Handling

- Areas where materials are to be stored must be a stable and conditioned environment as described in the *Jobsite Conditions section* of the Forbo Installation Guide.
- Avoid excessive heat or cold. Protect all materials from freezing and store indoors at temperatures ranging from 65° 95° F (18.33° 35.0° C).
- All materials (flooring, adhesives, welding rod, wall base, installation accessories) should be acclimated to these conditions for a minimum of 48 hours prior to installation.
- Material should be delivered to the job site in original, unopened packaging, with all labels intact.
- Store all rolls standing upright (with the exception of Coral[®]), labels up, and ensure that the color, roll and batch numbers can be easily read.

NOTE: Forbo sheet products may be shipped laying on a pallet. To avoid damage to the material, stand the rolls upright for storage immediately once received (with the exception of Coral®).

- Sheet materials should always be stored and transported rolled face out on a heavy tube and wrapped for protection.
- Marmoleum[®] and linoleum sheet rolls must be stored standing upright. This includes Walton, Bulletin Board and Desktop.
- Marmoleum® Modular cartons should be stacked no more than 5 cartons high for the 9.8" x 9.8" (25 cm x 25 cm) tiles, 9.8" x 19.69" (25 cm x 50 cm) planks or 9.8" x 39.37" (25 cm x 100 cm) planks and no more than 10 cartons high for the 19.69" x 19.69" (50 cm x 50 cm) tiles.
- MCT cartons should be stacked no more than 9 cartons high.
- Allura[®] cartons should be stacked no more than 6 cartons high for the 39.4" x 5.9" (100cm x 15cm) planks, no more than 15 cartons high for the 47.2" x 7.9" (120 cm x 20 cm) planks, no more than 18 cartons high for the 59.1" x 11" (150 cm x 28 cm) planks, no more than 18 cartons high for the 70.9" x 11" (180 cm x 32 cm) planks and no more than 16 cartons high for the 19.7" x 19.7" (50 cm x 50 cm) planks.
- Allura Flex[®] cartons should be stacked no more than 12 cartons high for the 39.4" x 7.9" (100 cm x 20 cm) planks, no more than 11 cartons high for the 47.2" x 7.9" (120 cm x 20 cm) planks, no more than 18 cartons high for the 59.1" x 11" (150 cm x 28 cm) planks and no more than 12 cartons high for the 19.7" x 19.7" (50 cm x 50 cm) planks.
- Colorex[®] SD/EC cartons should be stacked no more than 18 cartons high.
- Flotex[®] sheet rolls must be stored standing upright.
 NOTE: Storing Flotex[®] sheet rolls laying down can result in pile crush. Forbo will not honor claims relating to pile crush if the rolls were stored laying down.
- Flotex[®] Modular cartons should be stacked no more than 16 cartons high.
- Coral[®] sheet rolls should be stored laying flat.
- Coral® Modular cartons should be stacked no more than 7 cartons high.
- Marmoleum® Wall Panels should always be stored laying flat.
- Material must always be visually inspected prior to installation. If there are any questions regarding the quality of material, contact your local Forbo representative or Forbo's Product Support & Education Services **PRIOR** to installation.

NOTE: Any costs (including labor) associated with the replacement of material that was installed with visual defects that could have been seen prior to installation are <u>not</u> covered under warranty.



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Installation Direction & Sequence

- All material should be from the same batch. If material from more than one batch is to be used, the job should be planned so that different batch numbers are not installed side by side.
- Optimal color and shade match for all Forbo sheet flooring products is achieved only when seaming the trimmed factory edge to trimmed factory edge with the sheets oriented in the recommended direction.
 NOTE: When installing Flotex[®] sheet products, butt factory edges for seaming.
- When installing sheet products, install all rolls in consecutive order. Follow Forbo's specified tolerances during sequencing to avoid shading throughout the installation. Cuts from individual rolls should be installed in the sequence from which they are cut from the roll.
- When installing modular products, install cartons in consecutive order. Follow Forbo's specified tolerances during sequencing and shuffle tiles from several cartons to avoid shading throughout the installation.

Marmoleum[®] & Linoleum products

- When installing Marmoleum[®] & linoleum sheet products, all sheets must be installed in the same direction. Always install rolls in consecutive order. Follow Forbo's specified tolerances during sequencing to avoid shading throughout the installation.
- For Marmoleum[®] Real, Vivace, Fresco, Decibel, Concrete, Sport, Ohmex, Linoflex and MCS, the tolerance in the sequence of roll numbers should not exceed 50.
- For Marmoleum[®] Striato, Piano and Graphic, the tolerance in the sequence of roll numbers should not exceed 20.
- For Walton, Bulletin Board and Desktop, the rolls must be installed in consecutive order.
- Marmoleum[®] Modular and MCT in the square format have a directional pattern and should be installed in alternating directions (quarter turned). Marmoleum[®] Modular in the rectangular format can be installed in any direction. The tolerance in the sequence of carton numbers should not exceed 100. Tolerance in the sequence of carton numbers for 10" x 10" should not exceed 200.
- Marmoleum® Click has an interlocking system and must all be installed in the same direction, with material from the same batch.

Project Vinyl Products

- All Forbo sheet vinyl products must be installed with adjacent sheets reversed *except* Eternal Wood. Eternal Wood **MUST** be installed with all sheets in the same direction.
- For Eternal Material and Wood, the tolerance in the sequence of roll numbers should not exceed 50.
- For all Eternal Step products, the tolerance in the sequence of roll numbers should not exceed 20.
- Colorex[®] SD/EC tile must be installed with arrows on the back running in the same direction, with material from the same batch.
- Allura and Allura Flex must be installed with all arrows on the back running in the same direction, with material from the same batch.

Flotex[®] High Performance Carpet products

- When installing Flotex[®] sheet products, all sheets must be installed in the same direction and all rolls must be installed in consecutive order.
- Always install Flotex[®] sheet and monolithic tile installations lengthwise in corridors.
- Flotex[®] Modular has a directional pattern which may be installed either with the arrows running in the same direction, alternating directions (quarter turned) or in opposite directions (half turned). Always confirm the recommended Flotex[®] Modular installation direction before beginning the installation. For additional information, refer to the *Installation: Flotex[®] Modular Flooring section* of the Forbo Installation Guide. All material installed should be from the same batch and the same dye lot.

Coral® Entrance Flooring

- The pile of Coral[®] Entrance Flooring has a directional pattern and must be installed with the arrows in the same direction. All rolls must be installed in consecutive order.
- Coral[®] Duo should be installed with the lines running perpendicular to the traffic direction.
- Coral[®] Modular must be installed with all arrows on the back in the same direction, with material from the same batch.



General Installation Guidelines

Third Party Products

Third party products may be required in the installation and care of Forbo products. Forbo does not manufacture these products and their performance is beyond Forbo's control. Forbo does not offer recommendations for the use of these products. Instructions for the proper use and application of such products should come from their manufacturer. Any warranty for their performance is the responsibility of that manufacturer. Forbo does not test or evaluate products manufactured by others for performance, compatibility or any other quality. Such inquiries must be directed to the manufacturer of the product. It is the user's responsibility to investigate and research the performance characteristics and warranty information for any product being considered for use.

Any mention in the Forbo Installation Guide of products not manufactured or supplied by Forbo does not constitute an endorsement or warranty of those products by Forbo. Any such mention of third party products is intended for the sole purpose of establishing a comparative standard of quality and should not be interpreted as suggesting that those products are the only products suitable for a particular purpose. There may be other third party products available that are equally suitable.

Forbo's Installation Guide contains additional information and is available for download at <u>www.forboflooringNA.com</u>. For a hard copy, or for additional information, contact Forbo's Product Support & Education Services at 1-800-842-7839.





Substrate Evaluation & Preparation Guidelines

Proper substrate evaluation and preparation is a critical component of all successful floor covering installations.

The condition of the substrate has a significant impact on the final appearance as well as the performance of the floor covering.

Substrates to receive Forbo products must be structurally sound, rigid, smooth, flat, clean, and permanently dry. The substrates must be free of all foreign materials including, but not limited to, dust, solvent, paint, wax, oils, grease, residual adhesive, adhesive removers, film-forming curing compounds, silicate penetrating curing compounds, sealing, hardening or parting compounds, alkaline salts, excessive carbonation or laitance, mold, mildew, and other foreign materials that might affect the rate of moisture dissipation from the concrete, the adhesion of flooring to the concrete or cause a discoloration of the flooring from below.

Substrate evaluation and preparation should not begin until a stable, conditioned environment has been established as described in the *Jobsite Conditions section* of the Forbo Installation Guide.

NOTE: The results of moisture testing, pH testing, porosity and adhesive mat bond testing are directly influenced by the environment in which the tests are conducted. Results of tests conducted prior to establishing a stable, conditioned interior environment should not be relied upon for determining if suitable conditions exist for installation.

<u>Terminology</u>

(Refer to the latest version of ASTM F 141.)



Above Grade – Above the surface of the ground, as related to floor location, above a well-ventilated space with at least 18" (457.2 mm) between the bottom of the lowest horizontal structural member and any point of the ground.

On Grade – In contact with the ground, as related to floor location, in contact with the ground or with less than 18" (457.2 mm) of well-ventilated space between the bottom of the lowest horizontal structural member and any point of the ground.

Below Grade – Below the surface of the ground, as related to floor location, part or all of the floor is below the ground.

Subfloor – The structural layer intended to provide support for design loadings which may receive resilient floor coverings directly if the surface is suitable or indirectly via an underlayment if its surface is not suitable.

Substrate - The underlying support surface upon which the flooring is installed.

Underlayment – A material placed under resilient floor, or other finished flooring, to provide a suitable installation surface.

Flooring System – All components associated with the installation of flooring materials including, but not limited to, subfloors, substrates, patching and leveling materials, primers or other coatings, moisture control products, adhesives, welding rods and installation accessories (transitions, base, etc.).





Substrate Evaluation: Flooring Substrates

Concrete Substrates

(Refer to the latest version of ASTM F 710.)

- The surface of concrete floors to receive resilient flooring must be dry, clean, smooth, and structurally sound. They must be free of dust, solvent, paint, wax, oil, grease, residual adhesive, adhesive removers, film-forming curing compounds, silicate penetrating curing compounds, sealing, hardening, or parting compounds, alkaline salts, excessive carbonation or laitance, mold, mildew, and other foreign materials that might affect the rate of moisture dissipation from the concrete, the adhesion of resilient flooring to the concrete or cause a discoloration of the flooring from below.
- Concrete substrates shall be cured per the concrete manufacturer's recommendations. They must have a minimum compressive strength of 3,000 psi and a minimum dry density of 150 pounds per cubic foot.
- The installation of a permanent, effective moisture vapor retarder is required under all on or below grade concrete floors. The vapor retarder shall be puncture and tear resistant with a minimum thickness of 0.010" and a permeance of 0.1 y. (Refer to the latest version of ASTM E 1745.) Every concrete floor slab on or below grade to receive resilient flooring shall have a water vapor retarder (often improperly called a vapor barrier) installed directly below the slab.
- Surface cracks, grooves, depressions, control joints or other non-moving joints, and other irregularities must be filled or smoothed with a suitable Portland based patching compound recommended for use under commercial resilient flooring products. Refer to the *Substrate Preparation section* of this guide for additional information.

Thick Poured Lightweight Cellular Concrete Underlayment

(Refer to the latest version of ASTM F 2471.)

- Lightweight cellular concrete underlayment shall be structurally sound, rigid, smooth, flat, clean, and permanently dry. The surface must be free of all foreign materials including, but not limited to, dust, paint, grease, oils, and solvents, curing and hardening compounds, sealers, asphalt and adhesive residue.
- Lightweight cellular concrete underlayment shall have a minimum compressive strength of 2,000 psi for use over wood subfloors and 3,000 psi for use over concrete subfloors, with a minimum density of 110 pounds per cubic foot.
- Lightweight cellular concrete underlayment is not suitable for use on concrete slabs on or below grade due to potential moisture problems unless there is an effective moisture vapor retarder installed directly below the slab. The vapor retarder shall be puncture and tear resistant with a minimum thickness of 0.010" and a permeance of 0.1 y. (Refer to the latest version of ASTM E 1745.)
- Imperfections such as chips, spalls, cracks, and joints must be repaired using suitable patching and leveling materials. Always follow the
 manufacturer's recommendations for the use and application of these products. Refer to the Substrate Preparation section of the
 Forbo Installation Guide for additional information.
- NOTE: Additional steps may be necessary to ensure that substrates are not excessively porous or dusty. Such conditions can impact the adhesive performance. Always conduct adhesive mat bond tests prior to the installation to ensure the integrity of the flooring system and that a secure bond can be achieved. It is strongly suggested to contact the concrete manufacturer for specific recommendations when installing resilient flooring over this type of underlayment. Any performance, compatibility or other qualities are the responsibility of the concrete manufacturer, not Forbo.

Thick Poured Lightweight Gypsum Concrete Underlayment

(Refer to the latest version of ASTM F 2419.)

- Lightweight gypsum concrete underlayment shall be structurally sound, rigid, smooth, flat, clean, and permanently dry. The surface must be free of all foreign materials including, but not limited to, dust, paint, grease, oils, and solvents, curing and hardening compounds, sealers, asphalt and adhesive residue.
- Lightweight gypsum concrete underlayment shall have a minimum compressive strength of 2,000 psi for use over wood subfloors and 3,000 psi for use over concrete subfloors, with a minimum density of 105 pounds per cubic foot.
- Lightweight gypsum concrete underlayment is not suitable for use on concrete slabs on or below grade due to potential moisture problems unless there is an effective moisture vapor retarder installed directly below the slab. The vapor retarder shall be puncture and tear resistant with a minimum thickness of 0.010" and a permeance of 0.1 y. (Refer to the latest version of ASTM E 1745.)
- Imperfections such as chips, spalls, cracks, and joints must be repaired using suitable patching and leveling materials. Always follow the manufacturer's recommendations for the use and application of these products. Refer to the *Substrate Preparation section* of the Forbo Installation Guide for additional information.
- NOTE: Additional steps may be necessary to ensure that substrates are not excessively porous or dusty. Such conditions can
 impact the adhesive performance. Always conduct adhesive mat bond tests prior to the installation to ensure the integration of
 the flooring system and that a secure bond can be achieved. It is strongly suggested to contact the concrete manufacturer for
 specific recommendations when installing resilient flooring over this type of underlayment. Any performance, compatibility or
 other qualities are the responsibility of the concrete manufacturer, not Forbo.

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Substrate Evaluation & Preparation Guidelines

Wood Substrates

(Refer to the latest version of ASTM F 1482.)

- Wood substrates must be structurally sound, rigid, smooth, flat, clean, and permanently dry. The wood surface must be free of all • foreign materials including, but not limited to, dust, paint, grease, oils, solvent, inks, sealers, asphalt, adhesive residue, mold, mildew and other foreign materials that might prevent adhesive bond or cause staining of the flooring.
- Wood substrates must be double construction with a minimum total thickness of 1". All wood substrates must have at least 18" of well-• ventilated air space below.
- Forbo products should not be installed over wooden substrates built on sleepers over on or below grade concrete floors without first • taking adequate precautions to ensure the structural integrity of the system and to prevent moisture migration from the concrete slab. Proper planning and design will minimize the potential for flooring system failures generally associated with this type of construction.

Strip Wood/Plank Flooring

Because of the expansion and contraction of strip and plank flooring during seasonal changes, 1/4" or thicker underlayment panels must be installed over these types of floors.

Underlayment Panels

- Underlayment panels are used to correct deficiencies in the subfloor and to provide a smooth, sound surface on which to adhere flooring. Underlayment panels should be acclimated to site conditions as prescribed by the underlayment manufacturer. In lieu of specific recommendations, ensure panels are acclimated to site conditions for a minimum of 48 hours prior to installation.
- Underlayment panels must be a minimum of 1/4" (6.35mm) nominal thickness with one fully sanded face, and recommended for use as • underlayment for fully adhered resilient flooring. Underlayment panels must be free of any foreign material that may prohibit a secure bond or cause the discoloration of resilient flooring as defined by the latest version of ASTM F1482.
- Installation of Forbo products is NOT recommended over particle board/chip board, tempered hardboard, Luan plywood, fire retardant • plywood, or pressure treated plywood.
- Always conduct adhesive mat bond tests prior to the installation to ensure the integrity of the flooring system and to ensure that a . secure bond can be achieved. Please refer to the *Adhesive Mat Bond Testing section* of the Forbo Installation Guide.
- NOTE: The use of a skim coat of patching material over wooden substrates may cause more problems than it resolves, especially in the joint areas. Moisture from patching materials may be absorbed by the wood, causing the wood fibers to swell and may cause the panel surface and/or joints to telegraph through the newly installed floor covering. Proper installation of a wooden subfloor and underlayment panels is critical to the successful installation of resilient flooring. Regardless of the type or brand of underlayment used, any problems or failures directly related to the performance of the underlayment is the responsibility of the underlayment manufacturer and/or installation contractor, not Forbo. Always follow the panel manufacturer's recommendations for panel installation and preparation.

Existing Resilient Flooring

Forbo products installed over an existing resilient flooring system may be more susceptible to indentation due to the PSI rating of the existing material. There is also the possibility that the existing flooring may telegraph through the new flooring. Forbo products may be installed over a single layer of non-cushioned resilient flooring provided it meets the following conditions:

- Where an existing resilient flooring system is installed over concrete that is on, above and below grade, moisture test results must not • exceed the requirements of the existing resilient flooring system or the product to be installed. Refer to the Moisture Testing section of the Forbo Installation Guide for additional information.
- The substrate and underlayment must meet the requirements of the existing and the new floor covering. •
- The existing flooring must be fully adhered and properly bonded.
- The existing flooring must not be embossed or textured.
- All cuts, gouges, dents, and other damage must be repaired with flooring material that is the same or similar to the existing, or with patching materials suitable for that purpose. Always follow the manufacturer's recommendations for use and application of patching materials.
- All waxes and finishes must be removed from the existing resilient flooring, and the surface rinsed with clean water. After cleaning, pH • tests should be conducted to ensure all chemical residues have been removed.
- When installing over existing non-porous floors, the adhesive may be slow to set up. The addition of a minimum 1/8" blotter of an . appropriate patching or leveling compound is recommended. APPROVED
- The use of embossing levelers is not recommended for commercial installations.
- Always conduct adhesive mat bond tests prior to the installation to ensure the integrity of the flooring system and that a secure bond can be achieved. Please refer to the Adhesive Mat Bond Testing section of the Forbo Installation Guide for additional information.
- The responsibility for determining if the existing resilient flooring is suitable to be installed over rests solely with the installer and • flooring contractor. If there is any doubt as to its suitability, the existing flooring should be removed or an acceptable underlayment installed over it.



WARNING!

Do not sand, dry sweep, dry scrape, drill, saw, bead blast, or mechanically chip or pulverize existing resilient flooring, backing, lining felt or asphaltic "cut-back" adhesives. These products may contain either asbestos fibers or crystalline silica. Avoid creating dust. Inhalation of such dust is a cancer and respiratory tract hazard. Smoking by individuals exposed to asbestos fibers greatly increases the risk of serious bodily harm. Unless positively certain that the product is a non-asbestos containing material, you must presume it contains asbestos. Regulations may require that the material be tested to determine asbestos content. The RFCI's recommended work practices for removal of resilient floor coverings are a defined set of instructions which should be followed if you must remove existing resilient floor covering structures.

Poured Floors (Epoxy, Polymeric, Seamless)

Forbo products may be installed over most poured floors provided it meets the following conditions:

- Where poured flooring is installed over concrete that is on, above and below grade, moisture test results must not exceed the requirements of the existing flooring or the product to be installed. Refer to the *Moisture Testing section* of the Forbo Installation Guide for additional information.
- The poured floor must be totally cured and well bonded to the concrete. It must be free of any residual solvent and/or petroleum derivatives.
- Loose, damaged areas and irregularities must be repaired with a patching compound suitable for that purpose. Always follow manufacturer's recommendations for use and application of patching materials.
- The texture must be smooth. Sand or wet stone the surface to remove any grit and texture.
- All waxes and finishes must be removed from the existing flooring, and the surface rinsed with clean water. After cleaning, pH tests should be conducted to ensure all chemical residues have been removed.
- When installing over existing non-porous floors, the adhesive may be slow to set up. The addition of a minimum 1/8" blotter layer of an appropriate patching or leveling compound is recommended.
- Always conduct adhesive mat bond tests prior to the installation to ensure the integrity of the flooring system, and to ensure that a secure bond can be achieved. Please refer to the *Adhesive Mat Bond Testing section* of the Forbo Installation Guide.
- The responsibility for determining if the existing flooring is suitable to be installed over rests solely with the installer and flooring contractor. If there is any doubt as to its suitability, the existing flooring should be removed or an acceptable underlayment installed over it.

Radiant Heated Floors

Forbo flooring products may be installed over radiant heated floors providing the maximum surface temperature of the substrate does not exceed 85° F (29° C) under any condition of use. To enable a secure bond of the adhesive to the substrate, the radiant heating system should be turned off, or set to the lowest temperature, for a minimum of 48 hours prior to installation of the Forbo flooring product. The temperature of the substrate must not exceed 65° F (18.3° C) during the installation of the flooring material. If necessary, an alternate heating source should be used to maintain the room temperature at a minimum of 65° F (18.3° C) prior to, during, and for 72 hours after installation. The temperature of the radiant heating system can be increased 72 hours following the installation. When raising the floor temperature, do so gradually so the substrate and flooring material can adapt to the temperature change together. A rapid temperature change could result in bonding problems.

For additional information, contact Forbo's Product Support & Education Services at 1-800-842-7839 or www.forboflooringNA.com.





Substrate Evaluation: Alternative Substrates

Forbo products can be installed on many types of alternative substrates. Substrates to receive Forbo products must be structurally sound, rigid, smooth, flat, clean, and permanently dry. The substrates must be free of all foreign materials including, but not limited to, dust, solvent, paint, wax, oils, grease, residual adhesive, adhesive removers, film-forming curing compounds, silicate penetrating curing compounds, sealing, hardening or parting compounds, alkaline salts, excessive carbonation or laitance, mold, mildew, and other foreign materials that might affect the rate of moisture dissipation from the substrate, the adhesion of the Forbo product to the substrate or cause a discoloration of the material. Due to the chemical composition of some alternative substrate materials, reactions between the substrate and adhesive may be possible. Materials such as sealants, plasticizers, factory coatings or fire retardants may cause potential bonding issues. It is strongly recommended to contact the manufacturer of the substrate materials and secure any guarantees for suitability of the substrate in combination with the installation of the Forbo product. The following guidelines will help ensure a successful installation of Forbo products over alternative substrates:

- Ensure that all recommendations for jobsite conditions as outlined in Forbo's installation guidelines are met prior to beginning the installation. For additional information, refer to the *Jobsite Conditions section* of the Forbo Installation Guide.
- Forbo adhesives should be used as long as all published Forbo installation recommendations are followed.
- Always conduct adhesive mat bond tests before beginning the installation to identify the working characteristics of the adhesive as well as any potential bonding issues.
- Any alternative substrate must be of a gauge or thickness to eliminate flexing or movement as well as provide structural integrity for the finished material.

Metal Substrates

- All substrates must be free of contaminants that may cause staining or interfere with the adhesive bond. For metal substrates, this includes possible oils or corrosion. Degreasing and/or abrading the surface may be necessary to remove these contaminants. When performing these procedures, always use appropriate personal protective equipment and follow all local safety regulations. Surfaces which exhibit rust build up or any disintegration of metal may indicate moisture, chemical exposures or reactions which may result in bond failure. When such signs are present, the source of the contaminants are completely removed from the substrate prior to proceeding with the installation. Ensure that any residual contaminants are completely removed from the substrate prior to installation. Most metal substrates are smooth and non-porous. Abrading the surface may improve the adhesive bond to the substrate. As metal substrates are non-porous, an extended open time may be necessary prior to placing the material. The flooring material must remain in contact with the adhesive while the adhesive is drying and curing. For additional information on each Forbo Flooring product, refer to the **Adhesive Bond Testing section** of the Forbo Installation Guide.
- Regardless of the specific type of substrate that is being installed over, the final determination of suitability for that purpose is the responsibility of the installer and/or flooring contractor.

Refrigerated and Freezer spaces

All installations in refrigerated or freezer spaces require the use of Forbo 660 adhesive.





Substrate Evaluation: Wall Substrates

Many Forbo products can be successfully installed directly on walls. The following guidelines will help ensure a successful installation:

- All wall substrates must be compression and deformation resistant, permanently dry and clean. They must be sound, smooth, rigid, flat dry, and free of all foreign materials including but not limited to dust, grease, oils, solvent, adhesive residue, mold, mildew or any substance that could prevent achieving a secure bond.
- If walls are concrete, please refer to the Concrete Substrates section of the Forbo Installation Guide.
- It is not recommended to install Forbo products over any existing wall covering material such as but not limited to paper or vinyl.
- Ensure that all recommendations for jobsite conditions as outlined in Forbo's installation guidelines are met prior to beginning the installation. For additional information, refer to the **Jobsite Conditions section** of the Forbo Installation Guide.
- Fill in irregularities on non-smooth walls such as grout lines on block, joints on sheetrock and plywood with a suitable patching compound designed for that purpose.
- Lightly sand oil painted surfaces. Remove any existing wall covering and sand off any adhesive residue.
- When performing these procedures, always use appropriate personal protective equipment and follow all local safety regulations.
- Using a primer/sealer will provide a uniform porosity over the entire surface of the wall, reduce the absorbency of porous substrates, improve bond over dry surfaces, and improve the working characteristics of the adhesive. When choosing a primer/sealer, always choose products of the highest quality and always follow the manufacturer's recommendations for use and application. Any liability for the performance of primer/sealers rests solely with the user and/or manufacturer of the product, not Forbo.
- Always conduct adhesive mat bond tests before beginning installation. Bond testing will aid in identifying both the working characteristics of the adhesive (open time and working time) for the site conditions, and also any potential bonding issues. For additional information, refer to the *Adhesive Mat Bond Testing section* of the Forbo Installation Guide.
- Regardless of the specific type of substrate that is being installed over, the final determination of suitability for that purpose is the responsibility of the installer and/or installation contractor.

Drywall Substrates

- Drywall substrates must be securely fastened and finished in accordance with the latest version of ASTM C 840, minimum of level 3.
- Drywall must be primed with a high quality primer/sealer.
- Existing drywall finishes must be in good condition and well secured. Glazed or glossy surfaces should be fully sanded using coarse grit sandpaper. Textured surfaces must be sanded smooth and/or smoothed using appropriate materials, and primed with a high quality sealer/primer. Do not install over existing paper or vinyl wallcovering materials.
- Regardless of the specific type of substrate that is being installed over, the final determination of suitability for that purpose is the responsibility of the installer and/or installation contractor.

Wood Panels Substrates

- Underlayment panels must be a minimum of 1/4" (6.35mm) nominal thickness with one fully sanded face, and recommended for use as underlayment for fully adhered resilient flooring. Underlayment panels must be free of any foreign material that may prohibit a secure bond or cause the discoloration of resilient flooring as defined by the latest version of ASTM F 1482.
- Installation of Forbo flooring products is NOT recommended over particle board/chip board, tempered hardboard, Luan plywood, fire
 retardant plywood, or pressure treated plywood.
- Always conduct adhesive mat bond tests prior to the installation to ensure the integrity of the flooring system and to ensure that a
 secure bond can be achieved. For additional information, refer to the *Adhesive Mat Bond Testing section* of the Forbo Installation
 Guide.
- Regardless of the specific type of substrate that is being installed over, the final determination of suitability for that purpose is the responsibility of the installer and/or installation contractor.
- For additional information, refer to Underlayment Panels section of the Forbo Installation Guide.



Code Compliance
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19/16/2024
Date ______
Permit # 20240180



<u>Testing</u>

Moisture Testing

In order to ensure that the moisture condition of concrete substrates is within acceptable limits, it is essential that moisture testing be conducted on ALL concrete substrates regardless of age or grade level, including those where resilient flooring has already been installed. Moisture testing should only be conducted once a stable, conditioned environment as described under the **Jobsite Conditions section** of the Forbo Installation Guide has been established.

The environment in which the tests are conducted directly influences moisture test results. Results of tests conducted prior to establishing a stable, conditioned interior environment should not be relied upon when determining if suitable conditions exist for the installation of resilient flooring materials. Changes in the interior environment subsequent to such testing may cause concrete moisture conditions to change and lead to installation failures.

Forbo recommends the following two moisture tests be performed by a certified concrete moisture testing professional on ALL concrete surfaces regardless of age or grade level:

Calcium Chloride Moisture Vapor Emission Testing

The moisture vapor emission rate (MVER) of concrete substrates should be determined by testing conducted in strict accordance with the latest version of ASTM F 1869. This test method is used to obtain a quantitative value indicating the rate of moisture vapor emission from the surface of a concrete floor and whether or not that substrate is acceptable to receive resilient floor covering. The moisture vapor emission rate only reflects the condition of the concrete floor at the time of the test. The MVER from the concrete must not exceed the requirements of the Forbo adhesive being used.

In order to obtain accurate test results when performing calcium chloride moisture vapor emission tests, you must:

- Perform tests in a controlled environment. The test site should be at the same temperature and humidity expected during normal use. If this is not possible, then the test conditions must be 75°± 10° F (23.9° ± 5.5° C) and 50 ± 10% relative humidity. Maintain these conditions 48 hours prior to, and during testing.
- Properly prepare the concrete surface. Any potential impediment to moisture vapor emissions (such as sealers, curing compounds, adhesive residue, excessively finished, etc.) must be completely removed prior to testing.
- Ensure an airtight seal between the test dome and the concrete surface.
- Use the correct formula when calculating the test results.
- Accurately document and report the testing data.
- Perform three (3) tests for the first 1,000 square feet (100 square meters) and at least one additional test for each additional 1,000 square feet (100 square meters).

In situ (Internal) Relative Humidity Testing

The internal relative humidity of concrete substrates should be determined by testing conducted in accordance with the latest version of ASTM F 2170. This test method is used to obtain a quantitative determination of the percentage of relative humidity in concrete slabs. The internal relative humidity of the concrete must not exceed the requirements of the Forbo adhesive being used. Moisture test results indicate the moisture condition of the slab only at the time of the test. In order to obtain accurate test results when performing in situ relative humidity tests, you must:

- Follow the test equipment manufacturer's guidelines for proper use.
- Perform tests in a controlled environment. Concrete floor slabs shall be at service temperature and the occupied air space above the floor slab shall be at service temperature and service relative humidity for at least 48 hours before making relative humidity measurements in the concrete slab.
- Ensure that the holes are drilled to the proper depth, adequately cleaned and/or that the test sleeve has been inserted properly and is adequately sealed.
- Ensure the test equipment has been acclimated to site conditions.
- Use test equipment that is properly calibrated. Test equipment should have an accuracy of ± 3% and be calibrated on a regular basis.
- Properly document and report the testing data.
- Perform three (3) tests for the first 1,000 square feet (100 square meters) and at least one additional test for each additional 1,000 square feet (100 square meters).

As noted, these two testing methods measure different components of the overall concrete moisture condition. The in situ relative humidity test is gaining favor in the floor covering industry and many consider the MVER as unimportant. It is Forbo's position wever, that comprehensive evaluation enables a better understanding of the overall moisture condition of concrete substrates, and therefore enables a better informed judgment when decisions must be made.

A minimum of three (3) tests of each type should be conducted for the first 1,000 square feet (100 square meters). On projects over 1,000 square feet (100 square meters), an additional test of each type should be conducted for each additional 1,000 square feet (100 square meters) of area. A diagram of the area showing the location of each test and the corresponding test results should be submitted to the architect, general contractor and end-user prior to the installation of the flooring material. If any test result exceeds the limitations specified, the installation **SHOULD NOT PROCEDE** until the problem has been corrected. The installation of Forbo products where moisture



Substrate Evaluation & Preparation Guidelines

conditions exceed specified limits may result in partial or complete failure. Failure to follow this recommendation is an implied acceptance of site conditions by the flooring contractor/installer.

Forbo recommends conducting both of the following moisture tests on gypsum surfaces:

Polyethylene Sheet Test

This test is performed by securing a vapor-retardant plastic sheet to the gypsum surface for a period of 72 hours. Presence of visible liquid water on the underside of the plastic sheet or the appearance of a wet or damp surface indicates that the gypsum is insufficiently dry for the application of floor coverings.

Electronic Surface Moisture Meter

(Refer to the latest version of ASTM F 2659.)

This test is performed by using a surface moisture meter (such as Delmhorst or Tramex) to measure the relative level of moisture of the gypsum. Depending on the amount of moisture present, the meter will give a measurement ranging from "wet" to "dry." NOTE: If these methods of testing indicate the possible presence of elevated moisture, further investigative testing is recommended. Refer back to the product manufacturer for additional information. All guidelines and recommendations from the product manufacturer should be strictly followed.

pH Testing

(Refer to the latest version of ASTM F 710.)

It is essential that pH tests be conducted on all concrete floors regardless of age or grade level. During the curing and drying of concrete and as moisture migrates through the concrete, it will dissolve alkali salts that are contained in the concrete. When the moisture reaches the surface of the concrete it evaporates, leaving behind an alkali salt residue on the surface. These alkali salts may cause several installation and material problems, such as adhesive failure, discoloration, shrinkage, and softening of the floor covering.

Testing the concrete pH should be done in several locations throughout the area to receive flooring. As a rule of thumb, conduct pH tests at each calcium chloride test location as the calcium chloride tests are removed.

To test for pH at the surface of a concrete slab, use wide range pH paper, its associated pH chart, and distilled or deionized water. Place several drops of water on a clean surface of concrete, forming a puddle approximately 1" (25mm) in diameter. Allow the puddle to set for 60 ± 5 seconds and then dip the pH paper into the water. Remove immediately and compare to chart to determine pH reading. Other pH testing methods such as pH pencils or pH meters, or both, are available and may be used to measure pH.

If the pH exceeds the limitation of the specified adhesive, it must be reduced prior to beginning the installation. Lightly abrading the surface and vacuuming up the residue will often reduce the concrete surface pH. Damp mopping with neutral pH cleaner properly diluted with clean water can be used to reduce the pH level on the surface of the concrete. When damp mopping, do not flood the floor. Ensure that all water or slurry is removed from the substrate with a wet vacuum. Allow the substrate to fully dry before proceeding with any installation procedures. Retest to assure the pH has been reduced. If pH levels remain high, please contact Forbo's Product Support & Education Services for additional information.

For additional information about the moisture and pH tolerance levels of the Forbo adhesives, refer to the **Adhesive section** of the Forbo Installation Guide.

IMPORTANT: The Forbo limited warranty covers manufacturing defects only. Failures that are the direct result of circumstances beyond the control of Forbo, including substrate moisture related failures, are NOT covered under warranty. The recommendations in the Forbo Installation Guide are intended to inform the users of Forbo products about reliable installation methods as well as some of the potential risks that could lead to installation failure. The purpose of these guidelines is to provide the necessary information to best ensure a successful installation. Moisture test results reflect the concrete moisture condition at the time of testing only. The absence of an acceptable vapor retarder under the slab, changes in the environment, or other circumstances beyond Forbo's control, may result in changes of the moisture condition of the concrete subsequent to the time of testing. Forbo's warranty shall not be extended to cover damage or failures caused by moisture conditions in excess of specified limits that occur after the time of initial testing or installation.

Substrate Porosity

Substrate porosity has a significant influence on the working characteristics of adhesives (open time and working time). It is important for installers to recognize and understand this relationship so that adhesives are used properly. Where the substrate is non-poroverly porous, or substrate porosity is inconsistent, adjustments will have to be made to installation procedures.

It is the installer's responsibility to recognize the working characteristics of the adhesive for any given situation, and make any adjustments in preparation or installation techniques that may be required to achieve a secure bond.

An easy way to determine the porosity of the substrate is to use a drinking straw or an eye-dropper and place a row of water grops on the surface of the substrate. If the drops are not absorbed into the substrate within 60 seconds, the substrate should be considered non-porous.



Substrate Evaluation & Preparation Guidelines

Non-Porous

When the substrate is non-porous, the adhesive may require an extended open time. There must be **100% wet transfer** of adhesive to the material backing in order to achieve a secure bond. **100% wet transfer is a continuous film of adhesive when wet on both the backing of the material and the substrate, with no trace of trowel marks or ridges**. For additional information, refer to the **Adhesives section** of the Forbo Installation Guide.

If a substrate is non-porous, a curing compound, hardener, sealer, or other bond inhibiting material may be present. Conducting adhesive mat bond tests will aid in identifying such contaminants.

Non-porous substrates can be made porous by either mechanically abrading or placing a blotter layer of a minimum thickness of 1/8" (3.175mm) of an appropriate patching or leveling compound.

Overly Porous

When a substrate is overly porous, the adhesive may have a shortened open time and may require that the adhesive be applied incrementally. There must be **100% wet transfer** of adhesive to the material backing in order to achieve a secure bond. **100% wet transfer is a continuous film of adhesive when wet on both the backing of the material and the substrate, with no trace of trowel marks or ridges.** For additional information, refer to the **Adhesives section** of the Forbo Installation Guide. Overly porous substrates may require the application of a primer.

Primers

The use of a primer may be necessary to improve adhesive bond to non-porous substrates such as terrazzo, existing resilient flooring, or power troweled concrete. A primer may also be necessary to reduce the porosity of overly porous substrates or to create a uniform porosity.

All guidelines and recommendations from the manufacturer of the product chosen should be strictly followed.

Regardless of the type or brand of primer chosen, any liability for the performance of the primer rests with the product manufacturer and/or applicator, not Forbo.

Always conduct adhesive mat bond tests prior to the installation to ensure the integrity of the flooring system, and to ensure that a secure bond can be achieved.

For additional information, refer to the Adhesive Mat Bond Testing section of the Forbo Installation Guide.

Adhesive Mat Bond Testing

Adhesive mat bond testing can identify potential bonding problems and is essential for ensuring the integrity of the flooring system prior to the installation. Adhesive mat bond tests should be conducted using the adhesive(s) and material(s) to be used on the project **after** all remediation and/or preparation work has been completed.

Conduct adhesive mat bond tests by adhering 3' x 3' squares of material, following Forbo's installation guidelines, in various locations throughout the area where flooring is to be installed. Although the number of tests required may vary, enough tests should be performed to allow an evaluation of the entire area where material will be installed. This will help identify the effects of the site specific conditions that will influence the open time and working time of the adhesive. There are four main site conditions that influence open time and working time of the adhesive. There are four main site conditions that influence open time and working time of the substrate, ambient temperature, ambient humidity and air flow. Be sure to conduct bond tests on **ALL** substrates, including but not limited to; concrete, thick poured lightweight cellular concrete underlayment, thick poured lightweight Gypsum concrete underlayment, wood, metal, existing resilient, anywhere patching and/or leveling materials, moisture control systems or primers have been used. Wait a minimum of 72 hours before removing the test squares.

NOTE: Some substrates may require additional time to achieve an adequate bond before removing the test squares.





Failure Modes in Adhesive Mat Bond Testing

The results of adhesive mat bond testing are a measure of the resistance of the floor covering to separation from the substrate when force is applied. This result allows for the determination of the failure mode. Three type of adhesive mat bond failure seen most frequently are substrate failure, adhesion failure or cohesive failure.

Substrate Failure

This failure mode is expressed when the substrate or flooring material is weaker than the adhesive and cohesive bonds. It is characterized by either the material breaking apart and/or the substrate being separated into pieces or destroyed. This typically indicates high bond strength.

Adhesion Failure

This failure mode is expressed when the bond between the substrate or flooring material and the adhesive is broken. It is characterized by all or most of the adhesive releasing from the substrate or from the material. This typically indicates the presence of a contaminant, very low porosity of the substrate or incorrect installation of the material into the adhesive.

Cohesive Failure

This failure mode is expressed when the bond between the molecules within the adhesive is forced to failure because the external force being applied exceeds the cohesive bond. This typically indicates high bond strength.

There are very few industry specific pass/fail criteria defined in standards for adhesive mat bond tests. Expected adhesion testing results are often predetermined by and agreed upon by the parties concerned. These results can include but are not limited to:

- The required force to remove the test samples being deemed adequate to provide satisfactory performance of the flooring system for its intended purpose.
- The perceived bond strength.
- The determination of the failure mode and its impact on the flooring system.

Tests results are based on the adhesive layer being fully cured. The following is what the anticipated results should be for all Forbo products;

Forbo 660 Two-Component Polyurethane Adhesive

Many Forbo products can be installed using Forbo 660 adhesive. When using Forbo 660 adhesive, the point of failure during bond testing should be in the material. **The anticipated result is that the material will be destroyed when removing the sample.**

Marmoleum® & Linoleum Products (including Corkment, Bulletin Board and Desktop)

When evaluating adhesive mat bond tests using Forbo L 885, Sustain 885m, Sustain 1195 or L 910W adhesive, significant force should be required to remove the test sample. The bond failure should occur within the adhesive layer when the test sample is removed. There should be approximately the same amount of adhesive on the substrate and the material backing. **The anticipated failure mode should be either substrate or cohesive.**

NOTE: Adhesive mat bond testing for Marmoleum[®] Ohmex uses Forbo C 930 adhesive. Proper bonding will produce the same result as any other Marmoleum[®] sheet product.

Marmoleum[®] Decibel

When evaluating adhesive mat bond tests using Forbo L 885, Sustain 885m or Sustain 1195 adhesive, significant force should be required to remove the test sample. The bond failure should occur within the polyolefin backing and the jute when the test sample is removed. **The anticipated failure mode should be either substrate or cohesive.**

Marmoleum[®] Modular & MCT

When evaluating adhesive mat bond tests using Forbo T 940, Sustain 885m or Sustain 1195 adhesive, significant force should be required to remove the test sample. The impression of the tile backing should be readily seen in the adhesive layer. The tile should be fully embedded in the adhesive with no appearance of trowel ridges. The adhesive layer should remain substantially on the substrate with the tile separating from the adhesive bed. **The anticipated failure mode should be either substrate or cohesive.**

Eternal

When evaluating adhesive mat bond tests using Forbo V 885 adhesive, significant force should be required to remove the test sample. The bond failure should occur within the adhesive layer when the test sample is removed. There should be approximately the same and the material backing. **The anticipated failure mode should be either substrate or cohesive**.





Allura

When evaluating adhesive mat bond tests using Forbo T940 or Sustain 885m adhesive, significant force should be required to remove the test sample. The bond failure should occur within the adhesive layer when the test sample is removed. There should be approximately the same amount of adhesive on the substrate and the material backing. **The anticipated failure mode should be either substrate or cohesive.**

Allura Flex

When evaluating adhesive mat bond tests using Forbo FRT 950 adhesive, light to moderate force should be required to remove the test sample. The anticipated failure mode should be adhesion (between the material and the adhesive).

Colorex®

When evaluating adhesive mat bond tests using Forbo C 930, T 940 or Sustain 885m adhesive, significant force should be required to remove the test sample. The bond failure should occur within the adhesive layer when the test sample is removed. There should be approximately the same amount of adhesive on the substrate and the material backing. **The anticipated failure mode should be either substrate or cohesive.**

Flotex® Sheet

When evaluating adhesive mat bond tests using Forbo FRS 885, Sustain 885m or Sustain 1195 adhesive, significant force should be required to remove the test sample. The anticipated failure mode should be either substrate (within the two cushioned backings on the material) or cohesive.

Flotex® Tile

Standard Installation (with Releasable Adhesive): When evaluating adhesive mat bond tests using Forbo FRT 950 adhesive, light to moderate force should be required to remove the test sample. **The anticipated failure mode should be adhesion (between the material and the adhesive).**

Permanent Installation: When evaluating adhesive mat bond tests using Forbo FRS 885, Sustain 885m or Sustain 1195 adhesive, significant force should be required to remove the test sample. The bond failure should occur within the adhesive layer when the test sample is removed. There should be approximately the same amount of adhesive on the substrate and the material backing. **The anticipated failure mode should be either substrate or cohesive.**

Coral®

When evaluating adhesive mat bond tests using Forbo 660 adhesive, significant force should be required to remove the test sample. Removing the test sample should destroy the material. **The anticipated failure mode should be either substrate or cohesive.**

It is the installer's responsibility to identify and correct potential bonding issues, ensuring an optimal bond can be achieved *prior* to beginning the installation.

For additional information, contact Forbo's Product Support & Education Services at 1-800-842-7839 or <u>www.forboflooringNA.com</u>.



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Substrate Preparation

Vacuuming the substrate with a commercial vacuum is the preferred method of removing dirt and dust. Damp mopping can be used to remove fine dust from concrete substrates. When damp moping, do not flood the floor. Ensure that all water or slurry is removed from the substrate with a wet vacuum. Allow the substrate to fully dry before proceeding with any installation procedures. A clean substrate enables a secure bond between the substrate and the floor covering.

Patching and Leveling Materials

(Refer to the latest version of ASTM F 2678.)

There are two main categories of patching and leveling materials available in the marketplace. One category is calcium sulfate/ plaster/ gypsum based compounds, and the other is Portland cement based compounds.

There are a wide range of patching and leveling materials currently available for the purpose of smoothing and patching substrate irregularities, and their quality and performance will vary. The user of such products should research performance specifications and warranties, and choose only the highest quality materials when installing Forbo flooring products. All guidelines and recommendations from the manufacturer of the product chosen should be strictly followed.

Regardless of the type or brand of patching or leveling material used, any liability for the performance of the patching or leveling material rests with the product manufacturer and/or applicator, not Forbo.

Always conduct adhesive mat bond tests prior to the installation to ensure the integrity of the flooring system, and to ensure that a secure bond can be achieved. For additional information, refer to the *Adhesive Mat Bond Testing section* of the Forbo Installation Guide.

Adhesive Residue

WARNING REGARDING COMPLETE ADHESIVE REMOVAL: Some solvent based asphaltic "cut-back" adhesives may contain asbestos fibers that are not readily identifiable. Do not use power devices which create asbestos dust in removing these adhesives. The inhalation of asbestos dust may cause asbestosis or other serious bodily harm. Smoking greatly increases the risk of serious bodily harm.

Forbo does **<u>not</u>** recommend the use of solvents or adhesive removers to remove adhesive residue. Any solvent or adhesive remover residue left within the substrate may affect the new adhesive and new floor covering. Where existing asphaltic (cut-back) or other types of adhesives are present, they must be dealt with in one of three ways:

- If the adhesive is non-asbestos containing, it may be mechanically removed down to a residual staining. This can be achieved by grinding, bead blasting, scarifying, scraping, etc.
- The adhesive residue* may be encapsulated with a suitable patching or leveling compound. Follow the patching or leveling manufacturer's recommendations for intended use and application.
- The adhesive residue* may be encapsulated with a suitable product designed for the purpose of encapsulating adhesive residue. Follow manufacturer's recommendations for intended use and application.

*Adhesive residue is defined as residual staining that is left after all adhesive has been scraped away down to the concrete surface.

Concrete Joints

Expansion and Isolation Joints

Expansion and isolation joints in concrete are designed to allow for the expansion and contraction of the concrete. All movable joints must be honored in order to eliminate buckling and telegraphing in the finished resilient flooring caused by movement in the concrete. Expansion joint products designed for use with resilient floorings must be used at all movable joints.

Construction and Control Joints (Saw Cuts)

All such non-moving joints should be properly cleaned and prepared using suitable fillers and/or patching and leveling materials. Always follow the manufacturer's recommendations for the use and application of these products. For additional information, refer to the *Substrate Preparation section* of the Forbo Installation Guide.

NOTE: Trenches and repairs must be treated as new concrete. For recommended practices, refer to the **Substrate Evaluation section** of the Forbo Installation Guide.





Substrate Evaluation & Preparation Guidelines

Forbo Limited Warranty

Forbo warrants that our products and their recommended adhesives will be free from manufacturing defects. Failures that are the direct result of circumstances beyond the control of Forbo, such as movement in the concrete and/or moisture coming from the joint subsequent to the installation of resilient flooring materials causing buckling or telegraphing of the joint are NOT covered under warranty. The recommendations in the Forbo Installation Guide are intended to inform the users of Forbo products about reliable installation methods as well as some of the potential risks that could lead to installation failure. The purpose of this information is to provide the necessary information to ensure a successful installation.

Additional Resources

Reference documents for proper specification requirements are:

- ASTM C 840 Standard Specification for Application and Finishing of Gypsum Board.
- ASTM E 1745 Standard Specification for Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs
- ASTM F 141 Standard Terminology Relating to Resilient Floor Coverings
- ASTM F 710 Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring
- ASTM F 1482 Standard Practice for Installation and Preparation of Panel Type Underlayments to Receive Resilient Flooring
- ASTM F 1869 Standard Test Method for Measuring Moisture Vapor Emissions Rate of Concrete Subfloor Using Anhydrous Calcium Chloride
- ASTM F 2170 Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes
- ASTM F 2419 Standard Practice for Installation of Thick Poured Gypsum Concrete Underlayments and Preparation of the Surface to Receive Resilient Flooring
- ASTM F 2471 Standard Practice for Installation of Thick Poured Lightweight Cellular Concrete Underlayments and Preparation of the Surface to Receive Resilient Flooring
- ASTM F 2659 Standard Guide for Preliminary Evaluation of Comparative Moisture Condition of Concrete, Gypsum Cement and other Floor Slabs and Screeds Using a Non- Destructive Electronic Moisture Meter
- ASTM F 2678 Standard Practice for Preparing Panel Underlayments, Thick Poured Gypsum Concrete Underlayments, Thick Poured Lightweight Cellular Concrete Underlayments, and Concrete Subfloors with Underlayment Patching Compounds to Receive Resilient Flooring

Forbo's Installation Guide contains additional information and is available for download at <u>www.forboflooringNA.com</u>. For a hard copy, or for additional information, contact Forbo's Product Support & Education Services at 1-800-842-7839.



Code Compliance Signed ______ 19176/2024 Date ______ Permit # 20240180 SCRC SIERRA SERIES



Reviewed for Code Compliance Signed Mitrices Date ______ Permit II 2024030



The illustrations and descriptions herein are applicable to production as of the date of this Technical Data Sheet. The manufacturer reserves the right to, and does from time to time, make changes and improvements in designs and dimensions. 2090 Revised 09/6/22 © 2022 by Bobrick Washroom Equipment, Inc

MATERIALS:

Stiles* — 3/4" (19mm) thick, SCRC with GraffitiOffTM surface thermoset and integrally fused into one homogenous piece. Surface, edge, core are to be the same color. *Stiles for 2096 Series floor-to-ceiling anchored units have a leveling device at each end.

Leveling Device: 7 gauge, 3/16" (5mm) thick, corrosion-resistant, chromate-treated, double zinc-plated steel angle leveling bar bolted to stile; furnished with 3/8" (10mm) stainless steel diameter threaded wedge anchor, hex nuts, lock washer, flat washers, and shoe retainers.

Shoe: 18-8, Type-304, 22-gauge (0.8mm) stainless steel with satin finish; 4" (102mm) high.

Panels – 1/2" (13mm) thick, SCRC with GraffitiOff surface thermoset and integrally fused into one homogeneous piece. Surface, edge, core are to be the same color.

Wall Posts — 1" x 1-1/2" (25 x 38mm) tubing; 18-8, Type-304, 16-gauge (1.6mm) stainless steel with satin-finish. 72" (1829mm) high, pre-drilled for door hardware. Doors — 3/4" (19mm) thick, SCRC with GraffitiOff surface thermoset and integrally fused into one homogeneous piece. Surface, edge, core are to be the same color.

Edges – SCRC is a natural material comprised of wood chips, dyes and resins with a melamine surface. Edges lack a melamine surface and may discolor in environments with significant UV lighting. Discoloration of edges, should it occur, is not covered under warranty.

Urinal Screens – 1/2" (13mm) thick, SCRC with GraffitiOff surface thermoset and integrally fused into one homogeneous piece. Surface, edge, core are to be the same color.

Posts-to-Ceiling (for 2093 Series screens only) — 1-1/4" (32mm) square tubing; 18-8, Type-304, 18-gauge (1.2mm) stainless steel with satin finish. Floor and ceiling connections are constructed of 18-8, Type-304, heavy-gauge stainless steel. Furnished in 10' 0" (3048mm) lengths; to be cut in field to job specifications.

Headrail (for 2092 Series compartments only) — Extruded anodized aluminum. Enclosed construction with sloping top. Face has raised grip-resistant edge.

Designer's Notes: Headrails with integral shower curtain tracks and curtain carrier packet is available for compartments without doors. Optional vinyl curtains are available.

Heavy-Duty Hardware (standard) — Hinge, door latch, door keeper, clothes hook, mounting brackets and door handle are constructed of 18-8, Type-304, heavy-gauge stainless steel with satin finish. Threaded inserts are factory installed for securing hinges and door latch. Theft-resistant, stainless steel pin-in-head Torx screws are furnished for door hardware and all mounting brackets. Barrel hinge is adjustable to adjust door swing of unoccupied toilet compartment from partially open to fully closed. Toilet compartment door is locked from inside by sliding door latch into keeper. Threaded inserts are factory installed to secure door hinges and latch. Track of door latch prevents inswing door from swinging out beyond stile; on outswing door, the door keeper prevents it from swinging in beyond stile. Mounting screws for stile to panel bracket, latch keeper, and coat hook connections are through-bolted. Door handles and latch have operable parts that are operable with one hand and do not require tight grasping, pinching, or twisting of the wrist; and comply with ADA Sections 404.2.7 and 309.4. The force required to activate the operable parts shall be 5 pounds (22.2N) maximum.

Institutional Hardware (.67 option) — Hinge, door latch, door keeper, clothes hook, mounting brackets and door handle are constructed of 18-8, Type-304, heavy-gauge stainless steel with satin finish: one-piece, full-height hinge is 16 gauge (1.6mm); one-piece door keeper is 11 gauge (3.2mm); one-piece, full-height U-channels and angle brackets are 18 gauge (1.2mm). U-channels secure panels to stiles, and angle brackets secure panels and stiles to walls. Door latch slides on a shock-resistant nylon track. A locked compartment may be opened from outside by lifting door to disengage latch from keeper. Theft-resistant, stainless steel pin-in-head, torx screws are furnished for door hardware, U-channels, and angle brackets. Doors are equipped with a gravity type self-closing hinge. Threaded inserts are factory installed to secure door hinge and latch. Mounting screws for stile-to-panel brackets and latch keeper connections are through-bolted. Track of door latch prevents inswing door from swinging out beyond stile; on outswing door, the door keeper prevents it from swinging in beyond stile. Door handle and do not require tight grasping, pinching, or twisting of the wrist; and comply with ADA Sections 404.2.7 and 309.4. The force required to activate the operable parts shall be 5 pounds (22.2N) maximum.

To specify Institutional hardware, add suffix .67 to series number. Example: specify 2092.67 for overhead-braced, maximum-privacy partitions furnished with Institutional hardware, including factory-installed threaded inserts for door hardware attachment. The Institutional Hinge (.67 option) depends on the weight of the door to return the hinge to its closed position, which may result in door slamming.

INSTALLATION:

Bobrick installation instructions are packed with each shipment and are available also in advance on request.

Notes:

- 1. Ceiling-hung and floor-to-ceiling toilet compartments require structural members (not furnished by Bobrick) in ceiling. For suggested types of ceiling support systems, see Bobrick Advisory Bulletin TB-32.
- 2. Wall backing is required to secure the mounting brackets of panels, stiles, and wall posts. For suggested wall backing, see Bobrick Advisory Bulletin TB-46.
- 3. Floor-anchored stiles are furnished with expansion shields and threaded rods. The expansion shields require minimum 2" (50mm) penetration into minimum 3" (75mm) thick structural concrete.
- 4. Bobrick stainless steel partition-mounted washroom accessories are available for mounting in panels between two compartments. See current Bobrick Restroom Accessory Catalog for description of accessories. Cutouts in panels can be pre-cut for Bobrick models at factory if location and size of all cutouts and Bobrick model numbers are furnished at time of order.
- 5. When the cam has been set at the desired free resting position, "either closed or open" the top of the affixed components will be aligned.
- 6. Note: If the width of the panel exceeds 60" (1524mm) the panel will be two pieces and require an H Channel to obtain 71 3/4" (1822mm) height requirement.

GUARANTEE:

Bobrick toilet partitions including all hardware and mounting brackets are guaranteed to be free from defects in material and workmanship for a period of one year from date of purchase. Any products returned to Bobrick under this guarantee will be repaired or replaced at no charge. **25-Year Warranty:** Bobrick extends a twenty-five-year limited warranty from date of purchase for SierraSeries Solid Color Reinforced Composite (SCRC) partition panels, doors, and stiles against breakage, delamination and corrosion when materials are properly installed, and normally used.

SPECIFICATION:

Maximum-Height Water- and Fire-Resistant, Solid Color Reinforced Composite (SCRC) (insert one product application; toilet partition, dressing compartment, shower divider, urinal screen) shall be (insert one series: floor-anchored, overhead-braced, post-to-ceiling, floor-to-(insert one series for Gap-Free: floor-anchored, overhead-braced, floor-to-ceiling anchored). Stiles, panels and doors ceiling anchored) shall be constructed of SCRC with GraffitiOff surface thermoset and integrally fused into one homogeneous piece. Surface, edges and core are to be same color. SCRC material shall be covered by a 25-year limited warranty against breakage, corrosion, and delamination. Stiles and doors shall be 3/4" (19mm) thick; panels shall be 1/2" (13mm) thick. All units shall meet ICC and NFPA Class B or UBC Class II, ASTM E 84 Fire-Resistance Standards. Stiles shall have leveling device that is concealed by a one-piece, Type-304, satin-finish stainless steel shoe that is 4" (102mm) high. Stiles, panels and doors shall be_ (insert color name and number from current Bobrick Toilet Partition catalog). Headrails for overhead-braced compartments shall be anodized aluminum with satin finish. "All door hardware and mounting brackets shall be Type-304 stainless steel with satin finish. All doors shall be supplied with three hinges. Threaded inserts shall be factory installed for securing door hinges and latch. Theft-resistant, stainless steel pin-in-head Torx screws shall be furnished for door hardware and all mounting brackets. Through bolts shall be used for securing latch keeper, clothes hook and panel-to-stile brackets. Doors shall be equipped with a self-closing hinge. Hinges shall be adjustable to hold doors of unoccupied compartments partially open or fully closed. Hinges shall allow locked compartment to be opened in emergency from outside by lifting door to disengage latch from keeper. A clothes hook shall be furnished for each door.

**To specify Institutional hardware, replace end of specification paragraph with: .67 option All door hardware, U-channels, and angle brackets shall be Type-304 stainless steel with satin finish: one-piece, full-height hinges shall be 16 gauge (1.6mm); one-piece door keepers shall be 11 gauge (3.2mm); one-piece full-height U-channels and angle brackets shall be 18 gauge (1.2mm). U-channels shall be furnished to secure panels to stiles, and angle brackets furnished to secure panels to stiles, and angle brackets. Through bolts shall be used for securing latch keeper and panel- to-stiles brackets. Threaded inserts shall be factory installed to secure all door hinges and latch.

Maximum-Height Water- and Fire-Resistant, Solid Color Reinforced Composite (SCRC) _________ (insert one product application. Tellet Partitions, Dressing Compartments, Shower Dividers, Urinal Screens) shall be _______Series (insert series number) of Bobrick Washroom Equipment, Inc., Clifton Park, New York; Jackson, Tennessee; Los Angeles, California; Bobrick Washroom Equipment Company, Scarborough, Ontario; Bobrick Washroom Equipment Pty. Ltd., Australia; and Bobrick Washroom Equipment Limited, United Kingdom.

The illustrations and descriptions herein are applicable to production as of the date of this Technical Data Sheet. The manufacturer reserves the right to, and does from time to time, make changes and improvements in designs and dimensions. SAFECOAT POLYURESEAL



Reviewed for Code Compliance Signed Mirrem Date ______ Permit II ______20240136



DATE ISSUED :

SDS REF. No :

9/25/2017

5006/150

1.	PRODUCT	AND	COMPANY	IDENTIFIC	ATION
	INCOUCI			TOPLIATE TO	

PRODUCT NAME: SAFECOAT POLYURESEAL BP GLOSS

PRODUCT CODE: 5006 SYNONYMS: CAS NUMBER: PRODUCT USE: CLEAR COATING

MANUFACTURER

American Formulating & Manufacturing 3251 Third Avenue San Diego, CA, (619) 239-0321 24 HR. EMERGENCY TELEPHONE NUMBER CHEMTREC (US Transportation): (800)424-9300 CHEMTREC (International : 1(202)483-7616 Transportation)

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE : Liquid

IMMEDIATE CONCERNS : May cause eye, skin and respiratory tract irritation. May cause asphyxiation, or brain, lung or other organ injury if inhaled, swallowed or absorbed by the skin.

POTENTIAL HEALTH EFFECTS

EYES : Use chemical safety goggles and/or full face shield where splashing is possible. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work areas.

SKIN: Liquid may be irritating to the skin. Prolonged or repeated contact can result in drying of the skin which may result in skin irritation and dermatitis (rash). Liquid not likely to be absorbed through the skin.

SKIN ABSORPTION : Liquid is moderately irritating to the skin. Prolonged or repeated contact can result in drying of the skin which may result in skin irritation and dermatitis (rash). Liquid not likely to be absorbed through the skin.

INGESTION : Ingestion may cause irritation and damage to mucous membranes. **INHALATION :** Vapors may be irritating to the nose, throat, and respiratory tract. Prolonged inhalation may cause headaches or nausea.

CHRONIC : No chronic health concerns known.

CARCINOGENICITY :

This material is not currently known to have carcinogenic properties. **MUTAGENICITY :**

This material is not known to have mutagenic effects on genetic material.





REPRODUCTIVE TOXITY

REPRODUCTIVE EFFECTS : This material is not known to cause any reproductive system damage.

TERATOGENIC EFFECTS:

This material is not known to contain any teratogenic substances.

IRRITANCY:

This material may cause irritation to the eyes, skin, and respiratory tract. Use correct PPE when handling this material.

CLASSIFICATION:

PICTOGRAMS:



SIGNAL WORD : WARNING

HAZARD STATEMENTS :

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

- H319 Causes serious eye irritation.
- H411 Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS : P264 Wash thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

3. COMPOSITION/INFORMATION ON INGREDIENTS					
REPORTABLE COMPONENTS	CAS NUMBER	WEIGHT PERCENT			
Modified Polyurethane Dispersion	Mixture	75-80			
Dipropylene glycol methyl ether	34590-94-8	10-15			
Water	7732-18-5	5-10			
Acrylic Emulsion Copolymer	Mixture	<4			

No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

THE FORMULATION OF THIS PRODUCT DOES NOT CONTAIN CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM."



APPROVED



4. FIRST AID MEASURES

EYES : Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Seek medical aid if irritation persists.

SKIN: Flush skin with soap and water while removing contaminated clothing. If irritation occurs, seek immediate medical attention. Do not reuse clothing or shoes until thoroughly cleaned.

INGESTION : Do not induce vomiting, and seek immediate medical attention. Do not attempt to give any liquids if victim is unconscious.

INHALATION : Immediately remove victim to fresh air. If victim is not breathing, give artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. Seek immediate medical attention.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

SYMPTOMS : No further relevant information available. **EFFECTS :** No further relevant information available.

NOTES TO PHYSICIAN : If the victim is a child, give no more than 1 glass of water and 15cc (1 tablespoon) syrup of ipecac. If symptoms such as loss of gag reflex, convulsions, or unconsciousness occur before emesis, gastric lavage should be considered following intubation with a cuffed endotracheal tube.

5. FIRE FIGHTING MEASURES

FLASH POINT AND METHOD : Not applicable

AUTO-IGNITION TEMPERATURE : SUITABLE EXTINGUISHING MEDIA : Use water fog, "alcohol" foam, dry chemical, or CO2.

UNSUITABLE EXTINGUISHING MEDIA : None known.

FIRE FIGHTING PROCEDURES : Clear the fire area of unprotected personnel. Do not enter confined fire space without full bunker gear; including a positive pressure NIOSH approved SCBA. Cool fire exposed containers with water. If water is used, fog nozzles are preferred.

UNUSUAL FIRE AND EXPLOSION HAZARD : Material can splatter above 100C/212F. Dried product can burn.

Reviewed for Code Compliance Signed _______ Date Permit: Page 3

COMBUSTION PRODUCTS : Unknown



6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES : Ventilate area of leak or spill for at least 24 hours or until it has been declared safe. Stop the leak if there is no risk involved. Clean-up personnel require protective clothing and respiratory protection from vapors. Absorb liquid with inert material. Only specially trained or qualified personnel should handle the emergency.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL : Keep material out of storm sewers and ditches which lead to waterways. **LAND SPILL :** Contact applicable authorities and determine applicable regulations based on SDS information.

AIR RELEASE : Contact applicable authorities and determine applicable regulations based on SDS information.

PERSONAL PRECAUTIONS : For non-emergency personnel:

PROTECTIVE EQUIPMENT : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

EMERGENCY PRECAUTIONS : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

METHOD OF CLEANING UP : Clean up spills immediately and dispose of waste safely.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING : Avoid Freezing. Avoid contact with bacteria, fungus, or other microorganisms. Keep container closed when not in use to avoid skinning and microorganism contamination.

CONDITIONS FOR SAFE STORAGE, INCLUDING INCOMPATIBILITIES : KEEP OUT OF REACH OF CHILDREN! Empty containers retain product residue and can be dangerous. Do not pressurize, cut weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks static electricity, or other sources of ignition.

8. EXPOSURE CONTROLS\PERSONAL PROTECTION

OSHA TABLE COMMENTS:

NL = Not Listed





EXPOSURE LIMITS : None

ENGINEERING CONTROLS : Provide exhaust ventilation sufficient to keep the airborne concentration of this product below its exposure limits. Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE : Use chemical safety goggles and/or full face shield where splashing is possible. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work areas.

SKIN: Wear resistant gloves (consult your safety equipment supplier). To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

RESPIRATORY : If exposure may or does exceed occupational exposure limits (Section 8) use a NIOSH approved respirator to prevent overexposure. In accord with 29 CFR 1910.134, use either an atmosphere-suppling respirator or an air-purifying respirator for organic vapors.

WORK HYGIENIC PRACTICES : Use good personal hygiene when handling this product. Wash hands after use, before eating, drinking, smoking, or using the toilet.

OTHER USE PRECAUTIONS : Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

COMMENTS : May be harmful or fatal if swallowed. May irritate body tissues. Use with adequate ventilation. Avoid breathing vapor. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE : Liquid

COLOR : Clear

ODOR : Mild

EVAPORATION RATE : Slower than ether

BOILING POINT : 212F





VAPOR DENSITY : Heavier than air

VOLATILE ORGANIC COMPOUNDS: Coatings: 260 g/l Material: 99 g/l

(VOC Theoretical – As Packaged)

HAZARDOUS AIR POLLUTANTS (HAP's) : N/A

(HAP's Theoretical – As Packaged)

SOLUBILITY IN WATER : Dilutable

DENSITY (LB/GAL) : 8.60

EVAPORATION RATE: N/A

SPECIFIC GRAVITY: 1.03

10. STABILITY AND REACTIVITY

STABILITY : Yes

HAZARDOUS POLYMERIZATION : Will not occur.

CONDITIONS TO AVOID : Avoid Freezing

POLYMERIZATION : Avoid heat, flame, and other sources of ignition.

HAZARDOUS DECOMPOSITION PRODUCTS: None known

INCOMPATIBLE MATERIALS : None known

POSSIBILITY OF HAZARDOUS REACTIONS : None under normal conditions of use.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY VALUES :

TOXICOLOGICAL INFORMATION

		(SC-A)
LD50 Dermal	Rabbit - > 5,000 mg/kg	
LD50 Oral	Rat - > 5,000 mg/kg	APPROVED



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SAFETY DATA SHEET Polyureseal BP Gloss

SIGNS AND SYMPTOMS OF OVEREXPOSURE : None identified

ACUTE EFFECTS :

EYE : Causes Serious Eye Irritation

SKIN : Causes skin irritation. Allergic reactions are possible.

INHALATION : Harmful if inhaled. High gas, vapor, mist or dust concentrations may be harmful if inhaled. Avoid breathing fumes, spray, vapors, or mist. High vapor concentrations are irritating to the eyes, nose, throat and lungs. Prolonged or excessive inhalation may cause respiratory tract irritation.

INGESTION : Harmful if swallowed.

TARGET ORGAN : Data Not Available

CHRONIC EFFECTS : Relevant data not available.

SYMPTOMS OF RELATED

PHYSICAL : Data Not Available

CHEMICAL : Data Not Available

TOXICOLOGICAL CHARACTERISTICS : Data Not Available

DELAYED AND IMMEDIATE EFFECTS : Data Not Available

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: No further relevant information available

PERSISTENCE AND DEGRADABILITY : No further relevant information available

BIO-ACCUMULATIVE POTENTIAL : BP_BIAP

MOBILITY : No further relevant information available

OTHER ADVERSE EFFECTS : No further relevant information available

ECOLOGICAL INFORMATION





SAFETY DATA SHEET Polyureseal BP Gloss

EC0	Daphnia magna (Water flea) - 101
	mg/l - 48 h
EC50	Daphnia magna (Water flea) - > 100
	mg/l - 96 h
LC50 Fish	- other fish - > 100 mg/l - 96 h

13. DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS

PRODUCT/PACKAGING DISPOSAL : The preferred options for disposal are to send to licensed reclaimers, or to permitted incinerators. Any disposal practice must be in compliance with federal, state, and local regulations. Do not dump into sewers, ground, or any body of water.

WASTE TREATMENT OPTIONS AND RECOMMENDATIONS : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

WASTE CODE/WASTE DESIGNATIONS ACCORDING TO EWC/AVV : Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

SAFE HANDLING : Dispose of in accordance with federal, state, provincial, and local regulations. Local requirements may vary, consult your sanitation department or state-designated environmental protection agency for more disposal options.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION) TECHNICAL NAME : Not regulated as a hazardous material by DOT.

UN NUMBER : N/A



SAFETY DATA SHEET Polyureseal BP Gloss

ICAO/IATA : Not regulated

IMDG/IMO : Not regulated

UN PROPER SHIPPING NAME : N/A

TRANSPORT HAZARD CLASS : N/A

PACKING GROUP : N/A

MARINE POLLUTANT : N/A

SPECIAL PRECAUTIONS : N/A

*** American Formulating & Manufacturing verifies that the material was supplied and shipped in the proper packages in accordance with DOT and federal regulations that are applicable to the mode of transportation selected. The shipper must verify that the packaging supplied is acceptable to be re-shipped in per the federal regulations applicable to the mode of transportation for reshipment. Regulations may change depending on mode of transportation selected.***

15. REGULATORY INFORMATION

UNITED STATES SARA TITLE III (SUPERFUND AMENDMENRS AND REAUTHORIZATION ACT) 311/312 HAZARD CATEGORIES: This product is not listed. FIRE : Yes PRESSURE GENERATING : No REACTIVITY : No ACUTE : Yes CHRONIC : Yes 313 REPORTABLE INGREDIENTS: To the best of our knowledge, this product is not

listed as a toxic chemical.

302/304 EMERGENCY PLANNING

EMERGENCY PLAN: To the best of our knowledge, this product is not listed as a toxic chemical.

OTHER REGULATION : No Data Available



Flammability :	0
Reactivity :	0
Personal Protection :	В

REVISION INDICATOR : N/A

MANUFACTURER DISCLAIMER : To the best of our knowledge, all information,

recommendations, and suggestions appearing herein concerning this product are taken from raw material sources or based upon data believed to be reliable. Although reasonable care has been taken in the preparation of this information American Formulating & Manufacturing extends no guarantees, express or implied, makes no representations and assumes no responsibility as to the accuracy, reliability or completeness of the information presented. American Formulating & Manufacturing assumes no liability arising out of the use of the product by others.

Legend

ACGIH: American Conference of Governmental Industrial Hygienists CAS No.: Chemical Abstract Service Registry Number CERCLA: Comprehensive Environmental Response, Compensation and Liability Act (U.S. EPA) CPR: Controlled Product Regulations (Canada) DOT: Department of Transportation (U.S.) EPA: Environmental Protection Agency (U.S.) GHS: Globally Harmonized System of Classification and Labeling of Chemicals HEPA: High-Efficiency Particulate Air HMIS: Hazardous Materials Identification System IARC: International Agency for Research on Cancer IATA: International Air Transport Association IMDG: International Maritime Dangerous Goods code LPP: Limité Permisible Ponderado (Chile) NIOSH: National Institute of Occupational Safety and Health (U.S.) NFPA: National Fire Protection Association (US) NTP: National Toxicology Program (US) OSHA: Occupational Safety and Health Administration (U.S.) PEL: Permissible Exposure Limit SARA: Superfund Amendments and Reauthorization Act (U.S. EPA) SDS: Safety Data Sheet STEL: Short Term Exposure Limit (15 minute Time Weighted Average) STOT: Specific Target Organ Toxicity (GHS Classification) TLV: Threshold Limit Value TSCA: Toxic Substances Control Act (U.S.) TWA: Time Weighted Average (exposure for 8-hour workday) U.S.: United States VOC: Volatile Organic Compounds WHMIS: Canadian Workplace Hazardous Materials Information System



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Installation Guidelines

COVERAGE: One gallon covers approximately 350 SF.

USE ON:

Unfinished (or properly prepared and sanded previously finished) floors, wooden furniture and cabinetry. **Available in gloss, satin and matte.**

LIMITATIONS:

Safecoat sealers are made without formaldehyde preservatives. Do not contaminate. Store in airtight containers. Do not use when indoor temperature is below 55 degrees F. Do not freeze. **Thick application, high humidity or conditions other than normal will cause Safecoat to dry and cure more slowly.**

SURFACE PREPARATION:

Clean surfaces of dirt, grease, mildew and oil. Previously sealed surfaces should be sanded to promote adhesion (all gloss must be removed). Wet sanding is recommended.

Surface should be completely dry before application. Always spot test for adhesion over prior coatings.

APPLICATION:

Before using, roll the Safecoat Polyureseal BP container well, then apply as is. Stir product thoroughly every 20 minutes during application. Apply with a brush, pad or airless sprayer. When sealing dark surfaces and a matte sheen is desired, apply Safecoat gloss coats prior to finishing with matte.

PRODUCT NUMBER AND CONTAINER SIZE

50206 Qt/50106 Gal/50306 5g pail SATIN 50286 Qt/50186 Gal/50386 5g pail MATTE 50276 Qt/50176 Gal/50376 5g pail

CLEAN UP:

Clean tools and equipment while they are still wet with a warm soapy water solution.

DRYING/CURING TIME:

Sandable and recoatable after 2-4 hours under normal drying conditions. Humid conditions will extend these cure times significantly. The product will continue to cure and become harder over a 2 week period or longer if humid. It's best to wait to move furniture for at least 2-4 days before opening to foot traffic. Normal application conditions include a dry surface, access to fresh air flow, humidity 35-65%, and temperatures above 55 degrees F.

HEALTH PRECAUTIONS:

As with all coatings and sealers, keep container tightly closed and out of the reach of children. Do not take internally. Keep from freezing. Always use adequate ventilation.

PHYSICAL DATA

Physical Description:Milky, dries clear% Volatile by Volume:71.25%Solubility in Water:Dilutable% Volatile by Weight:67.68%VOC Material:See product SDSVOC Material less H20:See product SDSHAP's (Hazardous Air Pollutants) zero

If you are chemically sensitive,

always test for personal tolerance. Test samples available through your AFM retailer.

Safecoat Finish	Acr	ylacq	Polyu	reseal BP
Equipment	HVLP	Airless	HVLP	Airless
Substrate temperature	70-75°	70-75°	70-75°	70-75°
Coating temperature	70-75°	70-75°	70-75°	70-75°
Pot pressure	-	If app 15-25	licable 5 Lbs.	
Тір		9/10	00	
Spray pattern		FU		
Distance from surface		10-	-12"	
Dry time between coats	At a Cooler	ambient tempera temperatures or high	atures, 30-60 minu er humidity will double d	Ites ry times



LIMITED LIABILITY: Liability, whether express or implied, is limited solely to replacement of product shown to be defective when applied in accordance with instructions and shall under no circumstances include liability for labor costs or consequential damages. It is the user's responsibility to determine the suitability and safety of the product for its intended use. This limited warranty may not be modified or extended by manufacturer's representatives, distributors, or dealers of AFM products. We particularly recommend that users always test in small inconspicuous areas before application to the entire surface. American Formulating and Manufacturing 3251 Third Ave., San Diego, CA 92103 www.afmsafecoat.com.

Spraying Guidelines

PRODUCT NUMBER AND CONTAINER SIZE

Installation Guidelines

50206 Qt/50106 Gal/50306 5g pail SATIN 50286 Qt/50186 Gal/50386 5g pail MATTE 50276 Qt/50176 Gal/50376 5g pail

WATER BASED/COVERAGE: One gallon covers approximately 350 SF.

APPLICATION HIGHLIGHTS:

If you are unsure of any surface, testing with small samples is absolutely necessary, Remove chipped or peeling coatings before application. All wood surfaces should be freshly sanded. Use 60,80,100 or 120 max. grit sandpaper on old wood as needed. Lightly sand newer wood with 120 grit to remove planer marks and open the pores. Lightly sand non-porous surfaces, stained or painted surfaces with 120 grit or 000/0000 steel wool to provide tooth. Always clean the surface with a mild neutral pH cleaner that leaves no residue.

Do not use a tack cloth that contains solvents.

Never apply over conventional stains or sealers that are not fully cured as unwanted reactions may occur. Full curing may take 2-6 weeks.

Polyureseal BP is made strictly for indoor use.

Polyureseal BP can be applied over the following surfaces:

Wooden floors both soft and hardwood species.

Polyureseal BP should not be applied over the following surfaces:

Concrete countertops, Formica type countertops, ceramic or porcelain tile, ABS or PVC plastics, glass, fiberglass, vinyl laminate flooring.

Do not use if this product has been frozen in the

container. Normal shelf life is three years but proper sealing and storage can sometimes result in longer times.

Do not use it if it looks strange or smells like spoiled food. Trust your nose.

Optimum environmental conditions:

Temperatures 55-80 degrees F Humidity 35-65% Good ventilation

For best adhesion:

Apply 3-4 thin coats over wood surfaces instead of thick coats to build the finish. Fewer coats may be used over non-porous surfaces. Be patient and allow to dry in between coats. It is recommended to do a light sanding between coats to improve intercoat adhesion.

High humidity above 65% can slow dry times by a factor of 2 times. Cooler temperatures can also slow dry time.

For best appearance:

For the best surface clarity, multiple coats of gloss is best. Multiple coats of matte or satin will result in a slightly cloudy appearance (3-4%)

However, for a matte finish with clarity, use gloss coats as the "primer" coats with the final coat being the matte or satin. Use good quality synthetic brush, paint pad etc.

To reduce hazardous emissions and VOCs. Polyureseal BP in a three coat application can be used to block some VOC emissions of some but not all products.

Polyureseal BP will not block emissions from organic odors such as pet urine, smoke, air fresheners or fabric softeners.

Testing is absolutely required. Be sure to allow adequate dry time in between coats.

Good ventilation will help accelerate dry times and reduce emissions.

If you are chemically sensitive, always test for personal tolerance. Sample orders can be made through your AFM retailer.

LIMITED LIABILITY: Liability, whether express or implied, is limited solely to replacement of product shown to be defective when applied in accordance with instructions and shall under no circumstances include liability for labor costs or consequential damages. It is the user's responsibility to be replaced by manufacturer's representatives, distributors, or dealers of AFM products. We particularly recommend that users always test in small inconspicuous areas before application to the entire surface. American Formulating and Manufacturing 3251 Third Ave., San Diego, CA 92103 www.afmsafe.com.

10/16/2024 Date ______ Permit # ______

RESTROOM ACCESSORIES



Reviewed for Code Compliance Signed ^{M for EM} Date ______ Permit II ²⁰²⁴⁰¹⁹⁰



The illustrations and descriptions herein are applicable to production as of the date of this Technical Data Sheet. The manufacturer reserves the right to, and does from time to time, make changes and improvements in designs and dimensions. Rev. 11/11/19 ^{SB} Printed in U.S.A. © 2019 by Bobrick Washroom Equipment, Inc.

Grab Bar — 18-8 S, type-304, 18-gauge (1.2mm) stainless steel tubing with satin-finish, slip-resistant surface. 1-1/2" (38mm) outside diameter. Ends are heliarc welded to flanges. Clearance between the grab bar and wall is 1-1/2" (38mm).

Concealed Mounting Flanges — 18-8 S, type-304, 11-gauge (3.2mm) thick, stainless steel plate; end flanges 2" x 3-1/8" (50 x 80mm) with holes for attachment to wall. Intermediate flanges 2-5/8" x 3-1/8" (65 x 80mm) wide x 3-1/8" (80mm) diameter.

Snap Flange Covers — 18-8 S, type-304, 22-gauge (0.8mm) drawn stainless steel with satin-finish. 3-1/4" (85mm) diameter x 1/2" (13mm) deep. Each cover snaps over mounting flange to conceal mounting screws.

STRENGTH:

Bobrick grab bars that provide 1-1/2" (38mm) clearance from wall can support loads in excess of 900 pounds (408kg) if properly installed. Other grab bar configurations can support loads in excess of 250 pounds (113kg) if properly installed, complying with accessible design (including ADAAG in the U.S.A.) for structural strength

Safety Warning: Grab bars are no stronger than the anchors and walls to which they are attached and, therefore, must be firmly secured in order to support the loads for which they are intended. To avoid potential injury, the building owner or maintenance personnel should remove the grab bar from service if the grab bar is not adequately secured to wall or if there is any observed damage to the welds.

INSTALLATION:

Provide concealed anchor device or backing as specified or required in accordance with local building codes before wall is finished. Fasten concealed mounting flanges to anchor device or backing with at least two screws opposing each other in each flange. Snap flange covers over each mounting flange to conceal mounting screws. Concealed anchor devices and mounting screws are not included with Bobrick grab bars and must be specified as an accessory.

For Grab Bars with an Intermediate Flange(s), Pull Snap-Flange Covers away from mounting flanges. Place grab bar in desired mounting location. Use intermediate flange as a template to mark location of mounting screws at intermediate flange only. Mark screw locations at the center of the slot in the middle of the double-keyhole shaped mounting holes (2) in the intermediate flange. Remove grab bar from wall. Drive the intermediate flange mounting screws into wall at marked locations. Note: Make sure to leave a space of just over 1/8" (3.17mm) between the underside of the screw head and the wall. Install grab bar on the wall by placing the round ends of the intermediate flange double-keyhole shaped mounting screws (2) are located in the middle of the flange slots. Install the mounting screws into the wall at the end flanges and secure tightly. Tighten the mounting screws at the intermediate flanges.

Note: Recommend use of 1/4" or #14 sheet metal or wood screws to install Intermediate Flange. #12 screws may also be used.

Important Notes:

1. Mounting Kits --- Bobrick offers a mounting kit for installing grab bars; one Bobrick mounting kit is required for each flange.

Mounting Kit No.	Description
252-30	Consists of # (3) 14 x 2½" type-304 stainless steel, Phillips round-head, sheet-metal screws.

 Grab Bar Fastener — Bobrick offers a grab bar fastening system that secures all Bobrick grab bar series; one Bobrick fastener is required for each flange. Install grab bar without backing in wall requires minimum 5/8st (16mm) thick painted or tiled drywall.

Wingit™ Fastener No.	Description
251-4	Consists of 10–32 x 5/16" round-head, Phillips 18/8 stainless steel screws. (1) Winglt grab bar fastener.

3. Optional Anchor Device — Bobrick grab bar anchor device includes stainless steel machine screws to be used for attaching grab bars to anchors. one Bobrick concealed anchor device is required for each flange.

Optional Anchor No.	Description
2583	Anchor for 3/4" to 1" (19-25mm) panel 1 anchor required for each flange.
2586	Anchor for 1/2" to 1" (13mm) panel 1 anchor required for each flange.

SPECIFICATION:

Grab bar shall be type-304 stainless steel with satin-finish, slip-resistant surface. Grab bar shall have 18-gauge (1.2mm) wall thickness and 1-1/2" (38mm) outside diameter. Clearance between the grab bar and wall shall be 1-1/2" (38mm). Concealed mounting flanges shall be 11-gauge (3.2mm) thick stainless steel plate, 2" x 3-1/8" (50 x 80mm), and equipped with at least two screw holes for attachment to wall. Flange covers shall be 22 gauge (0.8mm), 3-1/4" (85mm) diameter x 1/2" (13mm) deep, and shall snap over mounting flange to conceal mounting screws and/or WingIt fasteners. Ends of grab bar shall pass through concealed mounting flanges and be heliarc welded to form one structural unit. Grab bar shall comply with accessible design (including ADAAG in the U.S.A.) for structural strength.

Grab Bar shall be Model ______ (insert model number) of Bobrick Washroom Equipment, Inc., Clifton Park, New York; Jackson Fennessee; Los Angeles, California; Bobrick Washroom Equipment Company, Scarborough, Ontario; Bobrick Washroom Equipment Pt. Ltd., APPROVED JOB COPY



Cabinet — 18-8, type-304, 22-gauge (0.8mm) stainless steel. All-welded construction. Exposed surfaces have satin finish.

Door — 18-8, type-304, 22-gauge (0.8mm) stainless steel with 18-gauge (1.2mm) stainless steel door frame. Exposed surfaces have satin finish. Front of door is drawn, one-piece, seamless construction. Secured to cabinet with two rivets. Equipped with a tumbler lock keyed like other Bobrick washroom accessories.

Dispensing Mechanism, Inner Housing and Cam - 18-8, type-304, 18-gauge (1.2mm) stainless steel.

Spindles (2) - Heavy-duty, one-piece, molded ABS. Theft-resistant. Retained in dispensing mechanism when door is locked.

OPERATION:

Unit holds two standard-core toilet tissue rolls up to 5-1/4" (133mm) diameter (1800 sheets). Tissue rolls are loaded and locked into dispensing mechanism. Extra roll automatically drops in place when bottom roll is depleted. Depleted rolls can only be removed after unlocking door.

INSTALLATION:

For partitions with particleboard or other solid core, secure with four $\#10 \ge 5/8"$ (4.8 $\ge 16mm$) sheet-metal screws (not furnished) at points indicated by an *S*, or provide through-bolts, nuts, and washers.

For hollow-core metal partitions, provide solid backing into which sheet-metal screws can be secured. If two units are installed back-toback, then provide threaded sleeves and machine screws for the full thickness of partition.

For plaster or dry wall construction, provide concealed backing to comply with local building codes, then secure unit with sheet-metal screws.

For other wall surfaces, provide fiber plugs or expansion shields for use with sheet-metal screws or provide 3/16" (5mm) toggle bolts or expansion bolts.

SPECIFICATION:

Surface-mounted multi-roll toilet tissue dispenser shall be type-304 stainless steel with all-welded construction, including dispensing mechanism, inner housing and cam; exposed surfaces shall have satin finish. Front of toilet tissue dispenser door shall be drawn, one-piece, seamless construction. Door shall be secured to cabinet with two rivets and equipped with a tumbler lock keyed like other Bobrick washroom accessories. Unit shall dispense two standard-core toilet tissue rolls up to 5-1/4" (133mm) diameter (the other Bobrick washroom accessories. Unit shall dispense two standard-core toilet tissue rolls up to 5-1/4" (133mm) diameter (the other state). Extra roll shall automatically drop in place when bottom roll is depleted. Unit shall be equipped with two theft-resistant, here one-piece, molded ABS spindles.

Surface-Mounted Multi-Roll Toilet Tissue Dispenser shall be Model B-2888 of Bobrick Washroom Equipment, Inc., Clifton Park, New York; Jackson, Tennessee; Los Angeles, California; Bobrick Washroom Equipment Comparison Scarborough, Ontario; Bobrick Washroom Equipment Pty. Ltd., Australia; and Bobrick Washroom Equipment Limited, United Kingdom.



Housing — Welded 18-8, Type-304, 18-gauge (1.0 mm) stainless steel with satin-finish. Plastic back plate incorporates mounting screw holes and mounting tape. Equipped with concealed mounting, clear acrylic refill-indicator window and key lock. Refillable, plastic container. Capacity: 850 ml (30-fl oz).

Valve - No-touch, sensor-activated valve suitable for liquid soap, alcohol gel, liquid alcohol, hand sanitizers and iodine.

Spare Part — Replace 2012-18-S silicone tube pump every three to six months, depending on usage, if using the dispenser with alcohol-based solutions.

OPERATION:

To fill the dispenser, remove the lid and fill with liquid hand soap. Dispenses liquid hand soaps of viscosities ranging from 1-3,000 cps. After filling soap container, DO NOT TIGHTEN lid. Air flow is necessary inside the container for dispensing. To activate the dispenser, place hand under spout for approximately one second. Sensing range comes at factory setting of 60mm (2-1/2"). The sensing range set by the factory is recommended for optimal performance. Window indicates when refill is required. The locked, hinged housing opens for re-filling only with special key provided. Requires three (3) Alkaline "C" Cell Batteries, 1.5V (not included). Blue indicator light signals "IN USE". Flashing blue light signals "LOW BATTERY." CE Certified.

INSTALLATION:

Install dispenser at least 200 mm (8") from any projection or horizontal surface which may interfere with the operation of the automatic sensor. Mount the dispenser to the wall by using the enclosed screws and wall plugs. The prepared mounting tape may also be used. Make sure the wall surface is cleaned and in good condition to ensure proper mating of the dispenser to the wall. Install three (3) Alkaline "C" Cell Batteries, 1.5V and replace battery cover. After filling soap container, DO NOT TIGHTEN lid. Air flow is necessary inside the container for dispensing. Remove and discard plastic cap from nozzle tip. Plastic dispensing tube may require massaging to prime the unit. Housing must be closed for dispenser to function.

SPECIFICATION:

Automatic wall-mounted soap dispenser shall be Type-304 stainless steel with satin-finish. Corrosion-resistant valve shall dispense a variety of liquid soaps, iodine based soaps, and alcohol based liquid or gel hand sanitizers. Valve shall be sensor-activated and not require contact with the dispenser to function. Lockable housing shall be equipped with a clear acrylic refill-indicator window and be hinged for refilling and maintenance. Container shall have a capacity of 850 ml (30-fl oz). Unit shall have CE Certification COPY

Surface-Mounted Sensor-Operated Soap Dispenser shall be Model B-2012 of Bobrick Washroom Equipment, Jackson, Tennessee; Los Angeles, California; Bobrick Washroom Equipment Company, Scarborough, Ontario; Bobrick Washroom Equipment Pty. Ltd., Australia; and Bobrick Washroom Equipment Limited, United Kingdom

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Container — 18-8, type-304, 22-gauge (0.8mm) stainless steel. All-welded construction. Exposed surfaces have satin finish. Integral finger depression for opening cover. Front of container has same degree of arc as front of cover and other Bobrick ConturaSeries washroom accessories. Radius on side edges of container match corners and edges of cover and other ConturaSeries accessories.

Cover — 18-8, type-304, 22-gauge (0.8mm) stainless steel with satin finish. Drawn, one-piece, seamless construction. Front of cover has same degree of arc as front of container and other Bobrick Contura Series washroom accessories. Radius on corners and edges of cover match side edges of container and other Contura Series accessories. Secured to container with a full-length stainless steel piano-hinge.

OPERATION:

Cover flips up for disposal of sanitary napkins and for servicing container.

INSTALLATION:

For partitions with particle-board or other solid core, secure with two $\#8 \ge 3/4"$ (4.2 x 19mm) sheet-metal screws (not furnished) at all points indicated by an *S*, or provide through-bolts, nuts, and washers.

For hollow-core metal partitions, provide solid backing into which sheet-metal screws can be secured. If two units are installed back-to-back, then provide threaded sleeves and machine screws for the full thickness of partition.

For masonry walls, provide fiber plugs or expansion shields for use with sheet-metal screws, or provide 3/16" (5mm) toggle bolts or expansion bolts.

For plaster or dry wall construction, provide concealed backing to comply with local building codes, then secure unit with sheet-metal screws.

SPECIFICATION:

Surface-mounted sanitary napkin disposal shall be type-304 stainless steel with all-welded construction; exposed surfaces shall have satin finish. Front of sanitary napkin disposal shall have same degree of arc and match other Bobrick ConturaSeries accessories in the washroom. Radius on corners and edges of sanitary napkin disposal shall complement other Bobrick ConturaSeries washroom accessories. Cover shall be drawn, one-piece, seamless construction and secured to container with a full-length stainless steel piano-hinge. Container shall have integral finger depression for opening cover.

Surface-Mounted Sanitary Napkin Disposal shall be Model B-270 of Bobrick Washroom Equipment, Inc., Clifton Park, New York; Jackson, Tennessee; Los Angeles, California; Bobrick Washroom Equipment Scarborough, Ontario; Bobrick Washroom Equipment Pty. Ltd., Australia; and Bobrick Washroom Equipment Limited, United Kingdom.



Cabinet - 18-8, Type-304, heavy-gauge stainless steel. Welded construction. Exposed surfaces have satin-finish. Equipped with a tumbler lock keyed like other Bobrick washroom accessories.

Flange - 18-8, Type-304, 22-gauge (0.8mm) stainless steel with satin-finish. Drawn and beveled, one-piece, seamless construction.

Door - 18-8, Type-304, 20-gauge (0.9mm) stainless steel with satin-finish. Drawn, one-piece, seamless construction. Secured to cabinet with full-length, stainless steel piano-hinge. Equipped with a tumbler lock keyed like other Bobrick washroom accessories.

Automatic Roll Towel Dispenser - Durable, high-impact resin materials. Accepts universal standard-core, non-perforated rolls up to 8" (205mm) wide, 8" (205mm) diameter. 800 ft (244 m) long. Dispenses one towel per dispense and can be set to dispense paper towels at three different lengths. Accommodates up to 3-1/2" (90mm) diameter stub roll with automatic transfer to full roll.

Waste Receptacle - 18-8, Type-304, 22-gauge (0.8mm) stainless steel with satin finish. Edges hemmed for safe handling. Seapprover ability of the sating and with a tumbler lock keyed like other Bobrick washroom accessories. Capacity: 12-gal. (45.5-L). JOB COPY

OPERATION:

Electronic sensor automatically dispenses towel when hands are placed under the towel opening. Intuitive LED light directs patrons to dispense area. Dispenses universal, 1-1/2" to 2" (38 to 51mm) diameter core, up to 8" (205mm) diameter, 8" (205mm) wide non-perforated, non-proprietary rolls. LED light at the towel opening flashes green when dispenser is ready to dispense, flashes orange, indicating low battery, flashes red if not ready to dispense or in need of service. Towel length can be set to 9" (230mm), 12" (305mm), 15" (380mm). Optional "Paper Saver" feature allows a shorter second sheet to dispense immediately after the first sheet. The "Paper Saver" feature has two second sheet length options: 25% shorter sheet length or 12.5% shorter sheet length. The battery pack power source holds 4 "D" size alkaline batteries (not furnished). Dispenser includes a 3-1/2" (90mm) diameter stub roll feature. When the stub roll is depleted, main roll automatically starts dispensing without the need to open the dispenser.

To empty waste receptacle, unlock with key provided.

NOTE: LinerMate[™] sold as an optional accessory to accommodate disposable trash liners. LinerMate eliminates unsightly trash liner overhang and facilitates installation and removal of disposable trash liners in the 12-gallon (45.5 L) waste receptacle.

Options:

- Folded Towel Dispenser Module convertible in field: order Bobrick Part No. 3944-52.
- Mechanical (Non-Automatic) Universal Touch-Free Roll Towel Dispenser Module convertible in field: order Bobrick Part No. 3961-50.
- 18-gallon (68 L) Waste Receptacle: order Bobrick Part No. 368-60.
- LinerMate for 12-gal (45.5 L) waste only: order Bobrick Part No. 3944-134.

POWER REQUIREMENTS:

Dispenser is powered by 4 "D" size alkaline batteries (not furnished) or an external 6-volt AC to DC switching power supply. Power supply is an optional accessory: order Bobrick AC Adapter Kit Part No. 3974-57. (For non-U.S. compatible plugs, order Part No. 3974-58).

INSTALLATION:

Provide framed rough wall opening 16" wide x 54-3/4" high (405 x 1390mm). Minimum recessed depth required to finish face of wall is 4" (102mm). Allow clearance for construction features that may protrude into rough wall opening from opposite wall. Coordinate with mechanical engineer to avoid pipes, vents, and conduits. If unit projects above top of wainscot, provide channel or other filler to eliminate gap between flange and finish face of wall. Mount unit in wall opening with shims between framing and cabinet at all points indicated by an S, then secure unit with #8 x 1-1/4" (4.2 x 32mm) sheet-metal screws (not furnished).

Open battery cover at the front of the dispenser and install 4 "D" size alkaline batteries. Select sheet length and "Paper Saver" mode using the switches to the right of the batteries. Load paper towel using the instructions on the dispenser.

Electrical supply for use with 6-volt AC to DC power supply must be installed per applicable building codes.

SPECIFICATION:

Recessed convertible automatic universal roll paper towel dispenser and waste receptacle shall be Type-304 stainless steel with welded construction; exposed surfaces shall have satin-finish. Flange shall be drawn and beveled, one-piece, seamless construction. Door shall be secured to cabinet with a full-length stainless steel piano-hinge and equipped with a concealed tumbler lock keyed like other Bobrick washroom accessories. No-touch dispenser, equipped with an intuitive LED light to direct patrons to the dispense area, dispenses universal, 1-1/2" to 2" (38 to 51mm) diameter core, up to 8" (205mm) diameter, 8" (205mm) wide, non-perforated, non-proprietary paper towel rolls. 800 ft (244 m) long. Dispenser automatically dispenses towel when hands are placed under the towel opening. Dispenser can be powered by 4 "D" size alkaline batteries or an optional 6-volt AC to DC power supply. Equipped with switches that allow paper length to be set at 9" (230mm), 12" (305mm) or 15" (380mm) and "Paper Saver" feature that provides a shorter second sheet with options of 25% shorter and 12.5% shorter. LED light at the towel opening flashes green when dispenser is ready to dispense, flashes orange, indicating low battery, flashes red if not ready to dispense or in need of service. Automatic transfer shall dispense stub roll up to 3-1/2" (90mm) diameter before new main roll is automatically dispensed. Removable waste receptacle shall be secured to cabinet with a tumbler lock, edges hemmed for safe handling, and shall have a minimum capacity of 12-gal. (45,5-L).

Recessed Convertible Automatic Universal Roll Paper Towel Dispenser And Waste Receptacle shall be Model B-3974 of Bobrick Washroom Equipment, Inc., Clifton Park, New York; Jackson, Tennessee; Los Angeles, California; Bobrick Washroom Equipment Company, Scarborough, Ontario; Bobrick Washroom Equipment Pty. Ltd., Australia; and Bobrick Washroom Limited, United Kingdom.





The manufacturer reserves the right to, and does from time to time, make changes and improvements in designs and dimensions.

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Grab Bar — 18-8 S, type-304, 18-gauge (1.2mm) stainless steel tubing with satin-finish, slip-resistant surface. 1-1/2" (38mm) outside diameter. Ends are heliarc welded to flanges. Clearance between the grab bar and wall is 1-1/2" (38mm).

Concealed Mounting Flanges — 18-8 S, type-304, 11-gauge (3.2mm) thick, stainless steel plate; end flanges 2" x 3-1/8" (50 x 80mm) with holes for attachment to wall. Intermediate flanges 2-5/8" x 3-1/8" (65 x 80mm) wide x 3-1/8" (80mm) diameter.

Snap Flange Covers — 18-8 S, type-304, 22-gauge (0.8mm) drawn stainless steel with satin-finish. 3-1/4" (85mm) diameter x 1/2" (13mm) deep. Each cover snaps over mounting flange to conceal mounting screws.

STRENGTH:

Bobrick grab bars that provide 1-1/2" (38mm) clearance from wall can support loads in excess of 900 pounds (408kg) if properly installed. Other grab bar configurations can support loads in excess of 250 pounds (113kg) if properly installed, complying with accessible design (including ADAAG in the U.S.A.) for structural strength

Safety Warning: Grab bars are no stronger than the anchors and walls to which they are attached and, therefore, must be firmly secured in order to support the loads for which they are intended. To avoid potential injury, the building owner or maintenance personnel should remove the grab bar from service if the grab bar is not adequately secured to wall or if there is any observed damage to the welds.

INSTALLATION:

Provide concealed anchor device or backing as specified or required in accordance with local building codes before wall is finished. Fasten concealed mounting flanges to anchor device or backing with at least two screws opposing each other in each flange. Snap flange covers over each mounting flange to conceal mounting screws. Concealed anchor devices and mounting screws are not included with Bobrick grab bars and must be specified as an accessory.

For Grab Bars with an Intermediate Flange(s), Pull Snap-Flange Covers away from mounting flanges. Place grab bar in desired mounting location. Use intermediate flange as a template to mark location of mounting screws at intermediate flange only. Mark screw locations at the center of the slot in the middle of the double-keyhole shaped mounting holes (2) in the intermediate flange. Remove grab bar from wall. Drive the intermediate flange mounting screws into wall at marked locations. Note: Make sure to leave a space of just over 1/8" (3.17mm) between the underside of the screw head and the wall. Install grab bar on the wall by placing the round ends of the intermediate flange double-keyhole shaped mounting screws (2) are located in the middle of the flange slots. Install the mounting screws into the wall at the end flanges and secure tightly. Tighten the mounting screws at the intermediate flange. Press all snap-flange covers into place to conceal mounting flanges.

Note: Recommend use of 1/4" or #14 sheet metal or wood screws to install Intermediate Flange. #12 screws may also be used.

Important Notes:

1. Mounting Kits - Bobrick offers a mounting kit for installing grab bars; one Bobrick mounting kit is required for each flange.

Mounting Kit No.	Description	
252-30	Consists of # (3) 14 x 21/2" type-304 stainless steel, Phillips round-head, sheet-metal screws.	

 Grab Bar Fastener — Bobrick offers a grab bar fastening system that secures all Bobrick grab bar series; one Bobrick fastener is required for each flange. Install grab bar without backing in wall requires minimum 5/8" (16mm) thick painted or tiled drywall.

WingIt™ Fastener No.	Description
251-4	Consists of 10–32 x 5/16" round-head, Phillips 18/8 stainless steel screws. (1) Winglt grab bar fastener.

3. Optional Anchor Device — Bobrick grab bar anchor device includes stainless steel machine screws to be used for attaching grab bars to anchors. one Bobrick concealed anchor device is required for each flange.

Optional Anchor No.	Description	
2583	Anchor for 3/4" to 1" (19-25mm) panel 1 anchor required for each flange.	
2586	Anchor for 1/2" to 1" (13mm) panel 1 anchor required for each flange.	

SPECIFICATION:

Grab bar shall be type-304 stainless steel with satin-finish, slip-resistant surface. Grab bar shall have 18-gauge (1.2mm) wall thickness and 1-1/2" (38mm) outside diameter. Clearance between the grab bar and wall shall be 1-1/2" (38mm). Concealed mounting flanges shall be 11-gauge (3.2mm) thick stainless steel plate, 2" x 3-1/8" (50 x 80mm), and equipped with at least two screw holes for attachment to wall. Flange covers shall be 22 gauge (0.8mm), 3-1/4" (85mm) diameter x 1/2" (13mm) deep, and shall snap over mounting flange to conceal mounting screws and/or WingIt fasteners. Ends of grab bar shall pass through concealed mounting flanges and be heliarc welded to form one structural unit. Grab bar shall comply with accessible design (including ADAAG in the U.S.A.) for structural strength.

Grab Bar shall be Model ______ (insert model number) of Bobrick Washroom Equipment, Inc., Clifton Park, New York; Jackson Fennessee; Los Angeles, California; Bobrick Washroom Equipment Company, Scarborough, Ontario; Bobrick Washroom Equipment Pictud., Australia; and Bobrick Washroom Equipment Limited, United Kingdom.

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Grab Bar — 18-8 S, type-304, 18-gauge (1.2mm) stainless steel tubing with satin-finish, slip-resistant surface. 1-1/2" (38mm) outside diameter. Ends are heliarc welded to flanges. Clearance between the grab bar and wall is 1-1/2" (38mm).

Concealed Mounting Flanges — 18-8 S, type-304, 11-gauge (3.2mm) thick, stainless steel plate; end flanges 2" x 3-1/8" (50 x 80mm) with holes for attachment to wall. Intermediate flanges 2-5/8" x 3-1/8" (65 x 80mm) wide x 3-1/8" (80mm) diameter.

Snap Flange Covers — 18-8 S, type-304, 22-gauge (0.8mm) drawn stainless steel with satin-finish. 3-1/4" (85mm) diameter x 1/2" (13mm) deep. Each cover snaps over mounting flange to conceal mounting screws.

STRENGTH:

Bobrick grab bars that provide 1-1/2" (38mm) clearance from wall can support loads in excess of 900 pounds (408kg) if properly installed. Other grab bar configurations can support loads in excess of 250 pounds (113kg) if properly installed, complying with accessible design (including ADAAG in the U.S.A.) for structural strength

Safety Warning: Grab bars are no stronger than the anchors and walls to which they are attached and, therefore, must be firmly secured in order to support the loads for which they are intended. To avoid potential injury, the building owner or maintenance personnel should remove the grab bar from service if the grab bar is not adequately secured to wall or if there is any observed damage to the welds.

INSTALLATION:

Provide concealed anchor device or backing as specified or required in accordance with local building codes before wall is finished. Fasten concealed mounting flanges to anchor device or backing with at least two screws opposing each other in each flange. Snap flange covers over each mounting flange to conceal mounting screws. Concealed anchor devices and mounting screws are not included with Bobrick grab bars and must be specified as an accessory.

For Grab Bars with an Intermediate Flange(s), Pull Snap-Flange Covers away from mounting flanges. Place grab bar in desired mounting location. Use intermediate flange as a template to mark location of mounting screws at intermediate flange only. Mark screw locations at the center of the slot in the middle of the double-keyhole shaped mounting holes (2) in the intermediate flange. Remove grab bar from wall. Drive the intermediate flange mounting screws into wall at marked locations. Note: Make sure to leave a space of just over 1/8" (3.17mm) between the underside of the screw head and the wall. Install grab bar on the wall by placing the round ends of the intermediate flange double-keyhole shaped mounting screws (2) are located in the middle of the flange slots. Install the mounting screws into the wall at the end flanges and secure tightly. Tighten the mounting screws at the intermediate flanges. Press all snap-flange covers into place to conceal mounting flanges.

Note: Recommend use of 1/4" or #14 sheet metal or wood screws to install Intermediate Flange. #12 screws may also be used.

Important Notes:

1. Mounting Kits — Bobrick offers a mounting kit for installing grab bars; one Bobrick mounting kit is required for each flange.

Mounting Kit No.	Description
252-30	Consists of # (3) 14 x 2½" type-304 stainless steel, Phillips round-head, sheet-metal screws.

2. Grab Bar Fastener — Bobrick offers a grab bar fastening system that secures all Bobrick grab bar series; one Bobrick fastener is required for each flange. Install grab bar without backing in wall requires minimum 5/8" (16mm) thick painted or tiled drywall.

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Winglt™ Fastener No.	Description
251-4	Consists of 10–32 x 5/16" round-head, Phillips 18/8 stainless steel screws. (1) Winglt grab bar fastener.

3. Optional Anchor Device — Bobrick grab bar anchor device includes stainless steel machine screws to be used for attaching grab bars to anchors. one Bobrick concealed anchor device is required for each flange.

Optional Anchor No.	Description
2583	Anchor for 3/4" to 1" (19-25mm) panel 1 anchor required for each flange.
2586	Anchor for 1/2" to 1" (13mm) panel 1 anchor required for each flange.

SPECIFICATION:

Grab bar shall be type-304 stainless steel with satin-finish, slip-resistant surface. Grab bar shall have 18-gauge (1.2mm) wall thickness and 1-1/2" (38mm) outside diameter. Clearance between the grab bar and wall shall be 1-1/2" (38mm). Concealed mounting flanges shall be 11-gauge (3.2mm) thick stainless steel plate, 2" x 3-1/8" (50 x 80mm), and equipped with at least two screw holes for attachment to wall. Flange covers shall be 22 gauge (0.8mm), 3-1/4" (85mm) diameter x 1/2" (13mm) deep, and shall snap over mounting flange to conceal mounting screws and/or WingIt fasteners. Ends of grab bar shall pass through concealed mounting flanges and be heliarc welded to form one structural unit. Grab bar shall comply with accessible design (including ADAAG in the U.S.A.) for structural strength.

Grab Bar shall be Model ______ (insert model number) of Bobrick Washroom Equipment, Inc., Clifton Park, New York; Jackson Fennessee; Los Angeles, California; Bobrick Washroom Equipment Company, Scarborough, Ontario; Bobrick Washroom Equipment Product Australia; and Bobrick Washroom Equipment Limited, United Kingdom.



Cabinet — 18-8, type-304, heavy-gauge stainless steel. All-welded construction. Exposed surfaces have satin finish.

Flange — 18-8, type-304, 22-gauge (0.8mm) stainless steel with satin finish. Drawn, one-piece, seamless construction.

Door — 18-8, type-304, 22-gauge (0.8mm) stainless steel with satin finish. Double-pan-back construction is warp-resistant. Secured to cabinet with a welded, full-length stainless steel piano-hinge. Equipped with a stainless steel cable door-swing limiter and tumbler lock keyed like other Bobrick washroom accessories.

Paper Towel Dispenser — 18-8, type-304, 22-gauge (0.8mm) stainless steel. Dispenses C-fold or multifold paper towels. Capacity: 350 C-fold or 475 multifold paper towels.

Shelf — 18-8, type-304, 22-gauge (0.8mm) stainless steel with satin finish.

Optional: Order Bobrick Part No. 369-130 TowelMate[®] Accessory Module has towel guide angle with 90 degree return to prevent paper towels from falling forward out when door is opened for servicing. TowelMate Accessory Support Rod allows dispenser to dispense paper towels one at a time without tabbing, tearing, bulging, sagging and bunching.

OPERATION:

Paper towel dispenser will dispense C-fold or multifold paper towels without adjustment or use of adapters.

INSTALLATION:

Provide framed rough wall opening 11-1/4" wide x 15-5/8" high (285 x 395mm). Minimum recessed depth required to finish face of wall is 4" (102mm). Allow clearance for construction features that may protrude into rough wall opening from opposite wall. Coordinate with mechanical engineer to avoid pipes, vents, and conduits in wall. Mount unit in wall opening with shims between framing and cabinet at all points indicated by an *S*, then secure unit with #8 x 1-1/4" (32mm) sheet-metal screws (not furnished by manufacturer).

SPECIFICATION:

Recessed paper towel dispenser shall be type-304 stainless steel with all-welded construction; exposed surfaces have satin finish. Flange shall be drawn, one-piece, seamless construction. Door shall be secured to cabinet with a welded, full-length, stainless steel piano-hinge and equipped with a stainless steel cable door-swing limiter and tumbler lock keyed like oper Bobrick washroom accessories. Shelf shall be stainless steel with satin finish. Paper towel dispenser shall dispense 50 C-fold or 475 multifold paper towels without additional adapters or trays.

Recessed Paper Towel Dispenser shall be Model B-359 of Bobrick Washroom Equipment, Inc., Clifton Park, New York; Jackson, Tennessee; Los Angeles, California; Bobrick Washroom Equipment Company, Scarborough, Ontario; Bobrick Washroom Equipment Pty., Australia; and Bobrick Washroom Equipment Limited, United Kingdom.

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18-8, type-304, 22-gauge (0.8mm) stainless steel with satin finish. All-welded construction with beveled opening.

OPERATION:

Dispenses single- or half-fold paper toilet seat covers from beveled opening. Dispenser fills from bottom through concealed opening. Capacity: 250 toilet seat covers or one box.

INSTALLATION:

Mount unit on wall or toilet partition with two flat-head screws, not furnished by manufacturer, at points indicated by an *S*. For plaster or dry wall construction, provide concealed backing that complies with local building codes, then secure unit with flat-head screws not furnished. For other wall surfaces, provide fiber plugs or expansion shields for use with screws, not furnished, or provide 1/8" (3mm) toggle bolts or expansion bolts.

Note: Provide a 5" (125mm) minimum clearance from bottom of dispenser to top of any horizontal projection to provide room for filling dispenser from bottom.

SPECIFICATION:

Surface-mounted toilet-seat-cover dispenser shall be type-304, 22-gauge (0.8mm) stainless steel with all-welded construction; exposed surfaces shall have satin finish. Dispenser shall have a concealed opening in bottom for filling. Capacity to be 250 paper toilet seat covers or one box.

Surface-Mounted Seat-Cover Dispenser shall be Model B-221 of Bobrick Washroom Equipment, Incore of Park, New York; Jackson, Tennessee; Los Angeles, California; Bobrick Washroom Equipment Company, Scarborough, Ontario; Bobrick Washroom Equipment Pty. Ltd., Australia; and Bobrick Washroom Equipment Limited, United Kingdom.



18-8, type-304, 11-gauge (3.2mm) stainless steel with satin finish. All-welded construction.

INSTALLATION:

Mount hook on wall using sheet-metal screws, furnished by manufacturer, at points indicated by an *S*. For plaster or dry wall construction, provide concealed backing to comply with local building codes, then secure unit with screws furnished. For other wall surfaces, provide fiber plugs or expansion shields for use with screws furnished, or provide 1/8" (3mm) toggle bolts or expansion bolts.

SPECIFICATION:

Clothes hook shall be type-304, 11-gauge (3.2mm) stainless steel with satin finish and all-welded construction.

Stainless Steel Clothes Hook shall be Model B-233 of Bobrick Washroom Equipment, Inc., Clifton Parka Very York; Jackson, Tennessee; Los Angeles, California; Bobrick Washroom Equipment Company, Scarborong Boy Ontario; Bobrick Washroom Equipment Pty. Ltd., Australia; and Bobrick Washroom Equipment Limited, United Kingdom.

The illustrations and descriptions herein are applicable to production as of the date of this Technical Data Sheet. The manufacturer reserves the right to, and does from time to time, make changes and improvements in designs and dimensions. Date

SUNTUNNEL



Reviewed for Code Compliance Signed ^{M for EM} Date ______ Permit II ²⁰²⁴⁰¹⁹⁰ VI SIAID.C

Dome Options for VELUX Commercial Sun Tunnel

Skylights for homeowners

About

USA ⊕

Commercial

Products

Support O

CCC

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Type of Commercial Sun Tunnels

Self-Flashed TGC



TGC 014 0000 Impact Modified Acrylic Dome TGC 014 1000 Impact Polycarbonate Dome

- Lower profile dome
- Low profile pan flashing
- Flexi Loc ™ tunnel system
- 16" tunnel extension
- Roof pitch 0°–60°



TGC 022 3000 Impact Modified Acrylic Dome TGC 022 5000 Impact Polycarbonate Dome

- High profile SunCurve
- Low profile pan flashing
- Flexi Loc™ tunnel system
- 16" tunnel extension
- Roof pitch 0°-60°

Curb Mount TCC



TCC 014 0000 Impact Modified Acrylic Dome TCC 014 1000 Impact Polycarbonate Dome

- Lower profile dome
- Low profile curb mount flashing
- Flexi Loc[™] tunnel system
- 16" tunnel extension
- Roof pitch 0°-60°



TCC 022 3000 Impact Modified Acrylic Dome TCC 022 5000 Impact Polycarbonate Dome

- High profile SunCurve
- Low profile curb mount flashing
- Flexi Loc™ tunnel system
- 16" tunnel extension
- Roof pitch 0°-60°



Dome Options for VELUX Commercial Sun Tunnel

		Skylights for home	owners About	Environt.	🌐 UGA
VELUX Commercial	Products	Replacement	Technical Resources	inspiration	Support Q
Dome Unit Skylights			Case Studies		
Glass Unit Skylights			Continuing Education		`
Structural Skylights			Brochures		
Tubular Daylighting Device			Commercial Blog		
Translucent Wall System			Design Assistance		
Canopy			Technical Resources		
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VELUX Commercial			Find a Commercial Rep		
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VELUX [®] Commercial	Products	Replacement	Technica	Resources	Inspiration	Support C
I GU Size Code		Size	Туре	1	Dome	
TGC 014 0000		14"	Acr	ylic	Low Profi	le
TGC 014 1000		14"	Imp	act	Low Profi	le
TGC 022 3000		22"	Acr	ylic	High Prof	ile SunCurve
TGC 022 5000		22"	Imp	act	High Prof	ile SunCurve

TCC Sizing Options

TCC Size Code	Size	Туре	Dome
TCC 014 0000	14"	Acrylic	Low Profile
TCC 014 1000	14"	Impact	Low Profile
TCC 022 3000	22"	Acrylic	High Profile SunCurve
TCC 022 5000	22"	Impact	High Profile SunCurve
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TMC Sizing Options

TMC Size Code	Size	Туре	Dome
TMC 014 0000	14"	Acrylic	Low Profile
TMC 014 1000	14"	Impact	Low Profile

Products	Inspiration	APPROVED JOB COPY
		Reviewed for Code Compliance
Dome Unit Skylights	Case Studies	Signed
Blass Unit Skylights	Continuing Education	Permit # _20240150

WATER HEATER



Reviewed for Code Compliance Signed ^{M for EM} Date ______ Permit II ²⁰²⁴⁰¹⁹⁰

FORCE[™]90+

Power Direct Vent Commercial Gas Water Heaters

The 100,000 BTU Force[™]90+ light-duty commercial gas water heater is equipped with a fully submerged, spiral-shaped condensing heat exchanger and 50 gallons of storage capacity. This design provides much greater heat transfer surface than a standard straight flue tube, resulting in 96% thermal efficiency and higher hot water output than comparable 80% efficient water heaters. With a 22["] diameter, the Force[™] 90+ can be installed in less space than a 75-gallon unit yet delivers greater recovery and lower operating costs. The Force 90 is ENERGY STAR[®] Qualified.



Series 124/125

Power Direct Vent Design for Installation Versatility

- Modular blower, with 120V, 60Hz electrical system (5 amps or less)
- Can be vented vertically thru-the-roof or horizontally thru-the wall. Vents using PVC, CPVC or ABS pipe.
 - 2" pipe allows vent runs up to 45 equivalent feet 3" pipe allows vent runs up to 128 equivalent feet
- Optional concentric vent and sidewall termination kits available

Available in Natural Gas or Propane

Side-Mounted Taps for Recirculating Systems

- Hot and cold "side taps" allow the Force[™] 90+ to be used for "combination" systems for water heating plus space heating, radiant floor heating or other applications requiring a recirculating hot water loop
- Plugs for recirculating taps are factory installed

Advanced Electronic Control

- Large LCD display
- Precise temperature control
- Advanced diagnostics
- iCOMM[™] Compatible and can be monitored from remote locations. Call 1.888.WATERO2 for more information.

Glasslined Tank with Two Magnesium Anode Rods

- Provides superior protection against corrosion
- Commercial-grade glass lining protects all "water side" tank surfaces plus inside of internal heat exchanger exposed to condensate

Top-Fired Low NOx Burner

• Reduces NOx emissions and complies with SCAQMD Rule 1146.2, and other Air Quality Management Districts with similar requirements for low NOx emissions

CSA Certified and ASME Rated T&P Relief Valve

Maximum Hydrostatic Working Pressure: 150 psi

Meets the thermal efficiency and standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/IESNA 90.1

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Three-Year Limited Tank Warranty

Consult written warranty shipped with water heater or contact State Water for complete warranty information
 APPROVED



FORCE[™]90+ 96% Efficient Power Direct Vent Commercial Gas Water Heaters

SPECIFICATIONS

MODEL NUMBER	BTU INPUT PER	TANK SIZE	RECOVERY-GALLONS PER HOUR AT DEGREE RISE		SHIPPING WEIGHT	
	HOUR	GALLONS	40°F	100°F	140°F	LBS.
SHE50 100NE	100,000	50	291	116	83	255

All models-Maximum Supply Pressure: 14 inches w.c. (3.48 kPa) Minimum Supply Pressure Natural Gas: 3.5 inches w.c.

(.87 kPa). Minimum Pressure Propane: 8.0 inches w.c. (1.99 kPa). Minimum Pressure must be maintained under both load and no-load (static and dynamic) conditions.

DIMENSIONS



SUGGESTED SPECIFICATION

(Natural or Propane) gas water heater(s) shall be State Force[™] 90+ model SHE50 100NE, with 96% thermal efficiency, a storage capacity of 50 gallons, an input rating of 100,000 BTU per hour, a recovery rating of 116 gallons per hour at 100°F rise and a maximum hydrostatic working pressure of 150 psi. Water heater(s) shall be of power direct vent design, using 2 or 3" PVC, CPVC or ABS pipe for horizontal and/or vertical vent runs. Water heater(s) shall have: 1: Glasslined steel tank construction and a spiral-shaped heat exchanger placed entirely inside the tank, which shall be glasslined on the flue gas side to protect against acidic condensate. 2: Advanced electronic control with large LCD display and advanced diagnostics. Water heaters shall incorporae the iCOMM" system for remote monitoring, leak detection and fault alert. 3: A 3-year limited warranty against tank leaks. Water heater(s) shall meet the thermal efficiency and standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/LESNA 90.1.

For complete information on limited warranties, consult written warranty or contact the State Customer Care Center at 1-800-365-0024.

State Industries, Inc. reserves the right to make product changes or improvements without prior notice.

For more information on State Water Heaters, contact: State Water Heaters 500 Tennessee Waltz Parkway Ashland City, TN 37015 800-365-0024 Toll-free USA www.statewaterheaters.com

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Revised June 2013

ZERO SIGHTLINE SERIES



Reviewed for Code Compliance Signed ^{M for EM} Date ______ Permit II ²⁰²⁴⁰¹⁹⁰

Zero Sightline—Series 30P

Product Data

AAM ACA TEGORY - Architectural AAMAVW Designation - AW-75 Configuration - Outward Projected, Outswing Casement Series - 30P AAMA Air, Water & Structural Testing Allowable Air - MAX 0.10 CFM/LF @ 6.24 Uniform Load Deflection - 75 PSF Water - 15 PSF Uniform Load Structural - 112.5 PSF Water - 15 PSF CRF Class - CRF 55 U-Yalue Class - 4.4.65 Construction - Frame Minimum Wall Thickness & Fasteners - 0.125" Path - 3" Pathrication - Mittered, Epoxied and Crimped Design - Flat or CW Insert Leg Construction - Primary Operable Winimum Wall Thickness & Fasteners - 0.125" Pathrication - Mittered, Epoxied and Crimped W/Alum Corner Blocks Seriegn - Flush wFrame, Tubular Pabrication - Mittered, Epoxied and Crimped W/Alum Corner Blocks Seriegn - Poured In Place Polyurethane Optional Window Components Hardware Series - Flat Or Wicket Sespecified - Select From Hardware Section Watther-Stripping Series - Stripping Primary Operable Units Maranty Location - Factory or Field Maranty Finish Maranty Aspecified - Anodized or Painted Seriefied - 2, 5 or 10 Years	Description		
Configuration - Outward Projected, Outswing Casement Series - 30P AMA Air, Water & Structural Testing Allowable Air - MAX 0.10 CPM/LF 06.24 Test Size - AAMA 101 for Dasignation and/or Configuration Mavater - 15 PSF Uniform Load Deflection - 75 PSF Water - 15 PSF CRF A 'U Yalue U-Yalue Class44 .65 CRF Class - CRF 55 U-Yalue Class44 .65 Construction - Frame Minimum Wall Thickness - 0.125' Path - 3' Fabrication - Mitered, Epoxied and Crimped and Crimped 20 (and Cr	AAMA CATEGORY – Architectural	AAMA/W Designation – AW-75	
AMA Ai, Wate A Structural Testing Test Size - AMM 101 for Designation and/or Configuration Inform Load Deflection - 75 PSF Unform Load Structural - 112.5 PSF CFF 4: U' Value CFF 5: CFF 4: U' Value CFF 5: CFF 4: U' Value Chass - CFF 5: CFF 4: U' Value Chass - CFF 5: Chass - CFF 5: Chas	Configuration - Outward Projected, Outswing Casement	Series – 30P	
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Optional Window Components Hardware Screens - Flat Or Wicket As Specified - Select From Hardware Section Weatter-Stripping Frimary Operable - Two Rows, Dual Durometer, Compression EPD-V Glazing - Operable Units Method - Structural Silicone Finish Warranty As Specified - Anodized or Painted Marranty	Separation – 1/4"	Design – Poured In Place Polyurethane	
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Glazing - Operable Units Location - Factory or Field Method - Structural Silicone Finish Warranty As Specified - Anodized or Painted As Specified - 2, 5 or 10 Years	Primary Onerable _Two Rows Dual Durometer Compression EDDA	4	
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Oldcastle BuildingEnvelope®

2425 Olympic Boulevard, Suite 525-East • Santa Monica, CA 90404 1-866-OLDCASTLE (653-2278) • oldcastlebe.com NICHIHA



Reviewed for Code Compliance Signed ^{M for EM} Date ______ Permit II ²⁰²⁴⁰¹⁹⁰

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NICHIHA ARCHITECTURAL WALL PANELS

DESIGN REVIEW GUIDE

AWP 1818 AWP 3030 - HORIZONTAL AWP 3030 - VERTICAL







AWP DESIGN GUIDE

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Always install products in accordance with the latest installation guidelines and all applicable building codes and other laws, rules, regulations and ordinances. Review all installation instructions and other applicable product documents before installation. This design guide does not include Stacked Stone or Ledge Stone products.



THE NICHIHA RAINSCREEN

Moisture intrusion in a wall system can be the cause of building defects, as well as health ailments for the building's occupants, making rainscreens a very important tool in water mitigation. Rather than attacking the symptoms of moisture intrusion, rainscreens tackle the source –the forces that drive water into the building shell. Nichiha's concealed installation system creates a 10mm (3/8") drainage and ventilation plane behind our panels.





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THE PRODUCTS

Before you jump into the design process, we recommend taking a minute to familiarize yourself with the dimensions of Nichiha's family of Architectural Wall Panels.

AWP1818

Horizontal Installation Allowed Stacked or Staggered Layout Only

Dimensions: 17-7/8" [H] x 71-9/16" [L] 455mm [H] x 1818mm [L] Thickness (unless noted): 5/8" (16mm) Architectural Block+ Canyon Brick Illumination+ Miraia PlymouthBrick Novenary Tile 7/8" (21 mm) Thickness SandStone 3/4" (18mm) Thickness SandStone 3/4" (18mm) Thickness Tuff Block+ VintageBrick 3/4" (18mm) Thickness VintageWood Corbosa Riftsawn Natura (New!) Latura V-Groove (New!)

AWP3030

Horizontal or Vertical Installation Allowed Stacked Layout Only

Dimensions: 17-7/8" [H] x 119-5/16" [L] 455mm [H] x 3030mm [L] Thickness: 5/8" (16mm) EmpireBlock Illumination* IndustrialBlock Ribbed RoughSawn VintageWood Latura V-Groove

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+ Factory Joint profiles of Illumination 1818 and ArchitecturalBlock differ from TuffBlock's, which has a wide perimeter reveal.

* Illumination 3030 panels have a wider, soft-U factory joint profile.

Only panels of the same dimension and thickness may be used directly together without separation via control and/ compression joints.

Custom color finish of Illumination, Ribbed, TuffBlock panels requires a lead-time. Contact a Sales Representitive for more information.



DESIGN REVIEW GUIDE
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NICHIHA

the power of possibilities"

PRODUCTS APPLICATIONS

RESOURCES

GET A SAMPLE

ARCHITECTURAL DETAIL FINDER

BROWSE BY

0 SEARCH RESULTS

CATEGORIES	+	SELECT ALL POR DWG BVT
PRODUCTS ArchitecturalBlock CanyonBrick EmpireBlock	-	VintageWood AWP-1818 A dimension detail of an individual VintageWood-1818 panel.
Illumination IndustrialBlock LedgeStone		VintageWood AWP-3030 A dimension detail of an individual VintageWood-3030 panel.

The architectural detail finder will help you with your specification, filter down to what you need. Not sure what you need to filter by? Grab all the details or search on the top.

On the architectural detail finder you'll find anything from installation over continuous insulation, various different types of wall framing and even panel dimension and clip dimension. Looking for a specific product? We've got details for more than just our AWP panels on the site.

Individual, dimensioned panel profiles can be found on Nichiha's Detail Finder at: nichiha.com/architectural-details





PLANNING & LAYOUT

The Nichiha system works most efficiently when full panels are used.

Designing panel layouts symmetrically from the inside-out will help to create less product waste. It is important to keep in mind the actual metric dimensions when considering the modular panel layout, including placement of control and compression joints, and also with respect to sizing window and door openings.

Detailing around openings involves a number of variables such as the depth of the opening and the overall thickness of the wall assembly. For example, a continuous insulation and furring condition with recessed windows will necessitate a jamb, head, and sill return material/finish. Depending on the dimensions, Nichiha factory Corners or cut panels may be used at jambs, or an alternate material such as metal may be necessary. Nichiha Corners and panel segments may not be used for head and sill return conditions. Please reach out to Nichiha Technical for detailing recommendations.

VERTICAL CONTROL/EXPANSION JOINT REQUIREMENTS

On walls wider than 30 feet, when using AWP1818 panels and metal trim outside corners, Vertical Control/ Expansion Joints (Double Flange Sealant Backers) are required within 2 to 12 feet of outside corners (on both sides of corner) and then approximately every 30 feet thereafter.

When using AWP1818 panels and Nichiha factory Corners, control joints are required at the factory Corner and then approximately every 30 feet thereafter.

When using AWP3030 panels installed horizontally, vertical control joints or H-molds are required at each vertical joint. Panels may not be butted together and these vertical joints may not be split up or staggered.

Control/Expansion Joints are 10mm (3/8") wide.

HORIZONTAL/COMPRESSION JOINT REQUIREMENTS

Metal Framed projects taller than three stories/45 feet: Place compression joints approximately every 25 feet.

Wood Framed projects three stories or taller: Compression Joints required at each floor.

Compression Joint requirements: Compression Joint Flashing - heavy gauge z-shaped metal flashing or similar, 1/2" (min.) gap between panels at floor lines/plate, and Starter Track.





CONTINUOUS INSULATION

Nichiha AWP (horizontal) may be installed directly over up to one inch of foam plastic insulation such as polyiso or EPS over wood or gypsum sheathing. Insulation compressive strength of 25 psi or greater is strongly recommended. Continuous insulation (c.i.) thicker than one inch and mineral wool c.i. of any thickness must be paired with a furring or other solution to satisfy the Framing & Sheathing Requirements set out in the AWP install guides and is subject to a required Technical Review process. Refer to the guides for complete installation requirements and instructions. This guide is not intended to prohibit options or furring combinations not covered herein. Please contact the Technical Department for assistance.

Horizontal Panel Installation

Shaped Metal Furrings

(Z, hat channel, C, etc.), Min. 18 ga.

2x P.T. Lumber

Energy Code Option

Aligned vertically at 16" o.c. (max)

Vertical Panel Installation

a.Furring for vertical panels requires either 18 ga shaped metal furring aligned vertically with an additional layer of Min. 7/16" (11mm) APA Rated OSB or Plywood required for Ultimate Clip fastening

b.Another option for furring for vertical panels is a furring grid the first layer will need to be 18 ga shaped furring aligned vertically, the second layer can be shaped 18 ga metal furring or 2X lumber aligned horizontally at 16" OC.

c.Horizontal furring can be used as a direct attachment. The Furring must be metal and 18 ga spaced ay 16" OC. If Z furring is used at the starter track a hat channel will be needed. No wood furring allowed.

Energy Code Friendly Options

Engineered third party systems

Cascadia Clips CL Talon FERO Cladding Support ISO Clip Knight Wall Cl and HCI Systems SmartCl Green Girt

IBC 2021 Table 2603.12.2

Greater than 1 inch

Continuous Insulation

Exterior

Requirements

The model building code for 2015 includes information in Chapter 26 about foam plastic insulation/sheathing and furring minimum fastening requirements. Table 2603.12.2 shows various configurations depending upon framing gauge and spacing, fastener size and spacing, thickness of insulation and cladding weight. As an example, according to the table, 3 inches is the maximum thickness of foam sheathing on which a furring can be added directly on top, spaced at 16" o.c. and fastened with #8 screws every 12"-16" (into 18 gauge wall framing), that can support a cladding weight of 3 psf.



*Consult a structural engineer to design the furring system to manage the AWP system dead load of minimum 4 psf and also meet the projection of the design criteria. Furring must account for expected building compression. Nichiha does not provide fastener design for anchoring the furring to structure. Refer to IBC 2015 Table 2603.12.2 for more info.

ARCHITECTURAL LA



WINDOW SILL

Face fasten 1" from cut edges with 10mm Spacer at framing/furring @ 16" o.c.

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COMPRESSION JOINT

Add compression joint flashing at min. 1/2" breaks between course at floor framing for multi-story applications

YOUT WITH NICHIHA



INSIDE CORNER

Butt line-of-sight panels to corner. On opposite wall, add Single Flange Sealant Backer and caulk or use Inside Corner metal trim.

TO PLAN PLAN PLAN



VERTICAL CONTROL JOINT

Often aligned with window jambs, Double Flange Sealant Backer is fastened to framing/furring, wood sheathing, or blocking.



OUTSIDE CORNER

- Factory Corners with 3-1/2" Face Returns
- Corner Key Trim
- Open Outside Corner
- Fiber Cement Trim Boards



NICHIHA.COM/RESOURCE-CENTER 9

HORIZONTAL DESIGN REQUIREMENTS

AWP1818 - HORIZONTA

- Ultimate Horizontal Starter Track *always level*
- Ultimate Clip II JEL778 for most panels (JEL788 for SandStone, VintageBrick, and CinderBlock only) - 2-1/2 clips per panel edge | 10mm (~3/8") rain screen
- Joint Tab Attachments required between panels at vertical factory joints
- Vertical Control/Expansion Joints (Double Flange Sealant Backer) on 30'+ walls with metal trim outside corners: 2'-12' from edges + every ~30' thereafter
- Vertical Control/Expansion Joints with Nichiha Corners plus every ~30' thereafter
- Vertical Control/Expansion Joints every ~30' on walls with no outside corners.
- Horizontal/Compression Joints: Wood Framing three stories or more = joint at every floor

- Horizontal/Compression Joints: Metal Framing over three stories/45' = joint about every 25'
- Sealant Joints (Single Flange Sealant Backer) or Inside Corner trim at inside corners
- Horizontally cut edges require face fastening with Spacer
- MIN. Clearances: 6" above soil grade, 2" above hardscape and decking, 1" above roof
- 1/4" clearance between the panel edge and flashings
- Panel Thickness 16-21mm | 5/8" -7/8"
- Total Wall System Depth 26-31mm | 1-1/32" -1-7/32"

See table for Framing & Sheathing Requirements Reference page 3 for panel thickness



HORIZONTAL CONTINUOUS INSULATION REQUIREMENTS



AWP3030 - HORIZON-

- Ultimate Horizontal Starter Track always level
- Ultimate Clip II JEL778 for all 3030mm panels 4 clips per panel edge I 10mm (~3/8") rain screen
- Vertical Control/Expansion Joints (Double Flange Sealant Backer) or H-Mold trim at each vertical joint
- Stacked layout only no staggering of vertical joints
- Horizontal/Compression Joints: Wood Framing three stories or more = joint at every floor
- Horizontal/Compression Joints: Metal Framing over three stories/45' = joint about every 25'

- Sealant Joints (Single Flange Sealant Backer) or Inside Corner trim at inside corners
- Horizontally cut edges require face fastening with Spacer
- MIN. Clearances: 6" above soil grade, 2" above hardscape and decking, 1" above roof
- 1/4" clearance between the panel edge and flashings
- Panel Thickness 16mm | 5/8"
- Total Wall System Depth 26mm | 1-1/32" See table for Framing & Sheathing Requirements

WALL TYPES			SHEATHING
Metal Studs	18 gauge min.	16″ o.c. max.	Min. 7/16+" OSB/Plywood 1/2" or 5/8" Gypsum
Wood Studs	2X Lumber	16″ o.c. max.	Min. 7/16+" OSB/Plywood 1/2" or 5/8" Gypsum
Concrete Furring is required	18 ga shaped metal or P.T. 2X Lumber	16″ o.c. max.	N/A
SIPs	Per SIP Standard (sips.org)		
PEMB	24 gauge up to -31.41 PSF 22 gauge up to -39.29 PSF	#10 fastener @12" o.c., wit #10 fastener @12" o.c., wit	th deflection L/120

HORIZONTAL AWP FRAMING & SHEATHING REQUIREMENTS



VERTICAL DESIGN REQUIREMENTS



AWP3030 - VERTICAL

- Ultimate Vertical Starter Track always level and continuous, bearing the dead loads of vertical AWP3030 - no staggering
- Ultimate Clip II JEL778 for all 3030mm panels 4 clips per panel edge | 10mm (~3/8") rain screen
- Vertical Control/Expansion Joints not required
- Horizontal/Compression Joints after each course
- Don't span floors
- Sealant Joints (Single Flange Sealant Backer) or Inside Corner trim at inside corners
- Vertically cut edges require face fastening with Spacer

- MIN. Clearances: 6" above soil grade, 2" over hardscape and decking, 1" over roof
- 1/4" clearance between the panel edge and flashings
- Panel Thickness 16mm | 5/8"
- Total Wall System Depth 26mm | 1-1/32"
- Structural Sheathing Method or Custom Stud/ Furring Spacing Method required for installation
 See table for Framing & Sheathing requirements

WALL TYPES			SHEATHING
Metal Studs	18 gauge min.	16″ o.c. max.	Min. 7/16+" OSB/Plywood
Wood Studs	2X Lumber	16″ o.c. max.	Min. 7/16+" OSB/Plywood
Concrete Furring is required	18 ga shaped metal or P.T. 2X Lumber	17-7/8″ o.c. max plus additional 9″ o.c. Furring at Starter Track	N/A
SIPs	Per SIP Standard (sips.org) and Starter Track		
PEMB	Not intended for this application		





VERTICAL CONTINUOUS INSULATION REQUIREMENTS

Continuous Insulation - refer to Technical Bulletin - AWP and Continuous Insulation and the installation guides

Standard Stud Walls w/ C.I. Shaped metal furring grid - No wood Sheathing

Layer One: Minimum 18 gauge Aligned Vertically Spaced per engineer's design

Layer Two: Minimum 18 gauge Aligned horizontally at 16" OC. Standard Stud Walls w/ C.I. Vertical Furring with Wood Sheathing

Minimum 18 gauge or 2X lumber Aligned vertically at 16" o.c. (max) Additional Layer Min. 7/16" APA Rated Plywood/OSB

Horizontal Furring

Horizontal furring can be used as a direct attachment. The Furring must be metal and 18 ga spaced ay 16" OC. If Z furring is used at the starter track a hat channel will be needed. No wood furring allowed.

Specialty 3rd Party Systems

CL Talon ™ SmartCl Green Girt Custom Engineered Options*

*Nail Based Insulation Sheathing: Additional furring segments, blocking may be necessary for Vertical Starter Track fastening (max. 9" o.c.)

*Contact Nichiha Technical Department



TECHNICAL

STANDARD REQUIREMENTS

Let's start with the basics. Each of the following criteria must be met in order for Nichiha Architectural Wall Panels to perform as intended.

- Refer to Intertek CCRR-0299 (make the ccrr text a hyperlink to document) for product building code compliance certification as well as wind load engineering requirements.
- Continuous Insulation refer to <u>Technical Bulletin -</u> <u>AWP and Continuous Insulation</u> and the <u>installation</u> <u>guides</u>
- Vapor Permeable Weather Resistive Barriers required over stud walls and SIPs. CMU/concrete - defer to local code. Sheathings and C.I. with integrated code compliant WRB are acceptable
- Flashing/Furring/Corners/Trim See install guide for various options
- Minimum Clearances a minimum of 6" above soil grade, 2" above hard surfaces, 1" above roofing, or per local building codes
- Single Flange Sealant Backers at inside corners, along window & door jambs and transition points with other cladding
- Double Flange Sealant Backers Vertical Control/ Expansion joints, Non-90-Degree Corners and at

ADDITIONAL REQUIREMENTS

- Structural Insulating Panels (SIPs)
- Nail-base insulation sheathings
- Continuous Insulation (C.I.) greater than one inch in thickness
- Insulated Concrete Forms (ICFs) require additional measures.
- Retrofits and atypical applications

APPROVED

All require a technical review by Nichiha to evaluate feasibility via our Technical Design Review (TDR) proceeding Copy Submission of a TDR does not imply or guarantee project approval.



Nichiha Corners

- Sealants refer to <u>Technical Bulletin Sealants</u>
- 10mm Spacer required at all face fastening locations
- Face fastening every 12-16" o.c. to framing/furring spaced min. 1" distance from the panel edge
- Fasteners must penetrate: Wood Studs a min. 1", Metal Studs a min. 1/2" with three threads needed for grab
- Fasteners must be stainless steel or corrosion resistant: such as, hot dipped zinc or ceramic coated pan, wafer, or hex head required for clip and track fastening
- Equipment/Mechanical Screens must be fully enclosed wall system
- Soffit applications limited to install guide parameters and are not covered by warranty

Reviewed for Code Compliance Signed __Wfreet Date _____ Permit # _____ TECHNICAL DESIGN REVIEWS

If your project meets any of the criteria listed below, or you simply wish to take advantage of the service, your Nichiha Sales Representative can connect you to Technical Department staff for a Technical Design Review. It's our way of assuring that your project will be implemented without the slightest hitch. Refer to <u>nichiha.com/</u>

- Any project of more than three stories or 45 feet
- Those located in high wind coastal areas (Exposure Categories C and D with Basic Wind Speed in excess of 130 mph (Vult))
- Those with any wall assembly not described in the *Framing & Sheathing Requirements*
- Continuous Insulation projects (thicker than 1")

For Vertical Panels: do not span floors with panels. Place compression joints at each floor line. No

site (Installation on site is allowed)

staggering of joints



Even the power of possibilities has limitations. If your project includes any of the following attributes, contact Nichiha Technical Services for clarification and advice. Refer also to <u>nichiha.com/resources/technical-bulletins</u>.

- No Radius/Curved Walls, Sloped/Tilted Walls
- No existing or new masonry w/o furring
- No remodels over hard coat & synthetic stucco/ EIFS
- No Pre Engineered Metal Building retrofits. New construction only with horizontal installation, no vertical installation allowed
- Do not use AWP on open screen walls
- Do not cut panels to less than 4" in width or length
- Do not use AWP on modular structures that are factory-constructed and then transported to a final

For complete offerings of AutoCAD and Revit details visit nichiha.com/architectural-details

For Installation hardware, accessories and full installation requirements/details visit: <u>nichiha.com/resource-</u> <u>center</u>

THE POWER OF POSSIBILITIES AND PARTNERSHIPS

The way we see it, we're in this together. Our mutual success is the only real success. If you have questions or concerns let your Nichiha Sales Representative know and they'll do everything they can to keep your project moving in the right direction... up.

If you're not sure who your local sales representative is, visit nichiha.com/rep and we'll direct you to the representative closest to you.



Silica Dust Warning: NICHIHA products may contain some amounts of crystalline silica [a.k.a. sand, silicon dioxide], which is a naturally occurring mineral. The amount will vary from product to product. Inhalation of crystalline silica into the lungs and repeated exposure to silica can cause health disorders, such as silicosis, lung cancer, or death depending upon various factors. To be conservative, Nichiha recommends that whenever cutting, sawing, sanding, sniping or abrading the product, users observe Safety Instructions. For further information or questions, please consult the SDS, your employer, or visit www.osha.gov/SLTC/silicacrystalline/index.html and www.cdc.gov/niosh/topics/silica. The MSDS for Nichiha products are available at www.nichiha.com, at your local Nichiha dealer or through Nichiha directly at 1.866.424.4421. FAILURE TO ADHERE TO OUR WARN-INGS, SDS, AND OTHER INSTRUCTION MAY LEAD TO SERIOUS PERSONAL INJURY OR DEATH.

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ARCHITECTURAL WALL PANELS | AWP1818, AWP3030 | MARCH



AWP1818, AWP3030 HORIZONTAL INSTALLATION GUIDE

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GENERAL

This guide is intended to enable successful installation of Nichiha's 1818mm and 3030mm Architectural Wall Panels (AWP 1818, AWP 3030) in a horizontal orientation. Spanish and French versions are available. Further installation information and technical resources such as animated instructional videos, Technical Bulletins, three-part specifications, product testing and certifications, architectural details in AutoCAD, Revit, and PDF versions, and other technical documents are available on our website: <u>nichiha.com/resource-center</u>.

Install products in accordance with the latest installation guidelines and all applicable building codes and other laws, rules, regulations, and ordinances. Review all installation instructions and other applicable product documents before installation. *This install guide's effective date is March 2021.*

PRODUCT INSPECTION

Inspect all products thoroughly prior to installation. Do not install any product which may have been damaged in shipment or appears to have a damaged or irregular finish. Should you have a question or problem with your order, contact your local dealer or Nichiha Customer Service, toll-free, at 1.866.424.4421. Keep the products dry prior to installation. It is best to store the products indoors, otherwise keep them covered. Do not stack pallets more than two high.



BASICS OF THE AWP SYSTEM

The are two sizes of Nichiha panels: AWP 1818 and AWP 3030. There are unique aspects to both sizes. When installing either size, be sure to follow the dedicated instructions specific to them in this guide, distinguished by a color code and page headers/ footers. The bulk of this guide is non-coded and applicable to all AWP.

AWP 1818 metric dimensions (in millimeters) are 455 (h) x 1,818 (l) x 16, 18, or 21 (t). Imperial equivalents (in inches) are 17-7/8 (h) x 71-9/16 (l) x 5/8, 3/4 or 7/8 (t).

AWP 1818 edges are shiplapped on all sides and a factory sealant gasket is included on the top and right edges. When the panels fit together, all factory joints are sealed. This enables stacked or staggered panel layouts for AWP 1818. Joint Tab Attachments are required at vertical joints. AWP 1818 must be installed horizontally.

AWP 3030 metric dimensions (in millimeters) are 455 (h) x 3,030 (l) x 16 (t). Imperial equivalents (in inches) are 17-7/8 (h) x 119-5/16 (l) x 5/8 (t).

AWP 3030 edges are shiplapped only on the top and bottom, with the top edge including a sealant gasket. Vertical edges for AWP 3030 are flat, requiring sealant backers or metal trim and allowing only a stacked layout. The flat, vertical edges are never butted directly together, nor staggered. AWP 3030 may be installed horizontally or vertically.

Refer also to Compatibility Between Panel Types on page 14 and the AWP 3030 Vertical Install Guide.

AWP ATTACHMENT HARDWARE

Ultimate Clips and Starter Track engage the top and/or bottom panel edges, holding the panels off the substrate surface by 10mm (~3/8") and creating a closed-joint, drained/back-ventilated rainscreen system with concealed fastening.

SYSTEM THICKNESS

For the overall thickness of the AWP system, add the 10mm rainscreen channel to the thickness of the panel (16, 18, or 21mm) for a total system depth of 26, 28, or 31mm.



LIMITATIONS, TECHNICAL REVIEWS & SPECIAL APPLICATIONS

Natural limitations on product usage are inherent to any cladding product's design, physical characteristics, and attachment system. Nichiha AWP are intended as a low-to-mid-rise cladding product.

Any project of more than three stories or 45 feet (13.7m), as well as those located in high wind coastal areas (Exposure Categories C and D with Basic Wind Speed in excess of 130 mph), or those with any wall assembly not described in *Framing & Sheathing Requirements*, require a technical review by Nichiha to evaluate feasibility via our Technical Design Review process.

By evaluating a project's unique criteria and design, we can reference independently test-derived and calculated wind load performance data for our products to determine whether and how the panels can safely be installed on the project. Contact your local rep or Nichiha technical department for details or to initiate a Technical Design Review.

AWP are not to be used in any applications/uses not specified or described in this installation guide or other Nichiha technical documents. Any such use shall not be backed by the manufacturer's product warranty.

Do not use AWP on open screen walls.

Insulated Concrete Forms (ICFs) require <u>additional</u> <u>measures</u>.

Installation of AWP products on modular structures that are factory-constructed and then transported to a final site are not approved without full technical review; and further, excluded from the Limited Product Warranty, per Section 2.F.

For all applications in this guide, AWP shall be installed horizontally - level and perpendicular to wall framing.

If in doubt, please contact Nichiha Technical Services for assistance.

SAFETY

As with any natural stone, masonry, or concrete based product, when cutting, drilling, sawing, sanding, or abrading fiber cement cladding, proper safety measures must be taken due to the potential for airborne silica dust, an OSHA-identified hazardous substance that can pose serious medical risks.

Always wear safety glasses and a NIOSH/OSHA approved respirator with a rating of N, O, or P 100. Carefully follow the respirator manufacturer's instructions as well as applicable governmental safety regulations concerning silica. Refer to Nichiha's SDS for more information.

Always cut fiber cement panels outside and with a dust-collecting HEPA vacuum system. Do not cut the products in an enclosed area.

Use a dust-reducing circular saw with diamond-tipped or carbide-tipped fiber cement saw blades.

Always clean panels after cutting. Fiber cement dust can potentially bind to the panel finish. HEPA vacuuming is best, with care taken not to damage the panel finish.



FRAMING & SHEATHING REQUIREMENTS

Prior to Nichiha installation, closely inspect the exterior wall substrate and correct any problems. Walls that are out of plumb, for example, can negatively impact the installation quality of AWP. Nichiha Spacer may be used in conjunction with panel attachment hardware if necessary to ensure an even substrate.

Nichiha AWP cladding may be installed on flat walls only. No curved surfaces. Refer to pages 38-41 concerning soffits and forward-leaning (non-vertical) applications. Wood or steel framing, concrete/ masonry with furring, Structural Insulating Panels (SIP), and pre-engineered metal buildings (PEMB) must meet the following requirements:

Refer to our third party building code certifications and/or state and local approvals for allowable wind design pressures: <u>nichiha.com/resource-center</u>.

WOOD STUDS

Size: minimum 2x4 studs Spacing: 16" (406mm) o.c. max Sheathing: exterior grade minimum 7/16" (11mm) plywood/OSB (APA rated), ½" (13mm) or 5/8" (16mm) gypsum

METAL STUDS

Gauge: minimum 18 Spacing: 16" (406mm) o.c max Sheathing: exterior grade minimum 7/16" (11mm) plywood/OSB (APA rated), (13mm) or 5/8" (16mm) gypsum

CONCRETE/MASONRY

Furring is required for installation of AWP over concrete and masonry structures.

Wood Furring: pressure treated lumber 2x4, oriented vertically, spaced 16" (406mm) o.c. max

Metal Furring: hat channel, c-stud, or z-furring, minimum 18 gauge, oriented vertically, spaced 16" o.c. (406mm) max.

STRUCTURAL INSULATING PANELS (SIP) AND STRUCTURAL INSULATED SHEATHING (NAILBASE)

SIPs should be constructed in accordance with the manufacturer's instructions and local building codes.

The horizontal framing elements of SIPs allow for Starter Tracks and face fasteners to be secured to solid framing.

Install *nailbase sheathing* in accordance with the manufacturer instructions and load tables. AWP installation specifics over nailbase insulated sheathings depend upon the nailbase type and thickness.

Contact the Technical Department for assistance with these substrates.

PRE-ENGINEERED METAL BUILDINGS (PEMB)

Metal buildings must be new construction. No direct retrofits/remodels.

Limit the metal siding/skin deflection to L/120.



50 ksi metal panels must have ribs spaced no more than 12" (305mm) o.c. with metal gauge determined by allowable wind design pressures:

Projects with allowable design pressures in excess of the table values may not utilize AWP directly over PEMB metal panels.

METAL PANEL GAUGE	ALLOWABLE PRESSURE
24 gauge	-31.41 psf
22 gauge	-39.29 psf

Additional special installation requirements for PEMBs are discussed in the Fasteners, Installing the Starter Track, and Panel Installation sections to follow.



CONTINUOUS INSULATION

Where exterior/continuous insulation is used, *horizontal* AWP may be installed directly over up to 1" (25mm) of foam plastic insulation on wood or gypsum sheathing. For such applications, a minimum compressive strength of 25 psi insulation is highly recommended. Thicker insulations require a structural solution to provide attachment points for AWP such as a furring grid or third-party specialized system. Mineral wool c.i. of any thickness requires a furring.

Also refer to the Technical Bulletin: Continuous Insulation and AWP as well as the architectural details available at <u>nichiha.com/resource-center.</u> Please contact Nichiha Technical Services for further assistance.

AWP OVER C.I. ATTACHMENT REQUIREMENTS

When adding furring* to enable AWP installation over c.i., the following general criteria are applicable:

AWP-1818 and AWP-3030 Horizontal Applications

- 1. Shaped metal furrings (Z, hat channel, C, etc.)
 - Minimum 18 gauge
 - Aligned vertically
 - Spaced 16" (406mm) o.c. (max)
- or -
- 2. Pressure treated lumber (Do not use strips of wood sheathing as furring.)
 - Minimum 2x (1.5") thickness
 - Aligned vertically
 - Spaced 16" (406mm) o.c. (max)
- or -
- A combination of horizontal (spaced per engineer's design) with a second, outermost layer of vertical furring (16" (406mm) o.c.)

*Consult a structural engineer to design the furring system to manage the AWP system dead load of minimum 5 psf and also meet the project wind load design criteria. Furring must account for expected building compression. Nichiha does not provide fastener design for anchoring the furring to structure. Refer to IBC 2015 Table 2603.12.2 for more info.



Section view: AWP System on vertical furring



ACCESSORY ATTACHMENTS

Nichiha Double and Single Flange Sealant Backers and metal trims, such as H-Mold and Corner Key, must be fastened to furring, blocking, or 18 gauge flat stock/brake metal. Sealant backers must be fastened every 12-14" (305-356mm) vertically, so any use of flat stock must accommodate this fastening schedule.

Outside corners may be wrapped with 18 gauge flat stock fabricated to fit the corner. Attach the stock to furring on both sides of the corner. Corner Clips are used to secure Nichiha factory panel Corners and may be fastened to the flat stock wrapping, as can metal trim corners.

IBC 2015 TABLE 2603.12.2

The model building code for 2015 includes information in Chapter 26 about foam plastic insulation/sheathing and furring minimum fastening requirements. Table 2603.12.2 shows various configurations depending upon framing gauge and spacing, fastener size and spacing, thickness of insulation and cladding weight. As an example, according to the table, 3 inches (76mm) is the maximum thickness of foam sheathing on which a furring can be added directly on top, spaced at 16" (406mm) o.c. and fastened with #8 screws every 12"-16" (305-406mm) (into 18 gauge wall framing), that can support a cladding weight of 3 psf.

ENERGY CODE FRIENDLY MARKET OPTIONS

A number of engineered third party systems exist that are designed to solve the conflicts between energy code compliance and the safe installation of exterior claddings over continuous insulation.

Nichiha has direct experience with these products:

Bracket and rail systems: <u>Cascadia Clips®</u> <u>FERO Cladding Support</u> <u>ISO Clip</u> <u>Knight Wall MFI®</u> <u>CL-TALON®</u> <u>Hunter Xci Ply</u> <u>Knight Wall Cl®</u> and <u>HCI™</u> Systems <u>SMARTci GreenGirts</u>





WEATHER RESISTIVE BARRIERS

A weather resistive barrier (WRB) is required when installing Nichiha panels over stud walls and SIPs. For CMU/concrete and PEMB assemblies, Nichiha defers to local code requirements. Use an approved WRB as defined by the 2015 IBC. Refer to local building codes. Fluid applied WRBs are acceptable.

A permeable WRB is highly recommended when installing Nichiha panels for residential applications.

A permeable WRB is required for all commercial applications.

Sheathings and insulations with an integrated code-compliant WRB such as ZIP System® and DensElement[™] are acceptable.

All openings, corners, and transitions must have appropriate flashing to prevent moisture penetration.

Follow moisture management best practices, WRB manufacturer's guidelines, window manufacturer instructions, and all local building codes. *Nichiha assumes no responsibility for moisture infiltration.*

STORAGE AND HANDLING

AWP are a finished product and care must be taken to protect them against damage prior to and during installation. Panels must be stored flat and kept dry. Ensure panels are completely dry before installing them. Refer to the storage information included on product pallets. Do not stack pallets more than two high.

Panels MUST be carried on edge. Do not carry or lift panels flat. Improper handling may cause cracking or panel damage.

Direct contact between the panels and the ground must be avoided at all times. It is necessary to keep panels clean during installation process.

Cut the panels with the face down.

Always clean panels with a HEPA-filtered vacuum after cutting. *Dust can bind to the finish*.

When sidewalks are poured after AWP installation, take steps to cover/protect panels near grade. Cement dried on AWP cannot be removed.



Always cover pallets with a breathable tarp or store indoors!





Don't unpackage and re-stack panels! Always carry panels on edge!



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FASTENERS

Fasteners must be corrosion resistant. Stainless steel or corrosion resistant screws such as hot-dipped zinc or ceramic coated are recommended. Comply with all local building codes for fastener requirements.

Number 10, pan-head screws (HD .365" (9.3mm)) were used as clip fasteners for AWP wind load testing. The minimum size for Ultimate Clip, Starter Track fasteners is #8. Clip and track screws must have a pan, wafer, or hex type full head.

Min. Number 7 or larger screws with a bugle or flat head (min. head diameter 0.255" (6.5mm)) are appropriate for face fastening locations. Fasteners must penetrate framing or furring per the minimum requirements below. Refer to the *Face Fastening Best Practices* section on page 17 for face fastening procedure.

WOOD STUDS

Fasteners must penetrate solid structure by a minimum of 1" (25mm).

METAL STUDS

Screws must penetrate solid structure by a minimum of 1/2" (13mm). Three threads are needed for effective grab.

CONCRETE/ MASONRY

Furring to Masonry: Fastener type, size, and spacing to be determined under direction of an engineer and in accordance with local building codes.

AWP to Furring: Screws must penetrate wood furring a minimum of 1" (25mm) or steel by $\frac{1}{2}$ " (13mm).

STRUCTURAL INSULATING PANELS (SIP) STRUCTURAL INSULATED SHEATHING (NAILBASE)

Min. one inch (25mm), full-thread, corrosion resistant wood screws must be used for Ultimate Clips. Longer screws accomodating mininum stud penetrations may be needed for Starter Track and face fastening.

SIPs: Fasten Starter Track every 16" (406mm) max to the sill plate.

Nailbase: Fasten Starter Track every 16" (406mm) into framing with longer screws or every 12" (305mm) max to the wood sheathing (nailbase) alone.

Double fastening per each Ultimate Clip (minimum of 4 screws per clip) is required as there are fewer or no studs to secure the system. Additional screws may be needed in high wind locations. Contact the Technical Department for guidance.

Face fasteners below windows and at the top of the wall are secured at 16" (406mm) o.c. max. to the framing at such locations.

PRE-ENGINEERED METAL BUILDINGS (PEMB)

The PEMB wind load/panel gauge table (see *Framing & Sheathing Requirements*) is contingent upon use of #10-16 x 1" (25mm) pan head, S/D screws.

Fasteners must be spaced at no more than 12" (305mm) o.c. into metal panel ribs.







INSTALLATION HARDWARE & ACCESSORIES



ULTIMATE HORIZONTAL STARTER TRACK

Horizontal Starter Track serves as the foundational support for the AWP system while also providing faster and greater ease of installation.

Horizontal Panels: Starter Track FA 700



ULTIMATE CLIP II

Ultimate Clips sit on the panel shiplaps, securing AWP to the wall and distributing dead loads to the structure. Together, Ultimate Clips and Starter Track hold the back surface of the panels off the substrate to create a 10mm (3/8") rainscreen space.



JEL 778 CLIP Compatible with all AWP (except SandStone and VintageBrick)

JEL 788 CLIP Compatible only with SandStone and VintageBrick

Joint Tab Attachments are included with Ultimate Clips and must be secured within a clip at the bottom of *each AWP 1818 vertical joint* to support panel lateral stability. Fasteners are included for use with the Joint Attachments only.



CORNER CLIP

Corner Clips sit on the shiplaps of Nichiha Corners, securing them to the wall and supporting their weight in cooperation with Starter Track.

JE 777C Compatible with all AWP Corners (except SandStone, VintageBrick)

JE 787C Compatible with SandStone, VintageBrick Corners

CORRUGATED SPACER

At termination points where Panel Clips cannot be used, Nichiha Corrugated Spacer is required to maintain the rainscreen space and prevent panel deflection at face fastening locations such as window sills and headers.

FS 1010 SPACER - 10mm

FS 1005 SPACER - 5mm

NICHIHA CORNERS

Nichiha Corners are manufactured mitered panel corners available in the same ishes as horizontally oriented AWP. Corners have 3-1/2" (89mm) returns (face dim OB COPY Corners are not available for Miraia panels.

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SEALANT BACKERS

Nichiha Sealant Backers provide exact spacing for expansion and termination joints and the recommended depth of sealant (75-80%).

They provide faster installation than a foam backer rod and require less sealant. At sealant joints, use a sealant that complies with ASTM C920, Class 35 (min.). Refer to the *Sealant* section on page 19 for more information.

Single Flange Sealant Backer: FHK 1015 – 10 mm Double Flange Sealant Backer: FH 1015 – 10 mm



METAL TRIM OPTIONS

Nichiha metal trim provides aesthetically pleasing design options for corners, openings, and transitions, as well as vertical joints.

TRIM**	APPLICATIONS
Corner Key	Outside Corners
H-Mold	Vertical Joints - AWP 3030
Open Outside Corner	Outside Corners
J-Mold	Terminations
Inside Corner	Inside Corners

** Be sure to order and use trim channels sized to the appropiate AWP thickness.





ESSENTIAL FLASHING SYSTEM

APPLICATIONS

Starter*	Base/Clearance Concealment
Compression Joint	Horizontal/Compression Joints
Overhang*	Fascia-to-Soffit Transitions

* Inside and outside corner segments are available.



GENERAL PANEL & ACCESSORY BASICS

All trim, Single and Double Flange Sealant Backer should be installed before panels. Refer to *Inside Corners, Doors, & Windows* and *Vertical Expansion Joints* sections respectively.

PANEL SELECTION

Nichiha AWP are packaged with two panels in a pack, which are placed on pallets consisting of two stacks. Due to alternating patterns of texture and color between individual panels as well as how the panels are manufactured and packaged, it is best to install all panels from each individual stack before taking and installing panels from the second stack on the same pallet. Do not alternate installing from one stack and the second, which may result in undesirable patterns.

SEALING CUT PANEL EDGES

When cutting AWP, it is best to cut with the panel face down, except when cutting brick finish panels as it is easier to follow the simulated mortar lines on their face.

Cut and exposed panel edges must be primed or sealed with fiber cement sealer (e.g. DryLock®) or latex paint such as Kilz Premium® or Kilz Max®. Do not use Color Xpressions touch up paint for edge sealing as there will not be sufficient supply for larger projects. *Be sure to clean panels with a clean, dry soft cloth or HEPA vacuuming after cutting to prevent dust from bonding to the finish.*



PLANNING & PANEL LAYOUT

To ensure a successful installation, it is important to first plan how the panels will be laid out, where compression and control joints will be located, and line of sight regarding inside corners decided. Refer to *Compatibility Between Panel Types* on page 18 for additional product relationship information.

Reminder: AWP actual dimensions are metric: 455mm (h) x 1,818mm or 3030mm (l). Imperial equivalents: 17-7/8" (h) x 71-9/16" or 119-5/16" (l).

LAYOUTS

AWP 1818 can be installed in a stacked bond or a staggered bond application. Refer to the illustrations on Page 22. AWP 3030 must only be installed with a stacked bond layout. *AWP 3030 may not be staggered.* See the layout illustration on page 26.

VERTICAL CONTROL/EXPANSION JOINTS (PAGE 23)

10mm (3/8") sealant joints account for thermal expansion in the lateral dimension. These are often, where possible, aligned with window or door jambs, downspouts, or other features in order to minimize their appearance. Depending on sheathing type, additional framing, furring, or blocking may be required.

HORIZONTAL/COMPRESSION JOINTS (PAGE 27)

Minimum ½" (13mm) horizontal, flashed break detail to allow for building compression at floor lines.

INSIDE CORNER LINE OF SIGHT (PAGE 28)

Sealant joints at inside corners can be placed out of view from the primary line of sight of a wall. Place the sealant joint on the less-viewed corner wall. Alternatively, Inside Corner metal trim may be used.

CUT PANELS

In general, it is best to avoid cutting AWP to short or narrow strips and segments of less than 9" (229mm). The hard minimum width or height is 4" (102mm). Adjust the layout or use alternate materials when needed to avoid cutting AWP smaller than 4" (102mm).

Specifically, when an individual panel is wider than a window or other opening and is used over the head or under the sill, do not cut it to less than 9" (229mm) in height. (image A)

When an opening is wider than an individual panel and two or more are needed to cap over the header or cup the sill, do not cut the panel to less than 4" (102mm) in height. (image B)



COMPATIBILITY BETWEEN PANEL TYPES

NICHIHA AWP 1818 VERSUS AWP 3030

AWP 1818 have shiplap edges on all four sides and the panels joint directly with each other. The vertical joints may be aligned or staggered with each course. Because of their shape, AWP 1818 can only be installed horizontally.

AWP 3030 have shiplap edges only on the long dimension (3030mm (119-5/16")). The short edges (455mm (17-7/8")) are square cut. This enables a vertical installation option for AWP 3030 with a different Starter Track (FA710T). However, it also requires all vertical joints to align when the panels are installed horizontally. This means an AWP 3030 layout can *only* be stacked. The vertical joints must use the Double Flange Sealant Backer with sealant or H-Mold Trim.

The difference of the vertical edge jointing means AWP 1818 and AWP 3030 can only be matched directly together in a mixed arrangement on walls 10 feet or less in width so that AWP3030 will not require any vertical joints. (Elevation A)

On walls wider than 10 feet (3048mm), the two sizes can be used togeteher with AWP 3030 grouped **below** the AWP 1818 or separated as like groups via vertical trim or sealant backer joints. They can be fitted directly together at horizontal joints only. Vertical edges are not compatible and a trim or sealant backer is required. (Elevation B)

AWP 1818 THICKNESSES

SandStone and VintageBrick (18mm) require use of the JEL788 Ultimate Clip, which accounts for a thicker panel edge. All other panels, including Novenary Tile (21mm) and RiftSawn (18mm) are designed with edges compatible with the JEL778 Ultimate Clip. Because of the difference in edge thicknesses and required clips, SandStone and VintageBrick cannot be jointed directly with any other AWP profiles. These two panels must be separated from all other panel types by Horizontal/ Compression Joints and Vertical Control/Expansion Joints.

Novenary Tile (21mm) panels joint normally with any 16mm-thick AWP 1818 on all four sides.



A) 16mm & 21mm AWP 1818 and AWP 3030 mixed on walls ten feet or less in width.



B) 16mm & 21mm AWP 1818 and AWP 3030 together on walls wider than ten feet. 1818's grouped on top with 3030's below only.

AWP1818 JOINT PROFILES

V-Groove: Architectural Block, Illumination 1818

Split V-Groove: TuffBlock, EmpireBlock, IndustrialBlock

Soft U: Illumination 3030

Implications: Illumination 3030 meeting Illumination 1818 or ArchitecturalBlock at a corner will result in different neighboring joint aesthetics. The same is true where TuffBlock may neighbor Illumination 1818 or ArchitecturalBlock.





These are joint profiles for Illumination 1818 or Archiver Tible Block (left) with a V-Groove joint versus TuffBlock (right) with Solit-V-Groove.

CUTTING ULTIMATE CLIPS

JEL778/788 Panel Clips are 26" (660mm) long. Where full length clips can be used, they are required. However, there may be conditions where clips must be cut to accommodate panels or corner pieces in smaller areas or segments such as narrow columns, pilasters, or insets, recessed openings, or small areas between windows.

Notches on the upward panel engagement flanges indicate where clips can be cut evenly into thirds. These 1/3 segments can be further reduced evenly into two or four pieces each with weep holes serving as dividing points. The smallest segment must include at least one downward panel engagement flange. Always use the widest clip segment possible.



Cut with a non-ferrous saw blade on a band or chop saw.

FACE FASTENING BEST PRACTICES

To minimize the appearance of face fasteners, utilize the following steps:

Apply low adhesive tape such as painters tape to the panel at face fastening locations.

Pre-drill panels 1" (25mm) from the cut edge to be face fastened. Use a countersink drill bit with chamfer matching the head diameter of the buglehead type screws to be used for face fastening.

Fill counter-sunk fastener holes with an exterior patching compound, such as MH Ready Patch[®] and later dab touch-up paint with cotton swabs or an artist brush.

Remove the painter's tape only after applying the patch and touch up paint.





SEALANT

Sealants to be used with AWP must match the following requirements:

- Comply with ASTM C920
- Have a Class of 35, 50, or 100/50 (minimum 35% joint movement)
- Be a polyurethane, polyurethane hybrid, or Adfast Adseal 4580
- Provide two-sided adhesion at joints (Nichiha sealant backers are light gauge steel with galvalume and fluorine coatings.)

OSI[®] QUAD[®] may not be used for Nichiha expansion joints because it is a class 25 product.

• QUAD[®] MAX is acceptable since it is a Class 50

Refer to the Technical Bulletin: *Sealants* available at <u>Nichiha.com/resource-center</u>.

SEALANT JOINTS/CAULKING

Fasten Single Flange Sealant Backers at inside corners (one wall at corner), along window and door jambs, and transition points with other cladding. Fasten to framing, blocking or plywood/OSB sheathing at 12-14" (305-356mm) o.c. with the 3/8" (10mm) bump/sealant portion butting the corner or jamb.

Sealant complying with ASTM C920, Class 35 (min.) is required where Single and/or Double Flange Sealant Backer is used.

Refer to the sealant manufacturer's instructions or requirements.

1. Place low-adhesive tape (masking or painter's) over the panel along the areas requiring sealant joints for a clean caulk line.

2. Fill the gap between the panels with a colormatched/coordinating sealant which complies with the ASTM C920, Class 35 (min.) standard. Nichiha Sealant Backers allow for the proper depth of sealant (75-80%).

3. Before removing tape, press the surface of the sealant with a caulk spatula or similar tool to ensure an even surface.

4. Remove masking tape before sealant cures. If excess sealant adheres to panel, remove completely using a putty knife or soft cloth.





STARTER TRACK:

INSTALLING THE HORIZONTAL ULTIMATE STARTER TRACK - ALL APPLICATIONS

MINIMUM CLEARANCES

The Horizontal Ultimate Starter Track must be level and positioned to enable a minimum panel clearance of 6" (152mm) above finished soil grade or per local building codes (*the National Building Code of Canada requires minimum 200mm clearance*). Use a laser level to verify. When installing over a hard surface such as driveways or sidewalks, a 2" (51mm) panel edge clearance is acceptable.

Keep AWP at least 1" (25mm) above steep slope roofs. Otherwise, follow roofing manufacturer instructions and water management best practices.

The AWP bottom face edge will extend $\frac{34}{7}$ (18mm) below the Starter Track.

Essential Starter Flashing may be installed prior to the Starter Track to conceal the clearance gap above hard scape and decking. Follow the WRB manufacturer instructions or local code with respect to flashing details for waterproofing. Beginning with outside and inside corner segments, fasten the Flashing at each stud location or every 10" (254mm) to sill plate. Fasten Flashing inside and outside corner segments to framing on both sides, keeping at least 1" (25mm) from vertical edges. Main segments will slide into/overlap the corner segments.

Position Flashing and/or Starter Track to leave 1/4" (6mm) clearance between the panel edge and Flashing. This is also true for horizontal transitions to other claddings and finishes.

STARTER TRACK INSTALLATION

The Starter Track must be installed using corrosion resistant screws. Refer to page 9 for fastener specifications.

Locate and mark the studs. Terminate Starter Track 1/2" (13mm) short of inside and outside corners unless metal trim is used. With corner metal trims, terminate the Starter Track within 1/2" (13mm) of the trim's fastening flanges.

WOOD & METAL STUDS OR FURRING

Starter Track must be secured at every stud line. Max. 16" (406mm) o.c.

CONCRETE/MASONRY

When installing over concrete construction, the wall must be furred out with pressure treated lumber or metal hat channel. Starter Track must be secured at each furring location. Max. 16" (406mm) o.c.

STRUCTURAL INSULATING PANELS (SIP)

Secure Starter Track every 16" (406mm) o.c. max. to the sill plate.

PRE-ENGINEERED METAL BUILDINGS (PEMB)

Fasten Starter Track at every metal panel rib at 12" (305mm) o.c. max.

Essential Starter Flashing

Always follow waterproofing best practices with respect to WRBs and metal flashings or trim.



PANELS BELOW STARTER TRACK

When panel layouts necessitate a partial panel at the bottom of the wall, it is best to add the cut panel below the Starter Track course. This also true for sloped grade conditions.

Begin with Starter Track at lowest possible continual level line and install it as directed in this guide. To clad below Starter Track:

Add FS1010 Spacer below the Starter Track and at the termination point at the wall base.

Cut the bottom edge of the partial panel. Insert the top shiplap under the Starter Track. This will form the appearance of a regular horizontal joint with the bottom shiplap of the panel on the Starter Track.

Face fasten the bottom edge of the panel, one inch up from the cut edge. Also face fasten the top edge of this panel as shown in the drawing.



Cut, fill-in panel below Starter Track

SLOPED GRADE & MULTIPLE PANEL COURSES

Below the Starter, if installing more than one course of panels, install the full-sized course up under the Starter and fasten upside-down Panel Clips underneath, with every framing/furring member covered by a clip. It is necessary to pre-drill new fastener holes for clips used upside-down. Face fasten the top edge of the fill-in panel through corrugated Spacer. Keep fasteners 1" (25mm) from panel edges.

Add the next course and fasten upside-down clips unless that panel course is the final/terminal, cut/ scribed one. Face-fasten the bottom/cut course with backing corrugated Spacer.

At outside corners using Nichiha Corners and Corner Clips, the same procedure can be followed. Maintain minimum clearances above grade: 2" (51mm) above hardscape, 6" (152mm) above soil (200mm in Canada). Paint, prime, or otherwise seal all cut, exposed panel edges. Clean panels after cutting with a clean, dry cloth to remove dust.

If installing over a masonry/CMU foundation, furring is required. This should be taken into consideration when planning the depth of the exterior wall and cladding above so that the entire wall will have a uniform depth.



STARTER TRACK ABOVE LARGE OPENINGS

Large openings (full panel width or wider) such as storefront windows or garages should be taken into account with respect to Starter Track placement. Utilize Starter Track above these large openings to best support the weight of the panels above and for ease of installation.

Install Starter Track above the opening with the normal procedure. Also refer to *Window/Door Headers*. Remember AWP are all 17-7/8" (455mm) tall and the bottom shiplapped edges hang below Starter Track by about 3/4" (18mm). Maintain at least 1/4" (6mm) clearance for panel edges above horizontal flashings, storefront frames, trim, etc.

Establish a level line from the bottom of the header Starter Track out to the side on both ends with a laser level.

Use this line to measure down the wall (each side of the large opening) to attach the wall base Starter Track so that the panels will meet at the proper height with respect to the head of the large opening.

Use the Panels Below Starter Track procedure for adding fill-in panels below the wall base Starter Track(s).



Make strategic use of Starter Track above and flanking large openings to course and align horizontal joints of AWP.



Permit # _____

AWP 1818 PANEL INSTALLATION

AWP installation proceeds by working from left to right. Refer to page 9 for fastener specifications.

WOOD, METAL, CONCRETE / MASONRY WITH FURRING

For AWP 1818, trim off the left side ship-lapped edge so the panel will fit against an already installed Inside Corner metal trim, Sealant Backer, or Outside Corner metal trim. If starting at an inside corner, predetermine which wall will include the Single Flange Sealant Backer for an inside corner detail. Consider the location to minimize the visibility of the sealant joint line. Clad the higher visibility wall without the sealant joint first so that the adjoining wall panels can terminate to it with the Single Flange Sealant Backer detail. Or use Inside Corner metal trim.

Set the first panel into the Starter Track and secure the top edge with a Panel Clip, placing the first clip about one inch (25mm) from the left edge of the panel. Fasten the clip at each stud location the clip reaches. Every clip will cover 2-3 studs and must be fastened to each. (**Figure 21-a,b**)

Proceed along the panel to the right, placing another clip 4-5 inches (102-127mm) from the end of the previously installed clip so that the second clip is roughly centered over the panel middle but DO NOT skip any studs. Fasten clips at each stud location.

Place the second panel next to the first, making sure the shiplap joint fits tightly together.

A rubber mallet or block of wood may be used to seat the panels firmly in place and tighten to the left. Do not hammer directly anywhere on the panels as direct contact may cause cracks, gouges, or chipping. (Figure 21c) Place a clip on top of this vertical joint. Vertical joints must be spanned with a clip covering the top edge of where the panels meet. Fasten the clip to each stud it reaches. Do not skip any studs. Each long panel edge should be supported by about 2.5 clips. (Figure 21d)

Verify the first course of panels is level. Large commercial buildings require checking level around the entire building.

Start the second row in the same fashion as the first, but, in addition to the previous steps, add the **Vertical Joint Tab Attachment** against the bottom right hand corner of each panel. The Attachment seats inside the panel clip, with tabs that fit on clip's rainscreen flange. Fasten the Attachment to the panel clip with the provided fastener. (Figure 21e)

Fit panels tightly together on both horizontal and vertical joints, ensuring the panel edges are properly butted together.

Complete the second and remaining non-terminal rows in the same way, with the Vertical Joint Tab Attachments at the base of each vertical joint. Terminal rows such as under *Compression Joints* or at the *Last Course* are covered in subsequent sections of this guide.

Vertical Control/Expansion Joints may be required on walls wider than 30 feet (9.14m). Refer to page 23.

Horizontal/Compression Joints may be required on structures taller than three stories or 45 feet (13.72m). Refer to page 27.







STRUCTURAL INSULATING PANELS (SIP)

In general, the steps mirror those for stud wall applications. However, double fastening per each panel clip (minimum of 4 screws per clip) is required as there are fewer or no studs to secure the system.

There must be about 2.5 clips per AWP 1818 edge, with vertical joints spanned by Panel Clips and the Joint Tab Attachment seated in and fastened to the Panel Clip at the lower right corner of each panel.

PRE-ENGINEERED METAL BUILDINGS (PEMB)

Refer again to general requirements concerning PEMB installations in the *Framing and Sheathing Requirements* section.

With metal panel ribs spaced no more than 12" (305mm) o.c., install AWP in the same manner as with stud wall applications but with Panel Clips fastened to each rib they reach. Screws (#10x1"(25mm)) applied at no more than 12" (305mm) o.c.

There must be about 2.5 clips per AWP 1818 edge, with vertical joints spanned by Panel Clips and the Joint Tab Attachment seated in and fastened to the clip at the lower right corner of each panel.





22 AWP-1818 INSTALLATION

VERTICAL CONTROL/ EXPANSION JOINTS

AWP 1818

When using metal trim outside corners on walls wider than 30 feet (9.14m), Vertical Control/Expansion Joints (Double Flange Sealant Backers) are required within 2-12 feet (610-3,658mm) of both sides of outside corners and then approximately every 30 feet (9.14m) thereafter. Where cut panel edges terminate to trim channels, ensure the edges butt in moderate contact with them.

Projects using Nichiha Corners (see Figures on page 31) satisfy the 2'-12' Rule but still require expansion joints roughly every 30 feet (9.14m) beyond the Corner joints.

For example, a 60-foot (18.3m) wall with two outside corners would require three vertical control joints: one near each outside corner and one towards the center.

Install Double Flange Sealant Backer to butt up against the panels at pre-determined locations and secure the joint to substrate on one side (the right side flange) every 12"-14" (305-356mm) Sealant Backers must be fastened to plywood/ OSB sheathing, framing/furring members (added if necessary to pre-planned joint locations), or blocking. The 17-7/8" (455mm) edges must be cut, fully removing the shiplaps. H-Mold trim may not be used as a *substitute* for required AWP 1818 expansion joints. It may otherwise be used for design and layout purposes. Contact the Technical Department for H-Mold and AWP 1818 questions.

SEALANT APPLICATION (1818 & 3030)

Apply low-adhesive tape along the panel edges at Double Flange joints to protect panel finishes from sealant and for a smoother look when the sealant is applied and tape removed.

Apply ASTM C920, Class 35 (min.) compliant sealant into the expansion joint, starting at the bottom and pushing sealant into the gap.

Follow the contour of the panel edges so that the sealant depth always matches the face edge/depth of the panels.



Add framing/blocking to fasten Sealant Backers as necessary ____

AWP 3030 HORIZONTAL INSTALLATION

AWP installation proceeds by working from left to right. AWP 3030 may only be installed in a stacked bond. Refer to layout illustration on page 26. Refer to page 9 for fastener specifications.

WOOD, METAL, CONCRETE / MASONRY WITH FURRING

For AWP 3030, the left and right panel edges are flat and do not require initial cutting.

The panel will fit against an already installed Inside Corner metal trim, Sealant Backer, or outside corner trim. If starting at an inside corner, predetermine which wall will include the Single Flange Sealant Backer for an inside corner detail. Consider the location to minimize the visibility of the sealant joint line. Clad the higher visibility wall without the sealant joint first so that the adjoining wall panels can terminate to it with the Single Flange Sealant Backer detail. Or utilize Inside Corner metal trim.

Set first panel into the Starter Track and secure the top edge with an Ultimate Clip, placing the first clip about one inch (25mm) from the left edge of the panel. Fasten clip at each stud location the clip reaches. Every clip will cover 2-3 studs and must be fastened to each. (Figure 25a)

Proceed along the panel to the right, placing another clip 3-4 inches (76-102mm) from the end of the previously installed clip. DO NOT skip any studs. Fasten clips at each stud location. Each AWP 3030 long edge must be covered by four clips. (Figure 25b)

Since AWP 3030 do not have shiplaps on their short edges, a control joint or H-Mold trim detail is needed at each vertical joint. *Do not butt vertical edges directly*. The vertical joint is continuous and not split up or staggered. Fasten the Double Flange Sealant Backer at vertical joints between panels. Fasten Sealant Backer on the right side flange every 12-14 inches (305-356mm) to framing, blocking, or plywood/OSB sheathing.

Install the next panel right up to the Double Flange Sealant Backer and secure it with clips at each stud location. The sealant joint is 10mm (3/8") wide. (Figure 25c,d)

Alternatively, H-Mold metal trim can be used at vertical joints for horizontal AWP 3030. This trim, as well as Nichiha Sealant Backer must be fastened to plywood/OSB sheathing, framing, furring, or blocking. Fasten metal trim every 12-16" (305-406mm) in a staggered fashion on alternating flanges.

For H-Mold, leave a no more than a 1/8" (3.2mm) gap between the edge of the panel and the center flange of the trim. (Figure 25e)

Verify the first course of panels is level. Large commercial buildings require checking level around the entire building.

Complete the second and remaining non-terminal rows in the same way. Fit panels tightly together on horizontal joints, ensuring the panel edges are properly butted together. A rubber mallet or block of wood may be used to seat the panels firmly in place and tighten downward.

The Joint Tab Attachments are not used with AWP 3030. Terminal rows such as under Horizontal/ Compression Joints or at the Last Course are discussed in subsequent sections of this guide.








STRUCTURAL INSULATING PANELS (SIP)

In general, the steps mirror those for stud wall applications. However, double fastening per each Panel Clip (minimum of four screws, evenly spaced per clip) is required as there are fewer or no studs to secure the system. There must be four clips per AWP 3030 edge.

PRE-ENGINEERED METAL BUILDINGS (PEMB)

Refer again to general requirements concerning PEMB installations in the Framing and Sheathing Requirements section.

With metal panel ribs spaced no more than 12" (305mm) o.c., install AWP in the same manner as with stud wall applications but with Panel Clips fastened to each rib they reach. Screws (#10 x 1" (25mm)) applied at no more than 12" (305mm) o.c.

There must be four clips per AWP 3030 long edge.

STACKED PANEL LAYOUT ONLY - AWP 3030

AWP 3030 must be installed with continuous vertical joints. No panel staggering is permitted.



Ultimate Horizontal Starter Track -

HORIZONTAL/ COMPRESSION JOINTS

ALL APPLICATIONS

Project designers must account for building compression when planning the cladding layout and incorporate horizontal/compression joints as appropriate. Nichiha is not liable for panel damage due to building compression. In general, Nichiha recommends such joints at each floor level.

With **metal framing** projects of more than three stories or 45 feet (13.7m), add a compression joint approximately every 25 feet (7.62m), located at the floor line(s) nearest this distance.

For wood framing projects of three stories or more, a compression joint is required at each floor.

Locate compression joints at floor lines.

Please contact the Nichiha Technical Department for assistance.

INSTALLING A HORIZONTAL COMPRESSION JOINT

Install Essential Compression Joint Flashing or a heavy gauge z-shaped metal flashing or drip cap over the top edge of the course of panels terminating under the horizontal compression joint location.

Fasten the Flashing at each stud location. Follow relevant WRB manufacturer instructions and local code for moisture management best practices and detailing for flashings.

The top ship-lapped edge of the bottom panel is cut and secured by face fastening (1" (25mm) below panel cut edge) to framing every 16" o.c. (406mm) with 10mm Spacer behind.

Install Starter Track above the flashing such that the next course of panels sit at least 1/2 inch (13mm) above the course below. Remember the bottom ship-lapped edge of panels extend 3/4" (18mm) below the Starter Track, so the Starter will need to be installed at least 1-1/4" (31mm) above the edge of the panel course below the joint.

Check for level.

Continue to install panels according to these guidelines with compression joints at the appropriate elevation(s).



CORNERS & OPENINGS

ALL APPLICATIONS

Appropriate flashing and moisture management best practices must be used to prevent moisture penetration at all inside corners, doors, and windows. Follow moisture management best practices, WRB manufacturer's guidelines, window/ door manufacturer instructions, and all local building codes. Nichiha assumes no responsibility for moisture infiltration.

Nichiha Cut and exposed panel edges must be primed or sealed with fiber cement sealer or paint.

As necessary, add trim, jamb/sill extenders, and/or other flashings at corners, windows, doors, and other openings prior to AWP installation.

INSIDE CORNERS

SINGLE FLANGE SEALANT BACKER

Decide the primary line of sight in order to minimize visibility of the sealant joint.

Install the panel (ship-lapped edges at the joint will need to be cut off) on the front wall (more visible) first. Ensure these panels are butted up in moderate contact to the inside corner wall.

Next, fasten the Single Flange Sealant Backer every 12-14" (305-356mm), onto the side wall, right up against the front wall panel faces.

Install the side wall panel directly against the sealant backer and secure with Panel Clips. Fill space with sealant.

INSIDE CORNER METAL TRIM

Install Nichiha Inside Corner metal trim directly against the inside corner sheathing. Fasten metal trim to corner framing/furring every 12-16" (305-406mm) in a staggered fashion on alternating flanges.

If installing AWP 1818, remove the left/right shiplapped edges, treating the cuts, and install panels normally, butting to the Inside Corner trim in moderate contact.

TRIM BOARDS

Install trim boards at inside corner first and butt the flat panel edges to Single Flange Sealant Backer. Add ASTM C920, Class 35 (min.) compliant sealant to the gap.







Plan view section at an inside corner



Inside Corner Trim



WINDOW SILLS

FACE FASTENING

For recessed windows, add the window manufacturer's sill flashing/extension attachments or other flashing cap where the panels will terminate so that the top edges are covered or capped at the sill.

As needed to match the window width, remove the panel top ship-lapped edge, cutting the panel to the required height to fit below the window sill, leaving a ¼" (6mm) gap between the top of the cut panel edge and the window sill or trim board.

Cut panel edges must be sealed with 100% acrylic latex primer or paint, such as Kilz Premium or Kilz Max. Clean any dust off the panels with a clean, soft, dry cloth or dust-filtered vacuum.

Add FS1010 Corrugated Spacer (10mm) at the sill. Set the panel on the clips of the panel(s) below and position the panel into place to seat properly. Then add the painter's tape per the *Face Fastening Best Practices* section, pre-drill with countersink before face fastening the top, cut edge of the panel at the sill, every 16" (406mm) o.c. max. Keep screws 1" (25mm) below the edge. This will avoid cracking or breaking the panel.

If the top edge of the panel is fully sheltered under the sill, it is not necessary to seal the 1/4" (6mm) gap. For better system performance, Nichiha recommends a vented approach.

J-Mold type trim (installed before AWP) may be used at window sills if AWP can be slid into position from the side(s).



Face fasten the top edge of panels at sills.



Use window manufacturer sill extensions/flashing or brake metal to cap over the panels at recessed sill returns.



WINDOW / DOOR JAMBS

A minimum gap of 1/4" (6mm) is required when butting panels directly into windows, doors, and trim boards. Refer to window/door manufacturer guidelines for spacing trims around openings.

SINGLE FLANGE SEALANT BACKER

Install the Single Flange Sealant Backer first, butting to the door/window jamb or trim pieces prior to installing the panels.

The Single Flange Sealant Backer must be fastened every 12"-14" (305-356mm) to studs, blocking, or structural sheathing.

Cut panels to the appropriate width, at least removing ship-lapped vertical edges. Remember to clean freshly cut panels with a soft, dry cloth or a dust-filtered vacuum.

Install panels and fill the gap with ASTM C920, Class 35 (min.) compliant sealant.

J-MOLD

Pre-install J-Mold trim at window and door jambs prior to AWP. For J-Mold positioning, refer to the window/door manufacturer instructions regarding trim attachments to determine if the J-Mold can be butted directly to the window or door jamb or if a gap is required.

AWP cut vertical edges must fit completely within the J-Mold, leaving no exposed panel edges.

Lastly, add closed-cell foam backer rod and sealant to any gap between the J-mold and jamb, if applicable.

RECESSED JAMBS

At recessed openings, the best option for finishing the jamb returns/recesses is with jamb extension accessories from the window or door manufacturer. The extenders must account for the depth of the return, inclusive of the Nichiha system (1-1.25" (25-31mm)). With these in place, the standard Single Flange Sealant Backer or J-Mold steps can be followed.

BRAKE METAL

Another option at recessed jambs is to use brake metal to cover the return over furring, continuous insulation, or other assembly components that create the recessed window condition. Because of thermal expansion and contraction of AWP, the brake metal must be of a heavier gauge sheet steel (24 or thicker) or equivalent aluminum.

For an L-angle shaped metal, terminate the AWP to a Single Flange Sealant Backer meeting the outward fin, which must extend to just beyond the panel face. Or include a face return flange on the brake metal to form a J-Mold type profile. With a minimum 10mm (3/8") return leg covering the panel edge and face, the sealant joint can be eliminated. Insert the panel edge in moderate contact with the metal.

Single Flange Sealant Backer



Flush window jamb with Sealant Backer



J profile brake metal at a recessed window jamb^{mmt}

NICHIHA CORNERS

Nichiha Corners can be used to wrap recessed window jambs. Corners have returns of 3-1/2" (89mm) (face dimension). Cut the pieces as needed for shallower returns but there must be sufficient depth for use of Corner Clips.

Extend the opening's header and sill flashing to cover the width of the Corner pieces that will flank the opening. Add Single Flange Backer where the Corner will return and meet the recessed opening frame.

Wrap the base of the jamb with cut pieces of Starter Track (or FS1010 Spacer if face fastening). Maintain a min. 1/4" (6mm) clearance above the sill flashing. Install Corner pieces at the jamb using Corner Clips.

Through 10mm Spacer, face fasten shortened Corners under the head flashing. Then add Double Flange Sealant Backers to the sides of the Corners prior to the main panel installation.



Shiplap joint -



Factory outside Corner at a recessed window jamb

WINDOW/DOOR HEADERS

STARTER TRACK

When starting a course of whole panels above a window or door, add flashing and Horizontal Starter Track at the header, installed with fasteners at each framing/furring member or into header framing, every 16" (406mm). Follow the WRB installation instructions with respect to window heads and metal flashings. Refer to *Starter Track Above Large Openings* on page 15.

FACE FASTENING

When adding a cut panel above the opening, install drip edge flashing and 10mm corrugated Spacer first and follow WRB manufacturer installation instructions with respect to window/door heads and metal flashings. Then face fasten panels every 16" (406mm) to the header framing or at each vertical framing/ furring member. Keep fasteners a min. 1" (25mm) from the panel bottom edge(s).

Starter Track over Z-flashing —





Face fasten cut panels through 10mm Spacer at pening heads. Use extenders or brake metal for recessed returns.

OUTSIDE CORNERS

There are several Nichiha recommended outside corner installation options:

- Nichiha Corners
- Metal (Open Outside, Corner Key) and Vinyl Trim
- Fiber Cement and PVC Trim Boards

Appropriate flashing must be used as required to prevent moisture penetration on outside corners.

NICHIHA CORNERS

Install Nichiha Corners prior to panels. Corners may only be used in vertical applications. They may not wrap window heads and sills.

When using Nichiha Corners, terminate the Starter Track 1/2" (13mm) short of both sides of the wall corner. Set a Corner on the Starter Track and secure it with a Corner Clip. Fasten with screws into framing/ structure on both sides of the Corner Clip.

Place the next Corner on top of the first, fitting the ship-lapped edges together over the clips. Secure the top edge in the same manner with a Corner Clip. (Figure A, B)

Continue up the outside corner, stacking and securing the Corner pieces.

The top Corner will be cut to the appropriate height and face fastened over 10mm Spacer.

Add Double Flange Sealant Backer at the Corners on both sides, all the way down from the top of the wall section to the Starter Track. Secure Sealant Backer to structure every 12-14" (305-356mm) on the exposed fastening flanges. (Figure C)

After all the panels have been installed, apply ASTM C920, Class 35 (min.) compliant sealant to the Sealant Backers.







Double Flange Sealant Backer flanking stacked Corners

METAL & VINYL TRIM

Install trim channels, such as Nichiha Corner Key or Open Outside Corner, manufactured by Tamlyn, prior to Starter Track and panels. Fasten trim with corrosion resistant fasteners through the wall mounting flanges every 12-16" (305-406mm) into studs or corner blocking. Stagger the fasteners on alternating sides.

Cut off terminal panels' ship-lapped edges, enabling the cut panel edges to fit fully into the trim channels. Panel edges must not be left exposed. Butt the flat panel edges in moderate contact to the center flange of the trim. With Corner Key trim, this will necessitate miter cutting the panel edges.

Refer to Vertical Control/Expansion Joints.

Nichiha metal trim pieces are each 10 feet (3048mm) in length. To cut metal trim, a non-ferrous carbide miter saw blade is appropriate. When butting/stacking metal trim pieces, add a bead of polyurethane sealant at the seam/joint.

Metal trim can be pre-finished when purchased to match custom Nichiha Color Xpressions panels and some standard panel colors. Otherwise, for field painting metal trim, it is best to purchase Primed trim, which readily accepts a variety of exterior paints. See <u>Tamlyn's XtremeTrim Painting Guide</u>.

FIBER CEMENT & PVC TRIM BOARDS

Nichiha manufactures a full line of fiber cement trim boards - NichiTrim[™], which are available in the Southeast U.S. Refer to <u>Nichiha.com</u> for more information.

When panels are to be butted to fiber cement, wood or other trim pieces, use Nichiha Single Flange Sealant Backer between them.

Apply sealant compliant with ASTM C920, Class 35 (min.).



Corner Key Trim outside corner detail with miter cut panel edges

NON-90-DEGREE CORNERS

Corners other than 90 degrees can be achieved with custom metal trim or with the use of Double Flange Sealant Backer (refer to *Vertical Control/Expansion Joints*) to set cut panel edges at the desired corner angle. Miter cut panel edges as needed to create uniform sealant joints.

The Double Flange Sealant Backer detail can be utilized to accommodate install AWP on segmented, radius-like walls. Do not attempt to curve AWP. Contact the Nichiha Technical Department for assistance.

Flat fiber cement or other trim boards can also be used to facilitate non-90 corners. Miter cut the trim boards to meet and joint at the appropriate angle. AWP can then terminate to the square edges of the trim boards with a J-Mold or Single Flange Sealant Backer and sealant.

Non-90 corner utilizing modified Double Flange Sealant Backer and miter-cut panel edges.

PENETRATIONS & ATTACHMENTS

ALL APPLICATIONS

Openings for small penetrations for pipes or conduits may be cut through a panel and the hole sealed with ASTM C920 compliant sealant. For larger penetrations greater than 1.5" (38mm), it is best to block or frame out the opening. Treat the penetration like a small window.

Along the jambs of the opening install Single Flange Sealant Backer. Cut panel edges as needed to butt to Single Flange Sealant Backer and add recommended sealant.

Underneath the opening block out, install FS1010 Spacer as needed for face fastening the top panel edge at framing locations. Terminate the panel with a ¼" (6mm) gap. Sealant here is optional, depending on the depth of the blocking.

Above the penetration, add flashing and install FS1010 Spacer as needed for face fastening the panel edge at framing locations. Ensure a minimum ¼" (6mm) gap between the bottom of the panel edge and penetration blocking. Keep any face fasteners 1" (25mm) away from panel edges.

If installing railings, signage, or other items directly over AWP, ensure the fasteners are secured through Spacers to the framing or other structural support. Do not fasten any attachment solely to AWP. Further, add a small spacer (up to 10mm) between signage/ attachments and AWP to prevent moisture pooling on top of the attachment and seeping between it and the AWP, becoming trapped.







LAST COURSE

ALL APPLICATIONS

Fasten 10mm Spacer (FS 1010) to the wall where the last panel course will terminate. This is needed to maintain the rainscreen without use of the clips. Cut the panels (horizontally) to properly fit at the termination line. Apply low adhesive/painter's tape to panels at face fastening locations. Pre-drill with countersink 1" (25mm) down from the top (cut) edge. Face fasten at the studs and through the green Spacer (FS 1010) all along the top using bugle head type screws.

Fill counter-sunk fastener holes with exterior patching compound/filler, such as MH Ready Patch[®] and later dab touch-up paint with cotton swabs. Remove the painter's tape.

Cover the top panel row edge with a roof cap/ coping, where applicable.

It is not necessary to seal between AWP and soffit. J-Mold is optional to cap AWP.



GABLES & OVERHANGS

ALL APPLICATIONS

Allow a minimum of 1" (25mm) clearance (as per local building codes) for AWP above a sloped roof line.

At the wall top, cut the panels to follow the slope of the gable roof.

Panels installed along gable edges must be face fastened along the angled edges. All face-fastened panel edges must be shimmed out with FS 1010 Spacer. Use Ultimate Clips wherever possible, positioning them as close to the end of the horizontal/ shiplap edge as space permits. When adding face screws, apply the fasteners at least 1" (25mm) from any panel edge. This will avoid cracking or breaking of the panel. Fasten every 16" (406mm) max.

Seal all cut panel edges with 100% acrylic primer or paint. Do not leave any panel edges exposed. Clean any cut panels to remove dust.

Essential Overhang Flashing may be used at the base of overhangs/bump-outs or porte-cocheres. Alternatively, Essential Compression Joint Flashing may also be used. Keep a minimum clearance of 1/4" (6mm) for the panel edge above flashings. Do not seal this gap. Always follow WRB manufacturer instructions and local code with respect to moisture management best practices for treating and detailing metal through-wall flashings.

Prior to panel installation, fasten Overhang Flashing at each stud location, beginning with corner segments. Main segments will slide under/overlap corner segments.

Use Joint Clip segments to join main segments together. After the first piece is secured, add a Joint Clip, fastening through both it and the first main segment. The next main piece will slide behind the Joint Clip.

Position Overhang Flashing so that its bottom/ return flange overlaps soffit materials. The bottom return portion must extend beyond the face of the fascia substrate. Positioning the flashing too high can deform it from its normal shape. The bottom return should slope away from the soffit as pictured.



ESSENTIAL OVERHANG FLASHING & JOINT CLIP



OUTSIDE CORNER



INSIDE CORNER





SOFFITS & ANGLED (NON-VERTICAL) WALLS

Nichiha Architectural Wall Panels may be used in a soffit application and/or on non-vertical, angled walls (*leaning forward only*) when installed in strict accordance with the following provisions and requirements. Nichiha is not responsible for any actions or defects incurred as a result of incorrect installations using AWP as soffit. Those opting to deviate from these installation procedures incur all responsibility for their actions and any defects that result.

General Requirements

If applicable, remove existing soffit materials and sheathing to accommodate blocking and (required) face fastening detailed in these instructions. Do not install AWP over existing soffit.

Framing spacing must be no greater than 16" (406mm) o.c. Add blocking as needed to enable Ultimate Clip and face fastening of the panels.

Nichiha AWP hardware (clips and tracks) must be used normally for soffit and angled wall panel installations but face fastening is also required at each framing member along the centerline of each panel.

Particularly with angled wall applications, ensure starter track and panels are horizontal/level. Check with a laser level regularly.

Soffit panels are oriented with the long dimension (1818 mm (71-9/16") or 3030 mm (119-5/16")) parallel to the wall and the short panel dimension (455mm (17-7/8")) perpendicular to the wall.

All short-edge (455mm) joints between panels must be factory shiplapped joints (AWP 1818) or H-mold joints (AWP 3030).

Treat all cut panel edges by coating them with exterior acrylic latex paint.

Utilize WRBs as prescribed by local code and/ or manufacturer instructions for under horizontal surfaces.

Do not add attachments directly on AWP used on angled walls.

REQUIRED FASTENERS

ULTIMATE CLIPS AND STARTER TRACK: Refer to and follow *Fasteners* on page 9.

FACE FASTENERS:

Minimum #7 or larger, stainless steel or corrosion-resistant exterior, full-headed screws are required. The length of the screws must enable minimum penetration of 1" into wood or 1/2" into min. 18 gauge steel framing.

PROCEDURES

AWP As SOFFIT

Begin soffit installation by measuring and adding 10mm Spacers to the framing or sheathing where the centerlines of each panel course will occur, accounting for the soffit depth, number of AWP courses, and reduced/cut panels.

At the wall-soffit angle/intersection, there are two options to secure the first edge of AWP:

1. Starter Track: Position the track to allow for the AWP shiplap edge which will extend 3/4" (18mm) past the track. Fasten the track to framing every 16" (406mm), or

2. Remove the panel shiplap and face fasten through 10mm Spacer, keeping screws 1" (25mm) from the panel edge.

If additional courses of panels will be utilized, add Ultimate Clips to the panel edges in the same fashion as normal/vertical wall installation. Fasten Clips to framing every 16" (406mm). Utilize Joint tab attachments for AWP 1818 normally. Ensure panel edges are fully seated within the clips and joints are closed in moderate contact.

Along the centerline of each panel course, face fasten at intermediate framing members (field) every 16" (406mm) o.c.

The terminal edge must be cut and secured via face fasteners through 10mm Spacers. Add screws every 16" (406mm), keeping 1" from the cut edge. J-Mold trim may be utilized with cut panel edges.

Pre-drill the panels at face fastener loca

Soffit vents may be added to or used in the injunction with soffit panels.





Parmit # 20

ANGLED (NON-VERTICAL) WALLS

Angled walls must be pitched forward as shown in Detail Three (away from the interior) - to where the wall to grade angle is less than 90 degrees. Backward leaning walls create roofing-like conditions, greatly accelerating the weathering of AWP.

Begin angled wall installation with typical installation of Starter Track at the wall base, fastening to framing every 16" (406mm) o.c. Ensure the track is level. Check with a laser level.

Measure 7" (183mm) above the *top* of the Starter Track and add 10mm Spacers to the sheathing or furring where the centerline of the first panel course will occur.

Set the first panel on the Starter Track and secure the top shiplap edge with Ultimate Clips in the same manner as vertical wall (standard) installations. Each clip will be fastened to a minimum of two framing members. Add the second panel and span the panel joint with an Ultimate Clip (for AWP 1818 only). AWP 3030 vertical joints must follow the steps on pages 24-25. Continue working normally from left to right and low to high.

Beginning with the second course of panels, utilize the Joint Tab Attachment normally with AWP 1818.

Regularly check for level with a laser to ensure panel courses are horizontal.

Along the centerline of each panel course, face fasten at intermediate framing members (field) every 16" (406mm) o.c. through 10mm Spacer.

The terminal edge must be cut and secured via face fasteners through 10mm Spacer. Add screws every 16" (406mm), keeping 1" from the cut edge.

Pre-drill the panels at face fastener locations with a #6 countersink bit. Refer to and follow *Face Fastening Best Practices*.

Outside Corners: Metal trim corners are strongly recommended.

Reminder: do not add attachments such as light fixtures or signs on AWP on angled walls. Utilize blocked penetrations only.



Only forward-leaning angled walls are acceptable. Face fasten the corrline of panels at intermediate (fiel PPROVED framing members. JOB COPY

> Reviewed for Code Compliance Signed ______ 10162024 Date ______ Permit # _____



(AWP 1818 depicted. Refer to p. 24 for AWP 3030 panel/clip layout and add face fasteners as shown here.)

For terminal course/shortened panels less than 10" (254mm) in height, the center face fasteners are not needed.



CLEANING & MAINTENANCE

ALL APPLICATIONS

CLEANING PANELS

After completion of the installation or for periodic maintenance, it may be necessary to clean panels.

When cleaning panels, use no more than 400 psi of water pressure at 10"-12" (254-305mm) away. Do not pressure wash custom color panels.

To clean heavily soiled areas, a mild household detergent and/or soft bristle brush may be required.

Do not allow any detergent/cleaner to dry on panels. Rinse immediately after cleaning.

REMOVAL OF EXTERIOR ACRYLIC LATEX PAINT

Wet Paint Removal - While the paint is still wet, flush the area with clean water, using mild abrasion with a clean cloth or soft brush.

Semi-Dry Paint Removal - If paint has set, but not dried, flush and clean as above, followed by light scrubbing with alcohol to remove any remaining paint residue. Rinse with water and a clean cloth.

Dry Paint Removal - Please refer to paint-removal guide in the next section.

PAINT TOUCH-UP

It is impossible to fully match the AWP factory finish sheen in the field. It is imperative that the least amount of touch-up paint be applied to AWP as possible.

Touch up paint must be exterior grade 100% acrylic latex and can be color matched by taking a panel sample to your local paint or home improvement store.

A small can of touch-up paint is supplied with your custom color panel order. Do not use for edge coating/sealing for larger projects as there will not be sufficient supply.

Isolate touch-up locations with low-adhesive/painter's tape. Where face fasteners have been used and patched by exterior filler compound, use a cotton swab to lightly dab touch-up paint.

For scratches, use a cotton swab for small ones or a 1" (25mm) foam brush for longer ones. Employ a dabbing motion rather than brushing in order to minimize the amount of paint applied.



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OTHER PAINT & GRAFFITI REMOVAL

The following products have been tested on Nichiha panels to aid in the removal of graffiti type markings.* These citrus-based products can also be used for basic panel cleaning purposes. The panels were sprayed with an indoor/outdoor aerosol spray paint and left to dry overnight, and then the paint removal products were applied following the manufacturer's guidelines.

All products tested achieved good results. However, the outcome may vary depending on the amount of paint that needs to be removed. Be sure to follow all manufacturer's guidelines and first test in an inconspicuous area before working on a larger area.

Do NOT use these cleaners with custom color panels. *Nichiha is not liable for any damage caused by the use of these cleaners.

CITRISTRIP

www.citristrip.com

Products tested: Citristrip Striping Gel - One Quart container Citristrip Stripping Aerosol - 18 oz. spray can

GOOF OFF GRAFFITI REMOVER www.goof-off.com

Products tested: Goof Off Aerosol - 16 oz. spray can Goof Off - 22 oz. trigger spray bottle

TAGAWAY www.tagaway.com

Product tested: Tagaway - 32 oz. trigger spray bottle

REPAIRING MINOR DAMAGE

Isolate the blemish with a low adhesive tape such as painters tape. This will help protect the surrounding area of the panel and aide in creating a more polished, clean repair.

Lightly brush/abrade the surface within the taped off area in order to remove any loose material.

Carefully fill and smooth the resultant prepped area with exterior grade patching compound such as MH Ready Patch[®]. Allow to dry/cure fully.

Gently smooth the patch and then apply touch-up paint to the affected area. Allow touch-up paint to dry and remove the tape.



PANEL REPLACEMENT

ALL APPLICATIONS

Set the depth of a circular saw blade slightly deeper than the panel so the saw blade does not cut into the building wrap or sheathing.

A. Make cuts into the damaged panel and break it into pieces for easier removal of the damaged panel.

B. Remove damaged panel.

C. Use a 10mm Corrugated Spacer and place it behind the new panel at bottom, just above exposed Panel Clips or Starter Track.

D. Cut 3/16" (4mm) off the back ship-lapped edge at bottom of panel.*

E. For AWP 1818, cut the right side ship-lapped edge off the panel.

Prepare to set the new panel in place.

F. Lift panel into place by prying from the bottom upward. Pre-drill and face fasten the panel with a screw into the framing members, 2" (51mm) from panel bottom.

Fill countersunk screw heads with color-matching cementitious patching material. Touch up with exterior grade acrylic latex paint

*If panel to be replaced is at the top course or under a window, cut the top edge of the panel as needed and leave the bottom shiplap intact. Add Spacer at top of uncovered wall space and face fasten the ripped top edge of the replacement panel.























Behind our Architectural Wall Panels is SOME SERIOUS TECHNOLOGY.



EASY INSTALLATION

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NO MORTAR, NO MESS

Pre-finished panels that eliminate the need for messy mortar or costly masonry-skilled labor.



ANY WEATHER PRODUCT

Products that can be installed year round in any climate across the country. No geographical restrictions means more possibilities.

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LOW MAINTENANCE

No-fuss products. Little ongoing cleaning or regular maintenance needed. You get to bring your vision to life and ensure it looks great for a long time.



ENGINEERED FOR PERFORMANCE

Go beyond our durable panels and discover a meticulously engineered moisture management system that provides a vertical drainage point for air and moisture to exit.

THE ULTIMATE CLIP

creates a hidden fastening system that all but eliminates face fastening. Installation is quick and easy and never requires specialty subcontractors.

NICHIHA ARCHITECTURAL WALL PANELS

are lightweight, easy to handle and available in a virtually endless color palette and a diverse offering of textural finishes.



NICHIHA'S JOINT TAB ATTACHMENT is designed to support panel lateral stability, helping vertical joints stay

tightly closed. The tab fits in place easily and is fastened to the Ultimate Clip with provided screw.

DRAINED AND BACK VENTILATED RAINSCREEN

design allows water to escape and air to circulate, reducing the risk of mold and water damage inside the building.

THE ULTIMATE STARTER TRACK

pulls double-duty. It ensures a fast, level installation and its patented drainage channel directs water out from the base of the wall.



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Never underestimate the power of REALLY GOOD TOOLS.

Whether you are an architect, a builder or a contractor, Nichiha wants to ensure that you have all the information you need to make your project go as smoothly as possible. The way we see it, we are partners. Our website offers a comprehensive collection of technical information, installation videos, Architectural details, in-depth specifications and everything you'll ever need to know about installing Nichiha products. You can even schedule a Technical Design Review via <u>nichiha.com/technical-design-review</u>, and our Field Technical Services team can make site visits for installation training and/or preconstruction guidance.



DESIGN REVIEW GUIDE

Download our quick reference guide to get an overview on our Architectural Wall Panels. nichiha.com/resource-center



ARCHITECTURAL DETAILS

Take a closer look and download our conceptual detail drawings.

nichiha.com/architectural-details



INSTALL VIDEOS

Watch our installation instructions come to life — check out our installation videos today! nichiha.com/resource-center/install-support



SUPPORT

Our field and in-house technical teams are here to assist. If you have questions, comments, concerns, or wish to schedule a site visit or pre-con meeting, please all or email us.

1.866.424.4421 or technicalservices@nichiha.com

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RESOURCES 47

THE POWER OF POSSIBILITIES AND PARTNERSHIPS

Your creative vision is unique. That's why Nichiha wants to offer you the power of cooperation to help your project move from conception to completion. Our ever-expanding offering of textures and finishes lift buildings to new and unexpected places and we want to share them with you. We place a high value on our relationships and are proud to work with our dedicated partners across the country. Join us and discover the power of possibilities and partnerships with Nichiha.

NICHIHA WARRANTIES

- ILLUMINATION SERIES PANELS
 15-year limited warranty* on panels,
 15-year limited warranty* on finish.
- ARCHITECTURAL WALL PANELS (Brick, Block, Stone, Wood, Kurastone) 15-year limited warranty* on panels, 15-year limited warranty* on finish.
- METAL TRIM

Tamlyn warrants defective-free products for a period of 10 years for the original purchaser. Please visit tamlyn.com for detailed information on terms, conditions and limitations.

*See Nichiha warranties for detailed information on terms, conditions and limitations. Visit nichiha.com for easy downloadable warranties or call toll-free 1.866.424.4421 for a copy.

Nichiha SDS are available on nichiha.com.

CERTIFICATION & TESTING



Intertek

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12875



CCMC 14366-R

TDI Texas Department of Insurance Report EC-58



Florida Approval

Miami-Dade NOA 18-0522.05



L.A.R.R. 26081



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Continuous Insulation and AWP

General

Nichiha AWP (horizontal) may be installed directly over up to one inch of foam plastic insulation such as polyiso or EPS over wood or gypsum sheathing. Insulation compressive strength of 25 psi or greater is strongly recommended. Continuous insulation (c.i.) thicker than one inch and mineral wool c.i. of any thickness must be paired with a furring or other solution to satisfy the *Framing & Sheathing Requirements* set out in the AWP install guides and is subject to a required Technical Review process. Refer to the guides for complete installation requirements and instructions. This bulletin is not intended to prohibit options or furring combinations not covered herein. Please contact the Technical Department for assistance.

No Thermal Bridges!

The energy code, in its definition of c.i., does not allow for thermal bridges, excluding fasteners, to penetrate through the exterior (or interior) layer of "continuous" insulation. This means that simple z furring is not compliant with the c.i. definition since the metal bridging through the insulation board provides a major pathway for energy transfer, particularly when fastened over metal stud wall framing. This lowers the *effective* value of the insulation layers overall and the building's energy efficiency.

Fasteners are allowed to penetrate continuous insulation, but because the insulation does not provide much, if any, support for fasteners holding up exterior claddings, there are natural limits to "cantilevered fastening." As an example, if you wanted to hang a large painting in your living room, would you rest the frame's wire out on the head of the nail or directly at the drywall? If you think of exterior cladding and c.i., the same forces are at work. You want the weight of the cladding as close to the framing as possible and not out on the ends of the fasteners since the foam is non-structural. Over time the cladding could creep downward if the fasteners begin to succumb to the shear/torquing action.

Designers (rightfully so!) demand more exterior finish choices than just EIFS, so this means cladding options require energy code friendly attachment methods, of which there are many...





Thermal profile without bridging



image credit: SMARTci/AAP



Refer to Nichiha.com/resources for the latest installation guides and technical bulletins as such information is subject to change. Nichiha USA 6465 East Johns Crossing, Suite 250, Johns Creek, GA 30097 Re-Issue Date: 5/13/2019

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Continuous Insulation and AWP



Refer to IBC 2015 Table 2603.12.2 for more info.



Plan view - clip to furring







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Continuous Insulation and AWP

AWP-3030 Vertical Applications

Special attention must be paid to supporting the Vertical Starter Track, which bears the weight of AWP-3030 in vertical applications. <u>The clips do not share the</u> <u>dead loads for vertical panels</u>.

- 1. Shaped metal furrings
 - (Z, hat channel, C, etc.)
 - a. Minimum 18 gauge
 - b. Aligned vertically
 - c. Spaced 16" o.c. (max.)
 - d. Min. 7/16" APA Rated OSB or Plywood
 - or -
- 2. Pressure treated lumber
 - a. Minimum 2x (1.5") thickness
 - b. Aligned vertically
 - c. Spaced 16" o.c. (max.)
 - d. Min. 7/16" APA Rated OSB or Plywood

- or -

- 3. Shaped metal furrings (one layer)
 - a. Minimum 18 gauge
 - b. Aligned vertically at 17-7/8" o.c.
 - c. Additional vertical furring segments at Vertical Starter Track locations to enable 9" o.c. fastener spacing for track (*Figure 3-4*)

- or -

- 4. Shaped metal furrings (two layers)
 - (Z, hat channel, C, etc.)
 - Layer One
 - a. Minimum 18 gauge
 - b. Aligned horizontally
 - c. Spaced per engineer's design
 - Layer Two
 - d. Minimum 18 gauge
 - e. Aligned vertically at 17-7/8" o.c.

f. Additional vertical furring segments at Vertical Starter Track locations to enable 9" o.c. fastener spacing for track (*Figure 3-4*)

- or -
- 5. CL-TALON® 300

a. Base Track and Wall Mount T-Tracks (vertical) at 16" o.c. (aligned with framing), and Therme
Clips spaced per project loading requirements
b. Wall Mount Supports (horizontal) at 16" o.c.



4. Vertical furring at 17-7/8" o.c. over horizontals. Additional vertical segments added to enable 9" o.c. Vertical Starter Track fastening. (Knight HCI[™] System girts shown)



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Continuous Insulation and AWP

Accessory Attachments

Nichiha Double and Single Flange Sealant Backers and metal trims, such as H-Mold and Corner Key, must be fastened to furring, blocking, or 18 gauge flat stock. Sealant backers must be fastened every 12-14" vertically, so any use of flat stock must accomodate this fastening schedule.

Outside corners may be wrapped with 18 gauge flat stock fabricated to fit the corner. Attach the stock to furring on both sides of the corner. Corner Clips are used to secure Nichiha factory panel Corners and can be fastened to the flat stock, as can metal trim corners. (*Figure 1*).



1. Wrapped outside corner with 18 gauge flat stock

IBC 2015 Table 2603.12.2

The model building code for 2015 includes information in Chapter 26 about foam plastic insulation/ sheathing and furring minimum fastening requirements. Table 2603.12.2 shows various configurations depending upon framing gauge and spacing, fastener size and spacing, thickness of insulation and cladding weight. As an example, according to the table, 3 inches is the maximum thickness of foam sheathing on which a furring can be added directly on top, spaced at 16" o.c. and fastened with #8 screws every 12"-16" (into 18 gauge wall framing), that can support a cladding weight of 3 psf.

Energy Code Friendly Market Options

A number of engineered third party systems exist that are designed to solve the conflicts between energy code compliance and the safe installation of exterior claddings over continuous insulation.

Nichiha has direct experience with these products:

- Bracket and rail systems:
- Cascadia Clips®
- FERO Cladding Support
- ISO Clip
- Knight Wall MFI®
- CL-TALON®
- Knight Wall CI® and HCI™ Systems
- SMARTci GreenGirts



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Nichow Taxacom 866-424-4421 OSS PERK FILTER



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PART 1 – GENERAL 1.1

Related Requirements

- A. Section 01330 Submittals: Shop Drawings, Product Data and Samples
- B. Section 02330 Earthwork: Excavation, Trenching, Backfill and Compaction
- C. Section 02370 Erosion and Sedimentation Control (including SWPPP)

1.2 Summary

A. This section includes radial cartridge stormwater media filters.



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1.3 Reference Standards

- A. American Association of State Highway and Transportation Officials (AASHTO) a. AASHTO M105 – Gray Iron Castings
- B. American Society for Testing and Materials (ASTM)
 - a. ASTM A48, CL.30B Gray Iron Castings
 - b. ASTM A82 Steel Wire, Plain, for Concrete Reinforcement
 - c. ASTM A185 Steel Welded Wire Reinforcement, Plain for Concrete
 - d. ASTM A496 Steel Wire, Deformed, for Concrete Reinforcement
 - e. ASTM A497 Steel Welded Wire Reinforcement, Deformed for Concrete
 - f. ASTM A615 Deformed and Plain, Carbon-Steel Bars for Concrete Reinforcement
 - g. ASTM B209 Aluminum, Aluminum Alloy Sheet and Plate
 - h. ASTM C32 Sewer and Manhole Brick (Made from Clay or Shale)
 - i. ASTM C139 Concrete Masonry Units for Construction of Catch Basins and Manholes
 - j. ASTM C150 Portland Cement
 - k. ASTM C478 Precast Reinforced Concrete Manhole Sections
 - l. ASTM C595 Blended Hydraulic Cement
 - m. ASTM C857 Minimum Structural Design Loading for Underground Precast Concrete Utility Structures
 - n. ASTM C858 Underground Precast Concrete Utility Structures
 - o. ASTM C891 Installation of Underground Precast Utility Structures
 - p. ASTM C990 Joints for Concrete Pipe, Manholes and Precast Box Sections Using Preformed Flexible Joint Sealants
 - q. ASTM C1107 Packaged Dry, Hydraulic Cement Grout (Non-Shrink)
 - r. ASTM D698 Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort

1.4 Definitions

- A. BMP: Best Management Practices
- B. TSS: Total Suspended Solids

1.5 Submittals

The following shall be submitted by Contractor in accordance with Section 01330 Submittal Procedures:

- A. Product Date for the following:
 - a. Radial Cartridge Stormwater Media Filter
 - 1. Product specifications to include but not limited to specification sheets, brochures and performance claims.
 - 2. Installation procedures.
 - 3. Shop drawings shall be provided to include details for fabrication, construction, reinforcement, joints, assembly, and any accessory items. Shop drawings shall be annotated to indicate all materials to be used and applicable material standards, required tests of materials and all design assumptions for structural analysis.
 - 4. Operations & Maintenance Manual.
- B. Independent third-party certification or test report demonstrating conformance to applicable local or regional BMP standards before the treatment system is installed for the following:
 - 1. Removal efficiency
 - 2. Targeted pollutants of concern
 - 3. Hydraulic capacity
 - 4. Certification of adherence to applicable standard
- C. Products submitted as approved equal must be submitted at least two weeks prior to project bid opening and must be approved by project engineer. Submittal for approved equal product must contain



a signed letter from an executive officer of the manufacturer stating product is equivalent to all applicable requirements of this specification.

1.6 Delivery, Storage and Handling

A. All filtration system components shall be delivered to the site and unloaded with handling that conforms to the manufacturer's instructions for reasonable care. Concrete and internal components shall not be rolled or dragged over gravel or rock during handling. The Contractor shall take necessary precautions to ensure the method used in lifting or placing the filtration system does not induce stress fatigue in the concrete.

PART 2 - PRODUCTS

2.1 Radial Cartridge Stormwater Media Filter

2.1.1 Description

The Contractor, and/or a manufacturer selected by the Contractor and approved by the Engineer, shall furnish all labor, materials, equipment and incidentals required and install all precast concrete Stormwater Filtration Systems and appurtenances in accordance with the Drawings and these Specifictions. The Stormwater Filtration System shall consist of an underground precast concrete structure at houses rechargeable, passive, orifice controlled, radial-flow media-filled filter cartridges which trap particulates (TSS) and absorb pollutants such as dissolved metals, nutrients and hydrocarbons.

The Stormwater Filtration System shall be sized at a hydraulic loading rate of no more than 2.0 gpm/sf of media surface area. The water quality treatment flow rate shall be as determined and approved by the Engineer.

The Stormwater Filtration System shall contain a pre-treatment bay and be self-draining to increase the effective life of the filter media. The media cartridges shall be elevated to reduce the accumulation of material on the cartridge surface. Each radial-flow filter cartridge shall operate at a pre-determined flow rate through the use of an integrated flow control mechanism located within each filter cartridge.

The filtration system must include the capability to partition flows, causing all runoff to be diverted into the filtration chamber during low-flow conditions. This can be accomplished with either internal or external diversion. Flows exceeding the treatment capacity of the unit shall be diverted around the filtration chamber to prevent re-suspension and washout of previously trapped pollutants.

The Contractor shall furnish and install the Stormwater Filtration System complete and operable as shown and as specified herein in accordance with the requirements of the plans and contract documents.

2.1.2 Materials and Design

- A. Concrete for precast Stormwater Filtration Systems shall conform to ASTM C478, C857 and C858 and meet the following additional requirements:
 - 1. In all cases the wall thickness shall be no less than the minimum thickness necessary to sustain HS20-44 (MS18) loading requirements as determined by a Licensed Professional Engineer.
 - 2. Sections shall have tongue and groove or ship-lap joints with a butyl mastic sealant conforming to ASTM C990.
 - 3. Cement shall be Type I, II or III Portland cement conforming to ASTM C150.
 - 4. All sections shall be cured by an approved method. Sections shall not be shipped until the concrete has attained a compressive strength of 4,000 psi (28 MPa) or designate suitable handling strength.
 - 5. Pipe openings shall be sized to accept pipes of the specified size(s) and market size(s), and shall be sealed by the Contractor with hydraulic cement conforming to ASTM C595M or ASTM C1107.
 - 6. Aggregates shall conform to ASTM C33, except that the requirement for gradation shall not apply.

- 7. Reinforcement shall consist of wire conforming to ASTM A82 or A496, of wire mesh conforming to ASTM A185 or A497, or Grade 40 steel bars conforming to ASTM A615.
- 8. Castings for manhole frames and covers shall be in accordance with ASTM A48, CL.30B and AASHTO M105. The access cover/s shall be designed for HS20-44 traffic loading and shall provide a minimum of 30-inch clear opening.
- 9. Brick or masonry used to build the manhole frame to grade shall conform to ASTM C32 or ASTM C139 and shall be installed in conformance with all local requirements.
- 10. Diversion weirs, separation chamber and oil baffle shall be made from concrete, marine grade fiberglass and/or stainless steel and shall conform to ASTM A240.
- 11. All mounting hardware for internal components shall be made of 304SS and shall con form to ASTM A240.
- B. All internal components including stainless steel bypass manifold, pre-treatment filter, filter cartridge(s), filter media (as specified on the plans or by the Engineer), and shall be provided by the manufacturer.
 - 1. The bypass manifold shall be fabricated of stainless steel, minimum Type 304, complying with the requirements of ASTM A240.
 - 2. Filter cartridge bottom pan, inner ring, top and hood shall be constructed from high density polyethylene (HDPE). Filter cartridge screen shall consist of 1" x ¹/₂" welded wire fabric (16-gauge minimum) with a bonded PVC coating. An orifice mechanism plate shall be supplied with each cartridge to restrict flow rate to a maximum of 12 gpm (12-inch cartridge), 18 gpm (18-inch cartridge), 24 gpm (24-inch cartridge), 30 gpm (30-inch cartridge) at a system design head or as specified on drawings.
 - 3. The filter media shall consist of one or more of the following, as specified on the Plans or by the Engineer:
 - a. Perlite Media: Perlite media shall be made of natural siliceous volcanic rock free of any debris or foreign matter. The perlite media shall have a bulk density ranging from 6.5 to 8.5 lb/ft3 and particle sizes ranging from that passing through a 0.50-inch screen and retained on a U.S. Standard #8 sieve.
 - b. Zeolite Media: Zeolite media shall be made of naturally occurring clinoptilolite, which has a geological structure of potassium-calcium-sodium aluminosilicate. The zeolite media shall have a bulk density ranging from 44 to 48 lb/ft3, particle sizes ranging from that passing through a U.S. Standard #4 sieve to that retained in a U.S. Standard #6 sieve, and a cation exchange capacity ranging from 1.0 to 2.2 meq/g.
 - c. Granular Activated Carbon: Granular activated carbon (GAC) shall be made of lignite coal that has been steam activated. The GAC media shall have a bulk density ranging from 28 to 31 lb/ft3 and particle sizes ranging from that passing through a U.S. Standard #4 sieve to that retained on a U.S. Standard #8 sieve.
 - d. Zeolite-Perlite-Carbon (ZPC): ZPC is a mixed media that shall be composed of a blend of Zeolite (see above), Perlite (see above) and Granular Activated Carbon (see above).
 - e. Zeolite-Perlite (ZP): ZP is a mixed media that shall be composed of a blend of Zeolite (see above) and Perlite (see above).

2.1.3 Performance

A. Each specified flow based Stormwater Filtration System shall be capable of removing 80% of the net annual Total Suspended Solids (TSS) load based on a d50 particle size of 20 microns. Annual TSS removal efficiency models shall be based on laboratory and field performed data, site-specific hydraulics and hydrology, and local rainfall intensity distributions. Filtration units shall have the ability of being placed inline without re-suspending trapped sector re-entrain contaminants up to and including the Peak Flow Rate.

- B. Each Stormwater Filtration System shall contain one or more media cartridges that maintain a uniform pressure profile across the face of the filter during operation. At the design flow rate, the maximum filter hydraulic loading rate is not to exceed 2.0 gpm/sf of filter surface area. Stormwater shall enter the filter cartridges through the sides and shall flow through the filter media radially from the outer perimeter inward and shall have an average media contact time of not less than 39 seconds.
- C. The Stormwater Filtration System performance shall be third partied verified and shall be based on lab and field performance. The Stormwater Filtration System shall have Washington Department of Ecology General Use Level Designation (GULD).
- D. The Stormwater Filtration System shall be supplied with either internal or external bypass with a minimum capacity not less than the peak design storm as determined by the Engineer.

2.1.4 Quality Assurance

The materials, process and finished Stormwater Filtration System shall be subject to inspection by the Engineer. Acceptance or rejection of the system shall be based on the Specifications contained in this section. Imperfections may be repaired but subject to the acceptance of the Engineer.

2.1.5 Manufacturer

Each Stormwater Filtration System shall be a PerkFilter as manufactured by Oldcastle Precast, 7100 Longe Street, Stockton, California, 95206.

PART 3 - EXECUTION

3.1 Earthwork

A. Excavation, trenching and backfilling shall be as specified in Division 2 Section "Earthwork".

3.2 Identification

A. All Stormwater Filtration devices shall be identified at the surface level with markings indicating that they are treatment devices.

3.3 Inspection

3.3.1 General

A. Concrete, internals and accessories shall be inspected prior to installation and any defective or damaged product shall be replaced.

3.3.2 Manhole Sections

- A. Any manhole section with chipped bells or spigots shall be rejected and replaced.
- B. Any section with a fracture or crack greater than 0.10-inch in length or 0.01 in width shall be rejected and replaced.
- C. Any manhole section that has not had at least seven (7) days cure time (including 12 hours steam cure, or 21 days without steam cure) or is out of round shall be rejected and replaced.
- D. Any section with indications of imperfections in mixing and/or molding, honeycombed, or open textured surface, shall be rejected and replaced.
- E. Any section with indications of patches or repairs shall be rejected and replaced.
- F. Any section with exposed reinforcing steel shall be rejected and replaced.

3.4 Structure Installation

3.4.1 General

A. General Locations and Arrangements: Drawing plans and details indicate general location and arrangement of underground storm and drainage piping systems. Location and a few phent of Stormwater Filtration Systems is critical and design consideration should be taken into account. Install filtration system as indicated herein and as directed by the product manufacturer, to the maximum extent practical. Where specific installation procedure is not indicated, follow product manufacturer's written instructions.

B. All products shall be inspected for defects and cracks before being lowered into the trench, piece by piece. Any defective, damaged or unsound structure or any product that has had its grade disturbed after laying, shall be taken up and replaced. Open ends shall be protected with a pipe plug to prevent earth or other material from entering the filtration system during construction. The interior of the filtration system shall be free from dirt, excess water and other foreign materials as the installation progresses and left clean at the completion of the installation.

3.4.2 Trench Excavation

3.4.2.1 Excavation

- A. Excavate trenches to ensure that sides will be stable under all working conditions. Slope trench walls or provide supports in conformance with all local and national standards for safety. Open only as much trench as can be safely maintained by available equipment. Backfill all trenches as soon as practicable, but not later than the end of each working day.
- B. Where trench walls are stable or supported, provide a width sufficient, but no greater than necessary, to ensure working room to properly and safely place and compact haunching and other embedment materials. The space between the filtration system and trench wall must be wider than compaction equipment used in the compaction zone.
- C. When supports such as trench sheeting, trench jacks, trench shields or boxes are used, ensure that support of the filtration system and its embedment is maintained throughout installation. Ensure that sheeting is sufficiently tight to prevent washing out of the trench wall from behind the sheeting. Provide tight support of trench walls below viaducts, existing utilities, or other obstructions that restrict driving of sheeting.

3.4.2.2 Dewatering

- A. Do not lay or embed any section of the Stormwater Filtration System in standing or running water. At all times prevent runoff and surface water from entering the trench.
- B. When water is present in the work area, dewater to maintain stability of in-situ and imported materials. Maintain water level below pipe bedding and foundation to provide a stable trench bottom. Use, as appropriate, sump pumps, well points, deep wells, geofabrics, perforated underdrains, or stone blankets of sufficient thickness to remove and control water in the trench. When excavating while depressing ground water, ensure the ground water is below the bottom of cut at all times to prevent washout from behind sheeting or sloughing of exposed trench walls. Maintain control of water in the trench before, during and after pipe system installation and until embedment is installed and sufficient backfill has been placed to prevent flotation of the pipe, fitting or drainage structures. To preclude loss of soil support, employ dewatering methods that minimize removal of fines and the creation of voids in in-situ materials.

3.4.2.3 Removal of Rock

A. Rock in either ledge or boulder formation shall be replaced with suitable materials to provide a compacted earth cushion having a thickness between exposed rock and the manhole sections of at least 12 inches (0.3m). Rock excavation shall be a specified and defined under section 02300 "Earthwork".

3.4.2.4 Removal of Unstable Material

A. Where wet or otherwise unstable soil incapable of properly supporting the manhole structure, as determined by the Engineer, is encountered in the bottom of errench, such material shall be removed to at least 24 inches below bottom of the structure

and replaced to the proper grade with select granular material, compacted as directed by the Engineer. When removal of unstable material is due to the fault or neglect of the Contractor while performing shoring and sheeting, water removal, or other specified requirements, such removal and replacement shall be performed at no additional cost to the Owner.

3.4.3 Bedding

A. A stable and uniform bedding shall be provided for the manhole structure and any protruding features of its joint and/or fittings. The bedding shall be compacted to a minimum of 90% of maximum density per AASHTO T99, or as shown in the plans. Structure bedding shall be a minimum of 6" in thickness. The bedding surface for the structure shall provide a firm foundation of uniform density throughout the entire length of the pipe.

3.4.4 Setting Structures

A. Each structure section shall be thoroughly examined before being placed; defective or damaged sections shall not be used. Structures shall be placed to the elevations as indicated on the plans. Proper facilities shall be provided for lowering structure sections into trenches. Sections shall not be laid in water, and the sections shall not be laid when trench conditions or weather are unsuitable for such work. Diversion of drainage or dewatering of trenches shall be provided as directed by the Engineer; see dewatering section.

3.4.5 Jointing

- A. Joints shall be constructed as described herein and in accordance with manufacturer's installation instructions.
- B. All bell-and-spigot manhole joints shall be thoroughly cleaned. The supplied gasket shall be installed on the spigot end with the angled surface facing toward the mating surface. Joint lubricant, supplied by the manufacturer, shall be liberally applied to the entire interior of bell and gasket on spigot prior to assembly. Sections shall be mated with sections level and plumb to prevent rolling the gasket.
- C. All tongue-and-groove joints shall be thoroughly cleaned. Sections shall be mated and hydraulic cement grout (non-shrink) complying with ASTM C1107 shall be applied liberally to the exterior and exterior of the joint ensuring all voids are filled completely.

3.4.6 Backfilling

3.4.6.1 General

Backfill placement and compaction shall be constructed in accordance with specifications herein and the product manufacturer's published installation guides.

3.4.6.2 Backfilling Manhole Sections in Trenches

After the manhole sections and connecting pipes have been properly bedded, selected material from excavation or borrow, at a moisture content that will facilitate compaction, shall be placed along all sides of pipe in layer depths to ensure minimum compaction density is obtained evenly throughout the backfill material. The backfill shall be brought up evenly on all sides of the structure. Each layer shall be thoroughly compacted with mechanical tampers or rammers. Tests for density shall be made as necessary to ensure conformance to the compaction requirements specified below.

Where it is necessary, in the opinion of the Engineer, that sheeting or portions of bracing used be left in place, the contract shall be adjusted accordingly. Untreated sheeting shall not be left in place beneath structures or pavements.

JOB COPY

3.4.6.3 Movement of Construction Machinery

Movement of construction machinery over a manhole structure at any stage of construction shall be at the Contractor's risk. Any damaged structure shall be repaired or replaced.
OLDCASTLE GLASS SPECIFICATIONS



Reviewed for Code Compliance Signed Mor EM Date ______ Permit # 2020100 Performance Datasheet

Designed by/for: Jacquie CAPITOLA COMMUNITY CENTER Date: 4/19/2024

Total Product Builder

ARCHITECTURAL GUIDE SPECIFICATION SECTION 088000 GLAZING

Note to Specifiers:

The specifications below are suggested as desirable inclusions in glass and glazing specifications (section 088000), but are not intended to be complete. An appropriate and qualified Architect or Engineer must verify suitability of a particular product for use in a particular application as well as review final specifications. Oldcastle BuildingEnvelope® assumes no responsibility or liability for the information included or not included in these specifications.

APPROVED GLASS FABRICATOR

Oldcastle BuildingEnvelope®

GLAZING PRODUCTS

Glass Standards

- 1. Annealed float glass shall comply with ASTM C1036, Type I, Class 1 (clear), Class 2 (tinted), Quality-Q3.
- 2. Heat-strengthened float glass shall comply with ASTM C1048, Typel, Class 1 (clear), Class 2 (tinted), Quality Q3, Kind HS.
- 3. Tempered float glass shall comply with ASTM C1048, Type I, Class 1 (clear), Class 2 (tinted), Quality Q3, Kind FT.
- 4. Laminated glass to comply with ASTM C1172.
- 5. Glass shall be annealed, heat-strengthened or tempered as required by codes, or as required to meet thermal stress and wind loads.



Oldcastle Building

www.obe.com/systemselect

Contact Oldcastle BuildingEnvelope® at 866-OLDCASTLE (653-2278) for samples or additional information. SystemSelect™ calculates center of glass (CO⊕)enä"tötal product data using the Lawrence Berkeley National Laboratory (LBNL) Berkeley Lab WINDOW Calc Engine (WinCalc). Glass data is from the following sources: 1. LBNL International Glazing Database (IGDB); 2. Vendor supplied data; 3. LBNL Optics 6. Based on original laboratory testing per AAMA 1503, validated per NFRC 100, 200, 500 and AAMA 507 simulations. Framing system values and glass spacer values determined per LBNL THERM 7.4. as validated in total product simulations. All values are determined in accordance with the aforementioned procedures and valid for use in R&D, bidding and investigative purposes. For NFRC certified values, contact Oldcastle BuildingEnvelope®.

Sealed Insulating Glass (IG) Vision Glass (Vertical)

- 1. IG units consist of glass lites separated by a dehydrated airspace that is hermetically dual sealed with a primary seal of polyisobutylene (PIB) or Thermoplastic Spacer (TPS) a and a secondary seal of silicone or an organic sealant depending on the application.
- USA Insulating glass units are certified through the Insulating Glass Certification Council (IGCC) to ASTM E2190. Canada - Insulating Glass units are certified through the Insulating Glass Manufacturers Alliance (IGMA) to either the IGMAC certification program to CAN/CGSB-12.8, or through the IGMA program to ASTM E2190.

IG VISION UNIT PERFORMANCE CHARACTERISTICS

- 1. Exterior Lite: 6mm (1/4") Vitro Solarban® 60 on Clear Low-E #2
- 2. Cavity: 1/2" Argon (90%) / Air (10%)
- 3. Interior Lite: 6mm (1/4") Vitro Clear
- 4. Center of Glass (COG) Performance Characteristics

	Optical	
0.24	Visible Light Transmittance:	70%
1.39	Visible Light Reflectance (outside):	11%
0.39	Visible Light Reflectance (inside):	12%
0.44	Total Solar Transmittance:	34%
1.82	Total Solar Reflectance (outside):	28%
	Ultraviolet Transmittance:	18%
	0.24 1.39 0.39 0.44 1.82	Optical0.24Visible Light Transmittance:1.39Visible Light Reflectance (outside):0.39Visible Light Reflectance (inside):0.44Total Solar Transmittance:1.82Total Solar Reflectance (outside):Ultraviolet Transmittance:



Oldcastle BuildingEnvelope

www.obe.com/systemselect

Contact Oldcastle BuildingEnvelope® at 866-OLDCASTLE (653-2278) for samples or additional information. SystemSelect™ calculates center of glass (COG) end™dtal product data using the Lawrence Berkeley National Laboratory (LBNL) Berkeley Lab WINDOW Calc Engine (WinCalc). Glass data is from the following sources: 1. LBNL International Glazing Database (IGDB); 2. Vendor supplied data; 3. LBNL Optics 6. Based on original laboratory testing per AAMA 1503, validated per NFRC 100, 200, 500 and AAMA 507 simulations. Framing system values and glass spacer values determined per LBNL THERM 7.4. as validated in total product simulations. All values are determined in accordance with the aforementioned procedures and valid for use in R&D, bidding and investigative purposes. For NFRC certified values, contact Oldcastle BuildingEnvelope®.

Performance Datasheet

3 of 3

ARCHITECTURAL GUIDE SPECIFICATION

Note to Specifiers:

The specifications below are suggested as desirable inclusions in glass and glazing specifications (section 088000), but are not intended to be complete. An appropriate and qualified Architect or Engineer must verify suitability of a particular product for use in a particular application as well as review final specifications. Oldcastle BuildingEnvelope® assumes no responsibility or liability for the information included or not included in these specifications.

APPROVED FRAMING PROVIDER

Oldcastle BuildingEnvelope®

FRAMING PRODUCTS

Framing System Framing Size Framing Metal Series 3000 Front Set NFRC 100 Standard Size Aluminum

TOTAL PRODUCT PERFORMANCE CHARACTERISTICS (FRAMING + GLASS)

Winter U-factor (Btu/h·ft ² ·F) (IP):	0.340
Winter U-factor (W/m ² ·K) (SI):	1.93
Solar Heat Gain Coefficient (SHGC):	0.36
Visible Light Transmittance (VT):	0.64
Condensation Resistance (CR):	55



Oldcastle Building

www.obe.com/systemselect



RSIC-1 ACOUSTIC CLIPS & WALL CHANNEL



Reviewed for Code Compliance Signed _____M for BM _______ Date ______ Permit #______ 20240100



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PAC INTERNATIONAL, LLC.





RSIC-1, the Low Cost, High Performance, Noise control Solution

Wood	Concrete	Apartment	Recording Studio	
Steel	Condo	Retail	Home Theater	
Metal deck	Commercial	Conference Rooms	Commercial theater	
		RSIC-1 spe	cifications:	
		Acoustical design load	: 36 Lbs	
		Total deflection	3 mm	
		Double deflection	Yes (1.5 mm)	
		Made with Recycled cont	tent Yes	
		Low VOC treated	Yes	
		Adjustable	No	
		Cavity min 1-5/8"		
		Cavity Max	1-5/8"	
		Adjustment limit	N/A	
			Yes	
		Use on walls		
		New Construction	APPROVED	
		Retro Fit		
		Made in USA		
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RSIC® is a registered Trade Mark of PAC International, LLC.

24

KITCHEN EQUIPMENT SPECIFICATIONS



Reviewed for Code Compliance Signed Mor EM Date ______ Permit # 2020100

Capitola Community Center Capitola, CA

EQUIPMENT SPECIFICATIONS

PROJECT No. 5768 ISSUED: May 2024

EAST BAY RESTAURANT SUPPLY, INC

49 4TH STREET, OAKLAND, CALIFORNIA, 94607 TEL: (510)465-4300 FAX: (510)544-0393



Reviewed for Code Compliance Signed ______ 10162024 Date ______ Permit #_____ 20240180



ENDURANCE™ GAS RESTAURANT RANGE 6 Open Burners / 36" Wide Gas Range





SPECIFIER STATEMENT

36" wide gas restaurant range, Vulcan Model No. 36S-6BN. Fully MIG welded aluminized steel frame for added durability. Stainless steel front, sides, backriser, highshelf and 6" adjustable legs. Extra deep crumb tray with welded corners. Six 30,000 BTU/hr. open top burners with lift-off burner heads. Energy saving flashtube open burner ignition system (one pilot for every two burners) shrouded for reliability. Heavy duty cast grates, easy lift-off 12" x 12½" in the front and 12" x $14\frac{1}{2}$ " in the back to better accommodate stock pots or large pans. Grates have a built in aeration bowl for greater efficiency. Burner knobs are cool to the touch, high temperature material. One oven: 35,000 BTU/hr. standard bakers depth oven with porcelain oven bottom and door panel, measures 27"d x 26%"w x 14"h. Oven thermostat adjusts from 250°F to 500°F with a low setting. Oven is supplied with two racks, two rack guide sets, and four rack positions. Oven door is heavy duty with an integrated door hinge/spring mechanism requiring no adjustment. ³/₄" rear gas connection and pressure regulator. Total input 215,000 BTU/hr.

Exterior Dimensions:

34"d x 36"w x 58"h on 6" adjustable legs

Approved by_

- _ Approved by_
- Date__
- Printed in U.S.A. Vulcan 2006 Northwestern Pkwy, Louisville, KY 40203 Phone: 800-814-2028 Fax: 800-444-0602 www.vulcanequipment.com

Capitola Community Center

East Bay Restaurant Supply, Inc.

AIA # Item #

MODELS

36S-6BN

🔁 36S-6BN 🔰 1 Standard Oven / Natural G	≥ :	36S-6BN	1 Standard Oven / Natural Ga
---	-----	---------	------------------------------

- **36S-6BP** 1 Standard Oven / Propane
- **36C-6BN** 1 Convection Oven / Natural Gas
- **36C-6BP** 1 Convection Oven / Propane

STANDARD FEATURES

- Fully MIG welded frame
- Stainless steel front, sides, backriser, lift-off high shelf
- 6" stainless steel adjustable legs
- Six open top burners, each burner is 30,000 BTU/hr. with lift-off burner heads
- Shrouded flash tube pilot system (one pilot per two burners)
- Heavy duty cast grates, easy lift-off 12" x 12¹/₂" in front and 12" x 14¹/₂" in the rear
- Extra deep pull out crumb tray with welded corners
- 35,000 BTU/hr. baker's depth standard oven cavity; full size sheet pans fit side-to-side or front-to-back
- Oven thermostat adjusts from 250°F to 500°F
- Two oven racks and four rack positions •
- 35,000 BTU/hr. convection oven in place of standard oven, 24"d x 26³/₈"w x 13⁷/₈"h (115v - 1 phase blower motor 4 amp, 6' cord and plug); full size sheet pans only fit side-to-side in convection oven; convection oven motor requires field attachment
- One year limited parts and labor warranty

ACCESSORIES (PACKAGED AND SOLD SEPARATELY)

- □ Extra oven rack with rack guides
- □ Casters (set of four)
- Leveling casters (set of four)
- □ Flanged feet (set of four)
- □ 10" stainless steel stub back
- Reinforced high shelf for mounting salamander broiler

OPTIONS (FACTORY INSTALLED)

- □ Flame Safety device with manual spark ignition for all open top burners, thermostatic griddles and oven pilots
- Hot tops

Project_ SIS # _____

_ Quantity _____ C.S.I. Section 114000

Item#: 6



APPROVED JOB COPY Signed JM for EM

Date

F45327 (07-21) Page: 7



ENDURANCE[™] GAS RESTAURANT RANGE 6 Open Burners / 36" Wide Gas Range

INSTALLATION INSTRUCTIONS INSTALLATION MANUAL

- 1. A pressure regulator sized for this unit is included. Natural gas 5.0" W.C., propane gas 10.0" W.C.
- 2. Gas line connecting to range must be ³/₄" or larger. If flexible connectors are used, the inside diameter must be ³/₄" or larger.
- An adequate ventilation system is required for commercial cooking equipment. Information may be obtained by visiting the National Fire Protection Association website at <u>https://www.nfpa.org/</u>. Refer to NFPA No. 96.
- These units are manufactured for installation in accordance with ANSZ223.1A (latest edition), National Fuel Gas Code. Information may be obtained from The American Gas Association website at <u>https://www.aga.org/</u>.



36C-6BP

>)	CAD	and/	or	Revit	Files	Available))
1111							21

Top C

onfiguration	Model	Description	Total Input BTU / Hr.	Shipping Weigh Lbs. / KG
	→ 36S-6BN	1 Standard Oven / 6 Burners / Natural Gas	215,000	520 / 236
	36S-6BP	1 Standard Oven / 6 Burners / Propane	215,000	520
	36C-6BN	1 Convection Oven / 6 Burners / Natural Gas	215,000	JOB COPY 580 / 263 Reviewed for
<u>er i xer i X</u>				code compliance

As continued product improvement is a policy of Vulcan, specifications are subject to change without notice.

1 Convection Oven / 6 Burners / Propane

F45327 (07-21) Vulcan • 2006 Northwestern Pkwy, Louisville, KY 40203 • Phone: 800-814-2028 • Fax: 800-444-0602 • www.vulcanequipment.com Printed in U.S.A.

Capitola Community Center

East Bay Restaurant Supply, Inc.

Page: 8

580 263

. . .

215,000

5. Clearances Rear Sides Combustible 6" 10" Standard Oven Non-Combustible 0" 0" Convection Oven Non-Combustible Min. 4" 0"

- 6. For proper combustion, install equipment on adjustable legs or casters provided with unit.
- 7. This appliance is manufactured for commercial installation only and is not intended for home use.

SPECIFY TYPE OF GAS WHEN ORDERING. SPECIFY ALTITUDE WHEN ABOVE 2,000 FEET.





Dormont	Moveable Commercial Equipment Kits
---------	------------------------------------

KIT SOLUTIONS	$\begin{array}{l} 50 = 12^{\circ} \mbox{ ID } \\ 75 = 3^{\circ} \mbox{ ID } \\ 100 = 1^{\circ} \mbox{ ID } \\ 125 = 1 - 12^{\circ} \mbox{ ID } \\ \hline \mbox{ PART } \\ \mbox{ NUMBER } \end{array}$	BTU/hr Minimum Flow Capacity*	THE BLUE HOSE TM	SnapFast® QUICK-DISCONNECT	Swivel MAX® 1st SWIVEL	Swivel MAX* 2nd SWIVEL	Safety Quik® VALVE	RESTRAINING CABLE
	1650KIT36	77K	\checkmark	\checkmark				\checkmark
Standard Kit (KIT) ¹	1650KIT48	68K	\checkmark	√				\checkmark
The Dormont Blue Hose™	1650KIT60	60K	\checkmark	\checkmark				\checkmark
SnapFast Quick-Disconnect	1675KIT36	218K	\checkmark	\checkmark				\checkmark
Restraining Cable	1675KIT48	180K	\checkmark	\checkmark				\checkmark
	1675KIT60	158K	\checkmark	√				\checkmark
	16100KIT36	379K	\checkmark	√				\checkmark
	16100KIT48	334K	√	√				√
	16100KIT60	294K	√	√				√
	1650KITS36	72K	\checkmark	\checkmark	√			√
Single Swivel MAX Kit	1650KITS48	63K	\checkmark	\checkmark	\checkmark			√
The Dormont Blue Hose™	1650KITS60	56K	\checkmark	√	\checkmark			\checkmark
SnapFast Quick-Disconnect	1675KITS36	203K	\checkmark	\checkmark	\checkmark			√
One Swivel MAX Swivel	1675KITS48	167K	\checkmark	\checkmark	\checkmark			\checkmark
Restraining Cable	1675KITS60	147K	\checkmark	\checkmark	\checkmark			\checkmark
	16100KITS36	353K	\checkmark	\checkmark	√			√
	16100KITS48	310K	\checkmark	√	\checkmark			√
	16100KITS60	274K	\checkmark	√	\checkmark			\checkmark
	1650KIT2S36	69K	\checkmark	\checkmark	\checkmark	\checkmark		\checkmark
Double Swivel MAX Kit	1650KIT2S48	60K	\checkmark	\checkmark	\checkmark	√		\checkmark
The Dormont Blue Hose™	1650KIT2S60	54K	√	√	√	V		√
SnapFast Quick-Disconnect —	>1675KIT2S36	193K	\checkmark	\checkmark	\checkmark	\checkmark		\checkmark
Iwo Swivel MAX Swivels Restraining Cable	1675KIT2S48	160K	\checkmark	√	\checkmark	\checkmark		√
	1675KIT2S60	140K	\checkmark	\checkmark	\checkmark	√		\checkmark
	16100KIT2S36	336K	\checkmark	√	\checkmark	√		√
	16100KIT2S48	295K	\checkmark	\checkmark	\checkmark	√		\checkmark
	16100KIT2S60	261K	V	\checkmark	\checkmark	√		\checkmark
	1650KITCF36	77K	\checkmark				\checkmark	\checkmark
Safety Quik Kit	1650KITCF48	68K	\checkmark				\checkmark	√
(KITCF)⁴	1650KITCF60	60K	√				\checkmark	\checkmark
The Dormont Blue Hose™ Safety Quik Quick-Disconnect	1675KITCF36	218K	V				√	√
Restraining Cable	1675KITCF48	180K	\checkmark				\checkmark	√
	1675KITCF60	158K	\checkmark				√	\checkmark
	16100KITCF36	379K	\checkmark				\checkmark	√
	16100KITCF48	334K	V				√	√
	16100KITCF60	294K	\checkmark				\checkmark	√
	1650KITCFS36	72K	V		V		√	√
Safety Quik	1650KITCFS48	63K	\checkmark		\checkmark		\checkmark	\checkmark
Single Swivel MAX Kit (KitCFS) ⁵	1650KITCFS60	56K	\checkmark		√		√	√
(1675KITCFS36	203K	\checkmark		√		\checkmark	\checkmark
	1675KITCFS48	161K	\checkmark		√		\checkmark	√
	1675KITCFS60	147K	\checkmark		√		\checkmark	√
	16100KITCFS36	353K	√		√		V	√
	16100KITCFS48	310K	\checkmark		\checkmark		V ADD	
	16100KITCFS60	274K	\checkmark		√ √			

¹ Includes Full Port Gas Valve and (2) 90° Street Elbows
² Includes Full Port Gas Valve and (1) 90° Street Elbow
³ Includes Full Port Gas Valve
⁴ Includes (2) 90° Street Elbows
⁵ Includes (1) 90° Street Elbow

S-D-BUYGUIDE 1538

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EQN 1

Indicates most commonly stocked item

E.

Add PS to the end of any part number to include the Safety-Set[®] wheel placement system

*BTU/hr Minimum Flow Capacity (0.64 Sp.Gr., 1000 BTU/ft^3 Natural Ges at 0.5" wc pressure drop) ADDITIONAL CONFIGURATIONS ARE AVAILABLE IN OUR CATALOGA.compared

© Dormont 2015

Capitola Community Center

					ITEM #7
CSF-WTRSX				Item #:	Qty #:
	 			Model #:	
SS Work	Table w	/ Rear Spla	ash & (NSF)	Project #:	
Crossbra	icing				
	X A	<u>M</u>	ATERIAL: TYPE 304	SERIES STAINLESS	STEEL
			TOP 16 GAUGE 3 1 3/4" TURNE SS CHANNEI 1" X 4" HIGH REAL FULLY WELDED 7 GAUGE 304 SS TU 1 5/8" DIAMETER (4) LEGS FOF SS CLAD AD WORKING HEIGH CCESSORIES: Z-CLIP PTIONS: TOP 14 GAUGE 3 LEFT SPLASH (-L LEFT / RIGHT SPL 1" X 6" HIGH SPL HEIGHT "C" @ 34	04 STAINLESS STEE D DOWN EDGE CON _ REINFORCEMENT R SPLASH WITH 5/8" I 5/8" DIAMETER CRO JBE LEGS 16 GAUGE 304 R LENGTHS UP TO 9 JUSTABLE BULLET F IT @ 36" 04 SS (-S)) □ RIGHT _ASH (-LR) ASH	EL WITH #4 FINISH IFIGURATION RADIUS COVE DSSBRACING 16 4 SS TUBE 6" EET
	LENGTH "A"	MODEL # WIDTH "B" = 24"	MODEL # WIDTH "B" = 30"	MODEL # WIDTH "B" = 36"	
	36"	WT36-RSX-24	WT36-RSX-30	WT36-RSX-36	
	48"	WT48-RSX-24	WT48-RSX-30	WT48-RSX-36	
	→ 60"	WT60-RSX-24	WT60-RSX-30	WT60-RSX-36	
	72"	WT72-RSX-24	WT72-RSX-30	WT72-RSX-36	
	84"	WT84-RSX-24	WT84-RSX-30	WT84-RSX-36	
	96"	WT96-RSX-24	WT96-RSX-30	WT96-RSX-36	
	108"	WT108-RSX-24	WT108-RSX-30	WT108-RSX-36	
	120"	WT120-RSX-24	WT120-RSX-30	WT120-RSX-36	
ULIN	NARY			CALL FOR C CONFIGURA	CUSTOM SIZE & ATION APPROVED JOB COPY

REV. 2_1707

1925 N. MacArthur Drive, Suite 300 - Tracy, CA 95376 - 209.740.4280 - Fax 209.740.4278

Reviewed for Code Compliance Signed ______ 10/16/2024 Date _____

STAINLESS FABRICATORS

ITEM #9

MODEL: WTF27AHC-FIP

AIA#

SIS#



WORKTOP FREEZER

WTF27AHC Solid Door With Foamed-In Place Backsplash Hydrocarbon Series



3 Year Parts/Labor Warranty Additional 4 Year Compressor Warranty

CABINET CONSTRUCTION

- Stainless steel front, sides, door and grille (galvanized back & bottom)
- Interior liner is made of corrosion resistant aluminum

Project:

Approved:

Item: ____ Location:

- Stainless steel top for added durability
- Full electronic control
- Interior thermometer is standard
- Foamed-in place backsplash
- Self-closing doors with 120° stay-open feature, on cartridge style hinges
- Door opening includes low wattage, anti-condensate heaters
- Magnetic gasket attached to each door for positive seal
- 6" Casters, two (2) with brakes standard
- Two epoxy-coated steel wire shelves
- Field-reversible door (hinge kit not included)

OPTIONS & ACCESSORIES

- Stainless steel back
- Stainless steel interior
- 16 Gauge stainless steel top
- Additional shelves
- Shelf clips
- Glass door option
- Right or left hinged door
- Locks (solid doors only)
- Bun rack
- Wire shelf divider
- 3" Casters
- 6" legs (stainless steel, black or seismic/flange)
- Low profile casters
- Roller kit
- Remote option* (see note on back on page)

REFRIGERATION SYSTEM

- Uses environmentally friendly, energy efficient R290 refrigerant, and meets all regulatory requirements for CARB, SNAP, DOE & more
- Adaptive defrost
- Epoxy coated evaporator coil
- Freezers capable of maintaining product temperature of -10°F



JM for EM





3779 Champion Blvd., Winstorr-Salem, NC 27105 1-888-845-9800 Fax: 1-336-245-6453 Beverage-Air.com Sales@bevair.com



MODEL	WTF27AHC-FIP					
EXTERNAL DIMENSIONAL DATA						
Width Overall	27"					
Depth Overall with Handle & Bumper	32"					
Height Overall with 6" Casters	39 5⁄8"					
Number of Doors	1					
Depth with Door Open 90°	55 ¾"					
Door Opening	22 5⁄8" x 21 5⁄8"					
INTERNAL DIMENSIONAL DATA						
NET Capacity (cubic ft.)	5.87					
Internal Width Overall (in)	23"					
Internal Depth Overall (in)	15 ½"					
Internal Height Overall (in)	23"					
Number of Shelves	2					
ELECTRICAL DATA						
Full Load Amperes	2.5					
REFRIGERATION DATA						
Horsepower	1/4					
Capacity (BTU/Hr)	857					
SHIPPING DATA						
Gross Weight - Crated	202 lbs					
Height - Crated	36"					
Width - Crated	30"					
Depth - Crated	32"					

Worktop Freezer Models: WTF27AHC-FIP



*NOTE: Remote units are field wired and come with 6" legs.

Refrigerant must be specified at time of order.



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115/60/1 NEMA 5-15P

JM for EM

Dite

3779 Champion Blvd., Winston-Salem, NC 27105 1-888-845-9800 Fax: 1-336-245-6453 Beverage-Air.com Sales@bevair.com



Traulsen



G-SERIES 2-Section Refrigerator Reach-In Self-Contained Solid Door(s)





This unit is listed to the applicable ETL and NSF Standards by an approved NRTL. Consult the factory or unit's data plate for approval information.

AVAILABLE CONFIGURATIONS

Half-Height Door Models	Hinging
G20000	Left/Right
G20001	Right/Left
G20002	Right/Right
G20003	Left/Left
Full-Height Door Models	Hinging
G20010	Left/Right
G20011	Right/Left
G20012	Right/Right
G20013	Left/Left

STANDARD PRODUCT FEATURES

- High Performance, Energy Efficient Refrigeration System Using R-290
- Reliable Microprocessor Control With LED Temperature Display

_ Quantity _____ C.S.I. Section 114000

- Evaporator Coil Outside Food Zone Provides More Usable Space
- Load-Sure Guard Prevents Problems From Improper Loading
- Durable All-Metal Construction
- Stainless Steel Front & Doors, Anodized Aluminum Sides & Interior
- Full or Half Height Door Models with a Variety of Hinging Configurations
- Long Life EZ-Clean Door Gaskets
- Three (3) Epoxy Coated Shelves Per Section (factory installed)
- Easy to Maintain Front Facing Condenser Coil
- 6" High Locking Casters

FIELD INSTALLED ACCESSORIES & OPTIONS

- Trayslides for 18" x 26" Sheet Pans
- Trayslides for 12" x 20" Food Pans
- Trayslides for 14" x 18" Sheet Pans
- Trayslides for 18" x 26", 12" x 20" & 14" x 18" Pans
- Additional Shelves
- Set of (4) 4 1/8" Casters in Lieu of Standard
- 6" High Legs

*Please refer to the G-Series Accessory Kit Guide for precise details. (Form TR35872)

-GUARANTEED FOR LIFE CAM-LIFT HINGES -GUARANTEED FOR LIFE HORIZONTAL WORKFLOW DOOR HANDLES (SOLID DOORS ONLY)

Item#: 11

Approved by_

_____ Date

_____ Approved by_

Printed in U.S.A. Traulsen • 4401 Blue Mound Road Fort Worth, TX 76106 • 1-800-825-8220 • www.traulsen.com Capitola Community Center East Bay Restaurant Supply, Inc.

TR36153 (01-24) Page: 13

G20010

____ SIS #____

Project

AIA #

Item #

Traulsen

raulsen





https://traulsen.kclcad.com/

MODELS

Half Height Door Models: G20000, G20001, G20002, G20003



East Bay Restaurant Supply, Inc.

Traulsen

CAD and/or Revit Files Available

https://traulsen.kclcad.com/

G-SERIES 2-Section Refrigerator Reach-In Self-Contained Solid Door(s)

MODELS

Full Height Door Models: G20010, G20011, G20012, G20013







MODELS

Half Height Door Models: G20000, G20001, G20002, G20003 Full Height Door Models: G20010, G20011, G20012, G20013

MODELS	G200			
DIMENSIONAL DATA				
Net Capacity cu. ft. ¹	45.89 (1300 l) 46.02 (1303 l)			
Length - overall in.	521/8" (132.4 cm)			
Depth - overall in.	35" (88.8 cm)			
Depth - over body in.	32" (81.3 cm)			
Depth - door open 90° in.	57%" (146.3 cm)			
Clear door width in.	21" (53.2 cm)			
Clear half-door height in.	27¾" (69.6 cm)			
Clear full-door height in.	57½" (146.1 cm)			
Height - overall on 6" legs in. ²	83¾" (211.9 cm)			
No. Standard Shelves	6			
Shelf Area sq. ft. ³	34.6 (3.21 sq m)			
ELECTRICAL DATA				
Voltage Plug	115/60/1 NEMA 5-15P (attached)			
Feed wires with ground	3			
Full Load Amperes KWH/24HR ⁴	4.3 2.74			
REFRIGERATION DATA				
Refrigerant	R-290			
Refrigerant Charge oz.	4.5 (127.6 g)			
BTU/HR H.P.⁵	2100 1/4 HP			
SHIPPING DATA				
Length - Crated in.	62" (158 cm)			
Width - Crated in.	42" (107 cm)			
Height - Crated in.	85" (216 cm)			
Volume - Crated cu. ft.	128 (3625 l)			
Weight - Crated lbs.	480 (218 kg)			

NOTES:

1. Net Capacity cu. ft. = Half Height Door | Full Height Door models.

2. 12" Top clearance preferred for optimum performance & service access.

3. Figure shown reflects the area of standard shelf compliment.

4. KWH/24HR = Kilowatt usage per 24 hours

5. Based on a 90°F ambient and 20°F evaporator.

G-SERIES 2-Section Refrigerator Reach-In Self-Contained Solid Door(s)

EQUIPMENT SPECIFICATIONS

CONSTRUCTION, HARDWARE, INSULATION

Cabinet exterior front, louver assembly and door(s) are constructed of heavy gauge stainless steel. Cabinet sides (including returns), interior and door liners are constructed of anodized aluminum. The exterior cabinet top, back and bottom are constructed of heavy gauge galvanized steel. A set of four (4) 6" high locking casters are included.

Doors are equipped with a gasket protecting, raised metal door pan, cylinder locks, and guaranteed for life self-closing cam-lift hinges with a stay open feature at 120 degrees. Hinges include a concealed switch to automatically activate the interior LED lighting. Guaranteed for life, metal work flow door handles are mounted horizontally over recess in door which limits protrusion into aisle ways.

Gasket profile and durable long life material simplify cleaning and increase overall gasket life. Anti-condensate heaters are located behind each door opening.

Both the cabinet and door(s) are insulated with an average of 2" thick high density, non-CFC, 100% foamed in place polyurethane.

SELF-CONTAINED REFRIGERATION SYSTEM

A top mounted, self-contained, balanced refrigeration system using environmentally-friendly, low GWP R-290 refrigerant is conveniently located behind the one piece louver assembly. It features an easy to clean front facing condenser, thermostatic expansion valve metering device, air-cooled hermetic compressor, large, high humidity evaporator coil located outside the food zone and a top mounted non-electric condensate evaporator. A 9' cord and plug is provided. Standard operating temperature is 34 to 38°F.

CONTROL

The easy to use water resistant microprocessor control is supplied standard. It includes a 3-Digit LED Display, and a Fahrenheit or Celsius Temperature Scale Display Capability.

INTERIOR ARRANGEMENTS

Standard interior arrangements include three (3) epoxy coated steel wire shelves per section, mounted on shelf pins, installed at the factory. Shelves are full-width, and do not have any large gaps between them requiring the use of "bridge" or "junior shelves." Recommended load limit per shelf should not exceed 225 lbs.

DOMESTIC WARRANTY

Both a six year parts and labor warranty and an additional one year compressor parts warranty (for a total of seven on self-contained models) are provided standard.

When ordering please specify: Voltage, Hinging, and Options.

Equipped with one NEMA 5-15P Plug



	OPTIONAL ACCESSORY TRAYSLIDE VERSATILITY CHART								
TRAYSLIDE DRAWINGS									
TRAYSLIDE OFFERING	#1 (1) 18" x26" or (2) 14"x18"	#4 (Rod Type) (1) 18" x26"	Universal (1) 18" x26" or (2) 14"x18" or (2) 12"x20"	#1 EZ-Change (1) 18" x26" or (2) 14"x18"	Universal EZ-Change (1) 18" x26" or (2) 14"x18" or (2) 12"x20"	HD UniverAPPROVEDge (1) 18" x26J0B(2004%18" or (2) 12"x20"			
SPACING Capacity Door Size	2" 28 Pairs Full Door & 13 Half 3" 19 Pairs Full Door & 09 Half 4" 14 Pairs Full Door & 07 Half 5" 11 Pairs Full Door & 05 Half	1 1/2" 38 Pairs Full Door (2 Pair) 1 1/2" 18 Pairs Half Door (1 Pair)	4" 14 Pairs Full Door & 06 Half ¹ 4" 14 Pairs Full Door & 07 Half ² 5" 11 Pairs Full Door & 05 Half 6" 09 Pairs Full Door & 04 Half	2" 26 Pairs Full Door & 12 Half 4" 13 Pairs Full Door & 06 Half	2 1/4" 22 Pairs Full Door & 11 Half 4 1/2" 11 Pairs Full Door & 05 Half	Reviewed for Code Compliance 4 1/2" 11 Pairs Full Door & 05 Half 9" 05 Pairs Furth Door & 02 Half Date			

Upper Half Height Door¹

Lower Half Height Door²

CONTINUED PRODUCT DEVELOPMENT MAY NECESSITATE SPECIFICATION CHANGES WITHOUT NOTICE.

TR36153 (01-24)

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JOB COPY



1925 N. MacArthur Drive, Suite 300 - Tracy, CA 95376 - 209.740.4280 - Fax 209.740.4278

STAINLESS FABRICATORS Item #:

Panasonic

FOOD SERVICE EQUIPMENT

www.panasonic.com/CM0

<image>

1000 WATT* COMMERCIAL MICROWAVE OVEN

BOTTOM ENERGY FEED

NE-1054F

Energy travels less distance to reach the food, compared to side or top energy feed, for increased efficiency.

"GRAB & GO" DOOR HANDLE

Without moving parts like those found in trigger-activated or push-button handles, the "Grab & Go" door handle is fast, reliable and durable.

SPECIFICATIONS	NE-1054F
Power Source:	120V, 60Hz, Single Phase
Receptacle Required:	NEMA 5-15
Frequency:	2,450MHz
Required Power:	13.4A
Output:	1000 Watts*
Outer Dimensions: (w x d x h)	20-1/8" x 16-1/2" x 12"
Cavity Dimensions: (w x d x h)	13" x 13" x 8-1/16"
Net Weight:	34 lbs.
Shipping Weight:	40 lbs.
Shipping Box Size: (w x d x h)	24" x 18-3/4" x 14-3/4" – 3.8 cu. ft.
Timer:	99 Minutes, 99 Seconds
Memory Capability:	20 Programs
Door / Cabinet / Cavity:	Stainless / Grey / White



The NE-1054F commercial microwave meets or exceeds all safety performance and sanitation standards set for commercial food service microwave ovens by UL, HHS, FCC and NSF.



Panasonic Commercial Food Service

Division of Panasonic Corporation of North America 2 Riverfront Plaza | Newark, NJ 07102 (201) 348-7000 www.panasonic.com/cmo



PERFECT FOR

- VendingBreak Rooms
- Break Rooms
- Waitress StationsFront of House

PERFORMANCE

- 1000 Watt Power
- 10 Programmable memory pads
- 20 Memory capability
- 6 Power levels
- 2- and 3-stage cooking
- Programmable and Manual operations
- Bottom energy feed

ADDITIONAL FEATURES

- Stainless steel front
- 0.8 cubic feet cavity
- Grab & Go door handle
- Fits 1 half-size, 6-inch deep steam table pan/cover
- Braille keypad
- Program list/cycle counter
- Self diagnostics
- 99:99-minute capacity
- Interior oven light
- See-through oven door
- Touch control keypad
- Anti-theft equipped
- Program lock
- Tone control
- Will ship via UPS

MAINTENANCE

- Self-diagnostics
- Easy to change interior oven light
- Warranty: 1 year parts/labor or 18,000 cycles
- Warranty: 3 years parts/labor or 54,000 cycles for magnetron



SchoolsConcessions

Convenience Stores

CSF-WTCRSX					Item #:	Qty #:
SS Chef's Crossbra	s Table cing	w/ Rear Spla	ash &	x INSF	Model #: Project #:	
		MA	TERIAL: T	YPE 304 SERIES	STAINLESS ST	EEL
			TOP 16 (1 3/4 SS (18" X 18' TUE 8" C 1" X 4" H FULLY W GAUGE 1 5/8" DI, (4) L SS (WORKIN	GAUGE 304 STAIN 4" TURNED DOWN CHANNEL REINFO ' X 12" SS TUB WI 3 ON LEFT (L) OR 0.C. HOLES FOR E IGH REAR SPLAS VELDED 1 5/8" DIA 304 SS TUBE AMETER LEGS 16 LEGS FOR LENGT CLAD ADJUSTABI IG HEIGHT @ 36"	NLESS STEEL V N EDGE CONFIC DRCEMENT ITH 3 1/2" DIA. D ON RIGHT (R) DECK MOUNT F SH WITH 5/8" RA AMETER CROSS GAUGE 304 SS THS UP TO 96" LE BULLET FEE	VITH #4 FINISH GURATION PRAIN HOLE AUCET ADIUS COVE SBRACING 16 S TUBE
		AC	CESSORI	ES:		
			DRAIN B TIONS: TOP 14 (B SIZE: 18" X 24' LEFT SP	GAUGE 304 SS (-5 ' TUB 20" 'LASH (-L)	2-CLIP 5) ' X 20" TUB [RIGH ⁻] 24" X 24" TUB [SPLASH (-R)
	لا لا			IGHT SPLASH (-LI	R) 🗀 1"X6"	HIGH SPLASH
			HEIGHT	°C° @ 34°		
L	ENGTH "A"	MODEL # TUB 18") WIDTH "B" = 30	X 18" "	MODEL # TUE WIDTH "B	3 18" X 18" " = 36"	
	36"	WT36-1818(L/R)-CR	SX-30	WT36-1818(L/F	R)-CRSX-36	
	48"	WT48-1818(L/R)-CR	SX-30	WT48-1818(L/F	R)-CRSX-36	
	60"	WT60-1818(L/R)-CR	SX-30	WT60-1818(L/F	R)-CRSX-36	
	72"	WT72-1818(L/R)-CR	SX-30	WT72-1818(L/F	R)-CRSX-36	
	84"	WT84-1818(L/R)-CR	SX-30	WT84-1818(L/F	R)-CRSX-36	
	96"	WT96-1818(L/R)-CR	SX-30	WT96-1818(L/F	R)-CRSX-36	
	108"	WT108-1818(L/R)-CR	RSX-30	WT108-1818(L/I	R)-CRSX-36	
	120"	WT120-1818(L/R)-CR	RSX-30	WT120-1818(L/I	R)-CRSX-36	
	IARY		I		CALL FOR CUS	STOM SIZE & ON APPROVED JOB COPY

STAINLESS

FABRICATORS

1925 N. MacArthur Drive, Suite 300 - Tracy, CA 95376 - 209.740.4280 - Fax 209.740.4278

ITEM #14

Reviewed for Code Compliance Signed ______ 10/16/2024 Date _____ T&S Brass

B-1127-CR



T&S BRASS AND BRONZE WORKS, INC.

B-1127-CR

2 Saddleback Cove / P.O. Box 1088 Travelers Rest, SC 29690 ltem#: 15

B-1127

Item No.

Model No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com

	ITEM NO.	SALES NO.	DESCRIPTION
	1	B-0199-01	2.2 GPM Aerator, 55/64"-27 UN Female
	2	061X-A22	10" Swing Nozzle w/ 2.2 GPM Aerator
	3	019360-40	Swivel Nut (New Style)
	4	009538-45	Swivel Washer
	5	011429-45	Swivel Sleeves (2)
	6	001074-45	O-Ring
	7	019382-40	Quarter-Turn New Style Eterna Cartridge w/ Spring Check, LTC
	8	150A	1/4" NPT Tailpiece & Nut
	9	002954-45	Shank Lock Nut
	10	000999-45	Brass Lock Washer
	11	019375-40	B-1120 Eterna Workboard Escutcheon
	12	019376-40	Escutcheon Lock Nut
	13	019383-40	Quarter-Turn New Style Eterna Cartridge w/ Spring Check, RTC
	14	019361-45	Lever Handle (New Style)
	15	000925-45	Lab Handle Screw
	16	019363-45	Blue Button Index, Press-in
(2)	17	001017-45	Washer
	18	000082-40	B-1100 Knob
(3)	19	014200-45	Star Washer, Anti-Rotation
			$ \begin{array}{c} $
Product Specifications: 8" Wall Mount Workboard Faucet, Quarter-Turn Checks, Lever Handles, 10" Swing Nozzle, 2.2 G Inlets	Eterna Ca SPM Aera	artridges w/ Sprin tor & 1/2" NPT M	Approved g ASME A112.18.1 / CSA [*] B125 ^c 1 NSF 61 - Section 9 Section 9 NSF 372 (Low Lead Content) ANSI A117.1 (ADA)
Drawn: DHL Checked: JRM Approve	ed: JHB	Date: 06/0	1/16 Scale: NTS Sheet: 2 of 2

Capitola Community Center

East Bay Restaurant Supply, Inc.

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B-1105-KIT



B-1105-KIT

Item#: 15

T&S BRASS AND BRONZE WORKS, INC. 2 Saddleback Cove / P.O. Box 1088 Travelers Rest, SC 29690

Model No. **B-1105-KIT**

REG. #A2601 ISO #9001 Item No.

Travelers Rest, SC: 800-476-4103	Simi Valley,	CA: 800-423-0150	Fax: 864-834-3518 www.tsbrass.com	

ITEM NO.	SALES NO.	DESCRIPTION
1	B-1100-K	Elbow Kit (2 Elbows per Kit)
2	017420-45	24" Flexible Supply Hose (Sold Individually)



East Bay Restaurant Supply, Inc.

Sheet: 2 of 2 Page: 20



T&S BRASS AND BRONZE WORKS, INC. 2 Saddleback Cove / P.O. Box 1088 Travelers Rest, SC 29690

B-3950

Item#: 16

Model No.

B-3950

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com

ITEM NO.	SALES NO.	DESCRIPTION
1	010389-45	O-Ring, Plunger
2	010390-45	Ferrule, Coupling Nut
3	010391-45	Nut, Coupling For Twist Drain
4	010382-45	Gasket, 3 1/2" Face Flange
5	010384-45	Flange, 3 1/2" Face
6	010386-45	Strainer, 3 1/2" Snap-in Removable
7	010388-45	Plunger, Lever and Twist Drain
8	010393-45	Rotary Waste Valve Twist Handle
9	B-3945	Adapter, 2" NPT x 1 1/2" NPT



(6)

(5)

(4`

CCicco



Washers, O-Rings & Gaskets are included in Parts Kit B-39K

 $(\mathbf{7})$

(1)

012640-45 Waste Drain Overflow Cap w/ Sealing Washer (Included)



STAINLESS STEEL



HAND SINKS A.D.A COMPLIANT LAVATORIES WITH TAPERED SKIRT

Conforms To NSF 61/9 Lead Free Requirements





7-PS-41 / 7-PS-46 FEATURES: One piece Deep Drawn sink bowl design. Sink bowl is 14" x 16" x 5". Undermount Towel Dispenser. Deck mount liquid soap dispenser. Stainless Steel Skirt with Removable Access Panel and enclosed bottom

Qty #:

"Z" bracket wall mounting plate

Stainless steel 1-1/2" IPS basket drain.

Additional Unit Features:

K-175 splash mount hands free electronic operated gooseneck faucet.

K-206 6" splash mount extended "d" spout faucet with wrist handles.

7-PS-77-E / 7-PS-77-W FEATURES:

One piece Deep Drawn sink bowl design. Sink bowl is 14" x 16" x 5". Deck mount liquid soap dispenser. Stainless Steel Skirt with Removable Access Panel and enclosed bottom "Z" bracket wall mounting plate

Additional Unit Features:

K-175 splash mount hands free electronic operated gooseneck faucet.

K-206 6" splash mount extended "D" spout faucet with wrist handles.

CONSTRUCTION:

Welded areas blended to match adjacent surfaces and Die formed Countertop Edge with a 3/8" No-Drip offset. Bowl made from One sheet of stainless steel - No Seams.

Heavy gauge type 304 series stainless steel. Skirt - 16 gauge type 304 series stainless steel. Wall mounting bracket is Galvanized and of offset design. All fittings are brass / chrome plated unless otherwise indicated.

MECHANICAL:

Faucet supply is 1/2" IPS male thread hot and cold. Faucet Flow Rate: 1.0 GPM/3.8 LPM aerator. 60 PSI.

WARNING:

Equipment that includes a faucet may expose you to chemicals, including lead, that are known to the State of California to cause cancer or birth deve or other reproductive harm. For more Info., visit www.p65warning&P2R8VED



Customer Service Available To Assist You 1-800-645-3166 8:30 an E.S.T.

For Orders & Customer Service: Email: customer@advancetabco.com or Fax: 631-242-6900

For Smart Fabrication[™] Quotes: Email: smartfab@advancetabco.com or Fax: 631-586-2933

DIMENSIONS and SPECIFICATIONSITEM #17

TOL Overall: ± .500" Interior: ± .250"

FITTINGS SUPPLIED AS SHOWN

ALL DIMENSIONS ARE TYPICAL





ADVANCE TABCO

ADVANCE TABCO is constantly engaged in a program of improving our products. Therefore, we reserve the right to change specifications without prior notice. © ADVANCE TABCO, FEBRUARY 2020

(267 x 114 x 111 mm)





S890TBK

Mounts eas	Mounts easily with adhesive or screws						
Item	Color	Capacity	Dimensions H × W × D				
OCEANS® STYLE							
C000*		800 ml (can hold some 1000 ml bags)	10½" x 4½" x 4¾"				

0.9 ml portion dispensed

Oceans® Soap & Hand Sanitizer Dispensers

· Accommodates bulk or most 800 ml bag-in-box cartridges

· Accepts bulk hand sanitizers or lotion soap

TBL, TBK

Construction: Impact resistant plastic

S890*

Soap Dispensers - Lotion, Liquid or Foam

- · Accommodates a wide variety of liquid, lotion (except pumice) and foam soaps
- · Large push bar allows for easy dispensing

ltem	Color	Capacity	Dimensions $H \times W \times D$		
LIQUID & LOTION					
S30*	TBL, TBK	30 oz. (0.9 l) 0.8 ml portion dispensed	6¼" x 4½" x 4¼" (156 x 105 x 108 mm)		
FOAM					
SF30*	TBL, TBK	30 oz. (0.9 l) 0.4 ml portion dispensed	6¼" x 4½" x 4¼" (156 x 105 x 108 mm)		

Construction: Impact resistant plastic



S30TBK

Handwashing Station Value Pack

· Convenient solution to ensure employees have the tools to properly wash their hands

ltem	Includes
Т1730ТВК	(1) T1700TBK Ultrafold™ Towel Dispenser with handwashing instructions sticker (1) S30TBK Bulk Soap Dispenser

Construction: Impact resistant plastic





UNIVERSAL DISPENSING NO PAPER CONTRACTS



SIMPLE TO USE NO ADJUSTMENTS NEEDED



RELIABLE BEST BATTERY LIFE IN THE INDUSTRY

Universal. Simple. Reliable.

TEAR-N-DRY Essence is an electronic hands free dispenser that provides quick paper delivery; consistently dispensing 10" length towels without a wait. The Tear-N-Dry Essence is simple to use and requires no adjustments, making it easy to load, use and refill with the universal paper of your choice. Reliability and best battery life also make Essence the right choice to reduce maintenance battery costs. APPROVED JOB COPY

East Bay Restaurant Supply, Inc.

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smart. safe. sanitary.

Item#: 18



Features



	Item Numbers	Numbers Core Diameter Capa		Capacity/Dimensions Case Pack Weight		Weight			
\rightarrow	T8000TBK T8000TBL T8000WH	l 1/2" (38mm)	One 8" (200mm) wide roll; 8" (200mm) dia. I4 7/16"h x II 3/4"w x 9 I/8"d (367h x298w x232d mm)		I	4.1 lbs (1.9kgs)			
	Т8090ТВК Т8090ТВL	l 1/2" (38mm)	One 8" (200mm) wide roll; 8" (200mm) dia. 14 7/16"h x 11 3/4"w x 9 1/8"d (367h x298w x232d mm)		I	4.1 lbs (1.9kgs)	TBK TBL WH Black Pearl Arctic Blue White		
	×100960	Convertable hub system t	he hub system to 2" cone						
	Construction: Break Resist	tant Plastic; Requires 4 D-cell all	aline batteries.						
	San Jamar 555 Koopman Lane Elkhorn, Wisconsin USA T:+1.262.723.6133 F:+1.262.723.4204 info@sanjamar.com www.sanjamar.com	San Jamar C 3300 Bloor Sti 53121 Center Tower, Suite 3140 Tor M8X 2X3 CANADA T:+1.416.760.7 F:+1.416.207.	anada reet West I I th Floor ronto, ON 267 207 I	San Jamar Europe Schoorstraat 26a, bus I 2220 Heist op-den Berg BELGIUM T: +32 I522 8140 F: +32 I522 8148 emea@sanjamar.com	San Jamar Méxi Av. Universidad # Colonia Axotla Cf Del. Alvaro Obreg MEXICO, D.F. T: +52 (55) 36260 F: +52 (55) 5273 4 mexico@sanjamai	co 1377-701 201030 0 1772 1495 -com	Reviewed for Code Compliance Signed <u>With With Signed</u> Der With With Signed Sig		

Capitola Community Center

East Bay Restaurant Supply, Inc.

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CSF-CS32D			Item #:	Qty #:
SS 3 Compartme w/ Left & Right D	ent Sink)rainboar	rds	Model #: Project #:	
		MATERIAL: TYPE 30	94 SERIES STAINLESS S	FEEL
		 TOP 16 GAUGE LEFT AND 2 1/2" HIGH 1 1/2" SANI STAINLESS 12" DEEP SS TU 8" O.C. HOI 2" X 8" HIGH RE RADIUS COVE FULLY WELDEE CROSSBRACIN 1 5/8" DIAMETE SS SINK TU SS CLAD A WORKING HEIC 	304 STAINLESS STEEL RIGHT DRAINBOARDS - I ROLLED EDGE CONFIG TARY ROLL S STEEL CHANNEL REIN JB WITH 3 1/2" DIAMETEI LES FOR SPLASH MOUN EAR SPLASH, 45° RETUR O 1 5/8" DIAMETER REAR IGS 16 GAUGE 304 SS TU R LEGS 16 GAUGE 304 SS JB SOCKET PAD DJUSTABLE BULLET FE GHT @ 34"	WITH #4 FINISH 18" OR 24" 3URATION FORCEMENT R DRAIN HOLE IT FAUCET N WITH 5/8" AND SIDE JBE SS TUBE
Ų <u>на міртн</u>	}	ACCESSORIES: • DRAIN BASKET • SCRAP BASKE ⁻ • Z-CLIP	T #CSF-SB	
	1 ^{2"}			
1 1/2"	3/4		AINLESS STEEL (-S)	
®+	صة 			
				_
				3
			(-L OK -K)	-
		(2) 8° 0.C. SPI	_ASH MOUNT FAUCET H	OLES
TUB SIZE	DRAINBOARD SIZE	MODEL #	OVERALL SIZE LENGTH "A" X WIDTH	
18" X 18"	18"(24")	CS3-1818-2D18(24)	94"(106") X 23 1/2"	
18" X 24"	18"(24")	CS3-1824-2D18(24)	94"(106") X 29 1/2"	
24" X 24"	24"	CS3-2424-2D24	124" X 29 1/2"	



CALL FOR CUSTOM SIZE &

A OF CAPITO 1

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Reviewed for Code Compliance Signed ______ 10/162024 Date _____

CONFIGURATION

1925 N. MacArthur Drive, Suite 300 - Tracy, CA 95376 - 209.740.4280 - Fax 209.740.4278

T&S Brass

B-0133-12-CRBJ

Item#: 21



T&S BRASS AND BRONZE WORKS, INC. 2 Saddleback Cove / P.O. Box 1088 Travelers Rest, SC 29690

B-0133-12-CRBJ

Item#: 21

Model No.

B-0133-12-CRBJ

Item No.



Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800	0-423-0150 •	Fax: 864-834-3518	• www.tsbrass.com
	ITEM NO.	SALES NO.	DESCRIPTION
MILLED .	1	B-0107-J	1.07 GPM Spray Valve
3° - 3	2	010476-45	#27 Washer
T S o	3	000907-45	Spray Valve Hold Down Ring
	4	002987-40	Grip Handle
	5	001014-45	Washer, B-0100 Hose Barrel
	6	B-0044-H2A	44" Flexible Stainless Steel Hose,
	7	000888-45	EasyInstall Overhead Spring
	8	000821-40	Spring Body
	9	B-0109-01	6" Wall Bracket
(9)	10	004R	Finger Hook
	11	000369-40	3/8" NPT x 18" Riser
	12	B-0156-CR-SC	Add-On Faucet w/ Quarter-Turn Cerama Cartridge, Lever Handle & 12" Swing Nozzle
	13	EZ-K	EasyInstall Kit: Nut, Bushing, O-Ring & Lock Washer
	14	006562-45	O-ring
	15	014200-45	Star Washer, Anti-Rotation
col l	16	018506-19NS	Blue Button Index, Press-in
	17	000925-45	Lab Handle Screw
	18	012447-25NS	Quarter-Turn Cerama Cartridge w/ Check Valve, Handle, Blue Index & Screw, LTC
	19	012395-25NS	Quarter-Turn Cerama Cartridge w/ Check Valve, LTC
	20	00AA	1/2" NPT Female Eccentric Flange
	21	001019-45	Coupling Nut Washer
	22	012446-25NS	Quarter-Turn Cerama Cartridge w/ Check Valve, Handle, Red Index & Screw, RTC
	23	012394-25NS	Quarter-Turn Cerama Cartridge w/ Check Valve, RTC
	24	001638-45NS	Lever Handle (New Style)
	25	001193-19NS	Red Button Index, Press-in
	26	B-PT	Full Flow Stream Regulator, 55/64-27
	27	062X	12" Swing Nozzle w/ Stream Regulator Outlet
21 20			
Product Specifications: Pro Pinse Unit: EasyInstall 8" Wall Mount Mixing Foundt, Quarter Turn			Product Compliance: JOB COPY
Cerama Cartridges w/ Check Valves, Lever Handles, Add-On Faucet w/ 12" Swing Nozzle, 44" Flexible Stainless Steel Hose, 1.07 GPM Spray Valve, 6"			ASME A112.18.1 / CSA B125:1 NSF 61 - Section 9 NSF 372 (Low Lead Content)
Wall Bracket & 1/2" NPT Female Inlets			2019 DOE PRSV - Class

Capitola Community Center

Checked:

JRM

Approved:

LSA

Drawn:

Date:

09/20/19

Scale:

NTS

JHB

Page: 26

Sheet: 2 of 2
T&S Brass

B-0230-KIT



Capitola Community Center

East Bay Restaurant Supply, Inc.

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T&S Brass

T&S BRASS AND BRONZE WORKS, INC.

B-0230-KIT

2 Saddleback Cove / P.O. Box 1088 Travelers Rest, SC 29690 Model No.

Item#: 21

B-0230-KIT

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com

				ITEM NO.	SALES	NO.	DES	SCRIPTION	
	1			1	B-0230	-K	1/2" Inlet A Sets per K	ssembly Kit (; it)	2
				2	017420-	-45	24" Flexible (Sold Indiv	e Supply Hos idually)	е
1	P 🔍								
2									
		HALE CALLER							
		Northern and							
Product Specifications:						Produ	ict Compliance:	JOB COPY	
Inlet Kit: 1/2" Inlet Shanks, Close Elbows and 24" Flexible Supply Hoses						ASME NSF 6 NSF 3	E A112.18.1 / CS 61 - Section 9 372 (Low Lead (SA B125:1 Signed Attraction	
Drawn: JBC Checked:	JRM A	pproved:	JHB	Date:	02/23/16	S	cale: NTS	Sheet: 2	of 2

East Bay Restaurant Supply, Inc.

				Item #: Model #:	Qty #:
Stainles	s Steel W	all Shelf	NSF	Project #:	
		A	SUF #WS	PPORT BRACKETS: 5B-B-(L/R)-12, #WSB-B	-(L/R)-14,
MATERIAL: TY	PE 304 SERIES S	TAINLESS STEEL	#₩	3B-B-(L/R)-18	
					· - /
 1" Alf 1 1/2' #WSB-B-(STAINLES (2) SI (3) SI 	R SPACE BEHIND ' FRONT, LEFT & (L/R)-WIDTH SUPI SS STEEL - SHIPF UPPORT BRACKE UPPORT BRACKE	SHELF RIGHT TURNED DOV PORT BRACKETS 14 PED LOOSE ETS FOR LENGTHS 1 ETS FOR LENGTHS 7	WN END TI GAUGE JP TO 72" 78" - 120"	JRN UP: LEFT TURN UP (-L RIGHT TURN UP (LEFT / RIGHT TUF	-) -R) RN UP (-LR)
 1" Alf 1 1/2" #WSB-B-(STAINLES (2) SI (3) SI 	R SPACE BEHIND ' FRONT, LEFT & 'L/R)-WIDTH SUPF SS STEEL - SHIPF UPPORT BRACKE UPPORT BRACKE	SHELF RIGHT TURNED DOV PORT BRACKETS 14 PED LOOSE ETS FOR LENGTHS U ETS FOR LENGTHS 7 MODEL # WIDTH "B" = 12"	WN END GAUGE JP TO 72" '8" - 120" MODEL # WIDTH "B" = 14"	JRN UP: LEFT TURN UP (-L RIGHT TURN UP (LEFT / RIGHT TUF MODEL # WIDTH "B" = 18"	-) -R) RN UP (-LR)
 1" Alf 1 1/2" #WSB-B-(STAINLES (2) SI (3) SI 	R SPACE BEHIND ' FRONT, LEFT & 'L/R)-WIDTH SUPF SS STEEL - SHIPF UPPORT BRACKE UPPORT BRACKE LENGTH "A" 36"	SHELF RIGHT TURNED DOV PORT BRACKETS 14 PED LOOSE ETS FOR LENGTHS U ETS FOR LENGTHS 7 MODEL # WIDTH "B" = 12" WSB-3612	WN END GAUGE JP TO 72" 78" - 120" MODEL # WIDTH "B" = 14" WSB-3614	JRN UP: LEFT TURN UP (-L RIGHT TURN UP (LEFT / RIGHT TUF MODEL # WIDTH "B" = 18" WSB-3618	-) -R) RN UP (-LR)
 1" Alf 1 1/2' #WSB-B-(STAINLES (2) SI (3) SI 	R SPACE BEHIND ' FRONT, LEFT & 'L/R)-WIDTH SUPI SS STEEL - SHIPF UPPORT BRACKE UPPORT BRACKE LENGTH "A" 36" 48"	SHELF RIGHT TURNED DOV PORT BRACKETS 14 PED LOOSE ETS FOR LENGTHS I ETS FOR LENGTHS 7 MODEL # WIDTH "B" = 12" WSB-3612 WSB-4812	WN END GAUGE JP TO 72" 78" - 120" MODEL # WIDTH "B" = 14" WSB-3614 WSB-4814	JRN UP: LEFT TURN UP (-L RIGHT TURN UP (LEFT / RIGHT TUF MODEL # WIDTH "B" = 18" WSB-3618 WSB-4818	-) -R) RN UP (-LR)
 1" Alf 1 1/2' #WSB-B-(STAINLES (2) SI (3) SI 	R SPACE BEHIND ' FRONT, LEFT & 'L/R)-WIDTH SUPI SS STEEL - SHIPF UPPORT BRACKE UPPORT BRACKE UPPORT BRACKE LENGTH "A" 36" 48" 60"	SHELF RIGHT TURNED DOV PORT BRACKETS 14 PED LOOSE ETS FOR LENGTHS U TS FOR LENGTHS 7 MODEL # WIDTH "B" = 12" WSB-3612 WSB-4812 WSB-6012	WN END GAUGE JP TO 72" 78" - 120" MODEL # WIDTH "B" = 14" WSB-3614 WSB-4814 WSB-6014	JRN UP: LEFT TURN UP (-L RIGHT TURN UP (LEFT / RIGHT TUF WIDTH "B" = 18" WSB-3618 WSB-4818 WSB-6018	-) -R) RN UP (-LR)
● 1" AIF ● 1 1/2' ● #WSB-B-(STAINLES ● (2) SI ● (3) SI	R SPACE BEHIND ' FRONT, LEFT & (L/R)-WIDTH SUPI SS STEEL - SHIPF UPPORT BRACKE UPPORT BRACKE UPPORT BRACKE (UPPORT BRACKE (UPO	SHELF RIGHT TURNED DOV PORT BRACKETS 14 PED LOOSE ETS FOR LENGTHS I ETS FOR LENGTHS 7 MODEL # WIDTH "B" = 12" WSB-3612 WSB-4812 WSB-6012 WSB-7212	WN END GAUGE JP TO 72" 78" - 120" MODEL # WIDTH "B" = 14" WSB-3614 WSB-4814 WSB-6014 WSB-7214	JRN UP: LEFT TURN UP (-L RIGHT TURN UP (LEFT / RIGHT TUF WIDTH "B" = 18" WSB-3618 WSB-4818 WSB-6018 WSB-7218	-) -R) RN UP (-LR)
 1" Alf 1 1/2" #WSB-B-(STAINLES (2) SI (3) SI 	R SPACE BEHIND ' FRONT, LEFT & 'L/R)-WIDTH SUPF SS STEEL - SHIPF UPPORT BRACKE UPPORT BRACKE UPPORT BRACKE (LENGTH "A" 36" 48" 60" 72" 84"	SHELF RIGHT TURNED DOV PORT BRACKETS 14 PED LOOSE ETS FOR LENGTHS I ETS FOR LENGTHS 7 WODEL # WIDTH "B" = 12" WSB-3612 WSB-4812 WSB-6012 WSB-7212 WSB-7212	WN END GAUGE JP TO 72" 78" - 120" MODEL # WIDTH "B" = 14" WSB-3614 WSB-4814 WSB-6014 WSB-7214 WSB-7214	JRN UP: LEFT TURN UP (-L RIGHT TURN UP (LEFT / RIGHT TUF WIDTH "B" = 18" WSB-3618 WSB-4818 WSB-6018 WSB-7218 WSB-7218 WSB-8418	-) -R) RN UP (-LR)
• 1" Alf • 1 1/2' • #WSB-B-(STAINLES • (2) SI • (3) SI	R SPACE BEHIND ' FRONT, LEFT & 'L/R)-WIDTH SUPF SS STEEL - SHIPF UPPORT BRACKE UPPORT BRACKE UPPORT BRACKE 48" 60" 72" 84" 96"	SHELF RIGHT TURNED DOV PORT BRACKETS 14 PED LOOSE ETS FOR LENGTHS I ETS FOR LENGTHS 7 WODEL # WIDTH "B" = 12" WSB-3612 WSB-4812 WSB-6012 WSB-7212 WSB-7212 WSB-8412 WSB-9612	WN END GAUGE JP TO 72" 78" - 120" WODEL # WIDTH "B" = 14" WSB-3614 WSB-4814 WSB-6014 WSB-7214 WSB-7214 WSB-8414 WSB-9614	JRN UP: LEFT TURN UP (-L RIGHT TURN UP (LEFT / RIGHT TUF WIDTH "B" = 18" WSB-3618 WSB-4818 WSB-6018 WSB-7218 WSB-8418 WSB-9618	-) -R) RN UP (-LR)
• 1" Alf • 1 1/2' • #WSB-B-(STAINLES • (2) SI • (3) SI	R SPACE BEHIND ' FRONT, LEFT & 'L/R)-WIDTH SUPF SS STEEL - SHIPF UPPORT BRACKE UPPORT BRACKE UPPORT BRACKE 108"	SHELF RIGHT TURNED DOV PORT BRACKETS 14 PED LOOSE ETS FOR LENGTHS I ETS FOR LENGTHS 7 WODEL # WIDTH "B" = 12" WSB-3612 WSB-4812 WSB-6012 WSB-7212 WSB-7212 WSB-7212 WSB-7212 WSB-7212	WN END GAUGE JP TO 72" 78" - 120" WODEL # WIDTH "B" = 14" WSB-3614 WSB-4814 WSB-6014 WSB-7214 WSB-7214 WSB-8414 WSB-9614 WSB-9614	JRN UP: LEFT TURN UP (-L RIGHT TURN UP (LEFT / RIGHT TUF WIDTH "B" = 18" WSB-3618 WSB-4818 WSB-6018 WSB-7218 WSB-7218 WSB-8418 WSB-9618 WSB-10818	-) -R) RN UP (-LR)
• 1" Alf • 1 1/2" • #WSB-B-(STAINLES • (2) SI • (3) SI	R SPACE BEHIND ' FRONT, LEFT & 'L/R)-WIDTH SUPF SS STEEL - SHIPF UPPORT BRACKE UPPORT BRACKE UPPORT BRACKE 100" 108" 120"	SHELF RIGHT TURNED DOV PORT BRACKETS 14 PED LOOSE ETS FOR LENGTHS I ETS FOR LENGTHS I WIDTH "B" = 12" WSB-3612 WSB-4812 WSB-6012 WSB-7212 WSB-7212 WSB-7212 WSB-7212 WSB-7212 WSB-7212	WN END GAUGE JP TO 72" 78" - 120" WODEL # WIDTH "B" = 14" WSB-3614 WSB-4814 WSB-6014 WSB-7214 WSB-7214 WSB-7214 WSB-8414 WSB-9614 WSB-10814 WSB-12014	JRN UP: LEFT TURN UP (-L RIGHT TURN UP (LEFT / RIGHT TUF WIDTH "B" = 18" WSB-3618 WSB-4818 WSB-6018 WSB-7218 WSB-7218 WSB-8418 WSB-9618 WSB-10818 WSB-12018	-) -R) RN UP (-LR)
• 1" Alf • 1 1/2" • #WSB-B-(STAINLES • (2) SI • (3) SI	R SPACE BEHIND ' FRONT, LEFT & 'L/R)-WIDTH SUPF SS STEEL - SHIPF UPPORT BRACKE UPPORT BRACKE UPPORT BRACKE 100" 108" 120"	SHELF RIGHT TURNED DON PORT BRACKETS 14 PED LOOSE ETS FOR LENGTHS I ETS FOR LENGTHS 7 MODEL # WIDTH "B" = 12" WSB-3612 WSB-4812 WSB-6012 WSB-7212 WSB-7212 WSB-7212 WSB-7212 WSB-7212	WN END TI GAUGE □ JP TO 72" √ '8" - 120" √ MODEL # √ WIDTH "B" = 14" √ WSB-3614 √ WSB-4814 √ WSB-6014 √ WSB-7214 √ WSB-8414 √ WSB-9614 √ WSB-10814 √ WSB-12014 √	JRN UP: LEFT TURN UP (-L RIGHT TURN UP (LEFT / RIGHT TUF WIDTH "B" = 18" WSB-3618 WSB-4818 WSB-6018 WSB-7218 WSB-7218 WSB-7218 WSB-9618 WSB-10818 WSB-10818	-) -R) RN UP (-LR)
•• 1" Alf •• 1 1/2' • #WSB-B-(STAINLES •• (2) SI •• (3) SI	R SPACE BEHIND ' FRONT, LEFT & L/R)-WIDTH SUPF SS STEEL - SHIPF UPPORT BRACKE UPPORT BRACKE LENGTH "A" 36" 48" 60" 72" 84" 96" 108" 120" NARY	SHELF RIGHT TURNED DON PORT BRACKETS 14 PED LOOSE ETS FOR LENGTHS I TS FOR LENGTHS 7 WODEL # WIDTH "B" = 12" WSB-3612 WSB-4812 WSB-6012 WSB-6012 WSB-7212 WSB-7212 WSB-8412 WSB-9612 WSB-10812	WN END GAUGE JP TO 72" 78" - 120" WIDTH "B" = 14" WSB-3614 WSB-3614 WSB-4814 WSB-6014 WSB-7214 WSB-8414 WSB-9614 WSB-10814 WSB-12014	JRN UP: LEFT TURN UP (-L RIGHT TURN UP (LEFT / RIGHT TUF WIDTH "B" = 18" WSB-3618 WSB-4818 WSB-6018 WSB-6018 WSB-7218 WSB-7218 WSB-8418 WSB-9618 WSB-10818 WSB-10818 WSB-12018	-) -R) RN UP (-LR) ISTOM SIZE & ION

				Item #:	Qty #: _
			\frown	Model #:	
Stainles	s Steel W	/all Shelf	NSF	Project #:	
			#WS #WS	SB-B-(L/R)-12, #WSB-B- SB-B-(L/R)-18	-(L/R)-14,
MATERIAL: TY	PE 304 SERIES S	STAINLESS STEEL			
●● 2" HI(J SHELF 16 GAUGE	SS (-S)
•• 1" AIF •• 1 1/2' • #WSB-B-(STAINLES •• (2) SU •• (3) SU	GH REAR TURN (R SPACE BEHIND " FRONT, LEFT & (L/R)-WIDTH SUP SS STEEL - SHIPF UPPORT BRACKE UPPORT BRACKE) SHELF RIGHT TURNED DO PORT BRACKETS 14 PED LOOSE ETS FOR LENGTHS I ETS FOR LENGTHS 7	WN END T GAUGE [JP TO 72" [78" - 120"	URN UP:] LEFT TURN UP (-L] RIGHT TURN UP (] LEFT / RIGHT TUR	.) -R) RN UP (-LR)
•• 1" AIF •• 1 1/2' • #WSB-B-(STAINLES •• (2) SI •• (3) SI	GH REAR TURN (R SPACE BEHIND "FRONT, LEFT & (L/R)-WIDTH SUPI SS STEEL - SHIPF UPPORT BRACKE UPPORT BRACKE	MODEL # WIDTH "B" = 12"	WN END GAUGE JP TO 72" 78" - 120" MODEL # WIDTH "B" = 14"	URN UP: LEFT TURN UP (-L RIGHT TURN UP (- LEFT / RIGHT TUF MODEL # WIDTH "B" = 18"	-) -R) RN UP (-LR)
•• 1" AIF •• 1 1/2' • #WSB-B-(STAINLES •• (2) SI •• (3) SI	CH REAR TURN (R SPACE BEHIND "FRONT, LEFT & (L/R)-WIDTH SUPI SS STEEL - SHIPF UPPORT BRACKE UPPORT BRACKE LENGTH "A" 36"	MODEL # WSB-3612 WSB-3612	WN END GAUGE JP TO 72" 78" - 120" MODEL # WIDTH "B" = 14" WSB-3614	URN UP: LEFT TURN UP (-L RIGHT TURN UP (- LEFT / RIGHT TUR MODEL # WIDTH "B" = 18" WSB-3618	-) -R) RN UP (-LR)
•• 1" AIF •• 1 1/2' • #WSB-B-(STAINLES •• (2) SI •• (3) SI	GH REAR TURN (R SPACE BEHIND "FRONT, LEFT & (L/R)-WIDTH SUPI SS STEEL - SHIPF UPPORT BRACKE UPPORT BRACKE LENGTH "A" 36" 48"	MODEL # WIDTH "B" = 12" WSB-3612 WSB-4812	WN END GAUGE JP TO 72" 78" - 120" MODEL # WIDTH "B" = 14" WSB-3614 WSB-4814	URN UP: LEFT TURN UP (-L RIGHT TURN UP (- LEFT / RIGHT TUR MODEL # WIDTH "B" = 18" WSB-3618 WSB-4818	-) -R) RN UP (-LR)
•• 1" AIF •• 1 1/2' • #WSB-B-(STAINLES •• (2) SI •• (3) SI	CH REAR TURN (R SPACE BEHIND "FRONT, LEFT & (L/R)-WIDTH SUP SS STEEL - SHIPF UPPORT BRACKE UPPORT BRACKE LENGTH "A" 36" 48" 60"	MODEL # WIDTH "B" = 12" WSB-3612 WSB-6012	WN END GAUGE JP TO 72" 78" - 120" MODEL # WIDTH "B" = 14" WSB-3614 WSB-4814 WSB-6014	URN UP: LEFT TURN UP (-L RIGHT TURN UP (- LEFT / RIGHT TUR MODEL # WIDTH "B" = 18" WSB-3618 WSB-4818 WSB-6018	-) -R) -N UP (-LR)
•• 1" AIF •• 1 1/2' • #WSB-B-(STAINLES •• (2) SI •• (3) SI	CH REAR TURN (R SPACE BEHIND "FRONT, LEFT & (L/R)-WIDTH SUPI SS STEEL - SHIPF UPPORT BRACKE UPPORT BRACKE LENGTH "A" 36" 48" 60" 72"	MODEL # WIDTH "B" = 12" WSB-3612 WSB-6012 WSB-7212	WN END GAUGE JP TO 72" 78" - 120" MODEL # WIDTH "B" = 14" WSB-3614 WSB-4814 WSB-6014 WSB-7214	URN UP: LEFT TURN UP (-L RIGHT TURN UP (- LEFT / RIGHT TUR MODEL # WIDTH "B" = 18" WSB-3618 WSB-4818 WSB-6018 WSB-7218	-) -R) -N UP (-LR)
•• 1" AIF •• 1 1/2' • #WSB-B-(STAINLES •• (2) SI •• (3) SI	CH REAR TURN (R SPACE BEHIND "FRONT, LEFT & (L/R)-WIDTH SUPI SS STEEL - SHIPF UPPORT BRACKE UPPORT BRACKE LENGTH "A" 36" 48" 60" 72" 84"	MODEL # WIDTH "B" = 12" WSB-3612 WSB-7212 WSB-8412 WSB-8412	WN END GAUGE JP TO 72" 78" - 120" MODEL # WIDTH "B" = 14" WSB-3614 WSB-4814 WSB-6014 WSB-7214 WSB-8414	URN UP: LEFT TURN UP (-L RIGHT TURN UP (- LEFT / RIGHT TUR MODEL # WIDTH "B" = 18" WSB-3618 WSB-3618 WSB-6018 WSB-7218 WSB-7218 WSB-8418	-) -R) RN UP (-LR)
• 1" AIF • 1 1/2' • #WSB-B-(STAINLES • (2) SI • (3) SI	CH REAR TURN (R SPACE BEHIND "FRONT, LEFT & (L/R)-WIDTH SUPI SS STEEL - SHIPF UPPORT BRACKE UPPORT BRACKE UPPORT BRACKE A8" 60" 72" 84" 96"	MODEL # WIDTH "B" = 12" WSB-3612 WSB-8412 WSB-9612	WN END GAUGE JP TO 72" 78" - 120" MODEL # WIDTH "B" = 14" WSB-3614 WSB-3614 WSB-4814 WSB-6014 WSB-7214 WSB-7214 WSB-8414 WSB-8414	URN UP: LEFT TURN UP (-L RIGHT TURN UP (- LEFT / RIGHT TUR MODEL # WIDTH "B" = 18" WSB-3618 WSB-4818 WSB-6018 WSB-7218 WSB-7218 WSB-8418 WSB-9618	-) -R) RN UP (-LR)
•• 1" AIF •• 1 1/2' • #WSB-B-(STAINLES •• (2) SI •• (3) SI	CH REAR TURN (R SPACE BEHIND "FRONT, LEFT & (L/R)-WIDTH SUP SS STEEL - SHIPF UPPORT BRACKE UPPORT BRACKE UPPORT BRACKE 48" 60" 72" 84" 96" 108"	MODEL # WIDTH "B" = 12" WSB-3612 WSB-7212 WSB-8412 WSB-9612 WSB-10812	WN END GAUGE JP TO 72" 78" - 120" WODEL # WIDTH "B" = 14" WSB-3614 WSB-3614 WSB-4814 WSB-6014 WSB-7214 WSB-7214 WSB-8414 WSB-9614 WSB-9614	URN UP: LEFT TURN UP (-L RIGHT TURN UP (- LEFT / RIGHT TUR WIDTH "B" = 18" WSB-3618 WSB-4818 WSB-6018 WSB-7218 WSB-7218 WSB-8418 WSB-9618 WSB-9618 WSB-10818	-) -R) -R UP (-LR)
•• 1" AIF •• 1 1/2' • #WSB-B-(STAINLES •• (2) SI •• (3) SI	CH REAR TURN (R SPACE BEHIND "FRONT, LEFT & (L/R)-WIDTH SUP SS STEEL - SHIPF UPPORT BRACKE UPPORT BRACKE UPPORT BRACKE 48" 60" 72" 84" 96" 108" 120"	MODEL # WIDTH "B" = 12" WSB-3612 WSB-3612 WSB-3612 WSB-3612 WSB-7212 WSB-9612 WSB-12012	WN END GAUGE JP TO 72" 78" - 120" MODEL # WIDTH "B" = 14" WSB-3614 WSB-3614 WSB-4814 WSB-6014 WSB-7214 WSB-7214 WSB-8414 WSB-9614 WSB-10814 WSB-12014	URN UP: LEFT TURN UP (-L RIGHT TURN UP (- LEFT / RIGHT TUR WIDTH "B" = 18" WSB-3618 WSB-4818 WSB-6018 WSB-7218 WSB-7218 WSB-8418 WSB-9618 WSB-10818 WSB-12018	-) -R) -R UP (-LR)

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REV. 2_1707





CUH HIGH TEMPERATURE Undercounter





SPECIFIER STATEMENT

Specified unit will be NSF rated, **Centerline by Hobart** high temperature undercounter dishwasher. Features soft start, two selectable cycles, one standard 2-minute cycle with optional extended cycle (factory set at 240 seconds); .84 gallons per rack, LED temperature and operator display, service diagnostics, detergent and rinse aid pumps. Constructed of stainless steel.

1 year parts and labor warranty.

Capitola Community Center

Project		
AIA #	_ SIS #	
Item #	Quantity	C.S.I. Section 114000

MODELS

□ CUH High temperature rinse

STANDARD FEATURES

- + 24 racks per hour
- + .84 gallons of water per rack
- + Hot water sanitizing
- + Top-mounted user interface with digital temperature display
- + 2-minute cycle with optional extended cycle
- + 14.46" door opening
- + Snap-in, revolving upper and lower anti-clogging wash & rinse arm; low-profile, single-arm design
- + Sense-a-Temp[™] ensures 180°F final rinse
- + Integrated booster heater capable of 70°F rise
- + Removable, 3-part stainless steel scrap screen
- + Soft start
- + Automatic pumped drain
- + Automatic fill
- + Service diagnostics with error notifications
- + Delime notification and cycle
- + Chemical pumps standard
- + Electric tank heat
- + Two dishracks one peg and one combination type

OPTIONS & ACCESSORIES (Available at extra cost)

- □ Upper/lower stainless steel wash and rinse arm kit
- □ Chemical sensing indicators (low chemical alert)
- Stainless steel stand with rack storage and telescoping legs (legs <u>in</u> provide 15⁵/₁₆" of additional height; legs <u>out</u> provide 17⁷/₈" of additional height)
- Peg rack
- Combination rack
- Power cord kits
- DWT Drain water tempering kit



HOBART • 701 S Ridge Avenue, Troy, OH 45373 • 1-888-4HOBART • www.hobartcorp.com Center East Bay Restaurant Supply, Inc. F40886 (11/23) Page 1 of 2 Page: 29

centerlir by

LEGEND

	Electrical Connections
E1	Electrical connection: 1-3/8" dia. hole for 1" trade size conduit; 1-5/8" AFF.
	Plumbing Connections
P1	Single fill and rinse connection: 3/4" female garden hose fitting on 6' long hose supplied with machine; 110°F water minimum for CUH approximately 1-13/16" AFF.
P2	Drain connection: 19mm O.D. barb fitting with 6' long hose supplied with machine.
Р3	Chemical supply: Detergent and rinse aid; approximately 1-5/8" AFF. 63" long, 6mm O.D. tubing supplied with machine.

WARNING: Electrical and grounding connections must comply with the applicable portion of the National Electrical Code and/or other local electrical codes.

Plumbing connections must comply with applicable sanitary, safety, and plumbing codes.

(E1) STANDARD ELECTRICAL OPTIONS

Voltage	Rated Amps	Minimum Supply Circuit Ampacity	Maximum Protective Device
208/60/1	24.2	30	30
240/60/1	27.5	30	30

NOTE: For supply connections, use copper wire only rated at 90°C minimum.

Accessory cord kit available for all models.

Dishmachine not provided with internal GFCI protection.



As continued product improvement is a policy of Hobart, specifications are subject to change without notice.

CUH HIGH TEMPERATURE Undercounter

SPECIFICATIONS

Heat Output, BTU/Hour				
Volts	Latent	Sensible		
208	4,300	1,800		
240	5,600	2,400		





S CAD and/or Revit Files Available

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East Bay Restaurant Supply, Inc.

Capitola Community Center

California Cooking Shelves

CALIFORNIA COOKING SHELVING IS RUST-RESISTANT WITH a specially formulated epoxy coating that is electrostatically applied and thermostatically cured to a hard, smooth, satin gloss finish.

CALIFORNIA COOKING SHELVING is perfect for high humidity conditions such as walk-in coolers and freezers or dry air conditions such as store room or pantry. Assembly is a breeze. Just snap the collar adapters into the grooves on the posts (they come in 1 inch increments) and slide the shelf on. Each shelf includes 4 collar adapters and come in a variety of sizes for every possible use.

Shelf Dimensions:

DEPTHS: 14", 18", 21", and 24" **WIDTHS:** 24", 30", 36", 42", 48", 54", 60" and 72"





For More Information Contact:

510.627.0296 TEL 510.465.2138 FAX

49 Fourth Street Oakland, CA 94607

EQUIPMENT DISTRIBUTORS





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SZS CONSULTING GROUP -DRAFT ADA TRANSITION PLAN



SZS CONSULTING GROUP

CAPITOLA COMMUNITY CENTER

DRAFT ADA TRANSITION PLAN



CITY OF CAPITOLA, CALIFORNIA





Sacramento Office 770 L Street, Suite 950 Sacramento, CA 95814 Email: Info@szs-consulting.com Tel: 916.669.8750 Fax: 888.211.7441

Silicon Valley Office 2225 E. Bayshore Road, Suite 200 Palo Alto CA 94303 Tel: 866.694.7637 www.szs-consulting.com

June 28, 2017



Brian Van Son Chief Building Official City of Capitola 420 Capitola Avenue Capitola, CA 95010

Re: CAPITOLA COMMUNITY CENTER – ADA TRANSITION PLAN UPDATE

Dear Mr. Van Son,

We are pleased to submit this report as a first step in the ADA Transition Plan update process. We were able to learn a great deal about the City's facilities and the report will be useful in creating an updated digital remediation program for your team to implement.

Please review the report and provide input. We welcome collaboration in this process.

Contact me with any questions you may have.

Regards,

Syn 2. Smi

Syroun Z. Sanossian, Principal SZS Consulting Group LLC



10/16/2024 Date _____



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1. EXECUTIVE SUMMARY

The field investigation began on April 20, 2017. Images of each physical element identified in this report were captured in HD digital photos while manual measurements were taken to establish as-built conditions for the process of cost estimating. Digital photographs are provided within this report for each barrier to access to facilitate the review of the data collected. Technical data can be interpreted more efficiently with a visual component; the photos provide a clear connection between the technical data described in each barrier data record and the physical barrier to access identified.

When taking measurements in exterior areas, visual markers are used to indicate the location or beginning and end of a barrier such as cross slope. Red cups or the digital level used to take measurements will be used in photos as a visual marker to indicate the location of these exterior barriers within the context of the existing site conditions.

The Community Center is a structure built before the enforcement of the Americans with Disabilities Act and many barriers to access were identified in the building. That is quite typical, as barriers to access exist in virtually every building, whether new or existing.

No "perfect" building exists in the real world.

This update to the existing ADA Transition Plan report is intended to not only identify barriers to access, but to provide solutions. This report provides information on physical barriers to access and the accompanying Self-evaluation document will allow coordination of programs, services and activities (programs) provided by the City to ensure that when these programs are viewed in their entirety, they are readily accessible to and usable by individuals with disabilities.

The goal is to create a *barrier-free* environment.

This concept is referred to as *Program Access*¹, and it allows an ADA Title II like the City of Capitola to move a program to an accessible location, or use other methods to make it accessible rather than relying only on architectural changes to facilities to make the programs, services, or activities the City provides readily accessible to and usable by individuals with disabilities.

The basis for this process is the underlying desire on the part of the City of Capitola to improve access for people with disabilities. The intent of this report is to provide information in a clear and usable format. The information in this report is compiled for use by designated City staff and other interested persons. The content is designed to be understood by professionals and laymen alike.

The findings presented are both narrative and technical in nature. Physical barriers to access identified during the field investigation process are documented in two ways:



¹ ADA Title II Technical Assistance Manual, Section 5.000 Program Accessibility. 28 CFR 35.149-35.150.



- 1. <u>Summary and Analysis:</u> An analysis of findings is provided in a narrative form that describes particular barriers identified in the following records to help ensure that the findings for atypical situations can be further explained. The intent of this information is to provide a discussion on the functionality of physical elements. Background reasoning and research behind the identification of barriers is also provided where universal design principles may play a role. This analysis may be accompanied by digital photographs or diagrams, where applicable. Understanding building function and usage is essential when interpreting the findings held in this report. The narrative is intended to facilitate this process.
- 2. <u>Barrier Data Records</u>: Individual barriers to access are entered into the ADA/Access Compliance database so that technical information on each individual barrier can be provided a barrier data record. These barrier data records include detailed information including digital photographs of each barrier identified, code references that determine the barrier to access, as-built measurements, barrier severity ratings, budgetary cost estimates, recommended solutions for barrier removal and a priority for barrier removal will be assigned in the final report. The information is formatted with two barriers on each report page.

Each barrier identified in this report is designated as either required for removal or recommended for removal. State and federal model code provide the basis for most of the barrier identification contained in this report. There are other barriers to access that are dictated by case law precedent, vehicle code, health, safety code and labor code. Most barriers identified in this report are based on those requirements but additional barriers exist that are not based in these regulations or statutes. Barriers that are recommended for removal are based on pending regulations or good practices. The associated field provides two options for each barrier: Required or Recommended.

It is important to note that the barriers identified in this report reflect the most stringent requirements from the 2010 ADA Standards, California Code of Regulations/Title 24 and the California edition of the Manual on Uniform Traffic Control Devices (MUTCD). These model codes are not identical and contain conflicting requirements. This report is based on the most stringent requirements taken from these model codes.

In order to consolidate the barrier data, some of the more typical barriers found in multiple locations have been grouped within the barrier data records with a description of the locations in which they were found. For instance, this occurs where barriers were identified in stairways that have existing handrails that continue through multiple floors.

A. SAFE HARBOR PROVISIONS

One of the goals of this project is to ensure that the City of Capitola can make use of the *safe harbor* provision contained in the 2010 ADA Standards. This federal rule applies to provisions in the ADA Standards and is applied on an element-by-element basis for elements that complied with the 1991 ADA Standards. The rule includes a general "safe harbor" under which physical elements in the City's facilities, that were built or altered in compliance with the 1991 Standards, would not be required to be brought into compliance with the 2010 Standards until the elements were subject to a planned alteration. A similar safe harbor applies to elements associated with the "path of travel" to an altered area.





that are not eligible for the safe harbor in § 35.150(b)(2)(ii)(A) through § 35.150(b)(2)(ii)(L) of the final rule², which includes golf courses, recreation areas, play areas and other areas not originally covered by the 1990 Standards that are now included in the 2010 Standards.

The most common area where safe harbor applies in this particular facility is within the reach range requirements. Previous requirements under the 1990 ADA Standards allowed high reach range to extend to a maximum of 54 inches high, whereas the 2010 ADA Standards now require the maximum reach of only 48 inches. Many controls and mechanisms can be granted safe harbor under this federal provision. Safe harbor does not apply to areas where an alteration to the permanent room or space has been performed since 1990, which required the element (e.g. light switch) to comply with the standards in place at the time of the alteration.

B. OFFICIAL RESPONSIBLE

The Official Responsible for the City of Capitola is the City's ADA Coordinator. Brian Van Son has been designated as the ADA Coordinator (ADA CO) in charge of the ADA Transition Plan remediation during the time in which these reports have been compiled. He can be reached at (831) 475-7300 or bvanson@ci.capitola.ca.us. It is likely that the person in this position will change over time through attrition, retirement. At that time, another ADA CO will be named and take over these responsibilities.

C. RECOMMENDED BARRIER REMOVAL PRIORITIES

The functions within the buildings were assigned a barrier removal priority. In order to prioritize barrier removal within facilities for implementation over time, we must correlate the City programs, activities and services that take place within City buildings that serve people with disabilities. This process is on-going as part of the Self-evaluation and this report will be updated when those findings are complete. Barriers to access identified in the exterior and interior spaces have been prioritized according to the following criteria:

- **Priority 1**: Pedestrian route including access to the building from points of arrival and from the building site, including walkways and breezeways and potential hazards (see stairways below). Building entrances and lobby spaces
- **Priority 2**: Primary building functions (classrooms, meeting rooms, auditoriums, corridors, play areas, etc.)
- **Priority 3**: Restrooms, drinking fountains and benches or tables in public places
- **Priority 4**: Interior and exterior stairways, signage and remaining barriers that affect people with disabilities as a low severity barrier







Finalized barrier priorities can be influenced by information on other factors provided by the City of Capitola. These factors include:

- Number and type of programs, services and activities that take place in the facility
- Frequency of use by the general public
- Age of facility (pre-1992 existing or new construction post-1992)
- Type of use (public, staff or mixed use)
- Long-term Facility Planning Goals
 - Infrastructure improvement projects
 - Facility replacement as part of future CIP plans

D. COST ESTIMATES

This report contains budgetary cost estimates provided to facilitate the process of determining a reasonable barrier removal phasing schedule that corresponds to the financial constraints that the City of Capitola can forecast into the future. Cost estimates are provided for physical elements only while the cost of implementing a new policy or practice cannot be accurately assessed at this point in the process. The actual cost estimates are calculated using RS Means Construction Cost Estimating data and in some instances where a barrier location can have several different barriers to access, one or more of the barriers may have a cost estimate of \$0 dollars. This is an intentional reporting mechanism as it reflects the fact that the cost to remove that particular barrier is part of a cost of one or more barriers at that same location.

For instance, where a door equipped with a door closer is identified with a non-compliant opening force, sweep period and a lack of required maneuvering clearance on one or both sides of that door, the recommended barrier removal solution is often to install an automatic door opening device (ADOD), which at the time of this assessment is estimated to cost \$5,000. If each of those barriers to access had been reported with a cost estimate, the estimate could amount to 3 times that much, or \$15,000 if the correction to 2 of the 3 cost estimates was not performed. The end result is intended to produce a budgetary cost estimate that does not include amounts that could exponentially increase the overall cost of barrier removal implementation plans.

E. EXTERIOR SPACES

This report provides information on City pedestrian facilities that serve the Community Center. Many physical elements are part of the comprehensive whole that creates a facility. The descriptions provided for physical elements in the barrier data records contained in this report are intended to clearly describe each physical element. The fundamental elements evaluated in exterior facilities associated with the buildings and entrances include:

- Walkways
- Ramps
- Elevators





- Stairways (95% of people with disabilities are **not** mobility-impaired)
- Benches or Other Seating Elements
- Tables
- Access to Monuments or Displayed Information

These narrative descriptions are intended to explain how the elements interact to form a comprehensive approach to access within this facility. Specific information described within this section provides guidance on determinations made in this report.

The key to providing accessible facilities is to recognize that different people with disabilities have different needs. Setting policies that speak to the entire group is essential, rather than focusing on one particular subset of the overall group. Universal design principles can play a role here. Physical elements should be usable to everyone that visits the City without having to resort to any adaptation or specialized design.

As a public building that was constructed prior to the passage of the ADA, the Community Center should have at least one accessible entrance. The main entrance to the building is located at the front of the building and has a connection to the existing accessible parking and the existing sidewalk along Jade Street. The Community Center was identified with an accessible route provided within the building site that connects the existing sidewalk to the exterior and interior amenities provided, including a connection to public streets and sidewalks; and public transportation stops to the accessible building or facility entrance³, as required by the 1990 and 2010 ADA Standards and California Code of Regulations Title 24. City sidewalks are not included in this scope of work.

F. FACILITY ENTRANCES

The main entrance is located in the center of the building in front of a pair of parking stalls identified as accessible. The path of travel to the entrance is a concrete path that is sloped in two locations to drain inlets that create a difficult path to travel for people using wheelchairs. The benches located along the path also lack a level landing adjacent to at least one of the benches. The outdoor patio is located on the east side of the building with access points through the kitchen, classroom C and a pedestrian path east of the building.

The walking surface of the patio was identified with wooden framing that has deteriorated over time creating abrupt changes in level that should be remedied to provide a smooth, abrupt-free travel surface. Non-compliant cross slopes in that area were also identified in the areas near drain inlets. Benches were identified with level areas adjacent to more than one bench and the doorway into the classroom adjacent to the patio was free of abrupt changes in level. The kitchen entrance threshold should be replaced to provide access into that space from the patio.

The paved pathways surrounding the Community Center also connect the Center to the play area and the park.



³ 2010 ADA Standards for Accessible Design, Section 206.2.1 Site Arrival Points



G. REPORT FORMAT - DEFINITIONS

		City of Capitola - City Hall
	Field Date:	2/6/2017 Report Date: 2/7/2017 Barrier #: 1
5	Facility:	City Hall
6	Location:	Parking Lot
$\overline{7}$	Official Respo	nsible: Brian Van Son, ADA Coordinator
8	Facility Functi	on: Public Dwg: 1 of 3
10	Barrier Area:	Parking Remediation: Required
12	Barrier Type:	Van Accessible Stall
13	Barrier Description:	No van accessible stall provided in parking lot
14	Code Referen	ces: CBC 11B.208.2.4 22
15	As Built Description:	Where 8 stalls are identified as accessible, no van accessible stall is provided 20
16	Proposed Solution:	Provide min. one van accessible stall per every six accessible stalls (1:6 ratio) for a total of 2 van accessible stalls
17	As-Built Meas	2 Quantity: EACH Cost Estimate: \$1,026.00 BSR: 1 Necessary
21	X Coordinate:	-121.953464699909 Y Coordinate: 36.9743577204644 Z Coordinate: 6.85498046875
24	Implementati	on: Priority 1 Phase Date Status Open 27
28	Notes:	26

This is the Graphic User Interface (GUI) for the ADA Transition Plan database entry form. The name of each facility is located at the top of the form and the reports produced by the database have a similar format with identical fields although they are, in some instances, slightly different in size. A description for the data contained within each field is provided below:

- 1) Field Date: The date of the facility inspection.
- 2) Report Date: The date the report was compiled, revised or completed.
- **3) Barrier #:** Individual number assigned to each barrier identified. The alphanumeric character assigned correlates with a room or space identified on the reference drawings provided with each report. This number allows the barrier to be pinpointed to a location within the facility.
- 4) Image: Digital photograph provided for each barrier as a visual representation of the issue and context.
- 5) Facility: Name of building, park or parking lot where the inspection was performed APPROVED JOB COPY
- 6) Location: Area or space within the facility where a barrier is identified





- **7) Official Responsible:** Public or private entity responsible for the facility and the remediation of the barriers
- 8) Facility Function (Public/Staff): Designates barriers as located in either staff or public areas. Most barriers identified are designated for public use. Different requirements exist for public and staff use areas.
- 9) Reference Drawing (Dwg): Floor, site plans or aerial maps of the designated facility where the assessment was performed. Each reference drawing provides correlation between the barrier number listed in the report (see item 3 above) and the actual physical location where the barrier was identified.
- **10) Barrier Area:** Provides a grouping of similar barriers identified in specific spaces (E.G.: Restrooms, Doors and Gates, Stairs, Ramps, Sidewalk, Walkways)
- **11) Remediation:** Indicates whether a barrier is in direct violation of the federal and state codes and statutes and must be remediated or whether the remediation is recommended as a best practice. One of two options exist: (Required) or (Recommended).
- **12) Barrier Type:** Identifies the type of physical element or area defined by California Building Code and the ADA Standards used to identify non-compliance. The categories of barriers contained in the database include:

Alarms
Assembly Areas
Blended Transitions
Bus Stops & Shelters
Classrooms
Clear Floor Space
Controls and Mechanisms
Corridors
Counters and Tables
Curb Ramps
Dining Facilities
Doors or Gates
Drinking Fountains
Elevators
Kitchens
Outdoor Areas Access Route
Parking
Passenger Loading Zones (Drop-Off)
Picnic Facilities
Play Areas
Public Phones
Ramps
Restrooms
Signage
Stairways





treet Furniture	
wimming Pools	
urning Space	
/alkways	

- **13) Requirement (Barrier Description):** Code language or performance standard that describes barrier identified.
- **14) Code References:** Applicable state and federal codes regulating the entities compliance. Each code reference is specific to each barrier and identifies the section of code which regulates compliance to that specific element (doors, parking stalls, sidewalks, etc.). Where a best practice is recommended, the term *Performance Standard* identifies the barrier to access documented in the barrier data record.
- 15) As Built Description (Desc): Also known as the *findings*, information describes the barrier.
- **16) Proposed Solution:** Provides one suggested solution for the remediation of the barrier identified. Please note that other options may exist to bring items into compliance. Other solutions may exist and all solutions cannot be accounted for in this report. The suggested solution is generally the most common way of remediating this particular barrier.
- **17) As Built Measure:** Actual field measurement number for square footage (SF), linear footage (LF), or a single value (EACH or JOB) used to indicate physical dimension of barrier and calculate cost estimate.
- 18) Quantity: Unit of measure for the remediation of each barrier (SF, LF, EACH or JOB).
- 19) Cost Estimate: Budgetary Cost Estimate to remove the barrier described.
- **20) Barrier Severity Rating (BSR):** A systematic, research based rating that describes how severely each barrier affects usability for the particular element.
- 21) X Coordinate: Geographic coordinate that provides the longitude (north-south) value
- 22) Y Coordinate: Geographic coordinate that provides the latitude (east-west) value
- 23) Z Coordinate: Geographic coordinate that provides the elevation value
- **24) Implementation Priority:** Scheduling of barrier removal based on many factors including the US DOJ requirements for providing access to ADA Title II facilities.
- **25) Implementation Phase:** Designated annual phase of the transition plan when remediation of the barrier is scheduled. Phases are generally annual but can be longer, if needed.
- **26) Implementation Date:** Scheduled year or date as to when the remediation of the barrier will take place. This field can be scheduled during phasing and changed to a specific after the barrier is remediated and the record is closed.



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- **27) Status (Open or Closed):** An implementation management tool that can flag barriers to indicate that they have been remediated or are remaining in the implementation phasing plan. Barrier data records have a "Closed" status when completed or have an "Open" status when they remain scheduled for remediation.
- **28) Notes:** Open field where additional explanation of the findings can be noted when encountering unusual situations in the field, or to note programmatic access solutions. The notes field can contain the image file name shown in the barrier data record, or additional information as needed such as an explanation of findings, or information on associated barriers in the same or similar locations.

EXTERIOR SPACES

The Community Center was designed and constructed prior to the enforcement of the ADA and prior to the passage of Access Compliance requirements in California. A parking lot was provided at the Community Center. Three parking stalls were identified as accessible, although the asphalt surfaces at the parking stalls were found to have significant slopes and uneven surfaces where patching or other repairs had been performed. One stall identified as accessible was located in the west corner of the parking lot and appeared to be intended to serve the park, including the tennis courts, basketball courts and baseball field. This stall was identified with a built-up curb ramp in the access aisle, which was allowed under the California Building Code until 2009, but was a violation of the ADA Standards as it creates a sloped aisle and can prevent use by people who use wheelchairs and need to exit their vehicles at the passenger's side by way of a deployable ramp. Such ramps cannot safely deploy on sloped surfaces.

Two other parking stalls identified as accessible were provided directly in front of the main entrance to the Community Center. These stalls were also identified with barriers to access, but the most significant was the abrupt change in level between the access aisle and concrete curb ramp, which appeared to have been constructed fairly, recently within the walkway along the property. This may hinder or prevent people who use wheelchairs from entering the facility.

The play area was designed and constructed after the ADA was enforced and is considered a new construction project. No accessible parking stall is provided on the shortest possible route to the play area.

INTERIOR SPACES

The Community Center provides three classrooms, a kitchen and public men and women's restrooms. The kitchen is rented out for public gatherings and is required to be accessible to people with disabilities. The entrance door is located within a narrow central corridor adjacent to the lobby. Maneuvering clearance at the entry and exit side of the door is not considered accessible for people who use mobility assist devices. The counters, sink, dispensers and shelves were not identified as accessible. In many kitchens where public use occurrent additional wheelchair accessible sink is installed to ensure that health and safety, preceder requirements are met for the main sink in the prep area. Exit doors to the patio and additional additional algorithm and safety, preceder to the prepared as accessible maneuvering clearance.





The classrooms in the building were identified with entry doors with compliant view panels for short people or those who use wheelchairs. Controls and mechanisms used to operate the audio system or accordion doors were not located within accessible reach ranges and the entry and exit doors lacked tactile signage and operating force that complied with state and federal requirements. Tables in the classrooms were provided in rectangular or round types and none were identified with accessible knee clearance.

The following barrier data records provide more detailed information on the barriers described above.



BARRIER DATA RECORDS





ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 1A	
acility: Capitola Community Center	
ocation: Walkway to Building	-
Official Responsible: Brian Van Son, ADA Coordinator	-
acility Function: Public Dwg: N/A	
arrier Area: Curb Ramps Remediation: Required	
arrier Type: Counter Slope - Existing (5.1% - 5.8%)	
escription: Gutter slope exceeds 5.0% (5.1% - 5.8%)	
ode References: CBC 11B-406.5.8 and 2010 ADAS 406.2	
escription: 5.6% gutter slope	
roposed Demolish existing and construct new gutter olution:	
s-Built Meas: 1 Quantity: SF Cost Estimate: \$2,700.00 BSR: 1 Necessary	
Coordinate: -121.95989202708 Y Coordinate: 36.97024597786366 Z Coordinate: 19.11181640625	
nplementation: Priority 1 Phase Date Status Open	
lotes:	
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ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 1B acility: Capitola Community Center ocation: Walkway to Building Official Responsible: Brian Van Son, ADA Coordinator acility Function: Public Dwg: N/A earrier Area: Curb Ramps Remediation: Required earrier Type: Abrupt Change in Level -1/4" to 1/2"	F
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ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 1B acility: Capitola Community Center ocation: Walkway to Building Official Responsible: Brian Van Son, ADA Coordinator acility Function: Public Dwg: N/A arrier Area: Curb Ramps Remediation: Required arrier Type: Abrupt Change in Level -1/4" to 1/2" for arrier Change in level between 1/4" to 1/2" arrier Change in level between 1/4" to 1/2" with no bevel in curb ramp surface bescription: acide References: CBC 11B-303.3 and 2010 ADAS 303.3 as Built 1/2" lip identified without a bevel at transition from concrete to asphalt rooposed Grind or repair to remove trip hazard olution: as-Built Meas: 0 Quantity: SF Cost Estimate: \$0.00 BSR: 1 Necessary Coordinate: -121.95989202708 Y Coordinate: 36.97024597786366 Z Coordinate: 19.11181@@@@cfice.com Coordinate: -121.95989202708 Y Coordinate: 36.97024597786366 Z Coordinate: 19.11181@@@cfice.com Acide Addition: 19.11181@@cfice.com Coordinate: -121.95989202708 Y Coordinate: 36.97024597786366 Z Coordinate: 19.11181@@cfice.com Coordinate: -121.95989202708 Y Coordinate: 36.97024597786366 Z Coordinate: 19.11181@cfice.com Coordinate: -121.95989202708 Y Coordinate: 36.97024597786366 Z Coordinate: -121.95989202708 Y Coordinate: -121.959892	
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Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 1C
Facility: Capitola Community Center
Location: Walkway to Building
Official Responsible: Brian Van Son, ADA Coordinator
Facility Function: Public Dwg: N/A
Barrier Area: Curb Ramps Remediation: Required
Barrier Type: Parallel Ramp Landing - New Construction
Barrier Curb ramp pan is not level (2.0% in all directions) Description:
Code References: CBC 11B-406.5.3 and 2010 ADAS 406.4
As Built Parallel curb ramp has 5.1% cross slope in (pan) landing Description:
Proposed Demolish existing and construct new curb ramp Solution:
As-Built Meas: 0 Quantity: EACH Cost Estimate: \$0.00 BSR: 1 Necessary
K Coordinate: -121.95989202708 Y Coordinate: 36.97024597786366 Z Coordinate: 19.11181640625
mplementation: Priority 1 Phase Date Date Status Open
Notes:
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 1D
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 1D Facility: Capitola Community Center Image: Capitola Community Center Image: Capitola Community Center Image: Capitola Community Center
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 1D Facility: Capitola Community Center Image: Community Center
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 1D Facility: Capitola Community Center ID ID ID Location: Walkway to Building ID ID ID Official Responsible: Brian Van Son, ADA Coordinator ID ID ID
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 1D Facility: Capitola Community Center
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 1D Facility: Capitola Community Center Location: Walkway to Building Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: N/A Barrier Area: Curb Ramps Remediation: Required
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 1D Facility: Capitola Community Center Location: Walkway to Building Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: N/A Barrier Area: Curb Ramps Remediation: Required Barrier Type: Detectable Warnings - Truncated Dome Location
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 1D Facility: Capitola Community Center Location: Walkway to Building Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: N/A Barrier Area: Curb Ramps Remediation: Required Barrier Type: Detectable Warnings - Truncated Dome Location Barrier Public No truncated domes provided at curb ramp within 6" - 8" of transition into roadway
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 1D Facility: Capitola Community Center ID ID Location: Walkway to Building ID ID Official Responsible: Brian Van Son, ADA Coordinator ID ID Facility Function: Public Dwg: N/A Barrier Area: Curb Ramps Remediation: Required Barrier Type: Detectable Warnings - Truncated Dome Location ID ID Barrier Description: No truncated domes provided at curb ramp within 6" - 8" of transition into roadway ID Code References: CBC 11B-705.1.3 and 2010 ADAS 705.1.3 ID ID
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 1D Facility: Capitola Community Center ID Location: Walkway to Building ID Official Responsible: Brian Van Son, ADA Coordinator ID Facility Function: Public Dwg: N/A Barrier Area: Curb Ramps Remediation: Required Barrier Type: Detectable Warnings - Truncated Dome Location ID ID Barrier Type: Detectable Warnings - Truncated Dome Location Into roadway Code References: CBC 11B-705.1.3 and 2010 ADAS 705.1.3 Into roadway Code References: CBC 11B-705.1.3 and 2010 ADAS 705.1.3 Into roadway As Built No detectable warnings at curb ramp Into ramp
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 1D Facility: Capitola Community Center
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 1D Facility: Capitola Community Center Location: Walkway to Building Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Barrier Area: Curb Ramps Curb Ramps Remediation: Required Barrier Type: Detectable Warnings - Truncated Dome Location Barrier No truncated domes provided at curb ramp within 6" - 8" of transition into roadway Code References: CBC 11B-705.1.3 and 2010 ADAS 705.1.3 As Built Description: Proposed Provide compliant truncated domes Solution: 4 Quantity: LF Cost Estimate: \$1,512.00 BSR: 2 Recommende@@
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 1D Facility: Capitola Community Center
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 1D Facility: Capitola Community Center Location: Walkway to Building Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: N/A Barrier Area: Curb Ramps Remediation: Required Barrier Type: Detectable Warnings - Truncated Dome Location Sarrier Barrier Type: Detectable Warnings - Truncated Dome Location Barrier Area: CBC 11B-705.1.3 and 2010 ADAS 705.1.3 As Built No detectable warnings at curb ramp Code References: CBC 11B-705.1.3 and 2010 ADAS 705.1.3 As Built No detectable warnings at curb ramp Proposed Provide compliant truncated domes Solution: 4 Quantity: LF Coordinate: \$1,512.00 BSR: 2 Recommended@ K Coordinate: 121.95989202708 Y Coordinate: 36.97024597786366 Z Coordinate: 19.111816406265 Molenchion: Priority 1 Phase Date Status



Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 1E
Facility: Capitola Community Center
Location: Walkway to Building
Official Responsible: Brian Van Son, ADA Coordinator
Facility Function: Public Dwg: N/A
Barrier Area: Curb Ramps Remediation: Required
Barrier Type: Top Ramp Landing Slope (>5.0% or more)
Barrier Curb ramp top landing not level (>5.0% or more) Description:
Code References: CBC 11B-406.5.3 and 2010 ADAS 406.4
As Built 6.8% in top landing and tactile strip is filled with concrete Description:
Proposed Demolish existing and construct new transition Solution:
As-Built Meas: 0 Quantity: EACH Cost Estimate: \$0.00 BSR: 1 Necessary
X Coordinate: -121.95989202708 Y Coordinate: 36.97024597786366 Z Coordinate: 19.11181640625
Implementation: Priority 1 Phase Date Date Status Open
Notes:
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 2
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 2 Facility: Capitola Community Center Image: Capitola Community Center Image: Capitola Community Center Image: Capitola Community Center
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 2 Facility: Capitola Community Center
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 2 Facility: Capitola Community Center
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 2 Facility: Capitola Community Center Location: Walkway to Building Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: N/A
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 2 Facility: Capitola Community Center Location: Walkway to Building Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Barrier Area: Controls and Mechanisms Remediation: Required
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 2 Facility: Capitola Community Center Location: Walkway to Building Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: N/A Barrier Area: Controls and Mechanisms Remediation: Required
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 2 Facility: Capitola Community Center Location: Walkway to Building Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: N/A Barrier Area: Controls and Mechanisms Remediation: Required Barrier Type: Landing - Control or Mechanism Image: Control or Mechanism Image: Control or Mechanism Barrier Type: Control or mechanism not located on a level landing Image: Control or Mechanism Image: Control or Mechanism
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 2 Facility: Capitola Community Center
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 2 Facility: Capitola Community Center Location: Walkway to Building Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: Public Dwg: N/A Barrier Area: Controls and Mechanisms Remediation: Required Barrier Type: Landing - Control or Mechanism Barrier poscription: Control or mechanism not located on a level landing Code References: CBC 11B-305.2 and 2010 ADAS 305.2 As Built 12.2% slope at mailbox landing
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 2 Facility: Capitola Community Center Location: Walkway to Building Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Barrier Area: Controls and Mechanisms Barrier Type: Landing - Control or Mechanism Barrier Orner or mechanism not located on a level landing Description: Code References: CBC 11B-305.2 and 2010 ADAS 305.2 As Built Description: 12.2% slope at mailbox landing Proposed Relocate mailbox or alter landing to comply
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 2 Facility: Capitola Community Center Location: Walkway to Building Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: N/A Barrier Area: Controls and Mechanisms Barrier Type: Landing - Control or Mechanism Barrier Type: Control or mechanism not located on a level landing Description: CBC 11B-305.2 and 2010 ADAS 305.2 As Built 12.2% slope at mailbox landing Proposed Relocate mailbox or alter landing to comply Solution: 1 Quantity: JOB Cost Estimate: \$432.00 BSR: 1 Necessary
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 2 Facility: Capitola Community Center Location: Walkway to Building Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: N/A Barrier Area: Controls and Mechanisms Remediation: Required Barrier Type: Landing - Control or Mechanism Barrier Type: Control or mechanism not located on a level landing Description: CBC 11B-305.2 and 2010 ADAS 305.2 As Built 12.2% slope at mailbox landing Proposed Relocate mailbox or alter landing to comply Solution: 1 Quantity: JOB Cost Estimate: \$432.00 BSR: 1 Necessary X Coordinate: -121.95990401320 Y Coordinate: 36.97025486268103 Z Coordinate: 15.747192828425
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 2 Facility: Capitola Community Center



Field Date: 4/20/2017 Report Date: 5/16/2017	Barrier #: 3	
Facility: Capitola Community Center		
Location: Walkway to Building		The Company
Official Responsible: Brian Van Son, ADA Coordinator		
Facility Function: Public	Dwg: N/A	
Barrier Area: Walkways Remedia	ation: Required	
Barrier Type: Running Slope - Existing (5.0% - 8.2%)		
Barrier Walkway running slope exceeds 5.0% (5.0% - 5 Description:	.5%) resulting in a ramp	requiring handrails
Code References: CBC 11B-403.3 and 2010 ADAS 403.3		
As Built 5.2% to 6.8% running slope in walkway to meta Description:	al landing	
Proposed Provide new handrails at both sides of ramp wind Solution:	ith landings	
As-Built Meas: 15 Quantity: LF Cost Estimate:	\$2,025.00 BSR	: 1 Necessary
X Coordinate: -121.959889596328 Y Coordinate: 36.9702	6567533612 Z Coordi	nate: 17.6697998046875
Implementation: Priority 1 Phase	Date	Status Open
Notes:		
•		
Field Date: 4/20/2017 Report Date: 5/16/2017	Barrier #: 4A	
Field Date:4/20/2017Report Date:5/16/2017Facility:Capitola Community Center	Barrier #: 4A	
Field Date:4/20/2017Report Date:5/16/2017Facility:Capitola Community CenterLocation:Walkway to Building	Barrier #: 4A	
Field Date:4/20/2017Report Date:5/16/2017Facility:Capitola Community CenterLocation:Walkway to BuildingOfficial Responsible:Brian Van Son, ADA Coordinator	Barrier #: 4A	
Field Date:4/20/2017Report Date:5/16/2017Facility:Capitola Community CenterLocation:Walkway to BuildingOfficial Responsible:Brian Van Son, ADA CoordinatorFacility Function:Public	Barrier #: 4A	
Field Date: 4/20/2017 Report Date: 5/16/2017 Facility: Capitola Community Center Location: Walkway to Building Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Barrier Area: Walkways Remedia	Barrier #: 4A Dwg: N/A ation: Required	
Field Date:4/20/2017Report Date:5/16/2017Facility:Capitola Community CenterLocation:Walkway to BuildingOfficial Responsible:Brian Van Son, ADA CoordinatorFacility Function:PublicBarrier Area:WalkwaysRemediaBarrier Type:Running Slope - Existing (5.0% - 8.2%)	Barrier #: 4A Dwg: N/A ation: Required	
Field Date:4/20/2017Report Date:5/16/2017Facility:Capitola Community CenterLocation:Walkway to BuildingOfficial Responsible:Brian Van Son, ADA CoordinatorFacility Function:PublicBarrier Area:WalkwaysRemediaBarrier Type:Running Slope - Existing (5.0% - 8.2%)BarrierWalkway running slope exceeds 5.0% (5.0% - 5Description:Valkway running slope exceeds 5.0% (5.0% - 5	Barrier #: 4A Dwg: N/A ation: Required	requiring handrails
Field Date:4/20/2017Report Date:5/16/2017Facility:Capitola Community CenterLocation:Walkway to BuildingOfficial Responsible:Brian Van Son, ADA CoordinatorFacility Function:PublicBarrier Area:WalkwaysRemediaBarrier Type:Running Slope - Existing (5.0% - 8.2%)BarrierWalkway running slope exceeds 5.0% (5.0% - 5Description:CBC 11B-403.3 and 2010 ADAS 403.3	Barrier #: 4A Dwg: N/A ation: Required	requiring handrails
Field Date:4/20/2017Report Date:5/16/2017Facility:Capitola Community CenterLocation:Walkway to BuildingOfficial Responsible:Brian Van Son, ADA CoordinatorFacility Function:PublicBarrier Area:WalkwaysRemediaBarrier Type:Running Slope - Existing (5.0% - 8.2%)BarrierWalkway running slope exceeds 5.0% (5.0% - 5Description:CBC 11B-403.3 and 2010 ADAS 403.3As Built5.2% running slope walkway on opposite side composite side co	Barrier #: 4A Dwg: N/A ation: Required .5%) resulting in a ramp	requiring handrails
Field Date:4/20/2017Report Date:5/16/2017Facility:Capitola Community CenterLocation:Walkway to BuildingOfficial Responsible:Brian Van Son, ADA CoordinatorFacility Function:PublicBarrier Area:WalkwaysRemediaBarrier Type:Running Slope - Existing (5.0% - 8.2%)BarrierWalkway running slope exceeds 5.0% (5.0% - 5Description:CBC 11B-403.3 and 2010 ADAS 403.3As Built5.2% running slope walkway on opposite side constrainedProposedProvide new handrails at both sides of ramp wite Solution:	Barrier #: 4A Dwg: N/A ation: Required .5%) resulting in a ramp of metal landing ith landings	o requiring handrails
Field Date:4/20/2017Report Date:5/16/2017Facility:Capitola Community CenterLocation:Walkway to BuildingOfficial Responsible:Brian Van Son, ADA CoordinatorFacility Function:PublicBarrier Area:WalkwaysRemediaBarrier Type:Running Slope - Existing (5.0% - 8.2%)BarrierWalkway running slope exceeds 5.0% (5.0% - 5Description:COde References:Code References:CBC 11B-403.3 and 2010 ADAS 403.3As Built5.2% running slope walkway on opposite side of Description:ProposedProvide new handrails at both sides of ramp with Solution:As-Built Meas:7Quantity:LFCost Estimate:	Barrier #: 4A Dwg: N/A ation: Required .5%) resulting in a ramp of metal landing ith landings \$945.00 BSR	requiring handrails
Field Date:4/20/2017Report Date:5/16/2017Facility:Capitola Community CenterLocation:Walkway to BuildingOfficial Responsible:Brian Van Son, ADA CoordinatorFacility Function:PublicBarrier Area:WalkwaysRemediaBarrier Type:Running Slope - Existing (5.0% - 8.2%)BarrierWalkway running slope exceeds 5.0% (5.0% - 5Description:COC References:Code References:CBC 11B-403.3 and 2010 ADAS 403.3As Built5.2% running slope walkway on opposite side of Description:ProposedProvide new handrails at both sides of ramp with Solution:As-Built Meas:7Quantity:LFCost Estimate:X Coordinate:-121.959896469488Y Coordinate:36.9702	Barrier #: 4A Dwg: N/A ation: Required .5%) resulting in a ramp of metal landing ith landings \$945.00 BSR 3550048470 Z Coordi	requiring handrails
Field Date:4/20/2017Report Date:5/16/2017Facility:Capitola Community CenterLocation:Walkway to BuildingOfficial Responsible:Brian Van Son, ADA CoordinatorFacility Function:PublicBarrier Area:WalkwaysRemediaBarrier Type:Running Slope - Existing (5.0% - 8.2%)BarrierWalkway running slope exceeds 5.0% (5.0% - 5Description:CBC 11B-403.3 and 2010 ADAS 403.3As Built5.2% running slope walkway on opposite side of Description:ProposedProvide new handrails at both sides of ramp will Solution:As-Built Meas:7Quantity:LFCost Estimate:X Coordinate:-121.959896469488Y Coordinate:Janplementation:Priority1Phase	Barrier #: 4A Dwg: N/A ation: Required .5%) resulting in a ramp of metal landing ith landings \$945.00 BSR 3550048470 Z Coordi	requiring handrails



eld Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 4B
acility: Capitola Community Center
ocation: Walkway to Building
fficial Responsible: Brian Van Son, ADA Coordinator
acility Function: Public Dwg: N/A
arrier Area: Blended Transitions Remediation: Required
arrier Type: Detectable Warnings - Truncated Domes
arrier No truncated domes provided at blended transition crossing into hazardous vehicular lane escription:
ode References: CBC 11B-705.1.3 and 2010 ADAS 705.1.3
s Built Crossing into vehicular traffic lane not identified for the visually impaired escription:
roposed Provide compliant truncated domes plution:
s-Built Meas: 4 Quantity: LF Cost Estimate: \$1,512.00 BSR: 2 Recommended
Coordinate: -121.959896469488 Y Coordinate: 36.97023550048470 Z Coordinate: 22.7166748046875
nplementation: Priority 1 Phase Date Status Open
otes:
eld Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 5A
eld Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 5A acility: Capitola Community Center Example of the second secon
eld Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 5A acility: Capitola Community Center
eld Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 5A acility: Capitola Community Center ocation: Walkway to Building fficial Responsible: Brian Van Son, ADA Coordinator
eld Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 5A acility: Capitola Community Center ocation: Walkway to Building fficial Responsible: Brian Van Son, ADA Coordinator acility Function: Public Dwg: N/A
eld Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 5A acility: Capitola Community Center bocation: Walkway to Building fficial Responsible: Brian Van Son, ADA Coordinator acility Function: Public Dwg: N/A arrier Area: Walkways Remediation: Required
eld Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 5A acility: Capitola Community Center bocation: Walkway to Building fficial Responsible: Brian Van Son, ADA Coordinator acility Function: Public Dwg: N/A arrier Area: Walkways Remediation: Required arrier Type: Running Slope - Existing (8.3% or more)
eld Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 5A acility: Capitola Community Center bocation: Walkway to Building fficial Responsible: Brian Van Son, ADA Coordinator acility Function: Public Dwg: N/A arrier Area: Walkways Remediation: Required arrier Type: Running Slope - Existing (8.3% or more) arrier escription: Walkway running slope exceeds 5.0% (8.3% or more)
eld Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 5A acility: Capitola Community Center ocation: Walkway to Building fficial Responsible: Brian Van Son, ADA Coordinator acility Function: Public Dwg: N/A arrier Area: Walkways Remediation: Required arrier Type: Running Slope - Existing (8.3% or more) arrier rescription: Walkway running slope exceeds 5.0% (8.3% or more) ode References: CBC 11B-403.3 and 2010 ADAS 403.3
eld Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 5A acility: Capitola Community Center bocation: Walkway to Building fficial Responsible: Brian Van Son, ADA Coordinator acility Function: Public Dwg: N/A arrier Area: Walkways Remediation: Required arrier Type: Running Slope - Existing (8.3% or more) arrier walkway running slope exceeds 5.0% (8.3% or more) obde References: CBC 11B-403.3 and 2010 ADAS 403.3 s Built 8.3% slope in path within vehicular traffic lane
eld Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 5A acility: Capitola Community Center bacility: Capitola Community Center bacility: Walkway to Building fficial Responsible: Brian Van Son, ADA Coordinator acility Function: Public arrier Area: Walkways arrier Area: Walkways Remediation: Required arrier Type: Running Slope - Existing (8.3% or more) arrier escription: Walkway running slope exceeds 5.0% (8.3% or more) escription: CBC 11B-403.3 and 2010 ADAS 403.3 s Built s Built escription: Demolish and reconstruct walkway bution: Demolish and reconstruct walkway
eld Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 5A acility: Capitola Community Center bocation: Walkway to Building fficial Responsible: Brian Van Son, ADA Coordinator acility Function: Public Dwg: N/A arrier Area: Walkways Remediation: Required arrier Type: Running Slope - Existing (8.3% or more) arrier Walkway running slope exceeds 5.0% (8.3% or more) escription: CBC 11B-403.3 and 2010 ADAS 403.3 s Built escription: Required 8.3% slope in path within vehicular traffic lane escription: Demolish and reconstruct walkway blution: S-Built Meas: 2 Quantity: LF Cost Estimate: \$270.00 BSR: 1 Necessary
eld Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 5A acility: Capitola Community Center bocation: Walkway to Building fficial Responsible: Brian Van Son, ADA Coordinator acility Function: Public Dwg: N/A arrier Area: Walkways Remediation: Required arrier Type: Running Slope - Existing (8.3% or more) arrier Walkway running slope exceeds 5.0% (8.3% or more) arrier walkway running slope exceeds 5.0% (8.3% or more) bode References: CBC 11B-403.3 and 2010 ADAS 403.3 s Built escription: roposed Demolish and reconstruct walkway button: s-Built Meas: 2 Quantity: LF Cost Estimate: \$270.00 BSR: 1 Necessary Coordinate: -121.959896469488 Y Coordinate: 36.97023550048470 Z Coordinate: 22.71667 480460575
eld Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 5A acility: Capitola Community Center bocation: Walkway to Building fficial Responsible: Brian Van Son, ADA Coordinator acility Function: Public Dwg: N/A arrier Area: Walkways Remediation: Required arrier Type: Running Slope - Existing (8.3% or more) arrier Walkway running slope exceeds 5.0% (8.3% or more) arrier Bailt B



Field Date:	4/20/2017 Report Date: 5/16/2017 Barrie	er #: 5B	
Facility:	Capitola Community Center		
Location:	Walkway to Building		A ACT
Official Respo	onsible: Brian Van Son, ADA Coordinator		
Facility Functi	ion: Public I	Dwg: N/A	
Barrier Area:	Blended Transitions Remediation:	Required	
Barrier Type:	Detectable Warnings - Truncated Domes		
Barrier Description:	No truncated domes provided at blended transition cr	ossing into hazardous	vehicular lane
Code Referen	ces: CBC 11B-705.1.3 and 2010 ADAS 705.1.3		
As Built Description:	No detectable warning at point where pedestrians cro	ss into vehicular traffi	c lane
Proposed Solution:	Provide compliant truncated domes		
As-Built Meas	s: 4 Quantity: LF Cost Estimate: \$1,51	2.00 BSR: 2 Re	commended
X Coordinate:	-121.959896469488 Y Coordinate: 36.9702355004	8470 Z Coordinate:	22.7166748046875
Implementati	ion: Priority <u>1</u> Phase Dat	ie S	Status Open
Notes:			
Field Date:	4/20/2017 Report Date: 5/16/2017 Barrie	er #: 6	
Field Date: Facility:	4/20/2017 Report Date: 5/16/2017 Barrie Capitola Community Center	er #: 6	
Field Date: Facility: Location:	4/20/2017 Report Date: 5/16/2017 Barrie Capitola Community Center Walkway to Building	er #: 6	
Field Date: Facility: Location: Official Respo	4/20/2017Report Date:5/16/2017BarrieCapitola Community CenterWalkway to Buildingonsible:Brian Van Son, ADA Coordinator	er #: 6	
Field Date: Facility: Location: Official Respo Facility Functi	4/20/2017 Report Date: 5/16/2017 Barrie Capitola Community Center Walkway to Building Walkway to Building Brian Van Son, ADA Coordinator ion: Public I	er #: 6	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area:	4/20/2017 Report Date: 5/16/2017 Barrie Capitola Community Center Walkway to Building Description Description Walkway to Building Description Description Description Description Insible: Brian Van Son, ADA Coordinator Description Description Description Blended Transitions Remediation: Image: Constraint of the second seco	er #: 6 Dwg: N/A Recommended	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type:	4/20/2017 Report Date: 5/16/2017 Barrie Capitola Community Center Walkway to Building Description Description Walkway to Building Description Description Description Description Insible: Brian Van Son, ADA Coordinator Description Description Description Blended Transitions Remediation: Street Crossings - Surface Condition Description	er #: 6	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description:	4/20/2017 Report Date: 5/16/2017 Barrie Capitola Community Center Walkway to Building Description Description Walkway to Building Description Description Description Image: Street Crossings - Surface Condition Surface of pedestrian street crossing not firm and state	er #: 6 Dwg: N/A Recommended	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen	4/20/2017 Report Date: 5/16/2017 Barrie Capitola Community Center Walkway to Building Description Description Walkway to Building Description Description Description Description Insible: Brian Van Son, ADA Coordinator Description Description Description Blended Transitions Remediation: Remediation: Description Street Crossings - Surface Condition Surface of pedestrian street crossing not firm and state Deces: PROWAG R302.7	er #: 6	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description:	4/20/2017 Report Date: 5/16/2017 Barrie Capitola Community Center Walkway to Building Description Description Walkway to Building Description Description Description Ionsible: Brian Van Son, ADA Coordinator Description Description Blended Transitions Remediation: I Street Crossings - Surface Condition Surface of pedestrian street crossing not firm and state Surface of pedestrian street crossing not firm and state Description Inces: PROWAG R302.7 Crossing surface cracked and uneven	er #: 6	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution:	4/20/2017Report Date:5/16/2017BarrieCapitola Community CenterWalkway to BuildingWalkway to Buildingonsible:Brian Van Son, ADA Coordinatorion:PublicIBlended TransitionsRemediation:Street Crossings - Surface ConditionSurface of pedestrian street crossing not firm and stateaces:PROWAG R302.7Crossing surface cracked and unevenAlter existing pedestrian crossing to comply	er #: 6	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas	4/20/2017 Report Date: 5/16/2017 Barrie Capitola Community Center Walkway to Building Walkway to Building Image: Street Condition Image: Street Crossings - Surface Condition Surface of pedestrian street crossing not firm and state Street Crossing surface cracked and uneven Alter existing pedestrian crossing to comply Image: Street Street Crossing to comply Street Street Crossing surface Cracked and uneven Image: Street Crossing to Comply	er #: 6 Dwg: N/A Recommended ole 43.00 BSR: 1 Ne	ecessary
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate:	4/20/2017 Report Date: 5/16/2017 Barrie Capitola Community Center Walkway to Building Description Description Walkway to Building Description Description Description Ionsible: Brian Van Son, ADA Coordinator Description Description Blended Transitions Remediation: Description Description Street Crossings - Surface Condition Surface of pedestrian street crossing not firm and state Deces: PROWAG R302.7 Crossing surface cracked and uneven Alter existing pedestrian crossing to comply State State State is the street crossing to comply Description State State is the street crossing to comply Description State State is the street crossing to comply Description State State is the street crossing to comply Description State State is the street crossing to comply Description State State is the street crossing to comply Description State State is the street crossing to comply Description State State is the street crossing to comply Description State <t< td=""><td>er #: 6 Dwg: N/A Recommended Dle 43.00 BSR: 1 Ne 2477 Z Coordinate:</td><td>ecessary</td></t<>	er #: 6 Dwg: N/A Recommended Dle 43.00 BSR: 1 Ne 2477 Z Coordinate:	ecessary
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate:	4/20/2017 Report Date: 5/16/2017 Barrie Capitola Community Center Walkway to Building Walkway to Building Image: Second state sta	er #: 6 Dwg: N/A Recommended ole 43.00 BSR: 1 Ne 2477 Z Coordinate: :e	ecessary 21.274780277804875 JOB COPY Status



Field Date:	4/20/2017 Report Date: 5/16/2017 Barr	ier #: 🛛 7	
Facility:	Capitola Community Center		
Location:	Walkway to Building		A
Official Respo	nsible: Brian Van Son, ADA Coordinator		E
Facility Funct	ion: Public	Dwg: N/A	
Barrier Area:	Parking Remediation:	Required	
Barrier Type:	Accessible Route - Detectable Warning		
Barrier Description:	No truncated domes provided where accessible rout	e crosses into hazar	dous vehicular area
Code Referen	ces: CBC 11B.705.1.2.5		
As Built Description:	No detectable warning at point where pedestrians cr	oss into vehicular tr	affic lane
Proposed Solution:	Provide compliant truncated domes		
As-Built Meas	: 4 Quantity: LF Cost Estimate: \$1,5	12.00 BSR:	2 Recommended
X Coordinate:	-121.95984483696 Y Coordinate: 36.970123015	34414 Z Coordina	te: 21.995727539062
Implementati	on: Priority 1 Phase Da	ate	Status Open
Notes:			
Field Date:	4/20/2017 Report Date: 5/16/2017 Barr	ier #: 8A	A DE CONTRACTOR
Field Date: Facility:	4/20/2017 Report Date: 5/16/2017 Barr Capitola Community Center	ier #: 8A	
Field Date: Facility: Location:	4/20/2017Report Date:5/16/2017BarrCapitola Community CenterParking Lot - South Accessible Stall	ier #: 8A	
Field Date: Facility: Location: Official Respo	4/20/2017Report Date:5/16/2017BarrCapitola Community CenterParking Lot - South Accessible Stallonsible:Brian Van Son, ADA Coordinator	ier #: 8A	
Field Date: Facility: Location: Official Respo Facility Functi	4/20/2017Report Date:5/16/2017BarrCapitola Community CenterParking Lot - South Accessible Stallonsible:Brian Van Son, ADA Coordinatorion:Public	ier #: 8A Dwg: N/A	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area:	4/20/2017Report Date:5/16/2017BarrCapitola Community CenterParking Lot - South Accessible Stallonsible:Brian Van Son, ADA Coordinatorion:PublicParkingRemediation:	ier #: 8A Dwg: N/A Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type:	4/20/2017 Report Date: 5/16/2017 Barr Capitola Community Center Parking Lot - South Accessible Stall Brian Van Son, ADA Coordinator onsible: Brian Van Son, ADA Coordinator Brian Van Son, ADA Coordinator ion: Public Remediation: Stall Slope - Existing (5.0% or more) Stall Slope	ier #: 8A Dwg: N/A Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description:	4/20/2017 Report Date: 5/16/2017 Barr Capitola Community Center Parking Lot - South Accessible Stall Brian Van Son, ADA Coordinator ion: Public Parking Remediation: Stall Slope - Existing (5.0% or more) Accessible stall & aisle not max. 2.0% in all directions	ier #: 8A Dwg: N/A Required (5.0% or more)	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen	4/20/2017 Report Date: 5/16/2017 Barr Capitola Community Center Parking Lot - South Accessible Stall Brian Van Son, ADA Coordinator onsible: Brian Van Son, ADA Coordinator Brian Van Son, ADA Coordinator ion: Public Remediation: Stall Slope - Existing (5.0% or more) Accessible stall & aisle not max. 2.0% in all directions ces: CBC 11B-502.4	ier #: 8A Dwg: N/A Required (5.0% or more)	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description:	4/20/2017Report Date:5/16/2017BarrCapitola Community CenterParking Lot - South Accessible Stallonsible:Brian Van Son, ADA Coordinatorion:PublicParkingRemediation:Stall Slope - Existing (5.0% or more)Accessible stall & aisle not max. 2.0% in all directionsces:CBC 11B-502.4Access aisle not level with built-up curb ramp and darunning slope at ramp	ier #: 8A Dwg: N/A Required (5.0% or more) maged concrete. 2.2	2% cross slope, 5.0%
Field Date: Facility: Location: Official Response Facility Function Barrier Area: Barrier Type: Barrier Description: Code Referent As Built Description: Proposed Solution:	4/20/2017Report Date:5/16/2017BarrCapitola Community CenterParking Lot - South Accessible Stallonsible:Brian Van Son, ADA Coordinatorion:PublicParkingRemediation:Stall Slope - Existing (5.0% or more)Accessible stall & aisle not max. 2.0% in all directionsces:CBC 11B-502.4Access aisle not level with built-up curb ramp and darunning slope at rampRegrade stall to make level and restripe	ier #: 8A Dwg: N/A Required (5.0% or more) maged concrete. 2.2	2% cross slope, 5.0%
Field Date: Facility: Location: Official Response Facility Function Barrier Area: Barrier Type: Barrier Description: Code Referent As Built Description: Proposed Solution: As-Built Meas	4/20/2017Report Date:5/16/2017BarrCapitola Community CenterParking Lot - South Accessible Stallonsible:Brian Van Son, ADA Coordinatorion:PublicParkingRemediation:Stall Slope - Existing (5.0% or more)Accessible stall & aisle not max. 2.0% in all directionsces:CBC 11B-502.4Access aisle not level with built-up curb ramp and darunning slope at rampRegrade stall to make level and restripes:1Quantity:EACHCost Estimate:\$13,	ier #: 8A Dwg: N/A Required (5.0% or more) maged concrete. 2.2	2% cross slope, 5.0%
Field Date: Facility: Location: Official Response Facility Function Barrier Area: Barrier Type: Barrier Description: Code Referent As Built Description: Proposed Solution: As-Built Mease X Coordinates	4/20/2017Report Date:5/16/2017BarrCapitola Community CenterParking Lot - South Accessible Stallonsible:Brian Van Son, ADA Coordinatorion:PublicParkingRemediation:Stall Slope - Existing (5.0% or more)Accessible stall & aisle not max. 2.0% in all directionsces:CBC 11B-502.4Access aisle not level with built-up curb ramp and darunning slope at rampRegrade stall to make level and restripes:1Quantity:EACHCost Estimate:\$13,-121.95985615253Y Coordinate:36.970104994	ier #: 8A Dwg: N/A Required (5.0% or more) maged concrete. 2.3 608.00 BSR:	2% cross slope, 5.0% 1 Necessary
Field Date: Facility: Location: Official Response Facility Functions Barrier Area: Barrier Type: Barrier Description: Code Referent As Built Description: Proposed Solution: As-Built Mease X Coordinates	4/20/2017 Report Date: 5/16/2017 Barr Capitola Community Center Parking Lot - South Accessible Stall Image: Construct of the stall of the	ier #: 8A Dwg: N/A Required (5.0% or more) maged concrete. 2.7 608.00 BSR: 25232 Z Coordina	2% cross slope, 5.0% 1 Necessary te: 23.9183349609875 Status Open.



Field Date: 4/	/20/2017 Repor	t Date: 5/16/201	7 Barr	ier #: 8B	A DAY AN AN ANY
Facility:	apitola Community Ce	enter			
Location: Pa	arking Lot - South Acc	essible Stall			
Official Responsi	ible: Brian Van Son	, ADA Coordinator			E
Facility Function:	: Public			Dwg: N/A	
Barrier Area: Pa	arking	Re	mediation:	Required	
Barrier Type: A	ccessible Stall Aisle - I	NO PARKING Letter	ing		
Barrier Ac Description: su	ccess aisle lacks sign s urface	tating "NO PARKIN	G" with mi	n. 12" high letters	contrasting with stall
Code References	s: CBC 11B-502.3.3				
As Built Ac Description:	ccess aisle lacks contr	asting lettering mi	n. 12" high	stating "NO PARKI	NG"
Proposed Pr Solution:	rovide required paver	nent sign at bottor	n of access	aisle	
As-Built Meas:	1 Quantity:	EACH Cost Estin	nate: \$162	2.00 BSR:	3 Hindrance
X Coordinate:	121.95985615253	Y Coordinate: 36.	970104994	25232 Z Coordir	ate: 23.9183349609375
Implementation:	: Priority 1	Phase	Da	ate	Status Open
Notes:					
Field Date: 4/	/20/2017 Repor	t Date: 5/16/201	7 Barr	ier #: 8C	
Field Date:4/Facility:Ca	/20/2017 Repor	t Date: 5/16/201	7 Barr	ier #: 8C	
Field Date:4/Facility:CaLocation:Pa	/20/2017 Repor apitola Community Ce arking Lot - South Acc	t Date: 5/16/201 enter essible Stall	7 Barr	ier #: 8C	
Field Date:4/Facility:CaLocation:PaOfficial Responsi	/20/2017 Repor apitola Community Ce arking Lot - South Acc ible: Brian Van Son	t Date: 5/16/201 enter essible Stall , ADA Coordinator	7 Barr	ier #: 8C	
Field Date:4/Facility:CaLocation:PaOfficial ResponsiFacility Function:	/20/2017 Repor apitola Community Ce arking Lot - South Acc ible: Brian Van Son : Public	t Date: 5/16/201 enter essible Stall , ADA Coordinator	7 Barr	ier #: 8C Dwg: N/A	
Field Date:4/Facility:CaLocation:PaOfficial ResponsiFacility Function:Barrier Area:Pa	/20/2017 Repor apitola Community Ce arking Lot - South Acc ible: Brian Van Son : Public arking	t Date: 5/16/201 enter essible Stall , ADA Coordinator Re	7 Barr nediation:	ier #: 8C Dwg: N/A Required	
Field Date:4/Facility:CaLocation:PaOfficial ResponsiFacility Function:Barrier Area:PaBarrier Type:Aa	/20/2017 Repor apitola Community Ce arking Lot - South Acc ible: Brian Van Son : Public arking ccessible Stall Sign - F	t Date: 5/16/201 enter essible Stall , ADA Coordinator Re ine Sign	7 Barr nediation:	ier #: 8C Dwg: N/A Required	
Field Date:4/Facility:CaLocation:PaOfficial ResponsiFacility Function:Barrier Area:PaBarrier Type:AaBarrierAaDescription:Aa	/20/2017 Repor apitola Community Ce arking Lot - South Acc ible: Brian Van Son : Public arking ccessible Stall Sign - F n additional sign or in	t Date: 5/16/201 enter essible Stall , ADA Coordinator Re ine Sign fo below the ISA d	7 Barr mediation: Des not stat	ier #: 8C Dwg: N/A Required :e "Minimum Fine	\$250."
Field Date:4/Facility:CaLocation:PaOfficial ResponsiFacility Function:Barrier Area:PaBarrier Type:AaBarrier Description:ArCode References	/20/2017 Repor apitola Community Ce arking Lot - South Acc ible: Brian Van Son : Public arking ccessible Stall Sign - F n additional sign or in s: CBC 11B-502.6.2	t Date: 5/16/201 enter essible Stall , ADA Coordinator Re ine Sign fo below the ISA d	7 Barr mediation: Des not stat	ier #: 8C Dwg: N/A Required :e "Minimum Fine	\$250."
Field Date:4/Facility:CaLocation:PaOfficial ResponsiFacility Function:Barrier Area:PaBarrier Type:AaBarrier Type:AaCode ReferencesAs BuiltNaDescription:Na	/20/2017 Report apitola Community Cell arking Lot - South Acc arking Lot - South Acc ible: Brian Van Son Brian Van Son : Public arking Ccessible Stall Sign - F n additional sign or in s: CBC 11B-502.6.2 o fine sign provided a	t Date: 5/16/201 enter essible Stall , ADA Coordinator Re ine Sign fo below the ISA d t post-mounted sig	7 Barr mediation: Des not stat	ier #: 8C Dwg: N/A Required	\$250."
Field Date:4/Facility:CaLocation:PaOfficial ResponsiFacility Function:Barrier Area:PaBarrier Type:AaBarrier Type:AaCode ReferencesAs BuiltNaDescription:NaProposedPrSolution:Pr	/20/2017 Repor apitola Community Ce arking Lot - South Acc ible: Brian Van Son : Public arking ccessible Stall Sign - F n additional sign or in s: CBC 11B-502.6.2 o fine sign provided a rovide required sign	t Date: 5/16/201 enter essible Stall , ADA Coordinator Re ine Sign fo below the ISA d t post-mounted sig	7 Barr mediation: pes not stat	ier #: 8C Dwg: N/A Required	\$250."
Field Date:4/Facility:CaLocation:PaOfficial ResponsiFacility Function:Barrier Area:PaBarrier Type:AaBarrier Type:AaCode ReferencesAs BuiltNaDescription:PrSolution:PrAs-Built Meas:T	/20/2017 Repor apitola Community Ce arking Lot - South Acc ible: Brian Van Son : Public arking Ccessible Stall Sign - F n additional sign or in s: CBC 11B-502.6.2 o fine sign provided a rovide required sign 1 Quantity:	t Date: 5/16/201 enter essible Stall , ADA Coordinator Re ine Sign fo below the ISA d t post-mounted sig	7 Barr mediation: Des not stat	ier #: 8C Dwg: N/A Required :e "Minimum Fine 2.00 BSR:	\$250."
Field Date:4/Facility:CaLocation:PaOfficial ResponsiFacility Function:Barrier Area:PaBarrier Type:AaBarrier Type:AaBarrier Type:AaCode ReferencesAsAs BuiltNaDescription:PrSolution:PrAs-Built Meas:TX Coordinate:-	/20/2017 Repor apitola Community Ce arking Lot - South Acc ible: Brian Van Son : Public arking ccessible Stall Sign - F n additional sign or in s: CBC 11B-502.6.2 o fine sign provided a rovide required sign 1 Quantity: 121.95985615253	t Date: 5/16/201 enter essible Stall , ADA Coordinator Re ine Sign fo below the ISA d t post-mounted sig EACH Cost Estin Y Coordinate: 36.	7 Barr mediation: Des not stat (n ate: \$16) 970104994	ier #: 8C Dwg: N/A Required :e "Minimum Fine 2.00 BSR: 25232 Z Coordir	\$250."
Field Date:4/Facility:CaLocation:PaOfficial ResponsiFacility Function:Barrier Area:PaBarrier Type:AaBarrier Type:AaDescription:AaCode ReferencesAs BuiltDescription:PaSolution:PrSolution:AX Coordinate:-2Implementation:-2	/20/2017 Repor apitola Community Ca arking Lot - South Acc ible: Brian Van Son : Public arking Ccessible Stall Sign - F n additional sign or in sign or in s: CBC 11B-502.6.2 o fine sign provided a rovide required sign 1 Quantity: 121.95985615253 : Priority	t Date: 5/16/201 enter essible Stall , ADA Coordinator Re ine Sign fo below the ISA d t post-mounted sig EACH Cost Estin Y Coordinate: 36. Phase	7 Barr mediation: Des not stat gn hate: \$167 970104994 Da	ier #: 8C Dwg: N/A Required :e "Minimum Fine 2.00 BSR: 25232 Z Coordir ate	\$250." 3 Hindrance ate: 23.9183349609875 Status Occorrector



Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 8D	
Facility: Capitola Community Center	ALL LUDI
Location: Parking Lot - South Accessible Stall	
Official Responsible: Brian Van Son, ADA Coordinator	
Facility Function: Public Dwg: N/A	
Barrier Area: Parking Remediation: Required	
Barrier Type: Accessible Stall Sign - Height in POT	
Barrier Reflectorized ISA sign posted within path of travel is not posted at min Description:	n. 80" high
Code References: CBC 11B-502.6 Exception	
As Built Post-mounted signs in path of travel 72" high Description:	
Proposed Remount sign at min. 80" high Solution:	
As-Built Meas: 1 Quantity: EACH Cost Estimate: \$108.00 BSF	R: 2 Recommended
X Coordinate: -121.95985615253 Y Coordinate: 36.97010499425232 Z Coord	inate: 23.9183349609375
Implementation: Priority 1 Phase Date	Status Open
Notes:	
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 9	
Field Date:4/20/2017Report Date:5/16/2017Barrier #:9Facility:Capitola Community Center	A REAL AND
Field Date:4/20/2017Report Date:5/16/2017Barrier #:9Facility:Capitola Community CenterLocation:Parking Lot - South Accessible Stall	
Field Date:4/20/2017Report Date:5/16/2017Barrier #:9Facility:Capitola Community CenterLocation:Parking Lot - South Accessible StallOfficial Responsible:Brian Van Son, ADA Coordinator	
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 9 Facility: Capitola Community Center Location: Parking Lot - South Accessible Stall Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg:	
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 9 Facility: Capitola Community Center Location: Parking Lot - South Accessible Stall Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: N/A Barrier Area: Walkways Remediation:	
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 9 Facility: Capitola Community Center Location: Parking Lot - South Accessible Stall Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: N/A Barrier Area: Walkways Remediation: Barrier Type: Change of Direction - Level Space	
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 9 Facility: Capitola Community Center Location: Parking Lot - South Accessible Stall Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: N/A Barrier Area: Walkways Remediation: Required Barrier Type: Change of Direction - Level Space Image: Change in level of more than 1:48 (2.0) Barrier Turning space identified with a change in level of more than 1:48 (2.0)	%)
Field Date:4/20/2017Report Date:5/16/2017Barrier #:9Facility:Capitola Community CenterLocation:Parking Lot - South Accessible StallOfficial Responsible:Brian Van Son, ADA CoordinatorFacility Function:PublicDwg:N/ABarrier Area:WalkwaysRemediation:RequiredBarrier Type:Change of Direction - Level SpaceBarrierTurning space identified with a change in level of more than 1:48 (2.0Code References:CBC 11B-304.2 and 2010 ADAS 304.2Coordinator	9%)
Field Date:4/20/2017Report Date:5/16/2017Barrier #:9Facility:Capitola Community CenterLocation:Parking Lot - South Accessible StallOfficial Responsible:Brian Van Son, ADA CoordinatorFacility Function:PublicDwg:N/ABarrier Area:WalkwaysRemediation:RequiredBarrier Type:Change of Direction - Level SpaceEarrier1:48 (2.0BarrierTurning space identified with a change in level of more than 1:48 (2.0Code References:CBC 11B-304.2 and 2010 ADAS 304.2As Built4.3% slope in landing at change of direction where access aisle meetsEarrierEarrier	%) walkway
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 9 Facility: Capitola Community Center	%) walkway
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 9 Facility: Capitola Community Center Location: Parking Lot - South Accessible Stall Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: Barrier Area: Walkways Remediation: Required Barrier Type: Change of Direction - Level Space Earrier Turning space identified with a change in level of more than 1:48 (2.0 Description: CBC 11B-304.2 and 2010 ADAS 304.2 As Built 4.3% slope in landing at change of direction where access aisle meets Proposed Alter floor or ground surface to comply Solution: Aster floor or ground surface to comply Bsf	%) walkway R: 2 Recommende @
Field Date:4/20/2017Report Date:5/16/2017Barrier #:9Facility:Capitola Community CenterLocation:Parking Lot - South Accessible StallOfficial Responsible:Brian Van Son, ADA CoordinatorFacility Function:PublicDwg:N/ABarrier Area:WalkwaysRemediation:RequiredBarrier Type:Change of Direction - Level SpaceBarrierTurning space identified with a change in level of more than 1:48 (2.0Code References:CBC 11B-304.2 and 2010 ADAS 304.2As Built4.3% slope in landing at change of direction where access aisle meetsProposedAlter floor or ground surface to comply Solution:As-Built Meas:25Quantity:SFCost Estimate:\$3,375.00X Coordinate:-121.95986394770Y Coordinate:36.97001664899289Z Coord	%) walkway R: 2 Recommende @ inate: 24.15856 9835987
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 9 Facility: Capitola Community Center Location: Parking Lot - South Accessible Stall Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: N/A Barrier Area: Walkways Remediation: Required Barrier Type: Change of Direction - Level Space Barrier Opescription: Turning space identified with a change in level of more than 1:48 (2.0) Code References: CBC 11B-304.2 and 2010 ADAS 304.2 As Built 4.3% slope in landing at change of direction where access aisle meets Description: Proposed Alter floor or ground surface to comply Solution: 25 Quantity: SF Cost Estimate: \$3,375.00 BSF X Coordinate: -121.95986394770 Y Coordinate: 36.97001664899289 Z Coord Implementation: Priority 1 Phase Date </td <td>%) walkway R: 2 Recommende () inate: 24.158569385937 JOB COPY Status 0 Status 0</td>	%) walkway R: 2 Recommende () inate: 24.158569385937 JOB COPY Status 0 Status 0



Field Date:	4/20/2017 Report Date: 5/16/2017 Ba	rrier #: 10	
Facility:	Capitola Community Center		
Location:	Walkway to Entrance		
Official Respo	nsible: Brian Van Son, ADA Coordinator		
Facility Functi	on: Public	Dwg: N/A	4
Barrier Area:	Walkways Remediation	Required	
Barrier Type:	Bench - Level Landing		
Barrier Description:	No level landing provided adjacent to bench		
Code Referen	ces: CBC 11B-305.3 and 2010 ADAS 305.3		
As Built Description:	Space for people using wheelchairs adjacent to ben shoulder alignment	ch is not level or min. 3	D"x 48" allowing
Proposed Solution:	Provide level landing adjacent to min. 1 bench or 59 alternate location	6 of group of benches o	r provide bench in
As-Built Meas	: 12 Quantity: SF Cost Estimate: \$1	620.00 BSR: 3 H	lindrance
X Coordinate:	-121.95979102514 Y Coordinate: 36.97008789	516985 Z Coordinate:	22.476318359375
Implementati	on: Priority 1 Phase I	Date	Status Open
Notes:			
-			
Field Date:	4/20/2017 Report Date: 5/16/2017 Ba	rrier #: 11A	
Field Date: Facility:	4/20/2017 Report Date: 5/16/2017 Ba Capitola Community Center	rrier #: 11A	
Field Date: Facility: Location:	4/20/2017 Report Date: 5/16/2017 Ba Capitola Community Center Walkway to Entrance	rrier #: 11A	
Field Date: Facility: Location: Official Respo	4/20/2017Report Date:5/16/2017BaCapitola Community CenterWalkway to Entrancensible:Brian Van Son, ADA Coordinator	rrier #: 11A	
Field Date: Facility: Location: Official Respo Facility Functi	4/20/2017Report Date:5/16/2017BaCapitola Community CenterWalkway to Entrancensible:Brian Van Son, ADA Coordinatoron:Public	rrier #: 11A	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area:	4/20/2017 Report Date: 5/16/2017 Ba Capitola Community Center	rrier #: 11A Dwg: N/A : Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type:	4/20/2017 Report Date: 5/16/2017 Ba Capitola Community Center Malkway to Entrance Walkway to Entrance Brian Van Son, ADA Coordinator on: Public Walkways Remediation Cross Slope - Existing (5.0% or more)	rrier #: 11A Dwg: N/A : Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description:	4/20/2017Report Date:5/16/2017BaCapitola Community CenterWalkway to Entrancensible:Brian Van Son, ADA Coordinatoron:PublicWalkwaysRemediationCross Slope - Existing (5.0% or more)Cross slope exceeds 2.0% (5.0% or more)	rrier #: 11A Dwg: N/A : Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen	4/20/2017 Report Date: 5/16/2017 Ba Capitola Community Center Walkway to Entrance Walkway to Entrance nsible: Brian Van Son, ADA Coordinator on: Public Walkways Remediation Cross Slope - Existing (5.0% or more) Cross slope exceeds 2.0% (5.0% or more) ces: CBC 11B-403.3 and 2010 ADAS 403.3	rrier #: 11A Dwg: N/A : Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description:	4/20/2017Report Date:5/16/2017BaCapitola Community CenterWalkway to Entrancensible:Brian Van Son, ADA Coordinatoron:PublicWalkwaysRemediationCross Slope - Existing (5.0% or more)Cross slope exceeds 2.0% (5.0% or more)ces:CBC 11B-403.3 and 2010 ADAS 403.33.5% cross slope	rrier #: 11A Dwg: N/A : Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution:	4/20/2017 Report Date: 5/16/2017 Ba Capitola Community Center Walkway to Entrance Walkway to Entrance nsible: Brian Van Son, ADA Coordinator on: Public Remediation Walkways Remediation Cross Slope - Existing (5.0% or more) Cross slope exceeds 2.0% (5.0% or more) ces: CBC 11B-403.3 and 2010 ADAS 403.3 3.5% cross slope Demolish existing and construct new route	rrier #: 11A Dwg: N/A : Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas	4/20/2017Report Date:5/16/2017BaCapitola Community CenterWalkway to Entrancensible:Brian Van Son, ADA Coordinatoron:PublicWalkwaysRemediationCross Slope - Existing (5.0% or more)Cross slope exceeds 2.0% (5.0% or more)ces:CBC 11B-403.3 and 2010 ADAS 403.33.5% cross slopeDemolish existing and construct new route:53Quantity:LFCost Estimate:\$7	rrier #: 11A Dwg: N/A : Required 155.00 BSR: 1 N	lecessary
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate:	4/20/2017Report Date:5/16/2017BaCapitola Community CenterWalkway to Entrancensible:Brian Van Son, ADA Coordinatoron:PublicWalkwaysRemediationCross Slope - Existing (5.0% or more)Cross slope exceeds 2.0% (5.0% or more)ces:CBC 11B-403.3 and 2010 ADAS 403.33.5% cross slopeDemolish existing and construct new route:53Quantity:LFCoordinate:\$7,005503	rrier #: 11A Dwg: N/A : Required 155.00 BSR: 1 N 810942 Z Coordinate:	Jecessary
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate: Implementati	4/20/2017 Report Date: 5/16/2017 Ba Capitola Community Center Walkway to Entrance Walkway to Entrance nsible: Brian Van Son, ADA Coordinator on: Public Remediation Walkways Remediation Cross Slope - Existing (5.0% or more) Cross slope exceeds 2.0% (5.0% or more) ces: CBC 11B-403.3 and 2010 ADAS 403.3 3.5% cross slope Demolish existing and construct new route : 53 Quantity: LF Cost Estimate: \$7 -121.959808627143 Y Coordinate: 36.97005503 on: Priority 1 Phase 1	rrier #: 11A Dwg: N/A : Required 155.00 BSR: 1 N 810942 Z Coordinate: Date	Aecessary 23.9183349609B755 Status Open Contained



Field Date:	4/20/2017 Report Date: 5/16/2017 Barrier #: 11B
Facility:	Capitola Community Center
Location:	Walkway to Entrance
Official Respon	nsible: Brian Van Son, ADA Coordinator
Facility Function	Dri: Public Dwg: N/A
Barrier Area:	Walkways Remediation: Required
Barrier Type:	Abrupt Change in Level - 1/4" to 1/2"
Barrier Description:	Change in level greater than 1/4" in walkway with no bevel
Code Reference	ces: CBC 11B-403.4 and 2010 ADAS 303.3
As Built Description:	1/2" lip in walkway surface near trash receptacle
Proposed Solution:	Grind or repair to remove trip hazard
As-Built Meas	4 Quantity: LF Cost Estimate: \$1,080.00 BSR: 1 Necessary
X Coordinate:	-121.959808627143 Y Coordinate: 36.97005503810942 Z Coordinate: 23.91833496093755
Implementatio	on: Priority 1 Phase Date Status Open
Notes:	
Field Date:	4/20/2017 Report Date: 5/16/2017 Barrier #: 12
Field Date: Facility:	4/20/2017 Report Date: 5/16/2017 Barrier #: 12
Field Date: Facility: Location:	4/20/2017 Report Date: 5/16/2017 Barrier #: 12 Capitola Community Center Walkway to Entrance
Field Date: Facility: Location: Official Respon	4/20/2017 Report Date: 5/16/2017 Barrier #: 12 Capitola Community Center Walkway to Entrance nsible: Brian Van Son, ADA Coordinator
Field Date: Facility: Location: Official Respon Facility Function	4/20/2017 Report Date: 5/16/2017 Barrier #: 12 Capitola Community Center
Field Date: Facility: Location: Official Respon Facility Function Barrier Area:	4/20/2017 Report Date: 5/16/2017 Barrier #: 12 Capitola Community Center Walkway to Entrance nsible: Brian Van Son, ADA Coordinator on: Public Dwg: N/A Walkways Remediation: Required
Field Date: Facility: Location: Official Respon Facility Function Barrier Area: Barrier Type:	4/20/2017 Report Date: 5/16/2017 Barrier #: 12 Capitola Community Center
Field Date: Facility: Location: Official Respon Facility Function Barrier Area: Barrier Type: Barrier Description:	4/20/2017 Report Date: 5/16/2017 Barrier #: 12 Capitola Community Center
Field Date: Facility: Location: Official Respon Facility Function Barrier Area: Barrier Type: Barrier Description: Code Reference	4/20/2017 Report Date: 5/16/2017 Barrier #: 12 Capitola Community Center
Field Date: Facility: Location: Official Respon Facility Function Barrier Area: Barrier Type: Barrier Description: Code Reference As Built Description:	4/20/2017 Report Date: 5/16/2017 Barrier #: 12 Capitola Community Center
Field Date: Facility: Location: Official Respon Facility Function Barrier Area: Barrier Type: Barrier Description: Code Reference As Built Description: Proposed Solution:	4/20/2017 Report Date: 5/16/2017 Barrier #: 12 Capitola Community Center
Field Date: Facility: Location: Official Respon Facility Function Barrier Area: Barrier Type: Barrier Description: Code Reference As Built Description: Proposed Solution: As-Built Meas	4/20/2017 Report Date: 5/16/2017 Barrier #: 12 Capitola Community Center Walkway to Entrance nsible: Brian Van Son, ADA Coordinator on: Public Dwg: N/A Walkways Remediation: Required Cross Slope - Existing (5.0% or more) Cross slope exceeds 2.0% (5.0% or more) ces: CBC 11B-403.3 and 2010 ADAS 403.3 9.7% cross slope in curb ramp at change of direction leading to entrance Demolish existing and construct new route with a parallel curb ramp 25 Quantity: SF Cost Estimate: \$3,375.00 BSR: 1 Necessary
Field Date: Facility: Location: Official Respon Facility Function Barrier Area: Barrier Type: Barrier Description: Code Reference As Built Description: Proposed Solution: As-Built Meas X Coordinate:	4/20/2017 Report Date: 5/16/2017 Barrier #: 12 Capitola Community Center
Field Date: Facility: Location: Official Respon Facility Function Barrier Area: Barrier Type: Barrier Description: Code Reference As Built Description: Proposed Solution: As-Built Meass X Coordinate: Implementation	4/20/2017 Report Date: 5/16/2017 Barrier #: 12 Capitola Community Center



Field Date:	4/20/2017 Repo	ort Date: 5/16/2017 Bar	rier #: 13A	
Facility:	Capitola Community C	Center		
Location:	Parking Lot - Accessibl	le Stalls at Entrance		
Official Respo	nsible: Brian Van Sor	n, ADA Coordinator		
Facility Functi	on: Public		Dwg: N/A	and and the first the
Barrier Area:	Parking	Remediation	Required	
Barrier Type:	Stall Slope - Existing (5	5.0% or more)		
Barrier Description:	Accessible stall & aisle	e not max. 2.0% in all direction	s (5.0% or more)	
Code Referen	ces: CBC 11B-502.4			
As Built Description:	Vehicle space slope 5.	5% at damaged concrete		
Proposed Solution:	Regrade stall to make	level and restripe		
As-Built Meas	: 1 Quantity:	EACH Cost Estimate: \$13	608.00 BSR	1 Necessary
X Coordinate:	-121.95998431183	Y Coordinate: 36.97007523	849606 Z Coordii	nate: 26.948852539062
Implementati	on: Priority 1	Phase C	ate	Status Open
Notes:				
Field Date:	4/20/2017 Repo	ort Date: 5/16/2017 Bar	rier #: 13B	
Field Date: Facility:	4/20/2017 Repo	ort Date: 5/16/2017 Bar	rier #: 13B	
Field Date: Facility: Location:	4/20/2017 Repo Capitola Community C Parking Lot - Accessibl	ort Date: 5/16/2017 Bar Center le Stalls at Entrance	rier #: 13B	
Field Date: Facility: Location: Official Respo	4/20/2017 Repo Capitola Community C Parking Lot - Accessibl nsible: Brian Van Sor	ort Date: 5/16/2017 Bar Center le Stalls at Entrance n, ADA Coordinator	rier #: 13B	
Field Date: Facility: Location: Official Respo Facility Functi	4/20/2017 Repo Capitola Community C Parking Lot - Accessibl nsible: Brian Van Sor on: Public	ort Date: 5/16/2017 Bar Center le Stalls at Entrance n, ADA Coordinator	rier #: 13B	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area:	4/20/2017 Repo Capitola Community C Parking Lot - Accessibl nsible: Brian Van Sor on: Public Parking	ort Date: 5/16/2017 Bar Center le Stalls at Entrance n, ADA Coordinator Remediation:	rier #: 13B Dwg: N/A Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type:	4/20/2017 Repo Capitola Community C Parking Lot - Accessibl nsible: Brian Van Sor on: Public Parking Accessible Stall Sign -	ort Date: 5/16/2017 Bar Center le Stalls at Entrance n, ADA Coordinator Remediation Fine Sign	rier #: 13B Dwg: N/A Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description:	4/20/2017 Repo Capitola Community C Parking Lot - Accessibl nsible: Brian Van Sor on: Public Parking Accessible Stall Sign - An additional sign or in	ort Date: 5/16/2017 Bar Center le Stalls at Entrance n, ADA Coordinator Remediation: Fine Sign nfo below the ISA does not sta	rier #: 13B Dwg: N/A Required	\$250."
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen	4/20/2017 Repo Capitola Community C Parking Lot - Accessibl nsible: Brian Van Sor on: Public Parking Accessible Stall Sign - An additional sign or in ces: CBC 11B-502.6.2	ort Date: 5/16/2017 Bar Center le Stalls at Entrance n, ADA Coordinator Remediation: Fine Sign nfo below the ISA does not sta	rier #: 13B Dwg: N/A Required	\$250."
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description:	4/20/2017RepoCapitola Community CParking Lot - Accessiblnsible:Brian Van Soron:PublicParkingAccessible Stall Sign - IAn additional sign or inces:CBC 11B-502.6.2No fine sign provided	ort Date: 5/16/2017 Bar Center le Stalls at Entrance n, ADA Coordinator Remediation: Fine Sign nfo below the ISA does not sta	rier #: 13B Dwg: N/A Required	\$250."
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution:	4/20/2017 Report Capitola Community C Parking Lot - Accessible nsible: Brian Van Sort on: Public Parking Accessible Stall Sign - An additional sign or in ces: CBC 11B-502.6.2 No fine sign provided Provide required sign	ort Date: 5/16/2017 Bar Center le Stalls at Entrance n, ADA Coordinator Remediation Fine Sign nfo below the ISA does not sta	rier #: 13B Dwg: N/A Required	\$250."
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas	4/20/2017 Report Capitola Community C Parking Lot - Accessible Parking Lot - Accessible Brian Van Sort on: Public Parking Accessible Stall Sign - I An additional sign or in CBC 11B-502.6.2 No fine sign provided Provide required sign : 1 Quantity:	ort Date: 5/16/2017 Bar Center Image: Stalls at Entrance Image: Stalls at Entrance In, ADA Coordinator Remediation: Fine Sign Remediation: Info below the ISA does not stalls Stalls at Stalls at Stalls EACH Cost Estimate: \$16	rier #: 13B Dwg: N/A Required Ite "Minimum Fine	\$250."
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate:	4/20/2017 Report Capitola Community C Parking Lot - Accessible nsible: Brian Van Sort on: Public Parking Accessible Stall Sign - An additional sign or in ces: CBC 11B-502.6.2 No fine sign provided Provide required sign : 1 Quantity: -121.95998431183	ort Date: 5/16/2017 Bar Center Identified and the stalls at Entrance Identified and the stalls at Entrance In, ADA Coordinator Remediation: Fine Sign Remediation: If the below the ISA does not stall and the stalls at Entrance Identified and the stall and the sta	rier #: 13B Dwg: N/A Required ite "Minimum Fine 2.00 BSR 849606 Z Coordin	\$250." 3 Hindrance
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate: Implementati	4/20/2017 Report Capitola Community C Parking Lot - Accessible nsible: Brian Van Sort on: Public Parking Accessible Stall Sign - An additional sign or in ces: CBC 11B-502.6.2 No fine sign provided Provide required sign : 1 Quantity: -121.95998431183 on: Priority	ort Date: 5/16/2017 Bar Center Image: Stalls at Entrance Image: Stalls at Entrance In, ADA Coordinator Remediation: Fine Sign Remediation: If the Sign Image: Stalls at Entrance Info below the ISA does not stalls Image: Stalls at Entrance Image: Stalls at Entrance Image: Stalls at Entrance Image: Stalls at Entration <	rier #: 13B Dwg: N/A Required ite "Minimum Fine 32.00 BSR 849606 Z Coordin	\$250." 3 Hindrance ate: 26.948852599062 JOB COPY Status Open Marce Compare



Field Date:	4/20/2017 Repo	rt Date: 5/16/2017 Bar	rier #: 13C			
Facility:	Capitola Community Center					
Location:	Parking Lot - Accessible Stalls at Entrance					
Official Respo	nsible: Brian Van Son	n, ADA Coordinator				
Facility Functi	on: Public		Dwg: N/A	and the states		
Barrier Area:	Parking	Remediation:	Required			
Barrier Type:	Stall Slope - Existing (4	.1% to 4.9%)				
Barrier Description:	Accessible stall & aisle	not max. 2.0% in all direction	s (4.1% to 4.9%)			
Code Referen	ces: CBC 11B-502.4					
As Built Description:	4.5% slope at damaged	d concrete				
Proposed Solution:	Regrade stall to make	level and restripe				
As-Built Meas	: 0 Quantity:	EACH Cost Estimate: \$0.0	DO BSR:	2 Recommended		
X Coordinate:	-121.95998431183	Y Coordinate: 36.970075238	349606 Z Coordin	ate: 26.948852539062		
Implementati	on: Priority 1	Phase D	ate	Status Open		
Notes:						
P						
Field Date:	4/20/2017 Repo	rt Date: 5/16/2017 Bar	rier #: 13D			
Field Date: Facility:	4/20/2017 Repo Capitola Community C	rt Date: 5/16/2017 Bar enter	rier #: 13D			
Field Date: Facility: Location:	4/20/2017 Repo Capitola Community C Parking Lot - Accessible	rt Date: 5/16/2017 Bar enter e Stalls at Entrance	rier #: 13D			
Field Date: Facility: Location: Official Respo	4/20/2017 Repo Capitola Community C Parking Lot - Accessible nsible: Brian Van Son	rt Date: 5/16/2017 Bar enter e Stalls at Entrance n, ADA Coordinator	rier #: 13D			
Field Date: Facility: Location: Official Respo Facility Functi	4/20/2017 Repo Capitola Community C Parking Lot - Accessibl nsible: Brian Van Son on: Public	rt Date: 5/16/2017 Bar enter e Stalls at Entrance h, ADA Coordinator	rier #: 13D			
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area:	4/20/2017 Repo Capitola Community C Parking Lot - Accessibl nsible: Brian Van Son on: Public Parking	rt Date: 5/16/2017 Bar enter e Stalls at Entrance n, ADA Coordinator Remediation:	rier #: 13D Dwg: N/A Required			
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type:	4/20/2017 Repo Capitola Community C Parking Lot - Accessible nsible: Brian Van Son on: Public Parking Stall Slope - Existing (3	rt Date: 5/16/2017 Bar enter e Stalls at Entrance n, ADA Coordinator Remediation: .1% to 4.0%)	rier #: 13D Dwg: N/A Required			
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description:	4/20/2017 Repo Capitola Community C Parking Lot - Accessible nsible: Brian Van Son on: Public Parking Stall Slope - Existing (3 Accessible stall & aisle	rt Date: 5/16/2017 Bar enter e Stalls at Entrance h, ADA Coordinator Remediation: .1% to 4.0%) not max. 2.0% in all directions	rier #: 13D Dwg: N/A Required s (3.1% to 4.0%)			
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen	4/20/2017RepoCapitola Community CParking Lot - Accessiblensible:Brian Van Sonon:PublicParkingStall Slope - Existing (3Accessible stall & aisleces:CBC 11B-502.4	rt Date: 5/16/2017 Bar enter e Stalls at Entrance n, ADA Coordinator Remediation: .1% to 4.0%) not max. 2.0% in all directions	rier #: 13D Dwg: N/A Required s (3.1% to 4.0%)			
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description:	4/20/2017RepoCapitola Community CParking Lot - Accessiblensible:Brian Van Sonon:PublicParkingStall Slope - Existing (3)Accessible stall & aisleces:CBC 11B-502.4Shared aisle slope 3.29	rt Date: 5/16/2017 Bar enter e Stalls at Entrance h, ADA Coordinator Remediation: .1% to 4.0%) not max. 2.0% in all directions	rier #: 13D Dwg: N/A Required s (3.1% to 4.0%)			
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution:	4/20/2017 Repo Capitola Community C Parking Lot - Accessible nsible: Brian Van Son on: Public Parking Stall Slope - Existing (3 Accessible stall & aisle ces: CBC 11B-502.4 Shared aisle slope 3.29 Regrade stall to make	rt Date: 5/16/2017 Bar enter e Stalls at Entrance n, ADA Coordinator Remediation: .1% to 4.0%) not max. 2.0% in all directions % at damaged concrete level and restripe	rier #: 13D Dwg: N/A Required s (3.1% to 4.0%)			
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas	4/20/2017 Repo Capitola Community C Parking Lot - Accessible nsible: Brian Van Son on: Public Parking Stall Slope - Existing (3 Accessible stall & aisle ces: CBC 11B-502.4 Shared aisle slope 3.29 Regrade stall to make : 0	rt Date: 5/16/2017 Bar enter e Stalls at Entrance h, ADA Coordinator Remediation: .1% to 4.0%) not max. 2.0% in all directions % at damaged concrete level and restripe EACH Cost Estimate: \$0.0	rier #: 13D Dwg: N/A Required s (3.1% to 4.0%)	3 Hindrance		
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate:	4/20/2017RepoCapitola Community CParking Lot - Accessiblensible:Brian Van Sonon:PublicParkingStall Slope - Existing (3)Accessible stall & aisleces:CBC 11B-502.4Shared aisle slope 3.29Regrade stall to make:0Quantity:-121.95998431183	rt Date: 5/16/2017 Bar enter e Stalls at Entrance n, ADA Coordinator Remediation: .1% to 4.0%) not max. 2.0% in all directions % at damaged concrete level and restripe EACH Cost Estimate: \$0.0 Y Coordinate: 36.970075238	rier #: 13D Dwg: N/A Required s (3.1% to 4.0%) 00 BSR: 349606 Z Coordin	3 Hindrance 26.9488525890062		
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate: Implementati	4/20/2017 Repo Capitola Community C Parking Lot - Accessible nsible: Brian Van Son on: Public Parking Stall Slope - Existing (3 Accessible stall & aisle ces: CBC 11B-502.4 Shared aisle slope 3.29 Regrade stall to make : 0 Quantity: -121.95998431183 on: Priority	rt Date: 5/16/2017 Bar enter e Stalls at Entrance n, ADA Coordinator Remediation: .1% to 4.0%) not max. 2.0% in all directions % at damaged concrete level and restripe EACH Cost Estimate: \$0.0 Y Coordinate: 36.970075238 Phase D	rier #: 13D Dwg: N/A Required s (3.1% to 4.0%) 00 BSR: 349606 Z Coordin ate	3 Hindrance 3 E 26.948852589062 JOB COPY Status Openant		



Field Date:	4/20/2017 Rep	oort Date: 5/16/2017	Barrier #: 13E		
Facility:	Capitola Community Center				
Location:	Parking Lot - Accessible Stalls at Entrance				
Official Respo	nsible: Brian Van S	on, ADA Coordinator			
Facility Functi	on: Public		Dwg: N/A	Sal algebraid and	
Barrier Area:	Parking	Rem	ediation: Required		
Barrier Type:	Accessible Stall Aisle	- NO PARKING Letterin	Ig		
Barrier Description:	Access aisle lacks sig surface	n stating "NO PARKING	" with min. 12" high let	ters contrasting with stall	
Code Referen	ces: CBC 11B-502.3.	3			
As Built Description:	Access aisle lacks co	ntrasting lettering min.	12" high stating "NO PA	ARKING"	
Proposed Solution:	Provide required pay	vement sign at bottom	of access aisle		
As-Built Meas	2 Quantity	: EACH Cost Estima	ite: \$162.00	3SR: 3 Hindrance	
X Coordinate:	-121.95998431183	Y Coordinate: 36.97	7007523849606 Z Coc	ordinate: 26.948852539062	
Implementati	on: Priority 1	Phase	Date	Status Open	
Notes:					
1					
Field Date:	4/20/2017 Rep	oort Date: 5/16/2017	Barrier #: 13F		
Field Date: Facility:	4/20/2017 Rep Capitola Community	oort Date: 5/16/2017 Center	Barrier #: 13F		
Field Date: Facility: Location:	4/20/2017 Rep Capitola Community Parking Lot - Accessi	oort Date: 5/16/2017 Center ble Stalls at Entrance	Barrier #: 13F		
Field Date: Facility: Location: Official Respo	4/20/2017 Rep Capitola Community Parking Lot - Accessi nsible: Brian Van So	oort Date: 5/16/2017 Center ble Stalls at Entrance on, ADA Coordinator	Barrier #: 13F		
Field Date: Facility: Location: Official Respo Facility Functi	4/20/2017 Rep Capitola Community Parking Lot - Accessi nsible: Brian Van So on: Public	oort Date: 5/16/2017 Center ble Stalls at Entrance on, ADA Coordinator	Barrier #: 13F		
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area:	4/20/2017 Rep Capitola Community Parking Lot - Accessi nsible: Brian Van So on: Public Parking	oort Date: 5/16/2017 Center ble Stalls at Entrance on, ADA Coordinator Rem	Barrier #: 13F Dwg: N/A ediation: Required		
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type:	4/20/2017 Rep Capitola Community Parking Lot - Accessi nsible: Brian Van So on: Public Parking Accessible Stall Aisle	oort Date: 5/16/2017 Center ble Stalls at Entrance on, ADA Coordinator Rem - Border	Barrier #: 13F Dwg: N/A ediation: Required		
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description:	4/20/2017 Rep Capitola Community Parking Lot - Accessi nsible: Brian Van So on: Public Parking Accessible Stall Aisle Access aisle lacks a b	oort Date: 5/16/2017 Center ble Stalls at Entrance on, ADA Coordinator Rem - Border lue border or cross-hat	Barrier #: 13F Dwg: N/A ediation: Required tching max. 36" apart th	at contrast with stall surface	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen	4/20/2017 Rep Capitola Community Parking Lot - Accessi nsible: Brian Van So on: Public Parking Accessible Stall Aisle Access aisle lacks a b ces: CBC 11B.502.3.2	oort Date: 5/16/2017 Center ble Stalls at Entrance on, ADA Coordinator Rem - Border lue border or cross-hat	Barrier #: 13F Dwg: N/A ediation: Required tching max. 36" apart th	hat contrast with stall surface	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description:	4/20/2017RepCapitola CommunityParking Lot - Accessinsible:Brian Van Soon:PublicParkingAccessible Stall AisleAccess aisle lacks a bces:CBC 11B.502.3.2Existing pavement st	oort Date: 5/16/2017 Center ble Stalls at Entrance on, ADA Coordinator Rem - Border olue border or cross-hat 2 criping not compliant	Barrier #: 13F Dwg: N/A ediation: Required tching max. 36" apart th	at contrast with stall surface	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution:	4/20/2017 Rep Capitola Community Parking Lot - Accessi nsible: Brian Van So on: Public Parking Accessible Stall Aisle Access aisle lacks a b ces: CBC 11B.502.3.2 Existing pavement st Restripe to provide c	oort Date: 5/16/2017 Center ble Stalls at Entrance on, ADA Coordinator Rem - Border olue border or cross-hat 2 criping not compliant compliant access aisle	Barrier #: 13F Dwg: N/A ediation: Required tching max. 36" apart th	at contrast with stall surface	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas	4/20/2017 Rep Capitola Community Parking Lot - Accessi nsible: Brian Van So on: Public Parking Accessible Stall Aisle Access aisle lacks a b ces: CBC 11B.502.3.2 Existing pavement st Restripe to provide c :: 1	oort Date: 5/16/2017 Center ble Stalls at Entrance on, ADA Coordinator Rem - Border olue border or cross-hat olue border or cross-hat criping not compliant compliant access aisle	Barrier #: 13F Dwg: N/A ediation: Required tching max. 36" apart th	Aat contrast with stall surface	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate:	4/20/2017 Rep Capitola Community Parking Lot - Accessi nsible: Brian Van So on: Public Parking Accessible Stall Aisle Access aisle lacks a b ces: CBC 11B.502.3.2 Existing pavement st Restripe to provide c :: 1 Quantity -121.95998431183	oort Date: 5/16/2017 Center ble Stalls at Entrance on, ADA Coordinator Rem - Border olue border or cross-hat oue border or cross-hat compliant access aisle y: EACH Cost Estima Y Coordinate: 36.97	Barrier #: 13F Dwg: N/A ediation: Required tching max. 36" apart th tching max. 36" apart th	AsR: 1 Necessary	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate: Implementati	4/20/2017 Rep Capitola Community Parking Lot - Accessi nsible: Brian Van So on: Public Parking Accessible Stall Aisle Access aisle lacks a b ces: CBC 11B.502.3.2 Existing pavement st Restripe to provide c :: 1 Quantity -121.95998431183 on: Priority 1	oort Date: 5/16/2017 Center ble Stalls at Entrance on, ADA Coordinator Rem - Border lue border or cross-hat lue border or cross-hat compliant access aisle y: EACH Cost Estima Y Coordinate: 36.97 Phase	Barrier #: 13F Dwg: N/A ediation: Required tching max. 36" apart th tte: \$513.00 7007523849606 Z Coc Date	Ast contrast with stall surface	


Field Date:	4/20/2017 Repo	rt Date: 5/16/2017 Bar	rier #: 🛛 14A 🛛 🌌	
Facility:	Capitola Community C	enter		
Location:	Parking Lot - Accessible	e Stalls at Entrance	9	
Official Respo	nsible: Brian Van Son	, ADA Coordinator		
Facility Functi	on: Public		Dwg: N/A	AND AND AND
Barrier Area:	Parking	Remediation:	Required	
Barrier Type:	Stall Slope - Existing (4	.1% to 4.9%)		
Barrier Description:	Accessible stall & aisle	not max. 2.0% in all directions	s (4.1% to 4.9%)	
Code Referen	ces: CBC 11B-502.4			
As Built Description:	4.5% slope at damaged	d concrete		
Proposed Solution:	Regrade stall to make	level and restripe		
As-Built Meas	: 1 Quantity:	EACH Cost Estimate: \$13	,608.00 BSR: 2	Recommended
X Coordinate:	-121.96003921329	Y Coordinate: 36.970136677	784631 Z Coordinate	21.755371093
Implementati	on: Priority 1	Phase D	ate	Status Open
Notes:				
ļ				
Field Date:	4/20/2017 Repo	rt Date: 5/16/2017 Bar	rier #: 14B	
Field Date: Facility:	4/20/2017 Repo Capitola Community C	rt Date: 5/16/2017 Barn	rier #: 14B	
Field Date: Facility: Location:	4/20/2017 Report Capitola Community Controls Parking Lot - Accessible	rt Date: 5/16/2017 Barn enter e Stalls at Entrance	rier #: 14B	
Field Date: Facility: Location: Official Respo	4/20/2017 Report Capitola Community Controls Parking Lot - Accessible nsible: Brian Van Son	rt Date: 5/16/2017 Barn enter e Stalls at Entrance , ADA Coordinator	rier #: 14B	
Field Date: Facility: Location: Official Respo Facility Functi	4/20/2017 Report Capitola Community Co Parking Lot - Accessible nsible: Brian Van Son on: Public	rt Date: 5/16/2017 Barn enter e Stalls at Entrance , ADA Coordinator	rier #: 14B	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area:	4/20/2017 Report Capitola Community Co Parking Lot - Accessible nsible: Brian Van Son on: Public Parking	rt Date: 5/16/2017 Bar enter e Stalls at Entrance , ADA Coordinator Remediation:	rier #: 14B Dwg: N/A Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type:	4/20/2017 Report Capitola Community Co Parking Lot - Accessible nsible: Brian Van Son on: Public Parking Accessible Stall Sign - F	rt Date: 5/16/2017 Bar enter e Stalls at Entrance , ADA Coordinator Remediation: Fine Sign	rier #: 14B	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description:	4/20/2017 Report Capitola Community Co Parking Lot - Accessible nsible: Brian Van Son on: Public Parking Accessible Stall Sign - F An additional sign or in	rt Date: 5/16/2017 Barr enter e Stalls at Entrance , ADA Coordinator Remediation: fine Sign fo below the ISA does not sta	rier #: 14B Dwg: N/A Required te "Minimum Fine \$25	50."
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen	4/20/2017 Report Capitola Community Co Parking Lot - Accessible nsible: Brian Van Son on: Public Parking Accessible Stall Sign - F An additional sign or in ces: CBC 11B-502.6.2	rt Date: 5/16/2017 Barn enter e Stalls at Entrance a, ADA Coordinator Remediation: Fine Sign afo below the ISA does not star	rier #: 14B Dwg: N/A Required te "Minimum Fine \$25	50."
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description:	4/20/2017ReportCapitola Community CrParking Lot - Accessiblensible:Brian Van Sonon:PublicParkingAccessible Stall Sign - FAn additional sign or inces:CBC 11B-502.6.2No fine sign provided	rt Date: 5/16/2017 Barr enter e Stalls at Entrance , ADA Coordinator Remediation: Fine Sign afo below the ISA does not star	rier #: 14B Dwg: N/A Required te "Minimum Fine \$25	50."
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution:	4/20/2017 Report Capitola Community Cr Parking Lot - Accessible nsible: Brian Van Son on: Public Parking Accessible Stall Sign - F An additional sign or ir ces: CBC 11B-502.6.2 No fine sign provided Provide required sign	rt Date: 5/16/2017 Barrenter e Stalls at Entrance , ADA Coordinator Remediation: Fine Sign nfo below the ISA does not star	rier #: 14B Dwg: N/A Required te "Minimum Fine \$25	50."
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas	4/20/2017 Report Capitola Community Cr Parking Lot - Accessible nsible: Brian Van Son on: Public Parking Accessible Stall Sign - F An additional sign or in ces: CBC 11B-502.6.2 No fine sign provided Provide required sign : 1	rt Date: 5/16/2017 Barrenter e Stalls at Entrance b, ADA Coordinator Remediation: Fine Sign fo below the ISA does not sta	rier #: 14B Dwg: N/A Required te "Minimum Fine \$25 2.00 BSR: 3	50."
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate:	4/20/2017 Report Capitola Community Cr Parking Lot - Accessible nsible: Brian Van Son on: Public Parking Accessible Stall Sign - F An additional sign or in ces: CBC 11B-502.6.2 No fine sign provided Provide required sign : 1 Quantity: -121.96003921329	rt Date: 5/16/2017 Barr enter e Stalls at Entrance , ADA Coordinator Remediation: ine Sign fo below the ISA does not sta fo below the ISA does not sta EACH Cost Estimate: \$16 Y Coordinate: 36.970136677	rier #: 14B Dwg: N/A Required te "Minimum Fine \$25 2.00 BSR: 3 784631 Z Coordinate	50." Hindrance 21.7553710093VED IOB COPY
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate: Implementati	4/20/2017 Report Capitola Community Cr Parking Lot - Accessible nsible: Brian Van Son on: Public Parking Accessible Stall Sign - F An additional sign or in ces: CBC 11B-502.6.2 No fine sign provided Provide required sign : 1 Quantity: -121.96003921329 on: Priority	rt Date: 5/16/2017 Barrenter e Stalls at Entrance , ADA Coordinator Remediation: ine Sign fo below the ISA does not star EACH Cost Estimate: \$16 Y Coordinate: 36.970136677 Phase D	rier #: 14B Dwg: N/A Required te "Minimum Fine \$25 2.00 BSR: 3 784631 Z Coordinate ate	50."



Field Date:	4/20/2017 Repo	rt Date: 5/16/2	017 Barr	ier #: 14C	
Facility:	Capitola Community C	enter			
Location:	Parking Lot - Accessibl	e Stalls at Entrar	nce		
Official Respo	nsible: Brian Van Sor	n, ADA Coordina	tor		
Facility Functi	on: Public			Dwg: N/A	States and states
Barrier Area:	Parking		Remediation:	Required	
Barrier Type:	Van Accessible Stall				
Barrier Description:	No van accessible stall	provided in par	king lot		
Code Referen	ces: CBC 11B.208.2.4				
As Built Description:	Sign indicating stall is	van accessible is	placed on stall	that is not va	n accessible
Proposed Solution:	Remove sign from this side of vehicle	stall. Stall shari	ng access aisle	is correctly loo	cated with aisle on passenger's
As-Built Meas	: 0 Quantity:	EACH Cost E	stimate: \$0.0	0	3SR: 1 Necessary
X Coordinate:	-121.96003921329	Y Coordinate:	36.970136677	84631 Z Coc	rdinate: 21.755371093
Implementati	on: Priority 1	Phase	Da	ate	Status Open
Notes:					
Field Date:	4/20/2017 Repo	rt Date: 5/16/2	017 Barr	ier #: 15	
Field Date: Facility:	4/20/2017 Repo Capitola Community C	rt Date: 5/16/2 enter	2017 Barr	ier #: 15	
Field Date: Facility: Location:	4/20/2017 Repo Capitola Community C Walkway to Outdoor F	rt Date: 5/16/2 Center Patio	2017 Barr	ier #: 15	
Field Date: Facility: Location: Official Respo	4/20/2017 Repo Capitola Community C Walkway to Outdoor F nsible: Brian Van Sor	rt Date: 5/16/2 Center Patio n, ADA Coordina	tor	ier #: 15	
Field Date: Facility: Location: Official Respo Facility Functi	4/20/2017 Repo Capitola Community C Walkway to Outdoor F nsible: Brian Van Sor on: Public	rt Date: 5/16/2 Center Patio h, ADA Coordina	tor	ier #: 15 Dwg: N/A	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area:	4/20/2017 Repo Capitola Community C Walkway to Outdoor F nsible: Brian Van Sor on: Public Walkways	rt Date: 5/16/2 Tenter Patio h, ADA Coordina	tor Remediation:	ier #: 15 Dwg: N/A Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type:	4/20/2017 Repo Capitola Community C Walkway to Outdoor F nsible: Brian Van Sor on: Public Walkways Cross Slope - Existing (rt Date: 5/16/2 Tenter Patio n, ADA Coordina 2.1% to 3.0%)	tor Remediation:	ier #: 15 Dwg: N/A Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description:	4/20/2017 Repo Capitola Community C Walkway to Outdoor F nsible: Brian Van Sor on: Public Walkways Cross Slope - Existing (Cross slope exceeds 2.	rt Date: 5/16/2 Fenter Patio h, ADA Coordina 2.1% to 3.0%) 0% (2.1% to 3.0	2017 Barr tor Remediation: %)	ier #: 15 Dwg: N/A Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen	4/20/2017 Repo Capitola Community C Walkway to Outdoor F nsible: Brian Van Sor on: Public Walkways Cross Slope - Existing (Cross slope exceeds 2. ces: CBC 11B-403.3 ar	rt Date: 5/16/2 enter Patio h, ADA Coordina 2.1% to 3.0%) 0% (2.1% to 3.0 hd 2010 ADAS 40	2017 Barr tor Remediation: %)	ier #: 15 Dwg: N/A Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description:	4/20/2017RepoCapitola Community CWalkway to Outdoor Fnsible:Brian Van Soron:PublicWalkwaysCross Slope - Existing (Cross slope exceeds 2.ces:CBC 11B-403.3 ar2.6% cross slope	rt Date: 5/16/2 Fenter Patio h, ADA Coordina 2.1% to 3.0%) 0% (2.1% to 3.0 hd 2010 ADAS 40	2017 Barr tor Remediation: %)	ier #: 15 Dwg: N/A Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution:	4/20/2017 Repo Capitola Community C Walkway to Outdoor F nsible: Brian Van Sor on: Public Walkways Cross Slope - Existing (Cross slope exceeds 2. ces: CBC 11B-403.3 ar 2.6% cross slope Low severity barrier -	rt Date: 5/16/2 Fenter Patio h, ADA Coordina 2.1% to 3.0%) 0% (2.1% to 3.0° nd 2010 ADAS 40 no remediation	2017 Barr tor Remediation: %) 93.3 recommended	ier #: 15 Dwg: N/A Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas	4/20/2017 Report Capitola Community C Walkway to Outdoor F nsible: Brian Van Sort on: Public Walkways Cross Slope - Existing (Cross slope exceeds 2. ces: CBC 11B-403.3 art 2.6% cross slope Low severity barrier - I : 11 Quantity:	rt Date: 5/16/2 center Patio h, ADA Coordina 2.1% to 3.0%) 0% (2.1% to 3.0%) nd 2010 ADAS 40 no remediation	2017 Barr tor Remediation: %))3.3 recommended stimate: \$1,4	ier #: 15 Dwg: N/A Required	BSR: 4 Low Severity
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate:	4/20/2017 Report Capitola Community C Walkway to Outdoor F nsible: Brian Van Sort on: Public Walkways Cross Slope - Existing (Cross slope exceeds 2. ces: CBC 11B-403.3 and 2.6% cross slope Low severity barrier - : 11 Quantity: -121.96010928601	rt Date: 5/16/2 Fenter Patio A, ADA Coordina 2.1% to 3.0%) 0% (2.1% to 3.0%) 0% (2.1% to 3.0%) ad 2010 ADAS 40 ho remediation for LF Cost E Y Coordinate:	2017 Barr tor Remediation: %) 93.3 recommended stimate: \$1,4 36.970133576	ier #: 15 Dwg: N/A Required 85.00 I 54213 Z Coc	BSR: 4 Low Severity
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate: Implementati	4/20/2017 Report Capitola Community C Walkway to Outdoor F nsible: Brian Van Sort on: Public Walkways Cross Slope - Existing (Cross slope exceeds 2. ces: CBC 11B-403.3 art 2.6% cross slope Low severity barrier - 1 : 11 Quantity: -121.96010928601 on: Priority	rt Date: 5/16/2 center Patio h, ADA Coordina 2.1% to 3.0%) 0% (2.1% to 3.0%) nd 2010 ADAS 40 ho remediation LF Cost E Y Coordinate: Phase	2017 Barr tor Remediation: %) 03.3 recommended stimate: \$1,4 36.970133576 Da	ier #: 15 Dwg: N/A Required 85.00 1 54213 Z Coc	Status Openant



Field Date:	4/20/2017 Report Date: 5/16/2017 Barr	rier #: 16
Facility:	Capitola Community Center	
Location:	Walkway to Outdoor Patio	
Official Respor	nsible: Brian Van Son, ADA Coordinator	
Facility Function	on: Public	Dwg: N/A
Barrier Area:	Walkways Remediation:	Required
Barrier Type:	Protruding Hazard - Foliage	
Barrier Description:	Trees, bushes or plants protrude more than 4" into a	ccessible route between 27" and 80" high
Code Reference	ces: CBC 11B-307.2 and 2010 ADAS 307.2	
As Built Description:	Foliage protrudes into walkway to patio	
Proposed Solution:	Trim foliage to prevent encroachment into accessible	e route
As-Built Meas:	Quantity: JOB Cost Estimate: \$270	0.00 BSR: 2 Recommended
X Coordinate:	-121.96022185496 Y Coordinate: 36.969845155	25400 Z Coordinate: 22.95703125
Implementatio	on: Priority 1 Phase Da	ate Status Open
Notes:		
Field Date:	4/20/2017 Report Date: 5/16/2017 Barr	rier #: 17
Field Date: Facility:	4/20/2017 Report Date: 5/16/2017 Barr Capitola Community Center	rier #: 17
Field Date: Facility: Location:	4/20/2017 Report Date: 5/16/2017 Barr Capitola Community Center Outdoor Patio	rier #: 17
Field Date: Facility: Location: Official Respor	4/20/2017 Report Date: 5/16/2017 Barr Capitola Community Center Outdoor Patio nsible: Brian Van Son, ADA Coordinator	rier #: 17
Field Date: Facility: Location: Official Respon Facility Function	4/20/2017 Report Date: 5/16/2017 Barr Capitola Community Center Outdoor Patio Image: Community Center Dutdoor Patio Image: Community Center Image: Community Center Sible: Brian Van Son, ADA Coordinator Image: Community Center Don: Public Image: Community Center	rier #: 17 Dwg: N/A
Field Date: Facility: Location: Official Respon Facility Function Barrier Area:	4/20/2017 Report Date: 5/16/2017 Barr Capitola Community Center Outdoor Patio Image: Community Center Image: Community Center Outdoor Patio Image: Community Center Image: Community Center Image: Community Center Image: Community Center Outdoor Patio Image: Community Center Image: Community Center Image: Community Center Image: Community Center Image: Community Center Image: Community Center Image: Community Center Image: Community Center Image: Community Center Image: Community Center Image: Community Center Image: Community Center Image: Community Center Image: Community Center Image: Community Center Image: Community Center Image: Community Center Image: Community Center Image: Community Center Image: Community Center Image: Community Center Image: Community Center Image: Community Center Image: Community Center Image: Community Center Image: Community Center Image: Community Center Image: Community Center Image: Community Center Image: Community Center Image: Community Center Image: Community Center Image: Community Center Image: Community Center Image: Community Center	rier #: 17 Dwg: N/A Recommended
Field Date: Facility: Location: Official Respon Facility Function Barrier Area: Barrier Type:	4/20/2017 Report Date: 5/16/2017 Barr Capitola Community Center	rier #: 17 Dwg: N/A Recommended
Field Date: Facility: Location: Official Respon Facility Function Barrier Area: Barrier Type: Barrier Description:	4/20/2017 Report Date: 5/16/2017 Barr Capitola Community Center Outdoor Patio Image: Community Center Image: Community Center Outdoor Patio Image: Community Center Image: Community Center Image: Community Center Image: Community Center Outdoor Patio Image: Community Center Image: Community Center Image: Community Center Image: Community Center Image: Community Center <	rier #: 17 Dwg: N/A Recommended 0 19" above ground. Back support not
Field Date: Facility: Location: Official Respon Facility Function Barrier Area: Barrier Type: Barrier Description: Code Reference	4/20/2017 Report Date: 5/16/2017 Barr Capitola Community Center Outdoor Patio Distribution Distribution Outdoor Patio Brian Van Son, ADA Coordinator Distribution Distribution On: Public Remediation: Distribution Walkways Remediation: Remediation: Bench - Seat Height/Depth/Back Support Bench seat not 20" to 24" deep and height not 17" to compliant ces: Performance Standard, CBC 11B-903.3 and 2010	rier #: 17 Dwg: N/A Recommended 0 19" above ground. Back support not 0 ADAS 903.3
Field Date: Facility: Location: Official Respon Facility Function Barrier Area: Barrier Type: Barrier Description: Code Reference As Built Description:	4/20/2017 Report Date: 5/16/2017 Barr Capitola Community Center Outdoor Patio Image: Community Center Outdoor Patio Image: Community Center Image: Community Center Outdoor Patio Image: Community Center Image: Community Center Outdoor Patio Image: Community Center Image: Community Center Image: Outdoor Patio Image: Community Center Image: Community Center Image: Outdoor Patio Image: Community Center Image: Community Center Image: Outdoor Patio Image: Community Center Image: Community Center Image: Outdoor Patio Image: Community Center Image: Community Center Image: Outdoor Patio Image: Community Center Image: Community Center Image: Outdoor Patio Image: Community Center Image: Community Center Image: Outdoor Patio Image: Community Center Image: Community Center Image: Outdoor Patio Image: Community Center Image: Community Center Image: Outdoor Patio Image: Community Center Image: Community Center Image: Outdoor Patio Image: Community Center Image: Community Center Image: Outdoor Patis Image: Community Center <td>rier #: 17 Dwg: N/A Recommended 0 19" above ground. Back support not 0 ADAS 903.3 enches in patio</td>	rier #: 17 Dwg: N/A Recommended 0 19" above ground. Back support not 0 ADAS 903.3 enches in patio
Field Date: Facility: Location: Official Respon Facility Function Barrier Area: Barrier Type: Barrier Description: Code Reference As Built Description: Proposed Solution:	4/20/2017 Report Date: 5/16/2017 Barr Capitola Community Center Outdoor Patio Image: Community Center Image: Community Center Outdoor Patio Image: Community Center Image: Community Center Image: Community Center Outdoor Patio Image: Community Center Image: Community Center Image: Community Center Outdoor Patio Image: Community Center Image: Community Center Image: Community Center Image: Outdoor Patio Image: Community Center Image: Community Center Image: Community Center Image: Outdoor Patio Image: Community Center Image: Community Center Image: Community Center Image: Outdoor Patio Image: Community Center Image: Community Center Image: Community Center Image: Outdoor Patio Image: Community Center Image: Community Center Image: Community Center Image: Outdoor Patio Image: Community Center Image: Community Center Image: Community Center Image: Outdoor Patio Image: Community Center Image: Community Center Image: Community Center Image: Outdoor Patio Image: Community Center Image: Community Center Image: Community Center Image: Outdoor Patio	rier #: 17 Dwg: N/A Recommended 0 19" above ground. Back support not 0 ADAS 903.3 enches in patio ole or 5% overall
Field Date: Facility: Location: Official Respon Facility Function Barrier Area: Barrier Type: Barrier Description: Code Reference As Built Description: Proposed Solution: As-Built Meas:	4/20/2017 Report Date: 5/16/2017 Barr Capitola Community Center Outdoor Patio Image: Community Center Image: Community Center Outdoor Patio Image: Community Center Image: Community Center Image: Community Center Outdoor Patio Image: Community Center Image: Community Center Image: Community Center Outdoor Patio Image: Community Center Image: Community Center Image: Community Center Outdoor Patio Image: Community Center Image: Community Center Image: Community Center Outdoor Patio Image: Community Center Image: Community Center Image: Community Center Outdoor Patio Image: Community Center Image: Community Center Image: Community Center Walkways Image: Community Center Image: Community Center Image: Community Center Image: Community Center Walkways Image: Community Center Image: Community Center Image: Community Center Image: Community Center Bench - Seat Height/Depth/Back Support Image: Community Center Image: Community Center Image: Community Center Genetic - Image: Community Center Image: Community Center Image: Community Center Image: Community Center <td>rier #: 17 Dwg: N/A Recommended 0 19" above ground. Back support not 0 ADAS 903.3 enches in patio ole or 5% overall 88.00 BSR: 3 Hindrance</td>	rier #: 17 Dwg: N/A Recommended 0 19" above ground. Back support not 0 ADAS 903.3 enches in patio ole or 5% overall 88.00 BSR: 3 Hindrance
Field Date: Facility: Location: Official Respon Facility Function Barrier Area: Barrier Type: Barrier Description: Code Reference As Built Description: Proposed Solution: As-Built Meas: X Coordinate:	4/20/2017 Report Date: 5/16/2017 Barr Capitola Community Center Outdoor Patio Image: Community Center Outdoor Patio Image: Community Center Remediation: Walkways Remediation: Image: Community Center Walkways Remediation: Image: Community Center Bench - Seat Height/Depth/Back Support Image: Community Center Image: Community Center Bench seat not 20" to 24" deep and height not 17" to compliant Image: Center Image: Center Ces: Performance Standard, CBC 11B-903.3 and 2010 Image: Center Image: Center Image: Center Image: Center Image: Center Ima	rier #: 17 Dwg: N/A Recommended 0 19" above ground. Back support not 0 ADAS 903.3 enches in patio ole or 5% overall 188.00 BSR: 3 Hindrance
Field Date: Facility: Location: Official Respon Facility Function Barrier Area: Barrier Type: Barrier Description: Code Reference As Built Description: Proposed Solution: As-Built Meas: X Coordinate:	4/20/2017 Report Date: 5/16/2017 Barr Capitola Community Center Outdoor Patio Image: Community Center Image: Community Center Outdoor Patio Image: Community Center Image: Community Center Image: Community Center Outdoor Patio Image: Community Center Image: Community Center Image: Community Center Outdoor Patio Image: Community Center Image: Community Center Image: Community Center Image: Outdoor Patio Image: Community Center Image: Community Center Image: Community Center Image: Outdoor Patio Image: Community Center Image: Community Center Image: Community Center Image: Outdoor Patio Image: Community Center Image: Community Center Image: Community Center Image: Outdoor Patio Image: Community Center Image: Community Center Image: Community Center Image: Outdoor Patio Image: Community Center Image: Community Center Image: Community Center Image: Outdoor Patio Image: Community Center Image: Community Center Image: Community Center Image: Outdoor Patio Image: Community Center Image: Community Center Image: Community Center Image: Community Center	rier #: 17 Dwg: N/A Recommended 0 19" above ground. Back support not 0 ADAS 903.3 enches in patio ole or 5% overall 188.00 BSR: 3 Hindrance 06701 Z Coordinate: 19.111816406250 OECOPY ate Status Open.



Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 18A	
Facility: Capitola Community Center	
Location: Outdoor Patio	THE
Official Responsible: Brian Van Son, ADA Coordinator	ALL C
Facility Function: Public Dwg: N/A	
Barrier Area: Walkways Remediation: Required	
Barrier Type: Cross Slope - Existing (3.1% to 4.0%)	
Barrier Cross slope exceeds 2.0% (3.1% to 4.0%) Description:	
Code References: CBC 11B-403.3 and 2010 ADAS 403.3	
As Built 3.1% cross slope and wooden framing has deteriorated creating abrupt changes in level locations	n many
Proposed Demolish existing and construct new route Solution:	
As-Built Meas: 1250 Quantity: LF Cost Estimate: \$168,750.00 BSR: 3 Hindrance	
X Coordinate: -121.96010928601 Y Coordinate: 36.97013357654213 Z Coordinate: 22.9570312	5
Implementation: Priority 1 Phase Date Status Oper	1
Notes:	
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 18B	
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 18B Facility: Capitola Community Center Image: Capitola Community Center Image: Capitola Community Center	
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 18B Facility: Capitola Community Center Image: Capitola Community Center Image: Capitola Community Center Image: Capitola Community Center Location: Outdoor Patio Image: Capitola Community Center Image: Capitola Community Center Image: Capitola Community Center Official Responsible: Drian Van San, ADA Capitola Community Image: Capitola Community Center Image: Capitola Community Center	
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 18B Facility: Capitola Community Center Location: Outdoor Patio Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg:	
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 18B Facility: Capitola Community Center Location: Outdoor Patio Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: N/A Barrier Area: Walkways Remediation: Required	
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 18B Facility: Capitola Community Center Location: Outdoor Patio Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: N/A Barrier Area: Walkways Remediation: Required Barrier Type: Grate in Route	
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 18B Facility: Capitola Community Center Location: Outdoor Patio Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Barrier Area: Walkways Barrier Type: Grate in Route Barrier Grate in walkway has openings that exceed 1/2"	
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 18B Facility: Capitola Community Center Location: Outdoor Patio Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: N/A Barrier Area: Walkways Remediation: Required Barrier Type: Grate in Route Barrier Type: Grate in walkway has openings that exceed 1/2" Code References: CBC 11B-302.3 and 2010 ADAS 302.3	
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 18B Facility: Capitola Community Center	
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 18B Facility: Capitola Community Center	
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 18B Facility: Capitola Community Center Location: Outdoor Patio Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: N/A Barrier Area: Walkways Remediation: Required Barrier Type: Grate in Route Solution: CBC 11B-302.3 and 2010 ADAS 302.3 As Built Grate has 3/4" openings Description: Proposed Proposed Replace grate Solution: 1 Quantity: EACH Cost Estimate: \$270.00 BSR: 1 Quantity: EACH Cost Estimate: \$270.00	
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 18B Facility: Capitola Community Center Location: Outdoor Patio Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: N/A Barrier Area: Walkways Remediation: Required Barrier Type: Grate in Route Grate in walkway has openings that exceed 1/2" Code References: Code References: CBC 11B-302.3 and 2010 ADAS 302.3 As Built Grate has 3/4" openings Description: Proposed Replace grate Solution: 1 Quantity: EACH Cost Estimate: \$270.00 BSR: 1 Necessary X Coordinate: 121.96010928601 Y Coordinate: 36.97013357654213 Z Coordinate: 22.95703 M	
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 18B Facility: Capitola Community Center	



Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 19
Facility: Capitola Community Center
Location: Outdoor Patio - Kitchen Entry
Official Responsible: Brian Van Son, ADA Coordinator
Facility Function: Public Dwg: N/A
Barrier Area: Doors or Gates Remediation: Required
Barrier Type: Threshold (replacement)
Barrier Door/Gate threshold height exceeds 1/2" with a bevel Description:
Code References: CBC 11B-404.2.5 & 2010 ADAS 404.2.5
As Built 3/4" high concrete threshold Description:
Proposed Provide new door threshold Solution:
As-Built Meas: 1 Quantity: EACH Cost Estimate: \$297.00 BSR: 1 Necessary
X Coordinate: -121.96025513112 Y Coordinate: 36.96981003507971 Z Coordinate: 22.2359619140625
Implementation: Priority 2 Phase Date Status Open
Notes:
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 20A
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 20A Facility: Capitola Community Center Capitola Community Center Capitola Community Center
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 20A Facility: Capitola Community Center Image: Capitola Community Center Imag
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 20A Facility: Capitola Community Center
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 20A Facility: Capitola Community Center Location: Walkway to Entrance Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: N/A
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 20A Facility: Capitola Community Center Location: Walkway to Entrance Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: N/A Barrier Area: Walkways Remediation: Required
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 20A Facility: Capitola Community Center Location: Walkway to Entrance Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: N/A Barrier Area: Walkways Remediation: Required
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 20A Facility: Capitola Community Center
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 20A Facility: Capitola Community Center Location: Walkway to Entrance Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: N/A Barrier Area: Walkways Remediation: Required Barrier Type: Change of Direction - Level Space Earrier Barrier Turning space identified with a change in level of more than 1:48 (2.0%) Code References: CBC 11B-304.2 and 2010 ADAS 304.2
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 20A Facility: Capitola Community Center
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 20A Facility: Capitola Community Center Location: Walkway to Entrance Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: N/A Barrier Area: Walkways Remediation: Required Barrier Type: Change of Direction - Level Space Second the second seco
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 20A Facility: Capitola Community Center Location: Walkway to Entrance Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: N/A Barrier Area: Walkways Remediation: Required Barrier Type: Change of Direction - Level Space Direction - Level Space Barrier Type: CBC 11B-304.2 and 2010 ADAS 304.2 Code References: CBC 11B-304.2 and 2010 ADAS 304.2 As Built 6.6% slope in landing at change of direction Description: Alter floor or ground surface to comply Solution: Alter floor or ground surface to comply Solution: 45 Quantity: SF Cost Estimate: \$6,075.00 BSR: 2 Recommende@@@
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 20A Facility: Capitola Community Center Location: Walkway to Entrance Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: N/A Barrier Area: Walkways Remediation: Required Barrier Type: Change of Direction - Level Space Valkways Barrier Type: Change of Direction - Level Space Barrier Type: CBC 11B-304.2 and 2010 ADAS 304.2 Code References: CBC 11B-304.2 and 2010 ADAS 304.2 As Built 6.6% slope in landing at change of direction Description: 6.6% slope in landing at change of direction Proposed Alter floor or ground surface to comply Solution: Alter floor or ground surface to comply Solution: 45 X Coordinate: 121.96010928601 Y Coordinate: 36.97013357654213 Z Coordinate: 22.95703 22.0000
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 20A Facility: Capitola Community Center Location: Walkway to Entrance Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Barrier Area: Walkways Remediation: Required Barrier Type: Change of Direction - Level Space Code References: CBC 11B-304.2 and 2010 ADAS 304.2 As Built 6.6% slope in landing at change of direction Description: Alter floor or ground surface to comply Solution: Alter floor or ground surface to comply



Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 20B
Facility: Capitola Community Center
Location: Walkway to Entrance
Official Responsible: Brian Van Son, ADA Coordinator
Facility Function: Public Dwg: N/A
Barrier Area: Walkways Remediation: Required
Barrier Type: Cross Slope - Existing (4.1% to 4.9%)
Barrier Cross slope exceeds 2.0% (4.1% to 4.9%) Description:
Code References: CBC 11B-403.3 and 2010 ADAS 403.3
As Built 4.5% cross slope to drain inlet Description:
Proposed Demolish existing and construct new route Solution:
As-Built Meas: 11 Quantity: LF Cost Estimate: \$1,485.00 BSR: 2 Recommended
X Coordinate: -121.96010928601 Y Coordinate: 36.97013357654213 Z Coordinate: 22.95703125
Implementation: Priority 1 Phase Date Date Status Open
Notes:
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 20C
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 20C Facility: Capitola Community Center Capitola Community Center
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 20C Facility: Capitola Community Center Location: Walkway to Entrance
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 20C Facility: Capitola Community Center
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 20C Facility: Capitola Community Center Location: Walkway to Entrance Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg:
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 20C Facility: Capitola Community Center Location: Walkway to Entrance Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Barrier Area: Walkways Remediation: Required
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 20C Facility: Capitola Community Center Location: Walkway to Entrance Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Barrier Area: Walkways Walkways Remediation: Remediation: Required
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 20C Facility: Capitola Community Center Location: Walkway to Entrance Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: N/A Barrier Area: Walkways Remediation: Required Barrier Type: Grate in Route Image: Second
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 20C Facility: Capitola Community Center Location: Walkway to Entrance Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: N/A Barrier Area: Walkways Remediation: Required Barrier Type: Grate in Route Barrier Code References: CBC 11B-302.3 and 2010 ADAS 302.3
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 20C Facility: Capitola Community Center Location: Walkway to Entrance Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: N/A Barrier Area: Walkways Barrier Type: Grate in Route Barrier Grate in walkway has openings that exceed 1/2" Code Reference: CBC 11B-302.3 and 2010 ADAS 302.3 As Built Grate has 3/4" openings
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 20C Facility: Capitola Community Center Location: Walkway to Entrance Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: N/A Barrier Area: Walkways Barrier Type: Grate in Route Barrier Description: Code References: CBC 11B-302.3 and 2010 ADAS 302.3 As Built Description: Proposed Solution:
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 20C Facility: Capitola Community Center
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 20C Facility: Capitola Community Center Location: Walkway to Entrance Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: N/A Barrier Area: Walkways Remediation: Required Barrier Type: Grate in Route Barrier Type: Grate in walkway has openings that exceed 1/2" Description: CBC 11B-302.3 and 2010 ADAS 302.3 As Built Grate has 3/4" openings Description: Grate and 2010 ADAS 302.3 As Built Grate and 2010 ADAS 302.3 As Built Grate and 2010 ADAS 302.3 As Built Grate grate Solution: 1 Quantity: EACH Cost Estimate: \$270.00 BSR: 1 Necessary X Coordinate: 121.96010928601 Y Coordinate: 36.97013357654213 Z Coordinate: 22.95703
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 20C Facility: Capitola Community Center



Field Date:	4/20/2017 Report	t Date: 5/16/2017	Barrier #: 20D	A States
Facility:	Capitola Community Ce	nter		
Location:	Walkway to Entrance			
Official Respo	nsible: Brian Van Son,	ADA Coordinator		For I
Facility Funct	on: Public		Dwg: N/A	T
Barrier Area:	Walkways	Remedia	tion: Required	n is in
Barrier Type:	Bench - Level Landing			
Barrier Description:	No level landing provide	ed adjacent to bench		
Code Referen	ces: CBC 11B-305.3 and	2010 ADAS 305.3		
As Built Description:	Space for people using shoulder alignment	wheelchairs adjacent to	bench is not level or mi	n. 30"x 48" allowing
Proposed Solution:	Provide level landing ac	ljacent to min. 1 bench c	r 5% of group of bench	es
As-Built Meas	: 12 Quantity:	SF Cost Estimate:	\$1,620.00 BSR:	3 Hindrance
X Coordinate	-121.96010928601	Y Coordinate: 36.97013	357654213 Z Coordin	ate: 22.95703125
Implementati	on: Priority 1	Phase	Date	Status Open
Notes:				
Field Date:	4/20/2017 Report	t Date: 5/16/2017	Barrier #: 20E	A Participant
Field Date: Facility:	4/20/2017 Report	t Date: 5/16/2017	Barrier #: 20E	
Field Date: Facility: Location:	4/20/2017 Report Capitola Community Ce Walkway to Entrance	t Date: 5/16/2017 Inter	Barrier #: 20E	
Field Date: Facility: Location: Official Respo	4/20/2017 Report Capitola Community Ce Walkway to Entrance nsible: Brian Van Son,	t Date: 5/16/2017 Inter ADA Coordinator	Barrier #: 20E	
Field Date: Facility: Location: Official Respo Facility Funct	4/20/2017 Report Capitola Community Ce Walkway to Entrance nsible: Brian Van Son, on: Public	t Date: 5/16/2017 Inter ADA Coordinator	Barrier #: 20E	
Field Date: Facility: Location: Official Respo Facility Funct Barrier Area:	4/20/2017 Report Capitola Community Ce Walkway to Entrance nsible: Brian Van Son, on: Public Walkways	t Date: 5/16/2017 Inter ADA Coordinator Remedia	Barrier #: 20E Dwg: N/A tion: Recommended	
Field Date: Facility: Location: Official Respo Facility Funct Barrier Area: Barrier Type:	4/20/2017 Report Capitola Community Ce Walkway to Entrance nsible: Brian Van Son, on: Public Walkways Bench - Seat Height/De	t Date: 5/16/2017 Inter ADA Coordinator Remedia pth/Back Support	Barrier #: 20E Dwg: N/A tion: Recommended	
Field Date: Facility: Location: Official Respo Facility Funct Barrier Area: Barrier Type: Barrier Description:	4/20/2017 Report Capitola Community Ce Walkway to Entrance nsible: Brian Van Son, on: Public Walkways Bench - Seat Height/De Bench seat not 20" to 2 compliant	t Date: 5/16/2017 Inter ADA Coordinator Remedia pth/Back Support 4" deep and height not 2	Barrier #: 20E Dwg: N/A tion: Recommended	A. Back support not
Field Date: Facility: Location: Official Respo Facility Funct Barrier Area: Barrier Type: Barrier Description: Code Referen	4/20/2017 Report Capitola Community Ce Walkway to Entrance nsible: Brian Van Son, on: Public Walkways Bench - Seat Height/De Bench seat not 20" to 2 compliant ces: Performance Stand	t Date: 5/16/2017 Inter ADA Coordinator Remedia pth/Back Support 4" deep and height not 3 dard, CBC 11B-903.3 and	Barrier #: 20E Dwg: N/A tion: Recommended	d. Back support not
Field Date: Facility: Location: Official Respondent Facility Funct Barrier Area: Barrier Type: Barrier Description: Code Referent As Built Description:	4/20/2017 Report Capitola Community Ce Walkway to Entrance nsible: Brian Van Son, on: Public Walkways Bench - Seat Height/De Bench seat not 20" to 2 compliant ces: Performance Stand 16-1/2" bench seat heig	t Date: 5/16/2017 Inter ADA Coordinator Remedia pth/Back Support 4" deep and height not 2 dard, CBC 11B-903.3 and ght and 17" seat depth a	Barrier #: 20E Dwg: N/A tion: Recommended 17" to 19" above ground 2010 ADAS 903.3 nd no backrest is provid	A. Back support not
Field Date: Facility: Location: Official Respondent Facility Funct Barrier Area: Barrier Type: Barrier Description: Code Referent As Built Description: Proposed Solution:	4/20/2017 Report Capitola Community Ce Walkway to Entrance nsible: Brian Van Son, on: Public Walkways Bench - Seat Height/De Bench seat not 20" to 2 compliant ces: Performance Stand 16-1/2" bench seat heig	t Date: 5/16/2017 enter ADA Coordinator Remedia pth/Back Support 4" deep and height not 3 dard, CBC 11B-903.3 and ght and 17" seat depth a ing element in area is acc	Barrier #: 20E Dwg: N/A tion: Recommended 17" to 19" above ground 2010 ADAS 903.3 nd no backrest is provid cessible or 5% overall	d. Back support not
Field Date: Facility: Location: Official Respondent Facility Funct Barrier Area: Barrier Type: Barrier Description: Code Referent As Built Description: Proposed Solution: As-Built Meas	4/20/2017 Report Capitola Community Ce Walkway to Entrance nsible: Brian Van Son, on: Public Walkways Bench - Seat Height/De Bench seat not 20" to 2 compliant ces: Performance Stance 16-1/2" bench seat height Ensure that min. 1 seati : 1	t Date: 5/16/2017 Inter ADA Coordinator Remedia pth/Back Support 4" deep and height not 2 dard, CBC 11B-903.3 and ght and 17" seat depth a ing element in area is acc EACH Cost Estimate:	Barrier #: 20E Dwg: N/A tion: Recommended 17" to 19" above ground 2010 ADAS 903.3 nd no backrest is provid cessible or 5% overall \$1,188.00 BSR:	A. Back support not ed
Field Date: Facility: Location: Official Response Facility Funct Barrier Area: Barrier Type: Barrier Description: Code Referent As Built Description: Proposed Solution: As-Built Meas X Coordinate	4/20/2017 Report Capitola Community Ce Walkway to Entrance nsible: Brian Van Son, on: Public Walkways Bench - Seat Height/De Bench seat not 20" to 2 compliant ces: Performance Stand 16-1/2" bench seat heig Ensure that min. 1 seati : 1 Quantity: -121.96010928601	t Date: 5/16/2017 Inter ADA Coordinator Remedia pth/Back Support 4" deep and height not 2 dard, CBC 11B-903.3 and ght and 17" seat depth a ing element in area is acc EACH Cost Estimate: Y Coordinate: 36.97013	Barrier #: 20E Dwg: N/A tion: Recommended 17" to 19" above ground 2010 ADAS 903.3 Ind no backrest is provid cessible or 5% overall \$1,188.00 BSR: 357654213 Z Coordin	A. Back support not ed
Field Date: Facility: Location: Official Response Facility Funct Barrier Area: Barrier Type: Barrier Description: Code Referent As Built Description: Proposed Solution: As-Built Meas X Coordinate	4/20/2017 Report Capitola Community Ce Walkway to Entrance nsible: Brian Van Son, on: Public Walkways Bench - Seat Height/De Bench seat not 20" to 2 compliant ces: Performance Stand 16-1/2" bench seat heig Ensure that min. 1 seat Ensure that min. 1 seat : 1 Quantity: -121.96010928601 on: Priority 1	t Date: 5/16/2017 enter ADA Coordinator Remedia pth/Back Support 4" deep and height not 2 dard, CBC 11B-903.3 and ght and 17" seat depth a ing element in area is acc EACH Cost Estimate: Y Coordinate: 36.97013 Phase	Barrier #: 20E Dwg: N/A tion: Recommended 17" to 19" above ground 2010 ADAS 903.3 nd no backrest is provid cessible or 5% overall \$1,188.00 BSR: 357654213 Z Coordin Date	A. Back support not ed 3 Hindrance ate: 22.95703 12 FROVED JOB COPY Status OCCUPY



Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 21A
Facility: Capitola Community Center
Location: Walkway to Entrance
Official Responsible: Brian Van Son, ADA Coordinator
Facility Function: Public Dwg: N/A
Barrier Area: Walkways Remediation: Required
Barrier Type: Cross Slope - Existing (4.1% to 4.9%)
Barrier Cross slope exceeds 2.0% (4.1% to 4.9%) Description:
Code References: CBC 11B-403.3 and 2010 ADAS 403.3
As Built 4.5% cross slope at second drain inlet in path of travel to entrance Description:
Proposed Demolish existing and construct new route Solution:
As-Built Meas: 10 Quantity: LF Cost Estimate: \$1,350.00 BSR: 2 Recommended
X Coordinate: -121.96002739481 Y Coordinate: 36.96997767314314 Z Coordinate: 21.2747802734375
Implementation: Priority 1 Phase Date Date Status Open
Notes:
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 21B
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 21B Facility: Capitola Community Center Example of the second s
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 21B Facility: Capitola Community Center Image: Capitola Community Center Image: Capitola Community Center Image: Capitola Community Center Location: Walkway to Entrance Image: Capitola Community Center Image: Capitola Center
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 21B Facility: Capitola Community Center Image: Capitola Community Center Imag
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 21B Facility: Capitola Community Center
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 21B Facility: Capitola Community Center Location: Walkway to Entrance Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: N/A Barrier Area: Walkways Remediation: Required
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 21B Facility: Capitola Community Center Location: Walkway to Entrance Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: N/A Barrier Area: Walkways Remediation: Required Barrier Type: Grate in Route
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 21B Facility: Capitola Community Center Location: Walkway to Entrance Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Barrier Area: Walkways Remediation: Required Barrier Type: Grate in Route Grate in walkway has openings that exceed 1/2"
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 21B Facility: Capitola Community Center Location: Walkway to Entrance Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: N/A Barrier Area: Walkways Remediation: Required Barrier Type: Grate in Route Barrier Type: Grate in walkway has openings that exceed 1/2" Code References: CBC 11B-302.3 and 2010 ADAS 302.3
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 21B Facility: Capitola Community Center Location: Walkway to Entrance Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: N/A Barrier Area: Walkways Remediation: Required Barrier Type: Grate in Route Grate in walkway has openings that exceed 1/2" Code References: CBC 11B-302.3 and 2010 ADAS 302.3 As Built Grate has 3/4" openings
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 21B Facility: Capitola Community Center Location: Walkway to Entrance Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Barrier Area: Walkways Remediation: Required Barrier Type: Grate in Route Barrier In walkway has openings that exceed 1/2" Code References: CBC 11B-302.3 and 2010 ADAS 302.3 As Built Grate has 3/4" openings Proposed Replace grate Solution:
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 21B Facility: Capitola Community Center Location: Walkway to Entrance Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Barrier Area: Walkways Remediation: Required Barrier Type: Grate in Route Barrier Orate in walkway has openings that exceed 1/2" Code Reference: CBC 11B-302.3 and 2010 ADAS 302.3 As Built Grate has 3/4" openings Proposed Solution: As-Built Meas: 1 Quantity: EACH Cost Estimate: \$270.00 BSR: 1 Necessary
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 21B Facility: Capitola Community Center Location: Walkway to Entrance Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Barrier Area: Walkways Remediation: Required Barrier Type: Grate in Route Barrier Capitola Community has openings that exceed 1/2" Code References: CBC 11B-302.3 and 2010 ADAS 302.3 As Built Description: Proposed Replace grate Solution: As-Built Meas: 1 Quantity: EACH Cost Estimate: \$270.00 BSR: 1 Necessary 2 Coordinate: 21.27478027548375
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 21B Facility: Capitola Community Center Location: Walkway to Entrance Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: N/A Barrier Area: Walkways Remediation: Required Barrier Type: Grate in Route Barrier Type: Grate in walkway has openings that exceed 1/2" Description: CBC 11B-302.3 and 2010 ADAS 302.3 As Built Grate has 3/4" openings Description: Replace grate Solution: 1 Quantity: FACH Cost Estimate: \$270.00 BSR: 1 Necessary V Coordinate: -121.96002739481 Y Coordinate: 36.96997767314314 Z Coordinate: Implementation: Priority 1 Phase Date Status



Field Date:	4/20/2017 Repo	rt Date: 5/16/20	17 Barr	ier #: 22A	
Facility:	Capitola Community C	enter			
Location:	Main Entrance				
Official Respo	nsible: Brian Van Sor	n, ADA Coordinato	r		
Facility Functi	on: Public			Dwg: 1 of 1	1
Barrier Area:	Signage	R	emediation:	Required	
Barrier Type:	ISA - Accessible Entry				
Barrier Description:	No sign identifying do	or as accessible			
Code Referen	ces: CBC 11B-216.6				
As Built Description:	Accessible entrance ha	as no ISA sign			
Proposed Solution:	Provide ISA at accessib	ble entrance door			
As-Built Meas	: 1 Quantity:	EACH Cost Est	imate: \$270	0.00 BSR:	1 Necessary
X Coordinate:	-121.96010928601	Y Coordinate: 3	6.970133576	54213 Z Coordina	te: 22.95703125
Implementati	on: Priority 4	Phase	Da	te	Status Open
Notes:					
Field Date:	4/20/2017 Repo	rt Date: 5/16/20	17 Barr	ier #: 22B	
Field Date: Facility:	4/20/2017 Repo Capitola Community C	rt Date: 5/16/20 Tenter	17 Barr	ier #: 22B	
Field Date: Facility: Location:	4/20/2017 Repo Capitola Community C Main Entrance	rt Date: 5/16/20 Tenter	17 Barr	ier #: 22B	
Field Date: Facility: Location: Official Respo	4/20/2017 Repo Capitola Community C Main Entrance nsible: Brian Van Sor	rt Date: 5/16/20 Center n, ADA Coordinato	17 Barr or	ier #: 22B	
Field Date: Facility: Location: Official Respo Facility Functi	4/20/2017 Repo Capitola Community C Main Entrance nsible: Brian Van Sor on: Public	rt Date: 5/16/20 Tenter n, ADA Coordinato	17 Barr	ier #: 22B Dwg: 1 of 1	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area:	4/20/2017 Repo Capitola Community C Main Entrance nsible: Brian Van Sor on: Public Signage	rt Date: 5/16/20 Center h, ADA Coordinato	17 Barr or emediation:	ier #: 22B Dwg: 1 of 1 Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type:	4/20/2017 Repo Capitola Community C Main Entrance nsible: Brian Van Sor on: Public Signage Room ID Sign - No Sigr	rt Date: 5/16/20 Center h, ADA Coordinato R	17 Barr or emediation:	ier #: 22B Dwg: 1 of 1 Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description:	4/20/2017 Repo Capitola Community C Main Entrance nsible: Brian Van Sor on: Public Signage Room ID Sign - No Sigr No room ID sign provi	rt Date: 5/16/20 Center n, ADA Coordinato R n ded at permanent	17 Barr or emediation: room or space	ier #: 22B Dwg: 1 of 1 Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen	4/20/2017RepoCapitola Community CMain Entrancensible:Brian Van Soron:PublicSignageRoom ID Sign - No SignNo room ID sign providces:CBC 11B-703.4.2	rt Date: 5/16/20 enter h, ADA Coordinato R ded at permanent & 2010 ADAS 703.	17 Barr or emediation: room or space	ier #: 22B Dwg: 1 of 1 Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description:	4/20/2017 Repo Capitola Community C Main Entrance nsible: Brian Van Sor on: Public Signage Room ID Sign - No Sign No room ID sign provided ces: CBC 11B-703.4.2 No sign provided with	rt Date: 5/16/20 enter h, ADA Coordinato R ded at permanent & 2010 ADAS 703. tactile informatio	17 Barr or emediation: room or space .3 n	ier #: 22B Dwg: 1 of 1 Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution:	4/20/2017 Repo Capitola Community C Main Entrance nsible: Brian Van Sor on: Public Signage Room ID Sign - No Sign No room ID sign provide ces: CBC 11B-703.4.2 No sign provided with Provide room ID sign v	rt Date: 5/16/20 center n, ADA Coordinato R ded at permanent & 2010 ADAS 703. tactile informatio with tactile inform	17 Barr or emediation: room or space .3 n ation at wall a	ier #: 22B Dwg: 1 of 1 Required ce	r
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas	4/20/2017 Repo Capitola Community C Main Entrance nsible: Brian Van Sor on: Public Signage Room ID Sign - No Sign No room ID sign provide ces: CBC 11B-703.4.2 No sign provided with Provide room ID sign v :: 1	rt Date: 5/16/20 center h, ADA Coordinato R ded at permanent & 2010 ADAS 703. tactile informatio with tactile inform	17 Barr or emediation: room or space .3 n ation at wall a imate: \$270	ier #: 22B Dwg: 1 of 1 Required ce at latch side of doo	r 1 Necessary
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate:	4/20/2017 Repo Capitola Community C Main Entrance nsible: Brian Van Sor on: Public Signage Room ID Sign - No Sign No room ID sign provide ces: CBC 11B-703.4.2 No sign provided with Provide room ID sign v :: 1 Quantity: -121.96010928601	rt Date: 5/16/20 Center n, ADA Coordinato R ded at permanent & 2010 ADAS 703. tactile informatio with tactile inform EACH Cost Est Y Coordinate: 3	17 Barr or emediation: room or space 3 n ation at wall a imate: \$270 6.9701335765	ier #: 22B Dwg: 1 of 1 Required ce at latch side of doo 0.00 BSR: 54213 Z Coordina	r 1 Necessary te: 22.95703 12 EROVED
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate: Implementati	4/20/2017 Repo Capitola Community C Main Entrance nsible: Brian Van Sor on: Public Signage Room ID Sign - No Sign No room ID Sign provide ces: CBC 11B-703.4.2 No sign provided with Provide room ID sign v :: 1 Quantity: -121.96010928601 on: Priority	rt Date: 5/16/20 Center n, ADA Coordinato R ded at permanent & 2010 ADAS 703. tactile informatio with tactile inform EACH Cost Est Y Coordinate: 3 Phase	17 Barr or emediation: room or space 3 n ation at wall imate: \$270 6.970133576 Da	ier #: 22B Dwg: 1 of 1 Required :e at latch side of doo 0.00 BSR: 54213 Z Coordina te	r 1 Necessary te: 22.95703 PSROVED JOB COPY Status Open Status Op



Field Date:	4/20/2017 Report Date: 5/16/20	17 Barrier #:	22C	- 10 - 10 - 10
Facility:	Capitola Community Center			
Location:	Main Entrance			
Official Respo	nsible: Brian Van Son, ADA Coordinato	r		
Facility Functi	on: Public	Dwg	: 1 of 1	1
Barrier Area:	Doors or Gates R	emediation: Req	uired	
Barrier Type:	Door Closer - Exterior Adjustment			
Barrier Description:	Door opening force exceeds 5 lbf			
Code Referen	ces: CBC 11B-404.2.9			
As Built Description:	11 lbf			
Proposed Solution:	Replace or adjust existing closer			
As-Built Meas	Quantity: EACH Cost Est	imate: \$486.00	BSR: 1	Necessary
X Coordinate:	-121.96010928601 Y Coordinate: 3	6.9701335765421	3 Z Coordinate	: 22.95703125
Implementati	on: Priority 2 Phase	Date		Status Open
Notes: If the open	door closer cannot be adjusted to consis ng device	tently operate at	5 lbf or less, insta	all an automatic door
Field Date:	4/20/2017 Report Date: 5/16/20	17 Barrier #:	22D	- 6
Field Date: Facility:	4/20/2017 Report Date: 5/16/20 Capitola Community Center	17 Barrier #	22D	
Field Date: Facility: Location:	4/20/2017 Report Date: 5/16/20 Capitola Community Center Main Entrance	17 Barrier #	22D	
Field Date: Facility: Location: Official Respo	4/20/2017 Report Date: 5/16/20 Capitola Community Center Main Entrance nsible: Brian Van Son, ADA Coordinate	17 Barrier #:	22D	
Field Date: Facility: Location: Official Respo Facility Functi	4/20/2017 Report Date: 5/16/20 Capitola Community Center Main Entrance nsible: Brian Van Son, ADA Coordinato on: Public	17 Barrier #: 	22D	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area:	4/20/2017 Report Date: 5/16/20 Capitola Community Center Main Entrance nsible: Brian Van Son, ADA Coordinato on: Public Doors or Gates R	17 Barrier # r emediation: Req	22D	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type:	4/20/2017 Report Date: 5/16/20 Capitola Community Center Main Entrance nsible: Brian Van Son, ADA Coordinato on: Public Doors or Gates R Door Closer - Exterior Sweep	17 Barrier #: r emediation: Req	22D : 1 of 1 uired	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description:	4/20/2017 Report Date: 5/16/20 Capitola Community Center Main Entrance nsible: Brian Van Son, ADA Coordinato on: Public Doors or Gates R Door Closer - Exterior Sweep Door closer lacks min. 5 second sweep p	17 Barrier #: or Dwg emediation: Req period/back check	22D : 1 of 1 uired	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen	4/20/2017 Report Date: 5/16/20 Capitola Community Center Main Entrance nsible: Brian Van Son, ADA Coordinato on: Public Doors or Gates R Door Closer - Exterior Sweep Door closer lacks min. 5 second sweep p ces: CBC 11B-404.2.8.1 & 2010 ADAS 40	17 Barrier # r emediation: Req period/back check 14.2.8.1	22D : 1 of 1 uired	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description:	4/20/2017 Report Date: 5/16/20 Capitola Community Center Main Entrance Main Entrance Image: Constant of the second s	17 Barrier #: or Dwg emediation: Req beriod/back check	22D : 1 of 1 uired	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution:	4/20/2017 Report Date: 5/16/20 Capitola Community Center Main Entrance Main Entrance Brian Van Son, ADA Coordinato nsible: Brian Van Son, ADA Coordinato Doors or Gates R Door Closer - Exterior Sweep Door closer lacks min. 5 second sweep p ces: CBC 11B-404.2.8.1 & 2010 ADAS 40 2 second sweep Replace or adjust existing closer	17 Barrier #: or Dwg emediation: Req beriod/back check	22D : 1 of 1 uired	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas	4/20/2017 Report Date: 5/16/20 Capitola Community Center Main Entrance Main Entrance Image: Constant of the second s	17 Barrier #: or Dwg emediation: Req beriod/back check 14.2.8.1 imate: \$0.00	22D : 1 of 1 uired BSR: 2	Recommende
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate:	4/20/2017 Report Date: 5/16/20 Capitola Community Center Main Entrance Main Entrance Image: Construction of the second seco	17 Barrier #: pr Dwg emediation: Req period/back check 04.2.8.1 imate: \$0.00 6.9701335765421	22D : 1 of 1 uired BSR: 2 3 Z Coordinate	Recommende
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate:	4/20/2017 Report Date: 5/16/20 Capitola Community Center Main Entrance Main Entrance Brian Van Son, ADA Coordinate nsible: Brian Van Son, ADA Coordinate Doors or Gates R Door Closer - Exterior Sweep R Door closer lacks min. 5 second sweep Replace or adjust existing closer Replace or adjust existing closer Quantity: EACH Cost Est -121.96010928601 Y Coordinate: Son: Priority 2	17 Barrier #: or emediation: Req beriod/back check 04.2.8.1 imate: \$0.00 6.9701335765421 Date	22D : 1 of 1 uired BSR: 21 3 Z Coordinate	Recommende



Field Date:	4/20/2017 Report Date: 5/16/2017 Barr	ier #: 22E
Facility:	Capitola Community Center	
Location:	Main Entrance	
Official Respo	nsible: Brian Van Son, ADA Coordinator	
Facility Functi	on: Public	Dwg: 1 of 1
Barrier Area:	Signage Remediation:	Required
Barrier Type:	Tactile Exit Sign - Exit	
Barrier Description:	Ground floor doors that exit to exterior not provided	with signs stating "EXIT"
Code Referen	ces: CBC 11B-216.4.1 & 11B-703	
As Built Description:	No tactile sign provided where required	
Proposed Solution:	Provide compliant sign at exit side of door	
As-Built Meas	: 1 Quantity: EACH Cost Estimate: \$270	D.00 BSR: 1 Necessary
X Coordinate:	-121.96010928601 Y Coordinate: 36.970133576	54213 Z Coordinate: 22.95703125
Implementati	on: Priority 4 Phase Da	ate Status Open
Notes:		
Field Date:	4/20/2017 Report Date: 5/16/2017 Barr	ier #: 22F
Field Date: Facility:	4/20/2017 Report Date: 5/16/2017 Barr Capitola Community Center	ier #: 22F
Field Date: Facility: Location:	4/20/2017Report Date:5/16/2017BarrCapitola Community CenterMain Entrance	ier #: 22F
Field Date: Facility: Location: Official Respo	4/20/2017 Report Date: 5/16/2017 Barr Capitola Community Center Main Entrance Main Entrance Brian Van Son, ADA Coordinator	ier #: 22F
Field Date: Facility: Location: Official Respo Facility Functi	4/20/2017 Report Date: 5/16/2017 Barr Capitola Community Center Main Entrance Main Entrance Strian Van Son, ADA Coordinator on: Public	ier #: 22F
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area:	4/20/2017Report Date:5/16/2017BarrCapitola Community CenterMain Entrancensible:Brian Van Son, ADA Coordinatoron:PublicDoors or GatesRemediation:	ier #: 22F Dwg: 1 of 1 Required
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type:	4/20/2017 Report Date: 5/16/2017 Barr Capitola Community Center Main Entrance Second S	ier #: 22F Dwg: 1 of 1 Required
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description:	4/20/2017 Report Date: 5/16/2017 Barr Capitola Community Center Main Entrance Image: Community Center Image: Community Center Main Entrance Image: Community Center Image: Community Center Image: Community Center Image: Community Center Image: Main Entrance Image: Community Center Image: Community Center Image: Community Center Image: Community Center Image: Main Entrance Image: Community Center Image: Community Center Image: Community Center Image: Community Center Image: Operation Community Center Image: Community Center Image: Community Center Image: Community Center Image: Operation Community Center Image: Community Center Image: Community Center Image: Community Center Image: Operation Community Center Image: Community Center Image: Community Center Image: Community Center Image: Operation Community Center Image: Community Center Image: Community Center Image: Community Center Image: Operation Community Center Image: Community Center Image: Community Center Image: Community Center Image: Operation Community Center Image: Community Center Image: Community Center Image: Community Center	ier #: 22F Dwg: 1 of 1 Required
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Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description:	4/20/2017 Report Date: 5/16/2017 Barr Capitola Community Center Main Entrance Image: Community Center Image: Community Center Main Entrance Image: Community Center Image: Community Center Image: Community Center Image: Community Center Image: Main Entrance Image: Community Center Image: Community Center Image: Community Center Image: Community Center Image: Main Entrance Image: Community Center	ier #: 22F Dwg: 1 of 1 Required
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Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas	4/20/2017 Report Date: 5/16/2017 Barr Capitola Community Center Main Entrance Image: Community Center Main Entrance Image: Community Center Image: Community Center Insible: Brian Van Son, ADA Coordinator Image: Community Center Insible: Brian Van Son, ADA Coordinator Image: Community Center Insible: Brian Van Son, ADA Coordinator Image: Community Center Image: Optimized Stresson Remediation: Image: Community Center Image: Optimized Stresson Remediation: Image: Community Center Image: Optimized Stresson Remediation: Image: Community Center Image: CBC 11B-302.2 Image: Community Center Image: Community Center Image: CBC 11B-302.2 Image: Community Center Image: Community Center Image: CBC 11B-302.2 Image: Community Center Image: Community Center Image: Community Center Image: CBC 11B-302.2 Image: Community Center Image: Community Center Image: Center Image: Center Image: CBC 11B-302.2 Image: Center Image: Center Image: Center Image: Center Image: CBC 11B-302.2 Image: Center Image: Center<	ier #: 22F Dwg: 1 of 1 Required
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Field Date:	4/20/2017 Repo	rt Date: 5/16/2017	Barrier #: 2	3A 🕢 🕥
Facility:	Capitola Community C	enter		
Location:	Lobby			
Official Respo	nsible: Brian Van Sor	n, ADA Coordinator		
Facility Functi	on: Public		Dwg: 1	of 1
Barrier Area:	Signage	Rem	ediation: Require	d
Barrier Type:	Lobby Info Sign			
Barrier Description:	No lobby informationa	al sign with location o	f accessible elemei	nts provided on floor or facility
Code Referen	ces: CBC 11B-216.8 an	d 703.5		
As Built Description:	Sign not provided to ir	ndicate location of acc	cessible restrooms,	drinking fountains, etc.
Proposed Solution:	Provide lobby informa	tional sign		
As-Built Meas	: 1 Quantity:	EACH Cost Estima	te: \$270.00	BSR: 1 Necessary
X Coordinate:	N/A	Y Coordinate: N/A		Z Coordinate: N/A
Implementati	on: Priority 4	Phase	Date	Status Open
Notes:				
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Field Date:	4/20/2017 Repo	rt Date: 5/16/2017	Barrier #: 2	3B
Field Date: Facility:	4/20/2017 Repo Capitola Community C	rt Date: 5/16/2017 enter	Barrier #: 2	3B
Field Date: Facility: Location:	4/20/2017 Repo Capitola Community C Lobby	rt Date: 5/16/2017 enter	Barrier #: 2	3B
Field Date: Facility: Location: Official Respo	4/20/2017 Repo Capitola Community C Lobby nsible: Brian Van Sor	rt Date: 5/16/2017 enter h, ADA Coordinator	Barrier #: 2	3B
Field Date: Facility: Location: Official Respo Facility Functi	4/20/2017 Repo Capitola Community C Lobby nsible: Brian Van Sor on: Public	rt Date: 5/16/2017 enter h, ADA Coordinator	Barrier #: 2 Dwg: 1	3B of 1
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area:	4/20/2017 Repo Capitola Community C Lobby nsible: Brian Van Sor on: Public Counters and Tables	rt Date: 5/16/2017 enter n, ADA Coordinator Reme	Barrier #: 2 Dwg: 1 ediation: Require	3B of 1 d
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type:	4/20/2017 Repo Capitola Community C Lobby nsible: Brian Van Sor on: Public Counters and Tables Table - Knee Clearance	rt Date: 5/16/2017 enter h, ADA Coordinator Remo	Barrier #: 2 Dwg: 1 ediation: Require	3B of 1 d
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description:	4/20/2017 Repo Capitola Community C Lobby nsible: Brian Van Sor on: Public Counters and Tables Table - Knee Clearance Knee clearance not mi	rt Date: 5/16/2017 enter n, ADA Coordinator Reme e n. 27" high, 19" deep	Barrier #: 2 Dwg: 1 ediation: Require or 30" wide	3B of 1 d
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen	4/20/2017 Repo Capitola Community C Lobby nsible: Brian Van Sor on: Public Counters and Tables Table - Knee Clearance Knee clearance not mi ces: CBC 11B-306.3 an	rt Date: 5/16/2017 enter n, ADA Coordinator Remo e n. 27" high, 19" deep nd 2010 ADAS 306.3	Barrier #: 2 Dwg: 1 ediation: Require or 30" wide	3B of 1 d
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description:	4/20/2017 Report Capitola Community C Lobby nsible: Brian Van Sort on: Public Counters and Tables Table - Knee Clearance Knee clearance not mit ces: CBC 11B-306.3 and 26-1/2" high knee clearance	rt Date: 5/16/2017 enter n, ADA Coordinator Reme e n. 27" high, 19" deep nd 2010 ADAS 306.3 arance	Barrier #: 2 Dwg: 1 ediation: Require or 30" wide	3B of 1 d
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution:	4/20/2017RepoCapitola Community CLobbynsible:Brian Van Soron:PublicCounters and TablesTable - Knee ClearanceKnee clearance not mices:CBC 11B-306.3 and26-1/2" high knee clearanceProvide min. 1 accessi	rt Date: 5/16/2017 enter h, ADA Coordinator Remains n. 27" high, 19" deep ad 2010 ADAS 306.3 arance ble table and 5% over	Barrier #: 2 Dwg: 1 ediation: Require or 30" wide all. Avoid pedestal	3B of 1 d base tables.
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas	4/20/2017 Repo Capitola Community C Lobby nsible: Brian Van Sor on: Public Counters and Tables Table - Knee Clearance Knee clearance not mi ces: CBC 11B-306.3 an 26-1/2" high knee clear Provide min. 1 accessi :: 1 Quantity:	rt Date: 5/16/2017 enter h, ADA Coordinator Reme e n. 27" high, 19" deep nd 2010 ADAS 306.3 arance ble table and 5% over	Barrier #: 2 Dwg: 1 ediation: Require or 30" wide all. Avoid pedestal te: \$0.00	3B of 1 d base tables. BSR: 3 Hindrance
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate:	4/20/2017 Repo Capitola Community C Lobby nsible: Brian Van Sor on: Public Counters and Tables Table - Knee Clearance Knee clearance not mi ces: CBC 11B-306.3 and 26-1/2" high knee clearance Provide min. 1 accessi :: 1 Quantity: N/A	rt Date: 5/16/2017 enter n, ADA Coordinator Remu e n. 27" high, 19" deep nd 2010 ADAS 306.3 irance ble table and 5% over EACH Cost Estima Y Coordinate: N/A	Barrier #: 2 Dwg: 1 ediation: Require or 30" wide all. Avoid pedestal te: \$0.00	3B of 1 d base tables. BSR: 3 Hindrance
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate: Implementati	4/20/2017 Repo Capitola Community C Lobby nsible: Brian Van Sor on: Public Counters and Tables Table - Knee Clearance Knee clearance not mi ces: CBC 11B-306.3 and 26-1/2" high knee clearance Provide min. 1 accessi :: 1 Quantity: N/A on: Priority	rt Date: 5/16/2017 enter h, ADA Coordinator Remo e n. 27" high, 19" deep d 2010 ADAS 306.3 ble table and 5% over EACH Cost Estima Y Coordinate: N/A Phase	Barrier #: 2 Dwg: 1 ediation: Require or 30" wide all. Avoid pedestal te: \$0.00	3B of 1 d base tables. BSR: 3 Hindrance Coordinate: N/A APPROVED JOB COPY Status OCCUPY



Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 23C
Facility: Capitola Community Center
Location: Lobby
Official Responsible: Brian Van Son, ADA Coordinator
Facility Function: Public Dwg: 1 of 1
Barrier Area: Counters and Tables Remediation: Required
Barrier Type: Counter - Surface Height
Barrier No section at least 3 feet long between 28" and 34" provided at existing counter Description:
Code References: CBC 11B-902.3 and 2010 ADAS 902.3
As Built 45-1/2" high service counter Description:
Proposed Provide min. 3 ft long section of counter at max. 34" high Solution:
As-Built Meas: 1 Quantity: EACH Cost Estimate: \$945.00 BSR: 3 Hindrance
X Coordinate: N/A Y Coordinate: N/A Z Coordinate: N/A
Implementation: Priority 2 Phase Date Date Status Open
Notes:
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 23D
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 23D Facility: Capitola Community Center Capitola Community Center Capitola Community Center Capitola Community Center
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 23D Facility: Capitola Community Center
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 23D Facility: Capitola Community Center
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 23D Facility: Capitola Community Center Location: Lobby Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: 1 of 1
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 23D Facility: Capitola Community Center Location: Lobby Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: 1 of 1 Barrier Area: Drinking Fountains Remediation:
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 23D Facility: Capitola Community Center Location: Lobby Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Barrier Area: Drinking Fountains Barrier Type: Pedestrian Protection - Width
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 23D Facility: Capitola Community Center Location: Lobby Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: 1 of 1 Barrier Area: Drinking Fountains Barrier Type: Pedestrian Protection - Width Barrier Alcove or wing walls not min. 32" wide and min. 18" deep
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 23D Facility: Capitola Community Center
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 23D Facility: Capitola Community Center Location: Lobby Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: 1 of 1 Barrier Area: Drinking Fountains Remediation: Required Barrier Type: Pedestrian Protection - Width Barrier Type: Pedestrian Protection - Width Barrier Code References: CBC 11B-602.9 and 2010 ADAS 307.2 As Built 31" wide alcove Description:
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 23D Facility: Capitola Community Center Location: Lobby Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Barrier Area: Drinking Fountains Barrier Type: Pedestrian Protection - Width Barrier Alcove or wing walls not min. 32" wide and min. 18" deep Description: Code References: CBC 11B-602.9 and 2010 ADAS 307.2 As Built 31" wide alcove Peroposed Alter existing alcove to comply
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 23D Facility: Capitola Community Center Location: Lobby Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Drinking Fountains Barrier Area: Drinking Fountains Barrier Type: Pedestrian Protection - Width Barrier Alcove or wing walls not min. 32" wide and min. 18" deep Description: Code References: CBC 11B-602.9 and 2010 ADAS 307.2 As Built 31" wide alcove Proposed Solution: Alter existing alcove to comply Solution: As-Built Meas: 4 Quantity: SF Cost Estimate: \$1,080.00 BSR: 1 Necessary (2)
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 23D Facility: Capitola Community Center Location: Lobby Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: 1 of 1 Barrier Area: Drinking Fountains Remediation: Required Barrier Type: Pedestrian Protection - Width Barrier Type: Pedestrian Protection - Width Barrier Alcove or wing walls not min. 32" wide and min. 18" deep Description: Code References: CBC 11B-602.9 and 2010 ADAS 307.2 As Built 31" wide alcove Description: Proposed Alter existing alcove to comply Solution: As-Built Meas: 4 Quantity: SF Cost Estimate: \$1,080.00 BSR: 1 Necessary X Coordinate: N/A Y Coordinate: N/A APPROVED
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 23D Facility: Capitola Community Center Location: Lobby Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Barrier Area: Drinking Fountains Barrier Type: Pedestrian Protection - Width Barrier Type: Pedestrian Protection - Width Barrier Type: Pedestrian Protection - Width Barrier Alcove or wing walls not min. 32" wide and min. 18" deep Description: Code References: CBC 11B-602.9 and 2010 ADAS 307.2 As Built 31" wide alcove Proposed Alter existing alcove to comply Solution: Alter existing alcove to comply Solution: X Coordinate: N/A Y Coordinate: N/A Z Coordinate: N/A Phase Date Status Open.



Field Date: 4/20/2017 Repo	rt Date: 5/16/2017	Barrier #: 23E	
Facility: Capitola Community C	enter		The
Location: Lobby			- 12
Official Responsible: Brian Van Sor	n, ADA Coordinator		
Facility Function: Public		Dwg: 1 of 1	AF
Barrier Area: Drinking Fountains	Remedi	ation: Required	
Barrier Type: Knee Clearance			
Barrier Knee clearance under Description:	fountain not min. 27" hi	gh	
Code References: CBC 11B-602.2 ar	nd 2010 ADAS 306.3		
As Built 26-1/4" high knee clear Description:	arance and trash recepta	cle blocks knee clearance	e
Proposed Replace drinking fount Solution:	tain with accessible unit	or remount existing	
As-Built Meas: 1 Quantity:	EACH Cost Estimate:	\$810.00 BSR:	1 Necessary
X Coordinate: N/A	Y Coordinate: N/A	Z Coordir	nate: N/A
Implementation: Priority 3	Phase	Date	Status Open
Notes:			
Field Date: 4/20/2017 Repo	rt Date: 5/16/2017	Barrier #: 23F	
Field Date:4/20/2017RepoFacility:Capitola Community C	rt Date: 5/16/2017	Barrier #: 23F	
Field Date:4/20/2017RepoFacility:Capitola Community CLocation:Lobby	rt Date: 5/16/2017 Tenter	Barrier #: 23F	
Field Date:4/20/2017ReportFacility:Capitola Community CLocation:LobbyOfficial Responsible:Brian Van Sort	rt Date: 5/16/2017 Tenter h, ADA Coordinator	Barrier #: 23F	
Field Date:4/20/2017ReportFacility:Capitola Community CLocation:LobbyOfficial Responsible:Brian Van SonFacility Function:Public	rt Date: 5/16/2017 Tenter n, ADA Coordinator	Barrier #: 23F	
Field Date:4/20/2017ReportFacility:Capitola Community CLocation:LobbyOfficial Responsible:Brian Van SortFacility Function:PublicBarrier Area:Controls and Mechanity	rt Date: 5/16/2017 Fenter n, ADA Coordinator sms Remedi	Barrier #: 23F	
Field Date:4/20/2017ReportFacility:Capitola Community CLocation:LobbyOfficial Responsible:Brian Van SortFacility Function:PublicBarrier Area:Controls and MechanitBarrier Type:Electrical Outlets - High	rt Date: 5/16/2017 Center h, ADA Coordinator sms Remedi h/Low Reach	Barrier #: 23F Dwg: 1 of 1 ation: Required	
Field Date:4/20/2017ReportFacility:Capitola Community CLocation:LobbyOfficial Responsible:Brian Van SortFacility Function:PublicBarrier Area:Controls and MechaniBarrier Type:Electrical Outlets - HigBarrierUse of outlet requiresDescription:Image: Control section	rt Date: 5/16/2017 Fenter h, ADA Coordinator sms Remedi h/Low Reach low reach of less than 1	Barrier #: 23F Dwg: 1 of 1 ation: Required 5" above floor or higher	than 48"
Field Date:4/20/2017ReportFacility:Capitola Community CLocation:LobbyOfficial Responsible:Brian Van SortFacility Function:PublicBarrier Area:Controls and MechanitBarrier Type:Electrical Outlets - HigBarrierUse of outlet requiresDescription:CBC 11B-308.1.2,	rt Date: 5/16/2017 Fenter h, ADA Coordinator sms Remedi h/Low Reach low reach of less than 1 11B-308.2.1 & 2010 AD/	Barrier #: 23F Dwg: 1 of 1 ation: Required 5" above floor or higher	than 48"
Field Date:4/20/2017ReportFacility:Capitola Community CLocation:LobbyOfficial Responsible:Brian Van SortFacility Function:PublicBarrier Area:Controls and MechaniBarrier Type:Electrical Outlets - HigBarrierUse of outlet requiresDescription:CBC 11B-308.1.2,As BuiltOutlet 12" OC in corrie	rt Date: 5/16/2017 Fenter h, ADA Coordinator sms Remedi h/Low Reach low reach of less than 19 11B-308.2.1 & 2010 AD/ dor	Barrier #: 23F Dwg: 1 of 1 ation: Required 5" above floor or higher	than 48"
Field Date:4/20/2017ReportFacility:Capitola Community CLocation:LobbyOfficial Responsible:Brian Van SortFacility Function:PublicBarrier Area:Controls and MechanitBarrier Type:Electrical Outlets - HigBarrierUse of outlet requiresDescription:CBC 11B-308.1.2,As BuiltOutlet 12" OC in corridProposedRelocate outlets to are Solution:	rt Date: 5/16/2017 Fenter h, ADA Coordinator sms Remedi h/Low Reach low reach of less than 15 11B-308.2.1 & 2010 AD/ dor ea with min. 15" low reac	Barrier #: 23F Dwg: 1 of 1 ation: Required 5" above floor or higher AS 308.2.2	than 48"
Field Date:4/20/2017ReportFacility:Capitola Community CLocation:LobbyOfficial Responsible:Brian Van SortFacility Function:PublicBarrier Area:Controls and MechaniBarrier Type:Electrical Outlets - HigBarrierUse of outlet requiresDescription:CBC 11B-308.1.2,As BuiltOutlet 12" OC in corrierProposedRelocate outlets to are Solution:As-Built Meas:2Quantity:	rt Date: 5/16/2017 Center n, ADA Coordinator sms Remedi h/Low Reach low reach of less than 19 11B-308.2.1 & 2010 AD/ dor ea with min. 15" low reac EACH Cost Estimate:	Barrier #: 23F Dwg: 1 of 1 ation: Required 5" above floor or higher AS 308.2.2 ch or max. 48" high reack	than 48"
Field Date:4/20/2017ReporFacility:Capitola Community CLocation:LobbyOfficial Responsible:Brian Van SorFacility Function:PublicBarrier Area:Controls and MechaniBarrier Type:Electrical Outlets - HigBarrierUse of outlet requiresDescription:CBC 11B-308.1.2,As BuiltOutlet 12" OC in corridDescription:Relocate outlets to areSolution:2Quantity:X Coordinate:N/AN/A	rt Date: 5/16/2017 Fenter h, ADA Coordinator sms Remedi h/Low Reach low reach of less than 19 11B-308.2.1 & 2010 AD/ dor ea with min. 15" low reac EACH Cost Estimate: Y Coordinate: N/A	Barrier #: 23F Dwg: 1 of 1 ation: Required 5" above floor or higher AS 308.2.2 ch or max. 48" high reach \$1,620.00 BSR: Z Coordir	than 48"
Field Date:4/20/2017ReporFacility:Capitola Community CLocation:LobbyOfficial Responsible:Brian Van SonFacility Function:PublicBarrier Area:Controls and MechaniBarrier Type:Electrical Outlets - HigBarrierUse of outlet requiresDescription:CBC 11B-308.1.2,As BuiltOutlet 12" OC in corrioProposedRelocate outlets to areSolution:2Quantity:X Coordinate:N/AImplementation:Priority2	rt Date: 5/16/2017 Fenter h, ADA Coordinator sms Remedia h/Low Reach low reach of less than 19 11B-308.2.1 & 2010 AD/ dor ea with min. 15" low reac EACH Cost Estimate: Y Coordinate: N/A Phase	Barrier #: 23F Dwg: 1 of 1 ation: Required 5" above floor or higher AS 308.2.2 ch or max. 48" high reach \$1,620.00 BSR: Z Coordir Date	than 48"



ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 24A
acility: Capitola Community Center
ocation: Kitchen
official Responsible: Brian Van Son, ADA Coordinator
acility Function: Public Dwg: 1 of 1
arrier Area: Signage Remediation: Required
arrier Type: Room ID Sign - No Sign
arrier No room ID sign provided at permanent room or space escription:
ode References: CBC 11B-703.4.2 & 2010 ADAS 703.3
s Built No sign provided escription:
roposed Provide room ID sign with tactile information at wall at latch side of door olution:
s-Built Meas: 1 Quantity: EACH Cost Estimate: \$270.00 BSR: 1 Necessary
Coordinate: N/A Y Coordinate: N/A Z Coordinate: N/A
nplementation: Priority 4 Phase Date Status Open
lotes:
ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 24B
ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 24B
ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 24B acility: Capitola Community Center ocation: Kitchen
ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 24B acility: Capitola Community Center ocation: Kitchen official Responsible: Brian Van Son, ADA Coordinator
ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 24B acility: Capitola Community Center ocation: Kitchen official Responsible: Brian Van Son, ADA Coordinator acility Function: Public Dwg: 1 of 1
ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 24B acility: Capitola Community Center ocation: Kitchen Official Responsible: Brian Van Son, ADA Coordinator acility Function: Public Dwg: 1 of 1 arrier Area: Doors or Gates Remediation: Required
ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 24B acility: Capitola Community Center ocation: Kitchen official Responsible: Brian Van Son, ADA Coordinator acility Function: Public Dwg: 1 of 1 arrier Area: Doors or Gates Remediation: Required arrier Type: Door Closer - Interior Automatic Device
ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 24B acility: Capitola Community Center ocation: Kitchen official Responsible: Brian Van Son, ADA Coordinator acility Function: Public Dwg: 1 of 1 arrier Area: Doors or Gates Remediation: Required arrier Type: Door Closer - Interior Automatic Device arrier rescription:
ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 24B acility: Capitola Community Center ocation: Kitchen official Responsible: Brian Van Son, ADA Coordinator acility Function: Public Doors or Gates Remediation: arrier Area: Doors or Gates Door Closer - Interior Automatic Device Arrier arrier code References: CBC 11B-404.2.9 & 2010 ADAS 404.2.9
ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 24B acility: Capitola Community Center bocation: Kitchen official Responsible: Brian Van Son, ADA Coordinator acility Function: Public Dwg: 1 of 1 arrier Area: Doors or Gates Remediation: Required arrier Type: Door Closer - Interior Automatic Device arrier rescription: Door opening force exceeds 5 lbf ode References: CBC 11B-404.2.9 & 2010 ADAS 404.2.9 s Built s Built s Built s Built s Built
ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 24B acility: Capitola Community Center ocation: Kitchen official Responsible: Brian Van Son, ADA Coordinator acility Function: Public Dwg: 1 of 1 arrier Area: Doors or Gates Remediation: Required arrier Type: Door Closer - Interior Automatic Device arrier gescription: Door opening force exceeds 5 lbf esscription: CBC 11B-404.2.9 & 2010 ADAS 404.2.9 s Built 9 lbf esscription: Provide automatic door opening device
ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 24B acility: Capitola Community Center ocation: Kitchen fficial Responsible: Brian Van Son, ADA Coordinator acility Function: Public Dwg: 1 of 1 arrier Area: Doors or Gates Remediation: Required arrier Type: Door Closer - Interior Automatic Device arrier escription: Door opening force exceeds 5 lbf oode References: CBC 11B-404.2.9 & 2010 ADAS 404.2.9 s Built escription: 9 lbf escription: 9 lbf escription: 1 Quantity: EACH Cost Estimate: \$5,400.00 BSR: 1 Necessary @
ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 24B acility: Capitola Community Center ocation: Kitchen fficial Responsible: Brian Van Son, ADA Coordinator acility Function: Public Dwg: 1 of 1 arrier Area: Doors or Gates Remediation: Required arrier Type: Door Closer - Interior Automatic Device arrier poor opening force exceeds 5 lbf ode References: CBC 11B-404.2.9 & 2010 ADAS 404.2.9 s Built rescription: roposed plof Provide automatic door opening device olution: s-Built Meas: 1 Quantity: EACH Cost Estimate: \$5,400.00 BSR: 1 Necessary Coordinate: N/A Y Coordinate: N/A Z Coordinate: N/A APPROVED
ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 24B acility: Capitola Community Center ocation: Kitchen Ifficial Responsible: Brian Van Son, ADA Coordinator acility Function: Public Dwg: 1 of 1 arrier Area: Doors or Gates Remediation: Required arrier Type: Door Closer - Interior Automatic Device arrier Door opening force exceeds 5 lbf escription: Door opening force exceeds 5 lbf s Built globe s Built Provide automatic door opening device olution: Provide automatic door opening device olution: s-Built Meas: 1 Quantity: EACH Cost Estimate: \$5,400.00 BSR: 1 Necessary Coordinate: N/A Y Coordinate: N/A Z Coordinate: N/A APPROVED plementation: Priority 2 Phase Date Status Open.



Field Date:	4/20/2017	Repor	t Date: 5	/16/2017	Barrier #:	24C	
Facility:	Capitola Com	munity Ce	enter				
Location:	Kitchen						
Official Respo	nsible: Brian	Van Son,	, ADA Coo	rdinator			
Facility Functi	on: Public				Dwg	: 1 of 1	
Barrier Area:	Doors or Gate	S		Remedia	tion: Req	uired	
Barrier Type:	Door Closer -	Interior S	weep				
Barrier Description:	Door closer la	cks min. S	5 second s	weep period/	oack check		
Code Referen	ces: CBC 11B-	404.2.8.1	& ADA/A	BA 404.2.8.1			
As Built Description:	2 second swee	ер					
Proposed Solution:	Provide auton	natic doo	r opening	device			
As-Built Meas	: 0 Q	uantity:	EACH C	Cost Estimate:	\$0.00	BS	R: 2 Recommended
X Coordinate:	N/A		Y Coordin	ate: N/A		Z Coord	dinate: N/A
Implementati	on: Priority	2	Phase		Date		Status Open
Notes:							
Field Date:	4/20/2017	Repor	t Date: 5	/16/2017	Barrier #:	24D	
Field Date: Facility:	4/20/2017 Capitola Comi	Repor	t Date: 5	/16/2017	Barrier #:	24D	
Field Date: Facility: Location:	4/20/2017 Capitola Comi Kitchen	Repor	t Date: 5 enter	/16/2017	Barrier #:	24D	
Field Date: Facility: Location: Official Respo	4/20/2017 Capitola Com Kitchen nsible: Brian	Repor munity Ce Van Son,	t Date: 5 enter , ADA Coo	/16/2017 rdinator	Barrier #:	24D	
Field Date: Facility: Location: Official Respo Facility Functi	4/20/2017 Capitola Comr Kitchen nsible: Brian on: Public	Repor munity Ce Van Son,	t Date: 5 enter , ADA Coo	/16/2017 rdinator	Barrier #:	24D	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area:	4/20/2017 Capitola Com Kitchen nsible: Brian on: Public Signage	Repor munity Ce	t Date: 5 enter , ADA Coo	/16/2017 rdinator Remedia	Barrier #: Dwg ation: Requ	24D	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type:	4/20/2017 Capitola Com Kitchen nsible: Brian on: Public Signage Tactile Exit Sig	Repor munity Ce Van Son, gn - Route	t Date: 5 enter , ADA Coo	/16/2017 rdinator	Barrier #: Dwg ation: Requ	24D	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description:	4/20/2017 Capitola Comr Kitchen nsible: Brian on: Public Signage Tactile Exit Sig Exit door to ex	Repor munity Ce Van Son, gn - Route	t Date: 5 enter , ADA Coo e ru exit end	/16/2017 rdinator Remedia	Barrier #: Dwg ation: Requ or room or p	24D : 1 of 1 uired	y lacks "EXIT ROUTE" sign
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen	4/20/2017 Capitola Com Kitchen nsible: Brian on: Public Signage Tactile Exit Sig Exit door to ex ces: CBC 11B-	Repor munity Ce Van Son, gn - Route xterior th 216.4.1 8	t Date: 5 enter , ADA Coo e ru exit end & 11B-703	/16/2017 rdinator Remedia	Barrier #: Dwg ation: Requ or room or p	24D : 1 of 1 uired	y lacks "EXIT ROUTE" sign
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description:	4/20/2017 Capitola Com Kitchen nsible: Brian on: Public Signage Tactile Exit Sig Exit door to ex ces: CBC 11B- No tactile sign	Repor munity Ce Van Son, gn - Route xterior the 216.4.1 8	t Date: 5 enter , ADA Coo e ru exit end & 11B-703 d where re	/16/2017 rdinator Remedia closure, interio	Barrier #: Dwg ation: Requ	24D : 1 of 1 uired	y lacks "EXIT ROUTE" sign
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution:	4/20/2017 Capitola Com Kitchen nsible: Brian on: Public Signage Tactile Exit Sig Exit door to ex ces: CBC 11B- No tactile sign Provide comp	Repor munity Ce Van Son, on - Route xterior the 216.4.1 & provideo liant sign	t Date: 5 enter , ADA Coo e ru exit end a 11B-703 d where re at exit sid	/16/2017 rdinator Remedia closure, interic equired le of door	Barrier #: Dwg ation: Requ	24D	y lacks "EXIT ROUTE" sign
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas	4/20/2017 Capitola Com Kitchen nsible: Brian on: Public Signage Tactile Exit Sig Exit door to ex ces: CBC 11B- No tactile sign Provide comp	Repor munity Ce Van Son, on - Route xterior the 216.4.1 8 on provideo liant sign quantity:	t Date: 5 enter , ADA Coo , ADA Coo e ru exit end a 11B-703 d where re at exit sid EACH C	/16/2017 rdinator Remedia closure, interio equired le of door Cost Estimate:	Barrier #: Dwg ation: Requ or room or p	24D : 1 of 1 uired bassagewa	y lacks "EXIT ROUTE" sign
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate:	4/20/2017 Capitola Com Kitchen nsible: Brian on: Public Signage Tactile Exit Sig Exit door to ex ces: CBC 11B- No tactile sign Provide comp	Repor munity Ce Van Son, r - Route xterior the 216.4.1 8 provideo liant sign uantity:	t Date: 5 enter , ADA Coo e ru exit end d uhere re at exit sid EACH C Y Coordin	/16/2017 rdinator Remedia closure, interio equired le of door Cost Estimate: ate: N/A	Barrier #: Dwg ation: Requ or room or p	24D : 1 of 1 uired bassagewa BS Z Coord	y lacks "EXIT ROUTE" sign R: 2 Recommende
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate: Implementati	4/20/2017 Capitola Com Kitchen nsible: Brian on: Public Signage Tactile Exit Sig Exit door to ex ces: CBC 11B- No tactile sign Provide comp : 1 0 N/A on: Priority	Repor munity Ce Van Son, van Son, r - Route kterior th 216.4.1 8 provideo liant sign uantity:	t Date: 5 enter , ADA Coo e ru exit end & 11B-703 d where re at exit sid EACH C Y Coordin Phase	/16/2017 rdinator Remedia closure, interio equired le of door Cost Estimate: ate: N/A	Barrier #: Dwg ation: Requ or room or p \$270.00 Date	24D : 1 of 1 uired bassagewa BS Z Coord	y lacks "EXIT ROUTE" sign



Field Date: 4/20/2017 Repo	rt Date: 5/16/2017	Barrier #: 24E	
Facility: Capitola Community C	enter		
Location: Kitchen			
Official Responsible: Brian Van Son	, ADA Coordinator		
Facility Function: Public		Dwg: 1 of 1	
Barrier Area: Doors or Gates	Remediat	tion: Required	
Barrier Type: Maneuvering Clearance	e - Front/Pull 60"		
Barrier Door/Gate at push side Description:	e lacks min. 18" strike edg	e clearance at push s	ide
Code References: CBC Figure 11B-40)4.2.4.1		
As Built 14-1/4" strike edge cle Description:	arance at pull side of doo	r	
Proposed Provide automatic doc Solution: clearance is not provid	r opening device to acces ed	sible door where req	uired maneuvering
As-Built Meas: 0 Quantity:	EACH Cost Estimate:	\$0.00 BSI	R: 1 Necessary
X Coordinate: N/A	Y Coordinate: N/A	Z Coord	inate: N/A
Implementation: Priority 2	Phase	Date	Status Open
Notes:			
J			
Field Date: 4/20/2017 Repo	rt Date: 5/16/2017	Barrier #: 24F	* CANGO *
Field Date: 4/20/2017 Repo Facility: Capitola Community C	rt Date: 5/16/2017 enter	Barrier #: 24F	
Field Date: 4/20/2017 Repo Facility: Capitola Community C Location: Kitchen	rt Date: 5/16/2017 enter	Barrier #: 24F	RCASE OF THE POLL & PIN
Field Date: 4/20/2017 Repo Facility: Capitola Community C Location: Kitchen Official Responsible: Brian Van Son	rt Date: 5/16/2017 enter , ADA Coordinator	Barrier #: 24F	RCASE OF PRE POLL & PIN
Field Date: 4/20/2017 Repo Facility: Capitola Community C Location: Kitchen Official Responsible: Brian Van Son Facility Function: Public	rt Date: 5/16/2017 enter , ADA Coordinator	Barrier #: 24F	IC CASE OF THE INC CASE OF THE
Field Date:4/20/2017RepoFacility:Capitola Community CLocation:KitchenOfficial Responsible:Brian Van SonFacility Function:PublicBarrier Area:Controls and Mechanis	rt Date: 5/16/2017 enter , ADA Coordinator sms Remediat	Barrier #: 24F Dwg: 1 of 1 tion: Required	
Field Date:4/20/2017RepoFacility:Capitola Community CLocation:KitchenOfficial Responsible:Brian Van SonFacility Function:PublicBarrier Area:Controls and MechanisBarrier Type:Actuator/Control - Side	rt Date: 5/16/2017 enter , ADA Coordinator sms Remediat e Reach High (Safe Harbor	Barrier #: 24F Dwg: 1 of 1 tion: Required	
Field Date:4/20/2017RepoFacility:Capitola Community CLocation:KitchenOfficial Responsible:Brian Van SonFacility Function:PublicBarrier Area:Controls and MechanisBarrier Type:Actuator/Control - SideBarrierControl or mechanismDescription:	rt Date: 5/16/2017 enter , ADA Coordinator sms Remediat e Reach High (Safe Harbor at max. 54" high	Barrier #: 24F Dwg: 1 of 1 tion: Required	
Field Date:4/20/2017RepoFacility:Capitola Community CLocation:KitchenOfficial Responsible:Brian Van SonFacility Function:PublicBarrier Area:Controls and MechanisBarrier Type:Actuator/Control - SideBarrierControl or mechanismDescription:ADA Title II, Subpare	rt Date: 5/16/2017 enter , ADA Coordinator sms Remediat e Reach High (Safe Harbor at max. 54" high art D, § 35.150 Existing fac	Barrier #: 24F Dwg: 1 of 1 tion: Required	i)
Field Date:4/20/2017RepoFacility:Capitola Community CLocation:KitchenOfficial Responsible:Brian Van SonFacility Function:PublicBarrier Area:Controls and MechanisBarrier Type:Actuator/Control - SideBarrierControl or mechanismDescription:Control or mechanismAs BuiltFire suppression control	rt Date: 5/16/2017 enter , ADA Coordinator sms Remediat e Reach High (Safe Harbor at max. 54" high art D, § 35.150 Existing fac ol 53" high on wall adjace	Barrier #: 24F Dwg: 1 of 1 tion: Required) cilities § 35.150(b)(2)(nt to refrigerators	i)
Field Date:4/20/2017RepoFacility:Capitola Community CLocation:KitchenOfficial Responsible:Brian Van SonFacility Function:PublicBarrier Area:Controls and MechanisBarrier Type:Actuator/Control - SideBarrierControl or mechanismDescription:Control or mechanismAs BuiltFire suppression contrProposedNo remediation requir harbor	rt Date: 5/16/2017 enter , ADA Coordinator sms Remediat e Reach High (Safe Harbor at max. 54" high art D, § 35.150 Existing fac ol 53" high on wall adjace ed. Control or mechanism	Barrier #: 24F Dwg: 1 of 1 tion: Required) cilities § 35.150(b)(2)(nt to refrigerators	i)
Field Date:4/20/2017RepoFacility:Capitola Community CLocation:KitchenOfficial Responsible:Brian Van SonFacility Function:PublicBarrier Area:Controls and MechanisBarrier Type:Actuator/Control - SideBarrierControl or mechanismDescription:Control or mechanismCode References:ADA Title II, SubparaAs BuiltFire suppression controlProposedNo remediation requirSolution:1Quantity:	rt Date: 5/16/2017 enter , ADA Coordinator sms Remediat e Reach High (Safe Harbor at max. 54" high art D, § 35.150 Existing fac ol 53" high on wall adjace ed. Control or mechanism EACH Cost Estimate:	Barrier #: 24F Dwg: 1 of 1 tion: Required cilities § 35.150(b)(2)(nt to refrigerators n complied with prior \$0.00 BSI	i) code and is granted safe R: 3 Hindrance
Field Date:4/20/2017RepoFacility:Capitola Community CLocation:KitchenOfficial Responsible:Brian Van SonFacility Function:PublicBarrier Area:Controls and MechanisBarrier Type:Actuator/Control - SideBarrierControl or mechanismDescription:Control or mechanismAs BuiltFire suppression contrProposedNo remediation requirSolution:1Quantity:X Coordinate:N/A	rt Date: 5/16/2017 enter , ADA Coordinator ams Remediat e Reach High (Safe Harbor at max. 54" high art D, § 35.150 Existing fac ol 53" high on wall adjace ed. Control or mechanism EACH Cost Estimate: Y Coordinate: N/A	Barrier #: 24F Dwg: 1 of 1 tion: Required tion: Required tilities § 35.150(b)(2)(nt to refrigerators n complied with prior \$0.00 BSI Z Coord	i) code and is granted safe R: [3 Hindrance) inate: N/A APPROVED
Field Date:4/20/2017RepoFacility:Capitola Community CLocation:KitchenOfficial Responsible:Brian Van SonFacility Function:PublicBarrier Area:Controls and MechanisBarrier Type:Actuator/Control - SideBarrierControl or mechanismDescription:Control or mechanismCode References:ADA Title II, SubparaAs BuiltFire suppression controlProposedNo remediation requireSolution:1Quantity:X Coordinate:N/AImplementation:Priority2	rt Date: 5/16/2017 enter , ADA Coordinator sms Remediat e Reach High (Safe Harbor at max. 54" high art D, § 35.150 Existing fac ol 53" high on wall adjace ed. Control or mechanism EACH Cost Estimate: Y Coordinate: N/A Phase	Barrier #: 24F Dwg: 1 of 1 tion: Required tion: Required tion: Required tilities § 35.150(b)(2)(nt to refrigerators n complied with prior \$0.00 BSI Z Coord Date	i) code and is granted safe R: 3 Hindrance inate: N/A APPROVED JOB COPY Status Open Status Open Status Open Status Open Status Open Status Open



Field Date:	4/20/2017	Repor	t Date: 5/16	/2017	Barrier #:	24G	
Facility:	Capitola Comm	nunity Ce	enter				
Location:	Kitchen						
Official Respo	nsible: Brian	Van Son,	ADA Coordin	ator			
Facility Functi	on: Public				Dwg:	1 of 1	
Barrier Area:	Controls and N	1echanis	ms	Remedia	tion: Requi	ired	
Barrier Type:	Actuator/Cont	rol - Fist	Operable				
Barrier Description:	Control or mec	:hanism i	not usable wi	th a closed	fist		
Code Referen	ces: CBC 11B-3	05.3 and	d 2010 ADAS 3	305.3			
As Built Description:	Refrigerator ha	andles re	cessed and no	ot accessib	e		
Proposed Solution:	Replace operat	ing cont	rols				
As-Built Meas	: 3 Qu	antity:	EACH Cost	Estimate:	\$2,430.00	BSR	: 3 Hindrance
X Coordinate:	N/A		Y Coordinate:	N/A		Z Coordi	nate: N/A
Implementati	on: Priority	2	Phase		Date		Status Open
Notes:							
J							
Field Date:	4/20/2017	Repor	t Date: 5/16	/2017	Barrier #:	24H	
Field Date: Facility:	4/20/2017 Capitola Comm	Repor	t Date: 5/16	/2017	Barrier #:	24H	
Field Date: Facility: Location:	4/20/2017 Capitola Comm Kitchen	Repor	t Date: 5/16	/2017	Barrier #:	24H	
Field Date: Facility: Location: Official Respo	4/20/2017 Capitola Comm Kitchen nsible: Brian	Repor nunity Ce Van Son,	t Date: 5/16 enter ADA Coordin	/2017 hator	Barrier #:	24H	
Field Date: Facility: Location: Official Respo Facility Functi	4/20/2017 Capitola Comm Kitchen nsible: Brian	Repornunity Ce	t Date: 5/16 enter ADA Coordin	/2017 nator	Barrier #:	24H	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area:	4/20/2017 Capitola Comm Kitchen nsible: Brian on: Public Kitchens	Repor nunity Ce Van Son,	t Date: 5/16 enter ADA Coordin	/2017 hator Remedia	Barrier #: Dwg: tion: Requi	24H 1 of 1 ired	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type:	4/20/2017 Capitola Comm Kitchen nsible: Brian on: Public Kitchens Carpet/Rug/Do	Repornunity Ce Van Son,	t Date: 5/16 enter ADA Coordin	/2017 nator Remedia	Barrier #: Dwg: tion: Requi	24H 1 of 1 ired	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description:	4/20/2017 Capitola Comm Kitchen nsible: Brian on: Public Kitchens Carpet/Rug/Do Carpet/rug not	Repor nunity Ce Van Son, por Mat anchore	t Date: 5/16 enter ADA Coordin	/2017 nator Remedia	Barrier #: Dwg: tion: Requi	24H 1 of 1 ired	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen	4/20/2017 Capitola Comm Kitchen nsible: Brian on: Public Kitchens Carpet/Rug/Do Carpet/rug not ces: CBC 11B-3	Repor nunity Ce Van Son, oor Mat anchore	t Date: 5/16 enter ADA Coordin ed to floor (pc	/2017 aator Remedia ossible trip 302.2	Barrier #: Dwg: tion: Requi	24H 1 of 1 ired	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description:	4/20/2017 Capitola Comm Kitchen nsible: Brian on: Public Kitchens Carpet/Rug/Do Carpet/rug not ces: CBC 11B-3 Carpet/rug crea	Repor nunity Ce Van Son, oor Mat anchore 302.2 and ates trip	t Date: 5/16 enter ADA Coordin ed to floor (po d 2010 ADAS 3 ping hazard	/2017 nator Remedia ossible trip 302.2	Barrier #: Dwg: tion: Requi	24H 1 of 1 ired	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution:	4/20/2017 Capitola Comm Kitchen nsible: Brian on: Public Kitchens Carpet/Rug/Do Carpet/rug not ces: CBC 11B-3 Carpet/rug crea	Repor nunity Ce Van Son, oor Mat anchore ates trip carpet/re	t Date: 5/16 enter ADA Coordin ed to floor (po d 2010 ADAS 3 ping hazard ug or replace	/2017 hator Remedia ossible trip 302.2	Barrier #: Dwg: tion: Requi	24H 1 of 1 ired	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas	4/20/2017 Capitola Comm Kitchen nsible: Brian on: Public Kitchens Carpet/Rug/Do Carpet/rug not ces: CBC 11B-3 Carpet/rug creation Secure exiting : 1	Repor nunity Ce Van Son, oor Mat anchore ates trip carpet/ru uantity:	t Date: 5/16 enter ADA Coordin ed to floor (po d 2010 ADAS 3 ping hazard ug or replace EACH Cost	/2017 nator Remedia ossible trip 302.2 Estimate:	Barrier #: Dwg: tion: Requi	24H 1 of 1 ired BSF	E 1 Necessary
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate:	4/20/2017 Capitola Comm Kitchen nsible: Brian on: Public Kitchens Carpet/Rug/Do Carpet/rug not ces: CBC 11B-3 Carpet/rug creations Secure exiting of 1 Qu	Repor nunity Ce Van Son, oor Mat anchore ates trip carpet/re uantity:	t Date: 5/16 enter ADA Coordin ed to floor (po d 2010 ADAS 3 ping hazard ug or replace EACH Cost Y Coordinate:	/2017 hator Remedia bssible trip 302.2 Estimate:	Barrier #: Dwg: tion: Requi	24H 1 of 1 ired BSR Z Coordi	Image:
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate: Implementati	4/20/2017 Capitola Comm Kitchen nsible: Brian on: Public Kitchens Carpet/Rug/Do Carpet/rug not ces: CBC 11B-3 Carpet/rug creations Secure exiting Secure exiting N/A on: Priority 2	Repornunity Ce Van Son, Dor Mat anchore ates trip carpet/re uantity:	t Date: 5/16 enter ADA Coordin ed to floor (po d 2010 ADAS 3 ping hazard ug or replace EACH Cost Y Coordinate: Phase	/2017 hator Remedia ossible trip 302.2 Estimate:	Barrier #: Dwg: tion: Requi hazard) \$540.00	24H 1 of 1 ired BSF Z Coordi	Image: N/A APPROVED JOB COPY Status Discourse



Field Date:	4/20/2017 Repo	ort Date: 5/16/2017	Barrier #: 24I	
Facility:	Capitola Community (Center		
Location:	Kitchen			
Official Respo	nsible: Brian Van So	n, ADA Coordinator		
Facility Functi	on: Public		Dwg: 1 of 1	Transferration of the local division of the
Barrier Area:	Kitchens	Remedi	ation: Required	
Barrier Type:	Counter Surfaces - Kn	ee Clearance		
Barrier Description:	Accessible segment o	f counter lacks knee clea	rance where a cooktop	or stove is provided
Code Referen	ces: CBC 606.2			
As Built Description:	No knee clearance pro	ovided at accessible cour	nter	
Proposed Solution:	Provide accessible sec	ctions of counter in both	locations	
As-Built Meas	: 1 Quantity:	JOB Cost Estimate:	\$1,814.00 BS	R: 2 Recommended
X Coordinate:	N/A	Y Coordinate: N/A	Z Coord	inate: N/A
Implementati	on: Priority 2	Phase	Date	Status Open
Notes:				
Field Dates	1/20/2017 Dans		Downion #	ava.
Field Date:	4/20/2017 Repo	ort Date: 5/16/2017	Barrier #: 24J	
Field Date: Facility:	4/20/2017 Repo	ort Date: 5/16/2017 Center	Barrier #: 24J	
Field Date: Facility: Location: Official Respo	4/20/2017 Repo Capitola Community (Kitchen	ort Date: 5/16/2017 Center	Barrier #: 24J	
Field Date: Facility: Location: Official Respo Facility Functi	4/20/2017 Repo Capitola Community (Kitchen nsible: Brian Van So on: Public	ort Date: 5/16/2017 Center n, ADA Coordinator	Barrier #: 24J	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area:	4/20/2017 Repo Capitola Community (Kitchen nsible: Brian Van So on: Public	ort Date: 5/16/2017 Center n, ADA Coordinator Remedi	Barrier #: 24J Dwg: 1 of 1 ation: Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type:	4/20/2017 Repo Capitola Community (Kitchen nsible: Brian Van So on: Public Kitchens Counter Surfaces - Su	ort Date: 5/16/2017 Center n, ADA Coordinator Remedi	Barrier #: 24J Dwg: 1 of 1 ation: Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description:	4/20/2017 Repo Capitola Community (Kitchen nsible: Brian Van So on: Public Kitchens Counter Surfaces - Su An accessible segmen	ort Date: 5/16/2017 Center n, ADA Coordinator Remedi rface Height t of counter not provided	Barrier #: 24J Dwg: 1 of 1 ation: Required d at both sink and stove	e/oven
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen	4/20/2017 Repo Capitola Community (Kitchen nsible: Brian Van So on: Public Kitchens Counter Surfaces - Su An accessible segmen ces: 2010 ADAS Figure	ort Date: 5/16/2017 Center n, ADA Coordinator Remedi rface Height t of counter not provided e 804.2.2 and CBC 804.2.	Barrier #: 24J Dwg: 1 of 1 ation: Required d at both sink and stove	e/oven
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description:	4/20/2017 Repo Capitola Community (Kitchen nsible: Brian Van So on: Public Kitchens Counter Surfaces - Su An accessible segmen ces: 2010 ADAS Figur Counters 35-1/2" to 3	ort Date: 5/16/2017 Center n, ADA Coordinator Remedi rface Height t of counter not provided e 804.2.2 and CBC 804.2. 7" high with no knee clea	Barrier #: 24J Dwg: 1 of 1 ation: Required d at both sink and stove 2 arance	e/oven
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution:	4/20/2017 Report Capitola Community (Kitchen nsible: Brian Van So on: Public Kitchens Counter Surfaces - Su An accessible segmen ces: 2010 ADAS Figur Counters 35-1/2" to 3	ort Date: 5/16/2017 Center n, ADA Coordinator Remedi rface Height t of counter not provided e 804.2.2 and CBC 804.2. 7" high with no knee clea	Barrier #: 24J Dwg: 1 of 1 ation: Required d at both sink and stove 2 arance locations	e/oven
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas	4/20/2017 Report Capitola Community (Capitola Community (Capitola Community (Capitola Community (Capitola Community)) Report Nsible: Brian Van So on: Public Kitchens Counter Surfaces - Su An accessible segment Counters 35-1/2" to 3 Provide accessible segment Capitola Capitol	ort Date: 5/16/2017 Center n, ADA Coordinator Remedi rface Height t of counter not provided e 804.2.2 and CBC 804.2. 7" high with no knee clea ctions of counter in both	Barrier #: 24J Dwg: 1 of 1 ation: Required d at both sink and stove 2 arance locations	e/oven
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate:	4/20/2017 Report Capitola Community (Kitchen nsible: Brian Van So on: Public Kitchens Counter Surfaces - Su An accessible segmen ces: 2010 ADAS Figur Counters 35-1/2" to 3 Provide accessible sec : 2 Quantity:	ort Date: 5/16/2017 Center n, ADA Coordinator Remedi rface Height t of counter not provided e 804.2.2 and CBC 804.2. 7" high with no knee clea ctions of counter in both JOB Cost Estimate: Y Coordinate: N/A	Barrier #: 24J Dwg: 1 of 1 ation: Required d at both sink and stove 2 arance locations \$3,629.00 BSI Z Coord	R: 2 Recommende
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate:	4/20/2017 Repo Capitola Community (Kitchen nsible: Brian Van So on: Public Kitchens Counter Surfaces - Su An accessible segmen ces: 2010 ADAS Figure Counters 35-1/2" to 3 Provide accessible sec : 2 Quantity: N/A on: Priority 2	ort Date: 5/16/2017 Center n, ADA Coordinator Remedi rface Height t of counter not provided e 804.2.2 and CBC 804.2. 7" high with no knee clea ctions of counter in both JOB Cost Estimate: Y Coordinate: N/A Phase	Barrier #: 24J Dwg: 1 of 1 ation: Required d at both sink and stove 2 arance locations \$3,629.00 BSI Z Coord	e/oven R: 2 Recommende



Field Date:	4/20/2017 Rep	ort Date: 5/16/2017	Barrier #: 24K	A CONTRACTOR
Facility:	Capitola Community	Center		
Location:	Kitchen			
Official Respo	nsible: Brian Van So	on, ADA Coordinator		
Facility Funct	on: Public		Dwg: 1 of 1	Transfer States
Barrier Area:	Kitchens	Remedia	ation: Required	
Barrier Type:	Outlet - Forward Rea	ch Obstructed (10"-25")		
Barrier Description:	Electrical outlet heig	ht over an 10" to 25" obst	ruction max. 34" high l	ocated above 44"
Code Referen	ces: 2010 ADAS 308.	2.2 and CBC 308.2.2		
As Built Description:	Switches 50" high ov	er 37" high counter with n	o knee clearance	
Proposed Solution:	Relocate control or n	nechanism to max. 44" hig	h over counter surface	e no more than 34" high
As-Built Meas	: 1 Quantity	EACH Cost Estimate:	\$810.00 BS	R: 3 Hindrance
X Coordinate:	N/A	Y Coordinate: N/A	Z Coord	linate: N/A
Implementati	on: Priority 2	Phase	Date	Status Open
Notes:				
Field Date:	4/20/2017 Rep	ort Date: 5/16/2017	Barrier #: 24L	
Field Date: Facility:	4/20/2017 Rep Capitola Community	ort Date: 5/16/2017 Center	Barrier #: 24L	
Field Date: Facility: Location:	4/20/2017 Rep Capitola Community Kitchen	ort Date: 5/16/2017 Center	Barrier #: 24L	
Field Date: Facility: Location: Official Respo	4/20/2017 Rep Capitola Community Kitchen nsible: Brian Van So	ort Date: 5/16/2017 Center on, ADA Coordinator	Barrier #: 24L	
Field Date: Facility: Location: Official Respo Facility Functi	4/20/2017 Rep Capitola Community Kitchen nsible: Brian Van So on: Public	ort Date: 5/16/2017 Center on, ADA Coordinator	Barrier #: 24L Dwg: 1 of 1	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area:	4/20/2017 Rep Capitola Community Kitchen Insible: Brian Van So on: Public Kitchens	ort Date: 5/16/2017 Center on, ADA Coordinator Remedia	Barrier #: 24L Dwg: 1 of 1 ation: Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type:	4/20/2017 Rep Capitola Community Kitchen nsible: Brian Van So on: Public Kitchens Shelving or Cabinets	ort Date: 5/16/2017 Center on, ADA Coordinator Remedia	Barrier #: 24L Dwg: 1 of 1 ation: Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description:	4/20/2017 Rep Capitola Community Kitchen Insible: Brian Van So on: Public Kitchens Shelving or Cabinets 50% of shelving prov	ort Date: 5/16/2017 Center on, ADA Coordinator Remedia ided is not accessible	Barrier #: 24L Dwg: 1 of 1 ation: Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen	4/20/2017RepCapitola CommunityKitchenInsible:Brian Van Soon:PublicKitchensShelving or Cabinets50% of shelving provces:2010 ADAS 804.	ort Date: 5/16/2017 Center on, ADA Coordinator Remedia ided is not accessible 5 & 811 and CBC 804.5	Barrier #: 24L Dwg: 1 of 1 ation: Required	
Field Date: Facility: Location: Official Response Facility Function Barrier Area: Barrier Type: Barrier Description: Code Referent As Built Description:	4/20/2017RepCapitola CommunityKitchenonsible:Brian Van Soon:PublicKitchensShelving or Cabinets50% of shelving provces:2010 ADAS 804.Shelves or cabinets r	ort Date: 5/16/2017 Center on, ADA Coordinator Remedia ided is not accessible 5 & 811 and CBC 804.5 iot accessible	Barrier #: 24L Dwg: 1 of 1 ation: Required	
Field Date: Facility: Location: Official Response Facility Function Barrier Area: Barrier Type: Barrier Description: Code Referent As Built Description: Proposed Solution:	4/20/2017RepCapitola CommunityKitchenonsible:Brian Van Soon:PublicKitchensShelving or Cabinets50% of shelving provces:2010 ADAS 804.Shelves or cabinets rProvide additional sh	ort Date: 5/16/2017 Center on, ADA Coordinator Remedia ided is not accessible 5 & 811 and CBC 804.5 iot accessible relving at max. 48" above f	Barrier #: 24L Dwg: 1 of 1 ation: Required	nce
Field Date: Facility: Location: Official Respondent Facility Function Barrier Area: Barrier Type: Barrier Description: Code Referent As Built Description: Proposed Solution: As-Built Meas	4/20/2017 Rep Capitola Community Kitchen onsible: Brian Van So fon: Public Kitchens Shelving or Cabinets 50% of shelving prov ces: 2010 ADAS 804. Shelves or cabinets r Provide additional sh :: 1	ort Date: 5/16/2017 Center on, ADA Coordinator Remedia ided is not accessible 5 & 811 and CBC 804.5 iot accessible elving at max. 48" above f r: EACH Cost Estimate:	Barrier #: 24L Dwg: 1 of 1 ation: Required	nce R: 1 Necessary
Field Date: Facility: Location: Official Response Facility Function Barrier Area: Barrier Type: Barrier Description: Code Referent As Built Description: Proposed Solution: As-Built Meas X Coordinates	4/20/2017 Rep Capitola Community Kitchen nsible: Brian Van So on: Public Kitchens Shelving or Cabinets 50% of shelving prov ces: 2010 ADAS 804. Shelves or cabinets r Provide additional sh :: 1 Quantity	ort Date: 5/16/2017 Center on, ADA Coordinator Remedia ided is not accessible 5 & 811 and CBC 804.5 iot accessible elving at max. 48" above f r: EACH Cost Estimate: Y Coordinate: N/A	Barrier #: 24L Dwg: 1 of 1 ation: Required floor or provide assista \$135.00 BS Z Coorc	Ince
Field Date: Facility: Location: Official Response Facility Function Barrier Area: Barrier Type: Barrier Description: Code Referent As Built Description: Proposed Solution: As-Built Mease X Coordinate: Implementation	4/20/2017 Rep Capitola Community Kitchen nsible: Brian Van So on: Public Kitchens Shelving or Cabinets 50% of shelving prov ces: 2010 ADAS 804. Shelves or cabinets r Provide additional sh :: 1 Quantity n: Priority	ort Date: 5/16/2017 Center on, ADA Coordinator Remedia ided is not accessible 5 & 811 and CBC 804.5 iot accessible elving at max. 48" above f r: EACH Cost Estimate: Y Coordinate: N/A Phase	Barrier #: 24L Dwg: 1 of 1 ation: Required floor or provide assista \$135.00 BS Z Coorc Date	Ince R: 1 Necessary Inate: N/A APPROVED JOB COPY Status OPEN.



Field Date:	4/20/2017 Repo	ort Date: 5/16/2017	Barrier #: 24N	Λ
Facility:	Capitola Community (Center		
Location:	Kitchen			
Official Respo	nsible: Brian Van So	n, ADA Coordinator		
Facility Functi	on: Public		Dwg: 1 of	1
Barrier Area:	Kitchens	Reme	diation: Required	
Barrier Type:	Sink - Rim			
Barrier Description:	Sinks not mounted wi	th the counter or rim n	no higher than 34" a	bove the finish floor
Code Referen	ces: 2010 ADAS 606.3	and CBC 606.3		
As Built Description:	36" high			
Proposed Solution:	Provide min. 1 access	ble sink in kitchen		
As-Built Meas	: 1 Quantity:	EACH Cost Estimat	e: \$3,564.00	BSR: 1 Necessary
X Coordinate:	N/A	Y Coordinate: N/A	ZC	Coordinate: N/A
Implementati	on: Priority 2	Phase	Date	Status Open
Notes:				
Field Date:	4/20/2017 Repo	ort Date: 5/16/2017	Barrier #: 24N	
Field Date: Facility:	4/20/2017 Repo Capitola Community (ort Date: 5/16/2017 Center	Barrier #: 24N	
Field Date: Facility: Location:	4/20/2017 Repo Capitola Community (Kitchen	ort Date: 5/16/2017 Center	Barrier #: 24N	
Field Date: Facility: Location: Official Respo	4/20/2017 Repo Capitola Community (Kitchen nsible: Brian Van So	ort Date: 5/16/2017 Center n, ADA Coordinator	Barrier #: 24N	
Field Date: Facility: Location: Official Respo Facility Functi	4/20/2017 Repo Capitola Community (Kitchen nsible: Brian Van So on: Public	ort Date: 5/16/2017 Center n, ADA Coordinator	Barrier #: 24N	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area:	4/20/2017 Repo Capitola Community (Kitchen nsible: Brian Van So on: Public Kitchens	ort Date: 5/16/2017 Center n, ADA Coordinator Reme	Barrier #: 24N Dwg: 1 of diation: Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type:	4/20/2017 Repo Capitola Community (Kitchen nsible: Brian Van So on: Public Kitchens Sink - Knee Clearance	ort Date: 5/16/2017 Center n, ADA Coordinator Reme	Barrier #: 24N Dwg: 1 of diation: Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description:	4/20/2017 Repo Capitola Community (Kitchen nsible: Brian Van So on: Public Kitchens Sink - Knee Clearance Knee clearance of at I	ort Date: 5/16/2017 Center n, ADA Coordinator Reme east 27" high, 30" wide	Barrier #: 24N Dwg: 1 of diation: Required	1 nrovided
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen	4/20/2017 Repo Capitola Community (Kitchen nsible: Brian Van So on: Public Kitchens Sink - Knee Clearance Knee clearance of at I ces: 2010 ADAS 606.2	ort Date: 5/16/2017 Center n, ADA Coordinator Reme east 27" high, 30" wide and CBC 606.2	Barrier #: 24N Dwg: 1 of diation: Required	1 1 provided
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description:	4/20/2017 Report Capitola Community (Kitchen nsible: Brian Van So on: Public Kitchens Sink - Knee Clearance Knee clearance of at I ces: 2010 ADAS 606.2 No knee clearance	ort Date: 5/16/2017 Center n, ADA Coordinator Reme east 27" high, 30" wide and CBC 606.2	Barrier #: 24N Dwg: 1 of diation: Required	I I provided
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution:	4/20/2017ReportCapitola Community CKitchennsible:Brian Van Soon:PublicKitchensSink - Knee ClearanceKnee clearance of at Ices:2010 ADAS 606.2No knee clearanceProvide min. 1 access	ort Date: 5/16/2017 Center n, ADA Coordinator Reme east 27" high, 30" wide and CBC 606.2	Barrier #: 24N Dwg: 1 of diation: Required	I 1 provided
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas	4/20/2017 Report Capitola Community C Kitchen nsible: Brian Van So on: Public Kitchens Sink - Knee Clearance Knee clearance of at I ces: 2010 ADAS 606.2 No knee clearance Provide min. 1 access :: 0	ort Date: 5/16/2017 Center h, ADA Coordinator Reme east 27" high, 30" wide and CBC 606.2 ble sink in kitchen EACH Cost Estimat	Barrier #: 24N Dwg: 1 of diation: Required and 19" deep not p	I I 1 I orovided I BSR: I Necessary
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate:	4/20/2017 Report Capitola Community C Kitchen nsible: Brian Van So on: Public Kitchens Sink - Knee Clearance Knee clearance of at I Ces: 2010 ADAS 606.2 No knee clearance Provide min. 1 access Cuantity: N/A No	ort Date: 5/16/2017 Center n, ADA Coordinator Reme east 27" high, 30" wide and CBC 606.2 ble sink in kitchen EACH Cost Estimat Y Coordinate: N/A	Barrier #: 24N Dwg: 1 of ediation: Required e and 19" deep not p e: \$0.00 Z C	I Image: Second state stat
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate: Implementati	4/20/2017 Report Capitola Community C Kitchen nsible: Brian Van So on: Public Kitchens Sink - Knee Clearance Knee clearance of at I Ces: 2010 ADAS 606.2 No knee clearance Provide min. 1 access Cuantity: N/A Quantity	ort Date: 5/16/2017 Center n, ADA Coordinator Reme east 27" high, 30" wide and CBC 606.2 ble sink in kitchen EACH Cost Estimat Y Coordinate: N/A Phase	Barrier #: 24N Dwg: 1 of ediation: Required and 19" deep not p e and 19" deep not p z of Date	I BSR: 1 Necessary Coordinate: N/A APPROVED JOB COPY Status Operation



Field Date:	4/20/2017	Repor	t Date:	5/16/2017	Barrier	#: 240)	1. 8	
Facility:	Capitola Comn	nunity Ce	nter					NY-	The second
Location:	Kitchen								
Official Respor	nsible: Brian	Van Son,	ADA Co	ordinator				8	The second
Facility Function	on: Public				Dv	wg: 1 of	1		
Barrier Area:	Kitchens			Remedia	ation: Re	equired			
Barrier Type:	Faucet - Forwa	ard Reach	Obstru	cted (10"-25")					
Barrier Description:	Faucets betwe	en 10" to	o 25" dee	ep with an obst	ruction m	าax. 34" ł	nigh locate	d above	44"
Code Referenc	es: 2010 ADA	AS 308.2.2	2 and CB	C 308.2.2					
As Built Description:	38" high over s	sink rim 3	6" high	with no knee cl	earance				
Proposed Solution:	Relocate contr	rol or med	chanism	to max. 44" hig	sh where	counter	is max. 34"	' high	
As-Built Meas:	1 Qu	uantity:	EACH	Cost Estimate:	\$810.0	0	BSR: 3 H	lindrand	e
X Coordinate:	N/A		Y Coordi	inate: N/A		ZC	oordinate:	N/A	
Implementatio	on: Priority	2	Phase		Date			Status	Open
Notes:									
		_			_				
Field Date:	4/20/2017	Repor	t Date:	5/16/2017	Barrier	#: 24P		1.1	
Field Date: Facility:	4/20/2017 Capitola Comn	Report nunity Ce	t Date:	5/16/2017	Barrier	#: 24P		nt-	
Field Date: Facility: Location:	4/20/2017 Capitola Comn Kitchen	Report	t Date: enter	5/16/2017	Barrier	#: 24P			
Field Date: Facility: Location: Official Respor	4/20/2017 Capitola Comn Kitchen nsible: Brian	Report nunity Ce Van Son,	t Date: nter ADA Co	5/16/2017 ordinator	Barrier	#: 24P			
Field Date: Facility: Location: Official Respor Facility Functic	4/20/2017 Capitola Comn Kitchen nsible: Brian on: Public	Report nunity Ce Van Son,	t Date: enter ADA Co	5/16/2017 ordinator	Barrier	#: 24P	1		
Field Date: Facility: Location: Official Respor Facility Functic Barrier Area:	4/20/2017 Capitola Comn Kitchen nsible: Brian on: Public Kitchens	Report nunity Ce Van Son,	t Date: enter ADA Co	5/16/2017 ordinator Remedia	Barrier Dv ation: Re	#: 24P wg: 1 of equired	1		
Field Date: Facility: Location: Official Respor Facility Functic Barrier Area: Barrier Type:	4/20/2017 Capitola Comn Kitchen nsible: Brian on: Public Kitchens Dispenser Para	Report nunity Ce Van Son, allel Appr	t Date: onter ADA Co oach - C	5/16/2017 ordinator Remedia bstructed @ 24	Barrier Dv ation: Re t" Deep	#: 24P wg: 1 of equired	1		
Field Date: Facility: Location: Official Respon Facility Function Barrier Area: Barrier Type: Barrier Description:	4/20/2017 Capitola Comn Kitchen nsible: Brian on: Public Kitchens Dispenser Para Where the hig exceeds max. 2	Report nunity Ce Van Son, allel Appr h side rea 24"	t Date: enter ADA Co oach - C ach is ov	5/16/2017 ordinator Remedia Obstructed @ 24 er an obstructio	Barrier Dv ation: Re I" Deep on max. 3	#: 24P wg: 1 of equired	1 the depth of	of the ol	ostruction
Field Date: Facility: Location: Official Respon Facility Functio Barrier Area: Barrier Type: Barrier Description: Code Reference	4/20/2017 Capitola Comn Kitchen nsible: Brian on: Public Kitchens Dispenser Para Where the hig exceeds max. 2	Report nunity Ce Van Son, allel Appr h side rea 24"	t Date: enter ADA Co oach - C ach is ov 2 and CB	5/16/2017 ordinator Remedia Obstructed @ 24 er an obstructio C 308.3.2	Barrier Dv ation: Re t" Deep on max. 3	#: 24P wg: 1 of equired	1 the depth of	of the ol	ostruction
Field Date: Facility: Location: Official Respon Facility Function Barrier Area: Barrier Type: Barrier Description: Code Reference As Built Description:	4/20/2017 Capitola Comn Kitchen nsible: Brian on: Public Kitchens Dispenser Para Where the hig exceeds max. 2 es: 2010 ADA Paper towel di	Report nunity Ce Van Son, allel Appr h side rea 24" AS 308.3.2 ispenser 4	t Date: nter ADA Co oach - C ach is ov 2 and CB 46" high	5/16/2017 ordinator Remedia Obstructed @ 24 er an obstructio C 308.3.2 over an obstruction	Barrier Dv ation: Re I" Deep on max. 3 ction 36"	#: 24P wg: 1 of equired 4" high, high and	1 the depth o	of the ol	ostruction
Field Date: Facility: Location: Official Respon Facility Function Barrier Area: Barrier Type: Barrier Description: Code Reference As Built Description: Proposed Solution:	4/20/2017 Capitola Comn Kitchen nsible: Brian on: Public Kitchens Dispenser Para Where the hig exceeds max. 2 res: 2010 ADA Paper towel di Relocate objec	Report nunity Ce Van Son, allel Appr h side rea 24" AS 308.3.2 ispenser 4	t Date: enter ADA Co oach - C ach is ov 2 and CB 46" high tion with	5/16/2017 ordinator Remedia Obstructed @ 24 er an obstruction C 308.3.2 over an obstruction	Barrier Dv ation: Re I" Deep on max. 3 ction 36"	#: 24P wg: 1 of equired 4" high, high anc	1 the depth o	of the ol	ostruction
Field Date: Facility: Location: Official Respon Facility Function Barrier Area: Barrier Type: Barrier Description: Code Reference As Built Description: Proposed Solution: As-Built Meas:	4/20/2017 Capitola Comn Kitchen nsible: Brian on: Public Kitchens Dispenser Para Where the hig exceeds max. 2 es: 2010 ADA Paper towel di Relocate objec	Report nunity Ce Van Son, allel Appr h side rea 24" AS 308.3.2 ispenser 4 ct to locat uantity:	t Date: nter ADA Co oach - C ach is ov 2 and CB 46" high tion with JOB	5/16/2017 ordinator Remedia Obstructed @ 24 er an obstructio C 308.3.2 over an obstruction nin reach range Cost Estimate:	Barrier Dv ation: Re I" Deep on max. 3 ction 36"	 #: 24P wg: 1 of equired 4" high, - high anc 0 	1 the depth of 24" deep BSR: 2 R	of the ol	ostruction
Field Date: Facility: Location: Official Respon Facility Functio Barrier Area: Barrier Type: Barrier Description: Code Reference As Built Description: Proposed Solution: As-Built Meas: X Coordinate:	4/20/2017 Capitola Comn Kitchen nsible: Brian on: Public Kitchens Dispenser Para Where the hig exceeds max. 2 ces: 2010 ADA Paper towel di Relocate objec	Report nunity Ce Van Son, allel Appr h side rea 24" AS 308.3.2 ispenser 4 ct to locat uantity:	t Date: Inter ADA Co oach - C ach is ov 2 and CB 46" high tion with JOB Y Coordi	5/16/2017 ordinator Remedia obstructed @ 24 er an obstructio C 308.3.2 over an obstructio nin reach range Cost Estimate: nate: N/A	Barrier Dv ation: Re UTDeep on max. 3 ction 36"	#: 24P wg: 1 of equired 4" high, f high anc	1 the depth of I 24" deep BSR: 2 R coordinate:	of the ol	ende Copy
Field Date: Facility: Location: Official Respon Facility Function Barrier Area: Barrier Type: Barrier Description: Code Reference As Built Description: Proposed Solution: As-Built Meas: X Coordinate:	4/20/2017 Capitola Comn Kitchen nsible: Brian on: Public Kitchens Dispenser Para Where the hig exceeds max. 2 ces: 2010 ADA Paper towel di Relocate objec 1 Qu N/A	Report nunity Ce Van Son, allel Appr h side rea 24" AS 308.3.2 ispenser 4 ct to locat uantity:	t Date: ADA Co oach - C ach is ov 2 and CB 46" high tion with JOB Y Coordi Phase	5/16/2017 ordinator Remedia bstructed @ 24 er an obstructio C 308.3.2 over an obstructio nin reach range Cost Estimate: inate: N/A	Barrier Dv ation: Re UTDeep on max. 3 ction 36"	#: 24P wg: 1 of equired 4" high, f high and 0 2 C	1 the depth of 24" deep BSR: 2 R coordinate:	of the ol	ende Contention



Field Date:	4/20/2017 Repo	rt Date: 5/16/2017	Barrier #: 24Q	
Facility:	Capitola Community C	enter		
Location:	Kitchen			
Official Respo	nsible: Brian Van Sor	, ADA Coordinator		
Facility Funct	on: Public		Dwg: 1 of 1	S A S
Barrier Area:	Doors or Gates	Remed	liation: Required	
Barrier Type:	Maneuvering Clearance	e - Front App/Push 48"	Auto Door	
Barrier Description:	Door/Gate at push side	e lacks min. 12" strike e	dge clearance with la	atch/closer
Code Referen	ces: CBC Figure 11B-4	04.2.4.1		
As Built Description:	Exit door to patio has !	5" strike edge clearance	e at push side of door	
Proposed Solution:	Relocate door or gate opening device	to provide required ma	neuvering clearance	or install automatic door
As-Built Meas	: 1 Quantity:	EACH Cost Estimate	\$5,400.00	BSR: 1 Necessary
X Coordinate:	N/A	Y Coordinate: N/A	Z Co	ordinate: N/A
Implementati	on: Priority 2	Phase	Date	Status Open
Notes:				
Field Date:	4/20/2017 Repo	rt Date: 5/16/2017	Barrier #: 24R	
Field Date: Facility:	4/20/2017 Repo Capitola Community C	rt Date: 5/16/2017 enter	Barrier #: 24R	
Field Date: Facility: Location:	4/20/2017 Repo Capitola Community C Kitchen	rt Date: 5/16/2017 enter	Barrier #: 24R	
Field Date: Facility: Location: Official Respo	4/20/2017 Repo Capitola Community C Kitchen nsible: Brian Van Sor	rt Date: 5/16/2017 enter n, ADA Coordinator	Barrier #: 24R	
Field Date: Facility: Location: Official Respo Facility Functi	4/20/2017 Repo Capitola Community C Kitchen nsible: Brian Van Sor on: Public	rt Date: 5/16/2017 enter h, ADA Coordinator	Barrier #: 24R	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area:	4/20/2017 Repo Capitola Community C Kitchen nsible: Brian Van Sor on: Public Doors or Gates	rt Date: 5/16/2017 enter n, ADA Coordinator Remed	Barrier #: 24R Dwg: 1 of 1 liation: Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type:	4/20/2017 Repo Capitola Community C Kitchen nsible: Brian Van Sor on: Public Doors or Gates Maneuvering Clearanc	rt Date: 5/16/2017 enter n, ADA Coordinator Remed re - Front App/Push 48"	Barrier #: 24R Dwg: 1 of 1 liation: Required Auto Door	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description:	4/20/2017 Repo Capitola Community C Kitchen nsible: Brian Van Sor on: Public Doors or Gates Maneuvering Clearanc Door/Gate at push side	rt Date: 5/16/2017 enter n, ADA Coordinator Remed e - Front App/Push 48" e lacks min. 12" strike e	Barrier #: 24R Dwg: 1 of 1 Dwg: 1 of 1 Dwg: Auto Door Door Dwg: Dwg: 1 of 1	atch/closer
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen	4/20/2017 Repo Capitola Community C Kitchen nsible: Brian Van Sor on: Public Doors or Gates Maneuvering Clearanc Door/Gate at push side ces: CBC Figure 11B-40	rt Date: 5/16/2017 enter n, ADA Coordinator Remed e - Front App/Push 48" e lacks min. 12" strike e	Barrier #: 24R Dwg: 1 of 1 liation: Required Auto Door edge clearance with la	atch/closer
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description:	4/20/2017RepoCapitola Community CKitchennsible:Brian Van Soron:PublicDoors or GatesManeuvering ClearanceDoor/Gate at push sideces:CBC Figure 11B-44Door to classroom has	rt Date: 5/16/2017 enter h, ADA Coordinator Remed e - Front App/Push 48" e lacks min. 12" strike e 04.2.4.1 6-1/2" strike edge clea	Barrier #: 24R Dwg: 1 of 1 liation: Required Auto Door edge clearance with la rance to fixed counte	atch/closer
Field Date: Facility: Location: Official Response Facility Function Barrier Area: Barrier Type: Barrier Description: Code Referent As Built Description: Proposed Solution:	4/20/2017 Repo Capitola Community C Kitchen nsible: Brian Van Sor on: Public Doors or Gates Maneuvering Clearance Door/Gate at push side ces: CBC Figure 11B-40 Door to classroom has Relocate door or gate opening device	rt Date: 5/16/2017 enter h, ADA Coordinator Remed e - Front App/Push 48" e lacks min. 12" strike e 04.2.4.1 6-1/2" strike edge clea to provide required ma	Barrier #: 24R Dwg: 1 of 1 liation: Required Auto Door edge clearance with la rance to fixed counte neuvering clearance	atch/closer er or install automatic door
Field Date: Facility: Location: Official Response Facility Function Barrier Area: Barrier Type: Barrier Description: Code Referent As Built Description: Proposed Solution: As-Built Meas	4/20/2017 Repo Capitola Community C Kitchen nsible: Brian Van Sor on: Public Doors or Gates Maneuvering Clearance Door/Gate at push side ces: CBC Figure 11B-40 Door to classroom has Relocate door or gate opening device :: 1	rt Date: 5/16/2017 enter h, ADA Coordinator Remed e acks min. 12" strike e 04.2.4.1 6-1/2" strike edge clea to provide required ma EACH Cost Estimate	Barrier #: 24R Dwg: 1 of 1 liation: Required Auto Door edge clearance with la rance to fixed counte neuvering clearance	er or install automatic door BSR: 1 Necessary
Field Date: Facility: Location: Official Response Facility Function Barrier Area: Barrier Type: Barrier Description: Code Referent As Built Description: Proposed Solution: As-Built Meas X Coordinates	4/20/2017 Repo Capitola Community C Kitchen nsible: Brian Van Sor on: Public Doors or Gates Maneuvering Clearance Door/Gate at push side ces: CBC Figure 11B-44 Door to classroom has Relocate door or gate opening device :: 1 N/A	rt Date: 5/16/2017 enter h, ADA Coordinator Remed e - Front App/Push 48" e lacks min. 12" strike e 04.2.4.1 6-1/2" strike edge clea to provide required ma EACH Cost Estimate Y Coordinate: N/A	Barrier #: 24R Dwg: 1 of 1 liation: Required Auto Door edge clearance with la rance to fixed counte neuvering clearance :: \$5,400.00 Z Co	er or install automatic door BSR: 1 Necessary
Field Date: Facility: Location: Official Response Facility Function Barrier Area: Barrier Type: Barrier Description: Code Referent As Built Description: Proposed Solution: As-Built Meas X Coordinate: Implementation	4/20/2017 Repo Capitola Community C Kitchen nsible: Brian Van Sor on: Public Doors or Gates Maneuvering Clearance Door/Gate at push side ces: CBC Figure 11B-40 Door to classroom has Relocate door or gate opening device :: 1 Quantity: N/A on: Priority	rt Date: 5/16/2017 enter h, ADA Coordinator Remed e - Front App/Push 48" e lacks min. 12" strike e 04.2.4.1 6-1/2" strike edge clea to provide required ma EACH Cost Estimate Y Coordinate: N/A Phase	Barrier #: 24R Dwg: 1 of 1 liation: Required Auto Door edge clearance with la rance to fixed counte neuvering clearance :: \$5,400.00 Z Con Date	er or install automatic door BSR: 1 Necessary ordinate: N/A APPROVED JOB COPY Status Open.



Field Date:	4/20/2017 Repo	rt Date: 5/16/2017	Barrier #: 254	
Facility:	Capitola Community C	enter		
Location:	Women's Restroom			
Official Respo	nsible: Brian Van Son	, ADA Coordinator		
Facility Functi	on: Public		Dwg: 1 of	1
Barrier Area:	Restrooms	Ren	nediation: Required	
Barrier Type:	Doormat - Non-recess	ed		
Barrier Description:	Doormat not anchored	l to floor (trip hazard	()	
Code Referen	ces: CBC 11B-302.2			
As Built Description:	Door mat not secured	or recessed		
Proposed Solution:	Replace doormat or ar	nchor existing		
As-Built Meas	: 1 Quantity:	EACH Cost Estim	ate: \$540.00	BSR: 1 Necessary
X Coordinate:	N/A	Y Coordinate: N/A	ZC	Coordinate: N/A
Implementati	on: Priority 3	Phase	Date	Status Open
Notes:				
Field Date:	4/20/2017 Repo	rt Date: 5/16/2017	Barrier #: 25E	
Field Date: Facility:	4/20/2017 Repo Capitola Community C	rt Date: 5/16/2017 enter	Barrier #: 25E	
Field Date: Facility: Location:	4/20/2017 Repo Capitola Community C Women's Restroom	rt Date: 5/16/2017 enter	Barrier #: 25E	
Field Date: Facility: Location: Official Respo	4/20/2017 Repo Capitola Community C Women's Restroom nsible: Brian Van Son	rt Date: 5/16/2017 enter , ADA Coordinator	Barrier #: 25E	
Field Date: Facility: Location: Official Respo Facility Functi	4/20/2017 Repo Capitola Community C Women's Restroom nsible: Brian Van Son on: Public	rt Date: 5/16/2017 enter , ADA Coordinator	Barrier #: 25E	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area:	4/20/2017 Report Capitola Community C Women's Restroom nsible: Brian Van Son on: Public Restrooms	rt Date: 5/16/2017 enter , ADA Coordinator Ren	Barrier #: 25E Dwg: 1 of nediation: Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type:	4/20/2017 Report Capitola Community C Women's Restroom nsible: Brian Van Son on: Public Restrooms Sign - Braille/tactile Inf	rt Date: 5/16/2017 enter , ADA Coordinator Ren formation	Barrier #: 25E Dwg: 1 of nediation: Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description:	4/20/2017 Report Capitola Community C Women's Restroom nsible: Brian Van Son on: Public Restrooms Sign - Braille/tactile Inf No sign with Braille/Ta	rt Date: 5/16/2017 enter , ADA Coordinator Ren formation ctile information pro	Barrier #: 25E Dwg: 1 of nediation: Required	a 1 room
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen	4/20/2017 Report Capitola Community C Women's Restroom nsible: Brian Van Son on: Public Restrooms Sign - Braille/tactile Inf No sign with Braille/Tac ces: CBC 11B-216.2 an	rt Date: 5/16/2017 enter , ADA Coordinator Ren formation ctile information pro d ADAS 216.2	Barrier #: 25E Dwg: 1 of nediation: Required	a 1 room
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description:	4/20/2017 Report Capitola Community C Women's Restroom nsible: Brian Van Son on: Public Restrooms Sign - Braille/tactile Inf No sign with Braille/Ta ces: CBC 11B-216.2 an No tactile information	rt Date: 5/16/2017 enter , ADA Coordinator Ren formation ctile information pro d ADAS 216.2 at wall on latch side	Barrier #: 25E Dwg: 1 of nediation: Required ovided to identify rest	a 1 room
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution:	4/20/2017 Report Capitola Community C Women's Restroom nsible: Brian Van Son on: Public Restrooms Sign - Braille/tactile Inf No sign with Braille/Ta ces: CBC 11B-216.2 an No tactile information Move existing sign or p	rt Date: 5/16/2017 enter , ADA Coordinator Ren formation ctile information pro d ADAS 216.2 at wall on latch side provide new sign	Barrier #: 25E Dwg: 1 of nediation: Required ovided to identify rest	a 1 room
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas	4/20/2017 Report Capitola Community C Women's Restroom nsible: Brian Van Son on: Public Restrooms Sign - Braille/tactile Inf No sign with Braille/Ta ces: CBC 11B-216.2 an No tactile information Move existing sign or p : 1	rt Date: 5/16/2017 enter a, ADA Coordinator Ren cormation ctile information pro d ADAS 216.2 at wall on latch side provide new sign EACH Cost Estim	Barrier #: 25E Dwg: 1 of nediation: Required ovided to identify rest of door	BSR: 1 Necessary
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate:	4/20/2017 Report Capitola Community C Women's Restroom nsible: Brian Van Son on: Public Restrooms Sign - Braille/tactile Inf No sign with Braille/Ta ces: CBC 11B-216.2 an No tactile information Move existing sign or p : 1 Quantity: N/A	rt Date: 5/16/2017 enter A ADA Coordinator Ren formation ctile information pro d ADAS 216.2 at wall on latch side provide new sign EACH Cost Estim Y Coordinate: N/A	Barrier #: 25E Dwg: 1 of nediation: Required ovided to identify rest of door ate: \$270.00 Z 0	BSR: 1 Necessary
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate:	4/20/2017 Report Capitola Community C Women's Restroom nsible: Brian Van Som on: Public Restrooms Sign - Braille/tactile Information No sign with Braille/Tactile Information Move existing sign or p : 1 Quantity: N/A on: Priority	rt Date: 5/16/2017 enter , ADA Coordinator Ren formation ctile information pro d ADAS 216.2 at wall on latch side provide new sign EACH Cost Estim Y Coordinate: N/A Phase	Barrier #: 25E Dwg: 1 of nediation: Required ovided to identify rest of door ate: \$270.00 Z (Date	BSR: 1 Necessary



Field Date:	4/20/2017 Report	Date: 5/16/2017	Barrier #: 25C	
Facility:	Capitola Community Cer	nter		
Location:	Women's Restroom			
Official Respo	nsible: Brian Van Son,	ADA Coordinator		
Facility Functi	on: Public		Dwg: 1 of 1	
Barrier Area:	Restrooms	Remediati	on: Required	
Barrier Type:	Door Closer - Adjustmen	nt		
Barrier Description:	Door opening force exce	eeds 5 lbf		
Code Referen	ces: CBC 11B-404.2.9			
As Built Description:	8 lbf and door swing cat	ches on floor mat inside	room	
Proposed Solution:	Adjust existing closer an	d more floor mat		
As-Built Meas	: 1 Quantity: E	EACH Cost Estimate:	\$486.00 BSR	: 1 Necessary
X Coordinate:	N/A Y	' Coordinate: N/A	Z Coordi	nate: N/A
Implementati	on: Priority 3	Phase	Date	Status Open
Notes:				
Field Date:	4/20/2017 Report	Date: 5/16/2017	Barrier #: 25D	
Field Date: Facility:	4/20/2017 Report Capitola Community Cer	Date: 5/16/2017	Barrier #: 25D	
Field Date: Facility: Location:	4/20/2017 Report Capitola Community Cer Women's Restroom	Date: 5/16/2017 nter	Barrier #: 25D	
Field Date: Facility: Location: Official Respo	4/20/2017 Report Capitola Community Cer Women's Restroom nsible: Brian Van Son, A	Date: 5/16/2017 nter ADA Coordinator	Barrier #: 25D	
Field Date: Facility: Location: Official Respo Facility Functi	4/20/2017 Report Capitola Community Cer Women's Restroom nsible: Brian Van Son, A on: Public	Date: 5/16/2017 nter ADA Coordinator	Barrier #: 25D Dwg: 1 of 1	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area:	4/20/2017 Report Capitola Community Cer Women's Restroom nsible: Brian Van Son, A on: Public Restrooms	Date: 5/16/2017 nter ADA Coordinator Remediati	Barrier #: 25D Dwg: 1 of 1 on: Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type:	4/20/2017 Report Capitola Community Cer Women's Restroom nsible: Brian Van Son, A on: Public Restrooms Door Closer - Sweep Per	Date: 5/16/2017 nter ADA Coordinator Remediati	Barrier #: 25D Dwg: 1 of 1 on: Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description:	4/20/2017 Report Capitola Community Cer Women's Restroom nsible: Brian Van Son, A on: Public Restrooms Door Closer - Sweep Per Door closer does not pro	Date: 5/16/2017 nter ADA Coordinator Remediati riod ovide min. 5 second swee	Barrier #: 25D Dwg: 1 of 1 on: Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen	4/20/2017 Report Capitola Community Cer Women's Restroom nsible: Brian Van Son, A on: Public Restrooms Door Closer - Sweep Per Door closer does not pro ces: CBC 11B-404.2.8.1	Date: 5/16/2017 nter ADA Coordinator Remediati riod ovide min. 5 second swee	Barrier #: 25D Dwg: 1 of 1 on: Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description:	4/20/2017ReportCapitola Community CerWomen's Restroomnsible:Brian Van Son, Aon:PublicRestroomsDoor Closer - Sweep PerDoor closer does not proces:CBC 11B-404.2.8.12 second sweep and door	Date: 5/16/2017 nter ADA Coordinator Remediati riod ovide min. 5 second swee or swing catches on floor	Barrier #: 25D Dwg: 1 of 1 on: Required ep period mat inside room	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution:	4/20/2017ReportCapitola Community CerWomen's Restroomnsible:Brian Van Son, Aon:PublicRestroomsDoor Closer - Sweep PerDoor closer does not proces:CBC 11B-404.2.8.12 second sweep and doorAdjust existing closer and	Date: 5/16/2017 nter ADA Coordinator Remediati riod ovide min. 5 second swee or swing catches on floor rid more floor mat	Barrier #: 25D Dwg: 1 of 1 on: Required ep period mat inside room	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas	4/20/2017 Report Capitola Community Cer Women's Restroom nsible: Brian Van Son, A on: Public Restrooms Door Closer - Sweep Per Door closer does not pro ces: CBC 11B-404.2.8.1 2 second sweep and door Adjust existing closer an : 0 Quantity: F	Date: 5/16/2017 Inter ADA Coordinator Remediati Fiod Divide min. 5 second swee Divide more floor mat EACH Cost Estimate:	Barrier #: 25D Dwg: 1 of 1 on: Required ep period mat inside room	Thecessary
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate:	4/20/2017 Report Capitola Community Cer Women's Restroom nsible: Brian Van Son, A on: Public Restrooms Door Closer - Sweep Per Door closer does not pro ces: CBC 11B-404.2.8.1 2 second sweep and door Adjust existing closer an : 0 Quantity: F N/A Y	Date: 5/16/2017 Inter ADA Coordinator ADA Coordinator Remediati Fiod Divide min. 5 second swee Divide min. 5 second swee EACH Cost Estimate: 1 Coordinate: N/A	Barrier #: 25D Dwg: 1 of 1 on: Required ep period mat inside room \$0.00 BSR Z Coordi	: 1 Necessary nate: N/A APPROVED
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate:	4/20/2017 Report Capitola Community Cerr Women's Restroom nsible: Brian Van Son, A on: Public Restrooms Door Closer - Sweep Per Door closer does not proces: CBC 11B-404.2.8.1 2 second sweep and door Adjust existing closer an : 0 N/A Y on: Priority 3	Date: 5/16/2017 Inter ADA Coordinator ADA Coordinator Remediati Tood Dovide min. 5 second swee Dor swing catches on floor Ind more floor mat EACH Cost Estimate: Y Coordinate: N/A Phase	Barrier #: 25D Dwg: 1 of 1 on: Required ep period mat inside room \$0.00 BSR Z Coordi	Image: N/A APPROVED JOB COPY Status Open Content



Field Date:	4/20/2017 Report	: Date: 5/16/2017 Ba	rrier #: 25E	
Facility:	Capitola Community Cer	nter		
Location:	Women's Restroom			
Official Respo	nsible: Brian Van Son,	ADA Coordinator		
Facility Functi	on: Public		Dwg: 1 of 1	
Barrier Area:	Restrooms	Remediation	n: Required	
Barrier Type:	Doormat - Non-recessed	d		
Barrier Description:	Doormat not anchored	to floor (trip hazard)		
Code Referen	ces: CBC 11B-302.2			
As Built Description:	Door mat not secured o	r recessed		
Proposed Solution:	Replace doormat or and	hor existing		
As-Built Meas	: 1 Quantity:	EACH Cost Estimate: \$5	40.00 BSR:	1 Necessary
X Coordinate:	N/A Y	Y Coordinate: N/A	Z Coordir	nate: N/A
Implementati	on: Priority 3	Phase	Date	Status Open
Notes:				
Field Date:	4/20/2017 Report	Date: 5/16/2017 Ba	nrrier #: 25F	
Field Date: Facility:	4/20/2017 Report Capitola Community Cer	Date: 5/16/2017 Banner	nrrier #: 25F	
Field Date: Facility: Location:	4/20/2017 Report Capitola Community Cer Women's Restroom	Date: 5/16/2017 Bannter	irrier #: 25F	
Field Date: Facility: Location: Official Respo	4/20/2017 Report Capitola Community Cer Women's Restroom nsible: Brian Van Son,	Date: 5/16/2017 Bandler ADA Coordinator	irrier #: 25F	
Field Date: Facility: Location: Official Respo Facility Functi	4/20/2017 Report Capitola Community Cer Women's Restroom nsible: Brian Van Son, on: Public	Date: 5/16/2017 Banner ADA Coordinator	Dwg: 1 of 1	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area:	4/20/2017 Report Capitola Community Cer Women's Restroom nsible: Brian Van Son, on: Public Restrooms	Date: 5/16/2017 Banner ADA Coordinator Remediation	Dwg: 1 of 1	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type:	4/20/2017 Report Capitola Community Cer Women's Restroom nsible: Brian Van Son, on: Public Restrooms Dispensers - Protruding	Date: 5/16/2017 Banner ADA Coordinator Remediation Object	Dwg: 1 of 1	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description:	4/20/2017 Report Capitola Community Cer Women's Restroom nsible: Brian Van Son, on: Public Restrooms Dispensers - Protruding Dispenser creates protru	Date: 5/16/2017 Banner ADA Coordinator Remediation Object uding hazard in path of trav	rrier #: 25F Dwg: 1 of 1 n: Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen	4/20/2017 Report Capitola Community Cer Women's Restroom nsible: Brian Van Son, on: Public Restrooms Dispensers - Protruding Dispenser creates protru	Date: 5/16/2017 Banner ADA Coordinator Remediation Object uding hazard in path of trav	Prrier #: 25F	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description:	4/20/2017ReportCapitola Community CerWomen's Restroomnsible:Brian Van Son,on:PublicRestroomsDispensers - ProtrudingDispenser creates protructces:CBC 11B-307.2Paper towel dispenser protructfrom wall	Date: 5/16/2017 Banner ADA Coordinator Remediation Object uding hazard in path of trav	essed trash receptad	cle protrudes only 4-1/2"
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution:	4/20/2017ReportCapitola Community CerWomen's Restroomnsible:Brian Van Son,on:PublicRestroomsDispensers - ProtrudingDispenser creates protructces:CBC 11B-307.2Paper towel dispenser protructfrom wallRelocate/remount dispenser	Date: 5/16/2017 Banter ADA Coordinator ADA Coordinator Remediation Object uding hazard in path of trav protrudes 9-1/2" where reco	errier #: 25F	cle protrudes only 4-1/2"
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas	4/20/2017 Report Capitola Community Cer Women's Restroom Women's Restroom Image: Brian Van Son, on: Public Restrooms Image: Dispensers - Protruding Dispenser creates protruct Ces: CBC 11B-307.2 Paper towel dispenser protruct From wall Relocate/remount dispenser Image: Ima	Date: 5/16/2017 Banner ADA Coordinator ADA Coordinator Remediation Object uding hazard in path of trav protrudes 9-1/2" where reconser or provide detectable EACH Cost Estimate: \$1	errier #: 25F	Le protrudes only 4-1/2"
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate:	4/20/2017 Report Capitola Community Cer Women's Restroom N/A N/A	Date: 5/16/2017 Banter ADA Coordinator Remediation Object uding hazard in path of trav protrudes 9-1/2" where reco enser or provide detectable EACH Cost Estimate: \$1 Y Coordinate: N/A	errier #: 25F Dwg: 1 of 1 Prime Present and the second sec	Le protrudes only 4-1/2"
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate:	4/20/2017 Report Capitola Community Cer Women's Restroom women's Restroom Sestrooms nsible: Brian Van Son, on: Public Restrooms Dispensers - Protruding Dispenser creates protruct Ces: CBC 11B-307.2 Paper towel dispenser protruct from wall Relocate/remount dispenser x 1 Quantity: x/A Y on: Priority 3	Date: 5/16/2017 Banter ADA Coordinator ADA Coordinator Object Uding hazard in path of trav Protrudes 9-1/2" where rect enser or provide detectable EACH Cost Estimate: \$1 Y Coordinate: N/A Phase	errier #: 25F Dwg: 1 of 1 i: Required iel essed trash receptad warning 35.00 BSR: Z Coordir Date	Image: Status



Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 25G
Facility: Capitola Community Center
Location: Women's Restroom
Official Responsible: Brian Van Son, ADA Coordinator
Facility Function: Public Dwg: 1 of 1
Barrier Area: Restrooms Remediation: Required
Barrier Type: Dispensers - Control Point
Barrier Dispenser control point or operating mechanism not max. 40" AFF Description:
Code References: CBC 11B-603.5
As Built Paper towel and soap dispenser control points 43" high Description:
Proposed Replace or remount dispenser Solution:
As-Built Meas: 2 Quantity: EACH Cost Estimate: \$270.00 BSR: 2 Recommended
X Coordinate: N/A Y Coordinate: N/A Z Coordinate: N/A
Implementation: Priority 3 Phase Date Date Status Open
Notes:
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 25H Image: Second
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 25H Facility: Capitola Community Center Capitola Community Center
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 25H Facility: Capitola Community Center Location: Women's Restroom
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 25H Facility: Capitola Community Center
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 25H Facility: Capitola Community Center
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 25H Facility: Capitola Community Center Location: Women's Restroom Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: I of 1 Barrier Area: Restrooms Remediation: Required
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 25H Facility: Capitola Community Center Location: Women's Restroom Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: 1 of 1 Barrier Area: Restrooms Remediation: Required Barrier Type: Lavatory - Knee Clearance
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 25H Facility: Capitola Community Center
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 25H Facility: Capitola Community Center Location: Women's Restroom Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Barrier Area: Restrooms Restrooms Remediation: Required Barrier Type: Lavatory bottom apron/edge not max 29" reducing to 27" at 8" back from edge Code References: CBC 11B-306
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 25H Facility: Capitola Community Center Location: Women's Restroom Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: 1 of 1 Barrier Area: Restrooms Remediation: Required Barrier Type: Lavatory bottom apron/edge not max 29" reducing to 27" at 8" back from edge Code Reference: CBC 11B-306 As Built 27-1/2" high at rim
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 25H Facility: Capitola Community Center Location: Women's Restroom Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Barrier Area: Restrooms Barrier Type: Lavatory - Knee Clearance Barrier Description: Code Reference: CBC 11B-306 As Built Description: Proposed Provide min. one accessible lavatory Solution:
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 25H Facility: Capitola Community Center Location: Women's Restroom Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: 1 of 1 Barrier Area: Restrooms Remediation: Required Barrier Type: Lavatory - Knee Clearance Eavatory - Knee Clearance Barrier Type: Lavatory bottom apron/edge not max 29" reducing to 27" at 8" back from edge Code References: CBC 11B-306 As Built 27-1/2" high at rim Proposed Solution: Provide min. one accessible lavatory Solution: As-Built Meas: 1 Quantity: JOB Cost Estimate: \$486.00 BSR: 1 Necessary
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 25H Facility: Capitola Community Center Location: Women's Restroom Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: 1 of 1 Barrier Area: Restrooms Remediation: Required Barrier Type: Lavatory - Knee Clearance Barrier Lavatory bottom apron/edge not max 29" reducing to 27" at 8" back from edge Code References: CBC 11B-306 As Built 27-1/2" high at rim Proposed Provide min. one accessible lavatory Solution: 1 Quantity: JOB Cost Estimate: \$486.00 BSR: 1 N/A
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 25H Facility: Capitola Community Center Location: Women's Restroom Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: 1 of 1 Barrier Area: Restrooms Barrier Type: Lavatory - Knee Clearance Barrier Type: Lavatory bottom apron/edge not max 29" reducing to 27" at 8" back from edge Code References: CBC 11B-306 As Built 27-1/2" high at rim Description: Provide min. one accessible lavatory Solution: As-Built Meas: 1 Quantity: JOB Cost Estimate: \$486.00 BSR: 1 N/A Y Coordinate: N/A Z Coordinate: N/A Proposed Provide min. one accessible lavatory Solution: Provide min. one accessible lavatory Solution: Provide min. one accessible lavatory Solution: N/A Y Coordinate: N/A Z Coordinate: N/A Proposed Provide min. one accessible lavatory



Field Date:	4/20/2017 F	Report Date: 5	/16/2017	Barrier #: 2	51
Facility:	Capitola Commun	ity Center			
Location:	Women's Restroo	m			and the second
Official Respo	nsible: Brian Var	n Son, ADA Coo	rdinator		P 1
Facility Functi	on: Public			Dwg: 1	of 1
Barrier Area:	Restrooms		Remediat	ion: Require	d
Barrier Type:	Lavatory - Drainpi	pes			
Barrier Description:	Hot water and dra	ainpipes access	ble under lavat	ory not insula	ted or covered
Code Referen	ces: CBC 11B-606	.5			
As Built Description:	No insulation prov	vided			
Proposed Solution:	Insulate drainpipe	es and hot wate	r pipes		
As-Built Meas	: 1 Quan	tity: EACH C	Cost Estimate:	\$238.00	BSR: 2 Recommended
X Coordinate:	N/A	Y Coordin	ate: N/A		Z Coordinate: N/A
Implementati	on: Priority 3	Phase		Date	Status Open
Notes:					
,				_	
Field Date:	4/20/2017 F	Report Date: 5	/16/2017	Barrier #: 2	5.
Field Date: Facility:	4/20/2017 F Capitola Commun	Report Date: 5	/16/2017	Barrier #: 2	5.
Field Date: Facility: Location:	4/20/2017 F Capitola Commun Women's Restroo	Report Date: 5 ity Center m	/16/2017	Barrier #: 2	
Field Date: Facility: Location: Official Respo	4/20/2017 F Capitola Commun Women's Restroo nsible: Brian Var	Report Date: 5 ity Center m 1 Son, ADA Coo	/16/2017 rdinator	Barrier #: 2	
Field Date: Facility: Location: Official Respo Facility Functi	4/20/2017 F Capitola Commun Women's Restroo nsible: Brian Var on: Public	Report Date: 5 ity Center m n Son, ADA Coo	/16/2017 rdinator	Barrier #: 2	25J of 1
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area:	4/20/2017 F Capitola Commun Women's Restroo nsible: Brian Var on: Public Restrooms	Report Date: 5 ity Center m n Son, ADA Coo	/16/2017 rdinator Remediat	Barrier #: 2 Dwg: 1 ion: Require	of 1 d
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type:	4/20/2017 F Capitola Commun Women's Restroo nsible: Brian Var on: Public Restrooms Changing Table - S	Report Date: 5 ity Center m n Son, ADA Coo Surface Height	/16/2017 rdinator Remediat	Barrier #: 2 Dwg: 1 ion: Require	of 1 d
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description:	4/20/2017 F Capitola Commun Women's Restroo nsible: Brian Var on: Public Restrooms Changing Table - S Table surface whe	Report Date: 5 ity Center m n Son, ADA Coo Surface Height en open not bet	/16/2017 rdinator Remediat	Barrier #: 2 Dwg: 1 ion: Require	of 1 d
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen	4/20/2017 F Capitola Commun Women's Restroo nsible: Brian Var on: Public Restrooms Changing Table - S Table surface whe ces: CBC 11B-902	Report Date: 5 ity Center m n Son, ADA Coo Gurface Height en open not bet .3 and 2010 AD	/16/2017 rdinator Remediat ween 28" and 3 AS 902.3	Barrier #: 2 Dwg: 1 ion: Require	of 1 d
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description:	4/20/2017 F Capitola Commun Women's Restroo nsible: Brian Var on: Public Restrooms Changing Table - S Table surface whe ces: CBC 11B-902 36" high and clear	Report Date: 5 ity Center m n Son, ADA Coo Surface Height en open not bet .3 and 2010 AD	/16/2017 rdinator Remediat ween 28" and 3 AS 902.3 ocked by chair	Barrier #: 2 Dwg: 1 ion: Require	of 1 d
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution:	4/20/2017 F Capitola Commun Women's Restroo nsible: Brian Var on: Public Restrooms Changing Table - S Table surface whe ces: CBC 11B-902 36" high and clean Remount existing	Report Date: 5 ity Center m n Son, ADA Coo Surface Height en open not bet .3 and 2010 AD floor space blo changing table	/16/2017 rdinator Remediat ween 28" and 3 AS 902.3 ocked by chair and remove ch	Barrier #: 2 Dwg: 1 ion: Require 34" high	25J of 1 d
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas	4/20/2017 F Capitola Commun Women's Restroo nsible: Brian Var on: Public Restrooms Changing Table - S Table surface whe ces: CBC 11B-902 36" high and clear Remount existing	Report Date: 5 ity Center m n Son, ADA Coo Surface Height en open not bet .3 and 2010 AD floor space blo changing table tity: EACH C	/16/2017 rdinator Remediat ween 28" and 3 AS 902.3 ocked by chair and remove ch Cost Estimate:	Barrier #: 2 Dwg: 1 ion: Require 34" high air \$837.00	ef 1 d BSR: 3 Hindrance
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate:	4/20/2017 F Capitola Commun Women's Restroo nsible: Brian Var on: Public Restrooms Changing Table - S Table surface whe ces: CBC 11B-902 36" high and clean Remount existing : 1 Quan	Report Date: 5 ity Center m n Son, ADA Coo Gurface Height en open not bet .3 and 2010 AD floor space blo changing table tity: EACH C Y Coordin	/16/2017 rdinator Remediat ween 28" and 3 AS 902.3 ocked by chair and remove ch Cost Estimate: ate: N/A	Barrier #: 2 Dwg: 1 ion: Require 34" high air \$837.00	of 1 d BSR: 3 Hindrance
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate: Implementati	4/20/2017 F Capitola Commun Women's Restrooms on: Public Restrooms Changing Table - S Table surface whe ces: CBC 11B-902 36" high and clean Remount existing : 1 N/A on: Priority 3	Report Date: 5 ity Center m 5 Son, ADA Coo 5 Gurface Height en open not bet .3 and 2010 AD floor space blo changing table tity: EACH C Y Coordin Phase	/16/2017 rdinator Remediat ween 28" and 3 AS 902.3 ocked by chair and remove ch Cost Estimate: ate: N/A	Barrier #: 2 Dwg: 1 ion: Require 34" high air \$837.00	5J of 1 d BSR: 3 Hindrance Z Coordinate: N/A APPROVED JOB COPY Status Openation



Field Date:	4/20/2017	Repor	rt Date:	5/16/2017	Barri	er #: 25	к [1
Facility:	Capitola Com	munity Co	enter						
Location:	Women's Res	troom							
Official Respo	nsible: Brian	ı Van Son	, ADA Coo	ordinator					
Facility Functi	on: Public					Dwg: 1 o	f 1		
Barrier Area:	Restrooms			Remedia	ation:	Required			
Barrier Type:	Self-closing D	oor							
Barrier Description:	Stall door or r	estroom	entry doc	r not equipped	d with a	a closing c	levice		
Code Referen	ces: CBC 11B-	604.8.1.2	2						
As Built Description:	Stall door not	self-closi	ng						
Proposed Solution:	Replace comp	artment	hinge wit	h adjustable m	echani	sm			
As-Built Meas	: <u>1</u> 0	uantity:	JOB	Cost Estimate:	\$259	.00	BSR: 2	Recommended	
X Coordinate:	N/A		Y Coordir	nate: N/A		Z	Coordinate	e: N/A	
Implementati	on: Priority	3	Phase		Da	te		Status Open	
Notes:									
Field Date:	4/20/2017	Repor	rt Date:	5/16/2017	Barri	er #: 25	L		1
Field Date: Facility:	4/20/2017 Capitola Com	Repor	rt Date: [5/16/2017	Barri	er #: 25	L		
Field Date: Facility: Location:	4/20/2017 Capitola Com Women's Res	Repor munity Co troom	rt Date: [5/16/2017	Barri	er #: 25	L	•	
Field Date: Facility: Location: Official Respo	4/20/2017 Capitola Com Women's Res nsible: Brian	Repor munity Co troom Van Son	rt Date: enter , ADA Coo	5/16/2017 ordinator	Barri	er #: 25			1
Field Date: Facility: Location: Official Respo Facility Functi	4/20/2017 Capitola Com Women's Res nsible: Brian on: Public	Repor munity Co troom Van Son	rt Date: [enter , ADA Coo	5/16/2017 ordinator	Barri	er #: 25 Dwg: 1 o	L		1
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area:	4/20/2017 Capitola Com Women's Res nsible: Brian on: Public Restrooms	Repor munity Co troom Van Son	rt Date: enter , ADA Coo	5/16/2017 ordinator Remedia	Barri	er #: 25 Dwg: 1 o Required	L		1
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type:	4/20/2017 Capitola Com Women's Res nsible: Brian on: Public Restrooms Stall Door Har	Repor munity Co troom Van Son	rt Date: enter , ADA Coo nner U-pu	5/16/2017 ordinator Remedia	Barri ation:	er #: 25 Dwg: 1 o Required	L		
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description:	4/20/2017 Capitola Comi Women's Res nsible: Brian on: Public Restrooms Stall Door Har Inside of com	Repor munity Co troom Van Son dware - I partment	rt Date: enter , ADA Coo nner U-pu : door lack	ordinator Remedia III ks a loop or U-p	Barri ation:	er #: 25 Dwg: 1 o Required ow latch	L		
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen	4/20/2017 Capitola Com Women's Res nsible: Brian on: Public Restrooms Stall Door Har Inside of com ces: CBC 11B-	Repor munity Co troom Van Son dware - I partment	rt Date: enter , ADA Coo nner U-pu : door lack	5/16/2017 ordinator Remedia ull ks a loop or U-p	Barri ation:	er #: 25 Dwg: 1 o Required ow latch	L		
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description:	4/20/2017 Capitola Comi Women's Res nsible: Brian on: Public Restrooms Stall Door Har Inside of com ces: CBC 11B- No u-pull prov	Repor munity Co troom Van Son dware - I partment 604.8.1.2 vided on i	rt Date: enter , ADA Coo nner U-pu : door lack	5/16/2017 ordinator Remedia III ks a loop or U-p	Barri ation:	er #: 25 Dwg: 1 o Required ow latch	L		
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution:	4/20/2017 Capitola Comi Women's Res nsible: Brian on: Public Restrooms Stall Door Har Inside of com ces: CBC 11B- No u-pull prov	Repor munity Co troom Van Son dware - I partment 604.8.1.2 vided on i liant hard	rt Date: enter , ADA Coo nner U-pu : door lack 2 inside of o dware	5/16/2017 ordinator Remedia ull ks a loop or U-p	Barri	er #: 25 Dwg: 1 o Required	L		
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas	4/20/2017 Capitola Comi Women's Res nsible: Brian on: Public Restrooms Stall Door Har Inside of com ces: CBC 11B- No u-pull prov Provide comp	Repor munity Co troom Van Son Van Son dware - I partment 604.8.1.2 vided on i liant harc	rt Date: enter , ADA Coo nner U-pu door lack nside of o dware	5/16/2017 ordinator Remedia III cs a loop or U-p door Cost Estimate:	Barri ation: bull bel	er #: 25 Dwg: 1 o Required ow latch	L	Necessary	
Field Date: Facility: Location: Official Responses Facility Function Barrier Area: Barrier Type: Barrier Description: Code Referent As Built Description: Proposed Solution: As-Built Meass X Coordinate:	4/20/2017 Capitola Comi Women's Res nsible: Brian on: Public Restrooms Stall Door Har Inside of com ces: CBC 11B- No u-pull prov Provide comp	Repor munity Co troom Van Son Van Son dware - I partment 604.8.1.2 vided on i liant haro	rt Date: enter , ADA Coo nner U-pu door lack 2 inside of o dware EACH	5/16/2017 ordinator Remedia III ks a loop or U-p door Cost Estimate: nate: N/A	Barri ation: bull bel	er #: 25 Dwg: 1 o Required ow latch	f 1 BSR: 1 Coordinate	Necessary N/A APPROVED	
Field Date: Facility: Location: Official Responsess Facility Function Barrier Area: Barrier Type: Barrier Description: Code Referent As Built Description: Proposed Solution: As-Built Meass X Coordinate: Implementati	4/20/2017 Capitola Comi Women's Res nsible: Brian on: Public Restrooms Stall Door Har Inside of com ces: CBC 11B- No u-pull prov Provide comp : 1 C N/A on: Priority	Repor munity Co troom Van Son Van Son dware - I partment 604.8.1.2 vided on i liant haro Quantity:	rt Date: [enter , ADA Coo nner U-pu : door lack inside of o dware EACH Y Coordir Phase	5/16/2017 ordinator Remedia ull ks a loop or U-p door Cost Estimate: hate: N/A	Barri ation: pull bel \$324	er #: 25 Dwg: 1 o Required ow latch .00 z	f 1 BSR: 1 Coordinate	Necessary E: N/A APPROVED JOB COPY Status Openation	



Field Date:	4/20/2017 Repo	rt Date: 5/16/2017	Barrier #: 25M	
Facility:	Capitola Community C	Center		
Location:	Women's Restroom			
Official Respo	nsible: Brian Van Sor	n, ADA Coordinator		
Facility Functi	on: Public		Dwg: 1 of 1	
Barrier Area:	Restrooms	Remedi	ation: Required	
Barrier Type:	Door Hardware - Priva	cy Latch Operation		
Barrier Description:	Privacy latch provided	requires user to grasp o	r twist to operate	
Code Referen	ces: CBC 11B-404.2.7			
As Built Description:	Hardware not fist ope	rable		
Proposed Solution:	Provide compliant doc	or latch		
As-Built Meas	. 1 Quantity:	EACH Cost Estimate:	\$270.00 BSI	R: 1 Necessary
X Coordinate:	N/A	Y Coordinate: N/A	Z Coord	inate: N/A
Implementati	on: Priority 3	Phase	Date	Status Open
Notes:				
Field Date:	4/20/2017 Repo	rt Date: 5/16/2017	Barrier #: 25N	
Field Date: Facility:	4/20/2017 Repo Capitola Community C	rt Date: 5/16/2017	Barrier #: 25N	
Field Date: Facility: Location:	4/20/2017 Repo Capitola Community C Women's Restroom	rt Date: 5/16/2017 Tenter	Barrier #: 25N	
Field Date: Facility: Location: Official Respo	4/20/2017 Repo Capitola Community C Women's Restroom nsible: Brian Van Sor	rt Date: 5/16/2017 Tenter n, ADA Coordinator	Barrier #: 25N	
Field Date: Facility: Location: Official Respo Facility Functi	4/20/2017 Repo Capitola Community C Women's Restroom nsible: Brian Van Sor on: Public	rt Date: 5/16/2017 Tenter h, ADA Coordinator	Barrier #: 25N	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area:	4/20/2017 Repo Capitola Community C Women's Restroom nsible: Brian Van Sor on: Public Restrooms	rt Date: 5/16/2017 Tenter h, ADA Coordinator Remedi	Barrier #: 25N Dwg: 1 of 1 ation: Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type:	4/20/2017 Repo Capitola Community C Women's Restroom nsible: Brian Van Sor on: Public Restrooms Coat Hook - Height	rt Date: 5/16/2017 Tenter h, ADA Coordinator Remedi	Barrier #: 25N Dwg: 1 of 1 ation: Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description:	4/20/2017 Repo Capitola Community C Women's Restroom nsible: Brian Van Sor on: Public Restrooms Coat Hook - Height Clothing hooks not ma	rt Date: 5/16/2017 Center h, ADA Coordinator Remedi	Barrier #: 25N Dwg: 1 of 1 ation: Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen	4/20/2017RepoCapitola Community CWomen's Restroomnsible:Brian Van Soron:PublicRestroomsCoat Hook - HeightClothing hooks not maces:CBC 11B-603.4, 1	rt Date: 5/16/2017 Genter h, ADA Coordinator Remedi hx. 48" high AFF 1B-308.2.1 & 2010 ADA	Barrier #: 25N Dwg: 1 of 1 ation: Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description:	4/20/2017RepoCapitola Community CWomen's Restroomnsible:Brian Van Soron:PublicRestroomsCoat Hook - HeightClothing hooks not maces:CBC 11B-603.4, 168" high	rt Date: 5/16/2017 Genter h, ADA Coordinator Remedi hx. 48" high AFF 1B-308.2.1 & 2010 ADA	Barrier #: 25N Dwg: 1 of 1 ation: Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution:	4/20/2017 Repo Capitola Community C Women's Restroom nsible: Brian Van Sor on: Public Restrooms Coat Hook - Height Clothing hooks not ma ces: CBC 11B-603.4, 1 68" high Provide additional hoce	rt Date: 5/16/2017 Tenter h, ADA Coordinator Remedi hx. 48" high AFF 1B-308.2.1 & 2010 ADA	Barrier #: 25N Dwg: 1 of 1 ation: Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas	4/20/2017 Repo Capitola Community C Women's Restroom nsible: Brian Van Sor on: Public Restrooms Coat Hook - Height Clothing hooks not ma ces: CBC 11B-603.4, 1 68" high Provide additional hoc :: 1 Quantity:	rt Date: 5/16/2017 Genter h, ADA Coordinator Remedi hx. 48" high AFF 1B-308.2.1 & 2010 ADA S ok in compliant location EACH Cost Estimate:	Barrier #: 25N Dwg: 1 of 1 ation: Required 308	R: 2 Recommende 🏹
Field Date: Facility: Location: Official Responses Facility Function Barrier Area: Barrier Type: Barrier Description: Code Referent As Built Description: Proposed Solution: As-Built Meas X Coordinate:	4/20/2017 Repo Capitola Community C Women's Restroom nsible: Brian Van Sor on: Public Restrooms Coat Hook - Height Clothing hooks not ma ces: CBC 11B-603.4, 1 68" high Provide additional hoot :: 1 Quantity: N/A	rt Date: 5/16/2017 Genter h, ADA Coordinator Remedi hx. 48" high AFF 1B-308.2.1 & 2010 ADA bk in compliant location EACH Cost Estimate: Y Coordinate: N/A	Barrier #: 25N Dwg: 1 of 1 ation: Required 308 \$135.00 BSI Z Coord	R: 2 Recommende
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate: Implementati	4/20/2017 Repo Capitola Community C Women's Restroom nsible: Brian Van Sor on: Public Restrooms Coat Hook - Height Clothing hooks not ma ces: CBC 11B-603.4, 1 68" high Provide additional hoot :: 1 Quantity: N/A on: Priority	rt Date: 5/16/2017 Tenter h, ADA Coordinator Remedi hx. 48" high AFF 1B-308.2.1 & 2010 ADA k in compliant location EACH Cost Estimate: Y Coordinate: N/A Phase	Barrier #: 25N Dwg: 1 of 1 ation: Required 308 \$135.00 BSI Z Coord Date	R: 2 Recommende



Field Date:	4/20/2017 Rep	ort Date: 5/16/2017	Barrier #: 25	0
Facility:	Capitola Community	Center		61
Location:	Women's Restroom			
Official Respo	nsible: Brian Van So	on, ADA Coordinator		
Facility Functi	on: Public		Dwg: 1 o	f 1
Barrier Area:	Restrooms	Remed	iation: Required	
Barrier Type:	Toilet Paper Dispense	er - Centerline		
Barrier Description:	Centerline of toilet ti	ssue dispenser not within	n 7" to 9" toilet se	eat front edge
Code Referen	ces: CBC 11B-604.9.6	5		
As Built Description:	13" from rim			
Proposed Solution:	Reposition or replace	e toilet paper dispenser		
As-Built Meas	: 1 Quantity	EACH Cost Estimate	: \$243.00	BSR: 3 Hindrance
X Coordinate:	N/A	Y Coordinate: N/A	Z	Coordinate: N/A
Implementati	on: Priority 3	Phase	Date	Status Open
Notes:				
Field Date:	4/20/2017 Rep	ort Date: 5/16/2017	Barrier #: 25	P
Field Date: Facility:	4/20/2017 Rep Capitola Community	ort Date: 5/16/2017 Center	Barrier #: 25	P
Field Date: Facility: Location:	4/20/2017 Rep Capitola Community Women's Restroom	ort Date: 5/16/2017 Center	Barrier #: 25	P
Field Date: Facility: Location: Official Respo	4/20/2017 Rep Capitola Community Women's Restroom nsible: Brian Van Sc	ort Date: 5/16/2017 Center on, ADA Coordinator	Barrier #: 25	P
Field Date: Facility: Location: Official Respo Facility Functi	4/20/2017 Rep Capitola Community Women's Restroom nsible: Brian Van Sc on: Public	ort Date: 5/16/2017 Center on, ADA Coordinator	Barrier #: 25	P f1
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area:	4/20/2017 Rep Capitola Community Women's Restroom nsible: Brian Van Sc on: Public Restrooms	ort Date: 5/16/2017 Center on, ADA Coordinator Remed	Barrier #: 25 Dwg: 1 o iation: Required	P f1
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type:	4/20/2017 Rep Capitola Community Women's Restroom nsible: Brian Van Sc on: Public Restrooms WC - Centerline	ort Date: 5/16/2017 Center on, ADA Coordinator Remed	Barrier #: 25 Dwg: 1 o iation: Required	P f1
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description:	4/20/2017RepCapitola CommunityWomen's Restroomnsible:Brian Van Scon:PublicRestroomsWC - CenterlineWater closet centerli	ort Date: 5/16/2017 Center on, ADA Coordinator Remed ne not between 17" and	Barrier #: 25 Dwg: 1 o iation: Required 18" measured on	P f 1 center from wall
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen	4/20/2017RepCapitola CommunityWomen's Restroomnsible:Brian Van Scon:PublicRestroomsWC - CenterlineWater closet centerlices:CBC 11B-604.2	ort Date: 5/16/2017 Center on, ADA Coordinator Remed ne not between 17" and	Barrier #: 25 Dwg: 1 o iation: Required 18" measured on	P f1 center from wall
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description:	4/20/2017RepCapitola CommunityWomen's Restroomnsible:Brian Van Scon:PublicRestroomsWC - CenterlineWater closet centerlices:CBC 11B-604.218-1/2" OC	ort Date: 5/16/2017 Center on, ADA Coordinator Remed ne not between 17" and	Barrier #: 25 Dwg: 1 o iation: Required 18" measured on	P f 1 center from wall
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution:	4/20/2017RepCapitola CommunityWomen's Restroomnsible:Brian Van Scon:PublicRestroomsWC - CenterlineWater closet centerlices:CBC 11B-604.218-1/2" OCProvide min. one acc	ort Date: 5/16/2017 Center on, ADA Coordinator Remed ne not between 17" and essible water closet	Barrier #: 25 Dwg: 1 o iation: Required 18" measured on	P f 1 center from wall
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas	4/20/2017 Rep Capitola Community Women's Restroom nsible: Brian Van Scoon: Public Restrooms WC - Centerline Water closet centerli ces: CBC 11B-604.2 18-1/2" OC Provide min. one acc :: 1 Quantity	ort Date: 5/16/2017 Center on, ADA Coordinator Remed ne not between 17" and essible water closet r: JOB Cost Estimate	Barrier #: 25 Dwg: 1 o iation: Required 18" measured on : \$918.00	P Image: Second system f 1 Image: Second system f 1 Image: Second system center from wall Image: Second system BSR: 3 Hindrance
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate:	4/20/2017 Rep Capitola Community Women's Restroom nsible: Brian Van Sc on: Public Restrooms WC - Centerline Water closet centerli ces: CBC 11B-604.2 18-1/2" OC Provide min. one acc :: 1 Quantity N/A	ort Date: 5/16/2017 Center on, ADA Coordinator Remed ne not between 17" and essible water closet r: JOB Cost Estimate Y Coordinate: N/A	Barrier #: 25 Dwg: 1 o iation: Required 18" measured on : \$918.00 Z	P Image: Second state stat
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate: Implementati	4/20/2017 Rep Capitola Community Women's Restroom nsible: Brian Van Scoon: Public Restrooms WC - Centerline Water closet centerline Water closet centerline CBC 11B-604.2 18-1/2" OC Provide min. one acc :: 1 Quantity N/A 3	ort Date: 5/16/2017 Center on, ADA Coordinator Remed ne not between 17" and essible water closet r: JOB Cost Estimate Y Coordinate: N/A Phase	Barrier #: 25 Dwg: 1 o iation: Required 18" measured on : \$918.00 Z Date	P f 1 center from wall BSR: 3 Hindrance Coordinate: N/A APPROVED JOB COPY Status OPPONED



Field Date:	4/20/2017 Repo	rt Date: 5/16/2017	Barrier #: 250	
Facility:	Capitola Community C	enter		61-
Location:	Women's Restroom			
Official Respon	nsible: Brian Van Sor	n, ADA Coordinator		
Facility Function	on: Public		Dwg: 1 of	1
Barrier Area:	Restrooms	Remedia	tion: Required	
Barrier Type:	Seat Cover Dispensers	- Above Toilet		
Barrier Description:	Seat cover dispenser c access	ontrol point or operating	mechanism not	max. 40" AFF and toilet blocks
Code Reference	ces: CBC 11B-603.5			
As Built Description:	Seat cover control poin	nt higher than 40" and cle	ear floor space at	t dispenser is blocked by toilet
Proposed Solution:	Replace or remount di	spenser		
As-Built Meas:	1 Quantity:	EACH Cost Estimate:	\$135.00	BSR: 2 Recommended
X Coordinate:	N/A	Y Coordinate: N/A	Z	Coordinate: N/A
Implementatio	on: Priority 3	Phase	Date	Status Open
Notes:				
Field Date:	4/20/2017 Repo	rt Date: 5/16/2017	Barrier #: 26	4
Field Date: Facility:	4/20/2017 Repo Capitola Community C	rt Date: 5/16/2017 enter	Barrier #: 26/	
Field Date: Facility: Location:	4/20/2017 Repo Capitola Community C Men's Restroom	rt Date: 5/16/2017 enter	Barrier #: 26	
Field Date:Facility:Location:Official Response	4/20/2017 Repo Capitola Community C Men's Restroom nsible: Brian Van Sor	rt Date: 5/16/2017 enter h, ADA Coordinator	Barrier #: 26/	
Field Date: Facility: Location: Official Respon Facility Function	4/20/2017 Repo Capitola Community C Men's Restroom nsible: Brian Van Sor on: Public	rt Date: 5/16/2017 enter n, ADA Coordinator	Barrier #: 26/	
Field Date: Facility: Location: Official Respon Facility Function Barrier Area:	4/20/2017 Repo Capitola Community C Men's Restroom nsible: Brian Van Sor on: Public Restrooms	rt Date: 5/16/2017 enter n, ADA Coordinator Remedia	Barrier #: 26/ Dwg: 1 of tion: Required	
Field Date:Facility:Location:Official ResponFacility FunctionBarrier Area:Barrier Type:	4/20/2017 Repo Capitola Community C Men's Restroom nsible: Brian Van Sor on: Public Restrooms Sign - Braille/tactile Int	rt Date: 5/16/2017 enter n, ADA Coordinator Remedia formation	Barrier #: 26/ Dwg: 1 of tion: Required	
Field Date: Facility: Location: Official Respon Facility Function Barrier Area: Barrier Type: Barrier Description:	4/20/2017 Repo Capitola Community C Men's Restroom nsible: Brian Van Sor on: Public Restrooms Sign - Braille/tactile Int No sign with Braille/Ta	rt Date: 5/16/2017 enter h, ADA Coordinator Remedia formation ectile information provide	Barrier #: 26/ Dwg: 1 of tion: Required	A 1 troom
Field Date: Facility: Location: Official Respon Facility Function Barrier Area: Barrier Type: Barrier Description: Code Reference	4/20/2017 Repo Capitola Community C Men's Restroom nsible: Brian Van Sor on: Public Restrooms Sign - Braille/tactile Int No sign with Braille/Ta ces: CBC 11B-216.2 an	rt Date: 5/16/2017 enter n, ADA Coordinator Remedia formation actile information provide d ADAS 216.2	Barrier #: 26/ Dwg: 1 of tion: Required	A 1 troom
Field Date: Facility: Location: Official Respon Facility Function Barrier Area: Barrier Type: Barrier Description: Code Reference As Built Description:	4/20/2017 Repo Capitola Community C Men's Restroom nsible: Brian Van Sor on: Public Restrooms Sign - Braille/tactile Int No sign with Braille/Ta ces: CBC 11B-216.2 an No tactile information	rt Date: 5/16/2017 enter h, ADA Coordinator Remedia formation actile information provide d ADAS 216.2 at wall on latch side of de	Barrier #: 26/ Dwg: 1 of tion: Required	A 1 troom
Field Date: Facility: Location: Official Respon Facility Function Barrier Area: Barrier Type: Barrier Description: Code Reference As Built Description: Proposed Solution:	4/20/2017 Repo Capitola Community C Men's Restroom nsible: Brian Van Sor on: Public Restrooms Sign - Braille/tactile Inf No sign with Braille/Ta ces: CBC 11B-216.2 an No tactile information Move existing sign or p	rt Date: 5/16/2017 enter h, ADA Coordinator Remedia formation actile information provide d ADAS 216.2 at wall on latch side of de provide new sign	Barrier #: 26/ Dwg: 1 of tion: Required	A I I I I I I I I I I I I I I I I I I I
Field Date: Facility: Location: Official Respon Facility Function Barrier Area: Barrier Type: Barrier Description: Code Reference As Built Description: Proposed Solution: As-Built Meas:	4/20/2017 Repo Capitola Community C Men's Restroom nsible: Brian Van Sor prion: Public Restrooms Sign - Braille/tactile Info No sign with Braille/Ta ces: CBC 11B-216.2 an No tactile information Move existing sign or p 1 Quantity:	rt Date: 5/16/2017 enter h, ADA Coordinator Remedia formation actile information provide id ADAS 216.2 at wall on latch side of de provide new sign EACH Cost Estimate:	Barrier #: 26/ Dwg: 1 of tion: Required ed to identify rest	A 1 troom BSR: 1 Necessary
Field Date:Facility:Location:Official ResponseFacility FunctionBarrier Area:Barrier Type:Barrier Description:Code ReferenceAs BuiltDescription:ProposedSolution:As-Built Meas:X Coordinate:	4/20/2017 Repo Capitola Community C Men's Restroom nsible: Brian Van Sor on: Public Restrooms Sign - Braille/tactile Inf No sign with Braille/Ta ces: CBC 11B-216.2 an No tactile information Move existing sign or p 1 Quantity: N/A	rt Date: 5/16/2017 enter h, ADA Coordinator Remedia formation hctile information provide d ADAS 216.2 at wall on latch side of de provide new sign EACH Cost Estimate: Y Coordinate: N/A	Barrier #: 26/ Dwg: 1 of tion: Required d to identify rest oor \$270.00	A 1 troom BSR: 1 Necessary Coordinate: N/A APPROVED
Field Date:Facility:Location:Official ResponseFacility FunctionBarrier Area:Barrier Type:Barrier Type:Code ReferenceAs BuiltDescription:ProposedSolution:As-Built Meas:X Coordinate:	4/20/2017 Repo Capitola Community C Men's Restroom nsible: Brian Van Sor on: Public Restrooms Sign - Braille/tactile Inf No sign with Braille/Ta ees: CBC 11B-216.2 an No tactile information Move existing sign or p 1 Quantity: N/A on: Priority 3	rt Date: 5/16/2017 enter h, ADA Coordinator Remedia formation httle information provide d ADAS 216.2 at wall on latch side of de provide new sign EACH Cost Estimate: Y Coordinate: N/A Phase	Barrier #: 26/ Dwg: 1 of tion: Required d to identify rest oor \$270.00 Z (Date	A 1 BSR: 1 Necessary Coordinate: N/A APPROVED JOB COPY Status Open.



Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 26B
Facility: Capitola Community Center
Location: Men's Restroom
Official Responsible: Brian Van Son, ADA Coordinator
Facility Function: Public Dwg: 1 of 1
Barrier Area: Restrooms Remediation: Required
Barrier Type: Door Closer - Adjustment
Barrier Door opening force exceeds 5 lbf Description:
Code References: CBC 11B-404.2.9
As Built 8 lbf and door swing catches on floor mat inside room Description:
Proposed Adjust existing closer and more floor mat Solution:
As-Built Meas: 1 Quantity: EACH Cost Estimate: \$486.00 BSR: 1 Necessary
X Coordinate: N/A Y Coordinate: N/A Z Coordinate: N/A
Implementation: Priority 3 Phase Date Date Status Open
Notes:
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 26C
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 26C Facility: Capitola Community Center Capitola Community Center
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 26C Facility: Capitola Community Center Image: Capitola Community Center Image: Capitola Community Center Image: Capitola Community Center Location: Men's Restroom Image: Capitola Community Center Image: Capitola Community Center Image: Capitola Community Center
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 26C Facility: Capitola Community Center
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 26C Facility: Capitola Community Center
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 26C Facility: Capitola Community Center
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 26C Facility: Capitola Community Center Location: Men's Restroom Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: 1 of 1 Barrier Area: Restrooms Restrooms Remediation: Remediation: Required
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 26C Facility: Capitola Community Center Location: Men's Restroom Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: 1 of 1 Barrier Area: Restrooms Remediation: Required Barrier Type: Door Closer - Sweep Period Earrier Barrier Door closer does not provide min. 5 second sweep period
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 26C Facility: Capitola Community Center
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 26C Facility: Capitola Community Center Location: Men's Restroom Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: 1 of 1 Barrier Area: Restrooms Remediation: Required Barrier Type: Door Closer - Sweep Period Each of the second sweep period Barrier Door closer does not provide min. 5 second sweep period Code Reference:: CBC 11B-404.2.8.1 As Built 2 second sweep and door swing catches on floor mat inside room
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 26C Facility: Capitola Community Center Location: Men's Restroom Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: 1 of 1 Barrier Area: Restrooms Remediation: Required Barrier Type: Door Closer - Sweep Period Earrier Barrier area: CBC 11B-404.2.8.1 As Built Description: 2 second sweep and door swing catches on floor mat inside room Proposed Solution: Adjust existing closer and more floor mat Solution:
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 26C Facility: Capitola Community Center Location: Men's Restroom Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Barrier Area: Restrooms Barrier Type: Door Closer - Sweep Period Barrier Door closer does not provide min. 5 second sweep period Description: Code References: CBC 11B-404.2.8.1 As Built Description: Proposed Adjust existing closer and more floor mat Solution: As-Built Meas: 0 Quantity: EACH Cost Estimate: \$0.00 BSR: 1 Necessary
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 26C Facility: Capitola Community Center Location: Men's Restroom Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: 1 of 1 Barrier Area: Restrooms Barrier Type: Door Closer - Sweep Period Barrier Door closer does not provide min. 5 second sweep period Code References: CBC 11B-404.2.8.1 As Built 2 second sweep and door swing catches on floor mat inside room Description: Proposed Adjust existing closer and more floor mat Solution: As-Built Meas: 0 Quantity: EACH Cost Estimate: \$0.00 BSR: 1 Necessary X Coordinate: N/A
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 26C Facility: Capitola Community Center



Field Date:	4/20/2017 Repo	ort Date: 5/16/2017	Barrier #: 26D	
Facility:	Capitola Community C	Center		
Location:	Men's Restroom			
Official Respon	sible: Brian Van Sor	n, ADA Coordinator		
Facility Functio	n: Public		Dwg: 1 of 1	
Barrier Area:	Restrooms	Remedi	iation: Required	
Barrier Type:	Doormat - Non-recess	ed		
Barrier Description:	Doormat not anchore	d to floor (trip hazard)		
Code Reference	es: CBC 11B-302.2			
As Built Description:	Door mat not secured	or recessed		
Proposed Solution:	Replace doormat or a	nchor existing		
As-Built Meas:	1 Quantity:	EACH Cost Estimate:	\$540.00 BSF	R: 1 Necessary
X Coordinate:	N/A	Y Coordinate: N/A	Z Coord	inate: N/A
Implementatio	n: Priority 3	Phase	Date	Status Open
Notes:				
Field Date:	4/20/2017 Repo	ort Date: 5/16/2017	Barrier #: 26E	
Field Date:	4/20/2017 Repo Capitola Community C	ort Date: 5/16/2017 Center	Barrier #: 26E	
Field Date: Facility:	4/20/2017 Repo Capitola Community C Men's Restroom	ort Date: 5/16/2017 Center	Barrier #: 26E	
Field Date: Facility: Location: Official Respon	4/20/2017 Repo Capitola Community C Men's Restroom sible: Brian Van Sor	ort Date: 5/16/2017 Center n, ADA Coordinator	Barrier #: 26E	
Field Date: Facility: Location: Official Respon Facility Functio	4/20/2017 Repo Capitola Community C Men's Restroom sible: Brian Van Sor n: Public	ort Date: 5/16/2017 Center n, ADA Coordinator	Barrier #: 26E	
Field Date: Facility: Cocation: Gificial Respon Facility Functio Barrier Area:	4/20/2017 Repo Capitola Community C Men's Restroom sible: Brian Van Sor n: Public Restrooms	ort Date: 5/16/2017 Center h, ADA Coordinator Remedi	Barrier #: 26E Dwg: 1 of 1 iation: Required	
Field Date: Facility: Location: Official Respon Facility Functio Barrier Area: Barrier Type:	4/20/2017 Repo Capitola Community C Men's Restroom sible: Brian Van Sor n: Public Restrooms Dispensers - Protrudin	ort Date: 5/16/2017 Center n, ADA Coordinator Remeding Object	Barrier #: 26E Dwg: 1 of 1 iation: Required	
Field Date: Facility: Location: Official Respon Facility Functio Barrier Area: Barrier Type: Barrier Description:	4/20/2017 Repo Capitola Community C Men's Restroom sible: Brian Van Sor n: Public Restrooms Dispensers - Protrudir Dispenser creates pro	ort Date: 5/16/2017 Center n, ADA Coordinator Remeding Object truding hazard in path or	Barrier #: 26E Dwg: 1 of 1 iation: Required	
Field Date: Facility: Location: Official Respon Facility Functio Barrier Area: Barrier Type: Barrier Description: Code Reference	4/20/2017 Repo Capitola Community C Men's Restroom sible: Brian Van Sor n: Public Restrooms Dispensers - Protrudir Dispenser creates pro es: CBC 11B-307.2	ort Date: 5/16/2017 Center n, ADA Coordinator Remeding Object truding hazard in path or	Barrier #: 26E Dwg: 1 of 1 iation: Required	
Field Date: Facility: Location: Official Respon Facility Functio Barrier Area: Barrier Type: Barrier Description: Code Reference As Built Description:	4/20/2017 Repo Capitola Community C Men's Restroom sible: Brian Van Sor n: Public Restrooms Dispensers - Protrudir Dispenser creates pro es: CBC 11B-307.2 Paper towel dispenser from wall	ort Date: 5/16/2017 Center n, ADA Coordinator Remeding Object truding hazard in path or r protrudes 9-1/2" where	Barrier #: 26E Dwg: 1 of 1 iation: Required f travel	acle protrudes only 4-1/2"
Field Date: Facility: Location: Official Respon Facility Functio Barrier Area: Barrier Type: Barrier Description: Code Reference As Built Description: Proposed Solution:	4/20/2017 Repo Capitola Community C Men's Restroom sible: Brian Van Sor n: Public Restrooms Dispensers - Protrudir Dispenser creates pro es: CBC 11B-307.2 Paper towel dispenser from wall Relocate/remount dis	ort Date: 5/16/2017 Center h, ADA Coordinator Remeding Object truding hazard in path or r protrudes 9-1/2" where penser or provide detect	Barrier #: 26E Dwg: 1 of 1 iation: Required f travel e recessed trash recepta table warning	acle protrudes only 4-1/2"
Field Date: Facility: Location: Official Respon Facility Functio Barrier Area: Barrier Type: Barrier Description: Code Reference As Built Description: Proposed Solution: As-Built Meas:	4/20/2017 Repo Capitola Community C Men's Restroom sible: Brian Van Sor n: Public Restrooms Dispensers - Protrudir Dispenser creates pro es: CBC 11B-307.2 Paper towel dispenser from wall Relocate/remount dis	ort Date: 5/16/2017 Center n, ADA Coordinator Remeding Object truding hazard in path or penser or provide detect EACH Cost Estimate:	Barrier #: 26E Dwg: 1 of 1 iation: Required f travel e recessed trash recepta table warning : \$135.00 BSF	Acle protrudes only 4-1/2"
Field Date: Facility: Location: Official Respon Facility Functio Barrier Area: Barrier Type: Barrier Description: Code Reference As Built Description: Proposed Solution: As-Built Meas: X Coordinate:	4/20/2017 Repo Capitola Community C Men's Restroom sible: Brian Van Sor n: Public Restrooms Dispensers - Protrudin Dispenser creates pro es: CBC 11B-307.2 Paper towel dispenser from wall Relocate/remount dis	ort Date: 5/16/2017 Center n, ADA Coordinator Remeding Object truding hazard in path or penser or provide detect EACH Cost Estimate: Y Coordinate: N/A	Barrier #: 26E Dwg: 1 of 1 iation: Required f travel e recessed trash recepta table warning : \$135.00 BSF Z Coord	Acle protrudes only 4-1/2"
Field Date: Facility: Location: Official Respon Facility Functio Barrier Area: Barrier Type: Barrier Type: Barrier Description: Code Reference As Built Description: Proposed Solution: As-Built Meas: X Coordinate: Implementatio	4/20/2017 Repo Capitola Community C Men's Restroom sible: Brian Van Sor n: Public Restrooms Dispensers - Protrudin Dispenser creates pro es: CBC 11B-307.2 Paper towel dispenser from wall Relocate/remount dis 1 Quantity: N/A n: Priority 3	ort Date: 5/16/2017 Center h, ADA Coordinator Remeding Object truding hazard in path of penser or provide detect EACH Cost Estimate: Y Coordinate: N/A Phase	Barrier #: 26E Dwg: 1 of 1 iation: Required f travel e recessed trash recepta table warning : \$135.00 BSF Z Coord Date	Acle protrudes only 4-1/2" A: 2 Recommende Control Action Approved Job Copy Status Open Action Approved Job Copy



Field Date:	4/20/2017 Repo	rt Date: 5/16/2017	Barrier #	#: 26F	
Facility:	Capitola Community C	enter			
Location:	Men's Restroom				
Official Respo	nsible: Brian Van Sor	n, ADA Coordinator			
Facility Functi	on: Public		Dw	g: 1 of 1	
Barrier Area:	Restrooms	Remedia	tion: Re	quired	
Barrier Type:	Dispensers - Control P	oint			
Barrier Description:	Dispenser control poir	nt or operating mechanis	n not max	«. 40" AFF	
Code Referen	ces: CBC 11B-603.5				
As Built Description:	Paper towel dispenser	control point 45" high. S	oap dispe	nser control p	oint 44" high
Proposed Solution:	Replace or remount di	spenser			
As-Built Meas	: 2 Quantity:	EACH Cost Estimate:	\$270.00	BSR:	2 Recommended
X Coordinate:	N/A	Y Coordinate: N/A		Z Coordir	ate: N/A
Implementati	on: Priority 3	Phase	Date		Status Open
Notes:					
			_		
Field Date:	4/20/2017 Repo	rt Date: 5/16/2017	Barrier #	#: 26G	
Field Date: Facility:	4/20/2017 Repo Capitola Community C	rt Date: 5/16/2017 enter	Barrier #	#: 26G	
Field Date: Facility: Location:	4/20/2017 Repo Capitola Community C Men's Restroom	rt Date: 5/16/2017 enter	Barrier #	#: 26G	
Field Date: Facility: Location: Official Respo	4/20/2017 Repo Capitola Community C Men's Restroom nsible: Brian Van Sor	rt Date: 5/16/2017 Tenter n, ADA Coordinator	Barrier #	#: 26G	
Field Date: Facility: Location: Official Respo Facility Functi	4/20/2017 Repo Capitola Community C Men's Restroom nsible: Brian Van Sor on: Public	rt Date: 5/16/2017 enter h, ADA Coordinator	Barrier #	#: 26G g: 1 of 1	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area:	4/20/2017 Repo Capitola Community C Men's Restroom nsible: Brian Van Sor on: Public Restrooms	rt Date: 5/16/2017 enter h, ADA Coordinator Remedia	Barrier # Dw ation: Rea	#: 26G g: 1 of 1 quired	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type:	4/20/2017 Repo Capitola Community C Men's Restroom nsible: Brian Van Sor on: Public Restrooms Lavatory - Knee Cleara	rt Date: 5/16/2017 enter h, ADA Coordinator Remedia nce	Barrier # Dw ation: Rea	#: 26G g: 1 of 1 quired	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description:	4/20/2017 Repo Capitola Community C Men's Restroom nsible: Brian Van Sor on: Public Restrooms Lavatory - Knee Cleara Lavatory bottom aprop	rt Date: 5/16/2017 enter h, ADA Coordinator Remedia nce n/edge not max 29" redu	Barrier # Dw ation: Rea cing to 27	#: 26G g: 1 of 1 quired " at 8" back fr	om edge
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen	4/20/2017 Repo Capitola Community C Men's Restroom nsible: Brian Van Sor on: Public Restrooms Lavatory - Knee Cleara Lavatory bottom aprop ces: CBC 11B-306	rt Date: 5/16/2017 enter h, ADA Coordinator Remedia nce n/edge not max 29" redu	Barrier # Dw ation: Rea cing to 27	#: 26G g: 1 of 1 quired " at 8" back fr	om edge
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description:	4/20/2017RepoCapitola Community CMen's Restroomnsible:Brian Van Soron:PublicRestroomsLavatory - Knee ClearaLavatory bottom aproces:CBC 11B-30628" high at rim	rt Date: 5/16/2017 enter h, ADA Coordinator Remedia nce n/edge not max 29" redu	Barrier # Dw ation: Rea cing to 27	#: 26G g: 1 of 1 quired	om edge
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution:	4/20/2017RepoCapitola Community CMen's Restroomnsible:Brian Van Soron:PublicRestroomsLavatory - Knee ClearaLavatory bottom apropces:CBC 11B-30628" high at rimProvide min. one acce	rt Date: 5/16/2017 enter n, ADA Coordinator Remedia nce n/edge not max 29" redu	Barrier # Dw ntion: Rea cing to 27	#: 26G g: 1 of 1 quired " at 8" back fr	om edge
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas	4/20/2017RepoCapitola Community CMen's Restroomnsible:Brian Van Soron:PublicRestroomsLavatory - Knee ClearaLavatory bottom aproces:CBC 11B-30628" high at rimProvide min. one acce:1Quantity:	rt Date: 5/16/2017 enter h, ADA Coordinator Remedia nce n/edge not max 29" redu ssible lavatory	Barrier # Dw ation: Red cing to 27	#: 26G g: 1 of 1 quired " at 8" back fr	om edge
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate:	4/20/2017 Repo Capitola Community C Men's Restroom nsible: Brian Van Sor on: Public Restrooms Lavatory - Knee Cleara Lavatory bottom aproces: CBC 11B-306 28" high at rim Provide min. one acce : 1 Quantity: N/A	rt Date: 5/16/2017 enter h, ADA Coordinator Remedia nce n/edge not max 29" redu ssible lavatory JOB Cost Estimate: Y Coordinate: N/A	Barrier # Dw ation: Rea cing to 27	#: 26G g: 1 of 1 quired " at 8" back fr BSR: Z Coordir	om edge
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate: Implementatio	4/20/2017 Repo Capitola Community C Men's Restroom nsible: Brian Van Sor on: Public Restrooms Lavatory - Knee Cleara Lavatory bottom aproces: CBC 11B-306 28" high at rim Provide min. one acce : 1 Quantity: N/A on: Priority	rt Date: 5/16/2017 enter h, ADA Coordinator Remedia ince n/edge not max 29" redu ssible lavatory JOB Cost Estimate: Y Coordinate: N/A Phase	Barrier # Dw ation: Rea cing to 27 \$486.00	#: 26G g: 1 of 1 quired " at 8" back fr BSR: Z Coordir	om edge



Ticlu Date.	4/20/2017 Repo	rt Date: 5/16/2017	Barrier #: 26H	
Facility:	Capitola Community C	enter		
Location:	Men's Restroom			
Official Respon	nsible: Brian Van Sor	n, ADA Coordinator		
Facility Function	on: Public		Dwg: 1 of 1	and the second
Barrier Area:	Restrooms	Reme	diation: Required	
Barrier Type:	Lavatory - Drainpipes			
Barrier Description:	Hot water and drainpi	pes accessible under la	vatory not insulated or	covered
Code Reference	ces: CBC 11B-606.5			
As Built Description:	No insulation provided	ł		
Proposed Solution:	Insulate drainpipes an	d hot water pipes		
As-Built Meas	Quantity:	EACH Cost Estimate	e: \$238.00 BS	SR: 2 Recommended
X Coordinate:	N/A	Y Coordinate: N/A	Z Coor	dinate: N/A
Implementatio	on: Priority 3	Phase	Date	Status Open
Notes:				
Field Date:	4/20/2017 Repo	rt Date: 5/16/2017	Barrier #: 26I	
Field Date: Facility:	4/20/2017 Repo Capitola Community C	rt Date: 5/16/2017 enter	Barrier #: 261	
Field Date: Facility: Location:	4/20/2017 Repo Capitola Community C Men's Restroom	rt Date: 5/16/2017 enter	Barrier #: 261	MF
Field Date: Facility: Location: Official Respon	4/20/2017 Repo Capitola Community C Men's Restroom nsible: Brian Van Sor	rt Date: 5/16/2017 enter h, ADA Coordinator	Barrier #: 261	F
Field Date: Facility: Location: Official Respon Facility Function	4/20/2017 Repo Capitola Community C Men's Restroom nsible: Brian Van Sor on: Public	rt Date: 5/16/2017 enter h, ADA Coordinator	Barrier #: 261	F
Field Date: Facility: Location: Official Respon Facility Function Barrier Area:	4/20/2017 Repo Capitola Community C Men's Restroom nsible: Brian Van Sor on: Public Restrooms	rt Date: 5/16/2017 enter n, ADA Coordinator Reme	Barrier #: 261 Dwg: 1 of 1 diation: Required	
Field Date: Facility: Location: Official Respon Facility Function Barrier Area: Barrier Type:	4/20/2017 Repo Capitola Community C Men's Restroom nsible: Brian Van Sor on: Public Restrooms Self-closing Door	rt Date: 5/16/2017 enter n, ADA Coordinator Reme	Barrier #: 261 Dwg: 1 of 1 diation: Required	
Field Date: Facility: Location: Official Respon Facility Function Barrier Area: Barrier Type: Barrier Description:	4/20/2017 Repo Capitola Community C Men's Restroom nsible: Brian Van Sor on: Public Restrooms Self-closing Door Stall door or restroom	rt Date: 5/16/2017 enter n, ADA Coordinator Reme entry door not equipp	Barrier #: 261 Dwg: 1 of 1 diation: Required ed with a closing device	
Field Date: Facility: Location: Official Respon Facility Function Barrier Area: Barrier Type: Barrier Description: Code Reference	4/20/2017 Repo Capitola Community C Men's Restroom nsible: Brian Van Sor on: Public Restrooms Self-closing Door Stall door or restroom ces: CBC 11B-604.8.1.	rt Date: 5/16/2017 enter n, ADA Coordinator Reme entry door not equipp	Barrier #: 261 Dwg: 1 of 1 diation: Required ed with a closing device	
Field Date: Facility: Location: Official Respon Facility Function Barrier Area: Barrier Type: Barrier Description: Code Reference As Built Description:	4/20/2017 Repo Capitola Community C Men's Restroom nsible: Brian Van Sor on: Public Restrooms Self-closing Door Stall door or restroom ces: CBC 11B-604.8.1.3 Stall door not self-clos	rt Date: 5/16/2017 enter n, ADA Coordinator entry door not equipp 2 ing	Barrier #: 261 Dwg: 1 of 1 diation: Required ed with a closing device	
Field Date: Facility: Location: Official Respon Facility Function Barrier Area: Barrier Type: Barrier Description: Code Reference As Built Description: Proposed Solution:	4/20/2017 Repo Capitola Community C Men's Restroom nsible: Brian Van Sor on: Public Restrooms Self-closing Door Stall door or restroom ces: CBC 11B-604.8.1. Stall door not self-clos Replace compartment	rt Date: 5/16/2017 enter h, ADA Coordinator entry door not equipp 2 ing hinge with adjustable	Barrier #: 261 Dwg: 1 of 1 diation: Required ed with a closing device	
Field Date: Facility: Location: Official Respond Facility Function Barrier Area: Barrier Type: Barrier Description: Code Reference As Built Description: Proposed Solution: As-Built Meas	4/20/2017 Repo Capitola Community C Men's Restroom nsible: Brian Van Sor pristrooms Self-closing Door Stall door or restroom ces: CBC 11B-604.8.1.3 Stall door not self-clos Replace compartment 1 Quantity:	rt Date: 5/16/2017 enter h, ADA Coordinator entry door not equipp 2 ing hinge with adjustable	Barrier #: 261 Dwg: 1 of 1 diation: Required ed with a closing device mechanism e: \$259.00 BS	SR: 2 Recommende
Field Date: Facility: Location: Official Respon Facility Function Barrier Area: Barrier Type: Barrier Description: Code Reference As Built Description: Proposed Solution: As-Built Meas X Coordinate:	4/20/2017 Repo Capitola Community C Men's Restroom nsible: Brian Van Sor on: Public Restrooms Self-closing Door Stall door or restroom ces: CBC 11B-604.8.1.7 Stall door not self-clos Replace compartment	rt Date: 5/16/2017 enter h, ADA Coordinator entry door not equipp 2 ing hinge with adjustable JOB Cost Estimate Y Coordinate: N/A	Barrier #: 261 Dwg: 1 of 1 diation: Required ed with a closing device mechanism e: \$259.00 BS Z Coor	SR: 2 Recommende
Field Date: Facility: Location: Official Respon Facility Function Barrier Area: Barrier Type: Barrier Description: Code Reference As Built Description: Proposed Solution: As-Built Meass X Coordinate:	4/20/2017 Repo Capitola Community C Men's Restroom nsible: Brian Van Sor on: Public Restrooms Self-closing Door Stall door or restroom Stall door not self-clos Replace compartment 1 Quantity: N/A on: Priority 3	rt Date: 5/16/2017 enter h, ADA Coordinator entry door not equipp 2 ing hinge with adjustable JOB Cost Estimato Y Coordinate: N/A Phase	Barrier #: 261 Dwg: 1 of 1 diation: Required ed with a closing device mechanism e: \$259.00 BS Z Coord Date	SR: 2 Recommende


Field Date:	4/20/2017 Repo	rt Date: 5/16/2017	Barrier #: 26J	
Facility:	Capitola Community C	enter		
Location:	Men's Restroom			A
Official Respo	nsible: Brian Van Son	, ADA Coordinator		A Contraction of the second se
Facility Functi	on: Public		Dwg: 1 of 1	
Barrier Area:	Restrooms	Remediat	on: Required	
Barrier Type:	Stall Door Hardware -	nner U-pull		
Barrier Description:	Inside of compartment	t door lacks a loop or U-pu	ll below latch	
Code Referen	ces: CBC 11B-604.8.1.2	2		
As Built Description:	No u-pull provided on	inside of door		
Proposed Solution:	Provide compliant har	dware		
As-Built Meas	: 1 Quantity:	EACH Cost Estimate:	\$324.00 BSR	1 Necessary
X Coordinate:	N/A	Y Coordinate: N/A	Z Coordi	nate: N/A
Implementati	on: Priority 3	Phase	Date	Status Open
Notes:				
,				
Field Date:	4/20/2017 Repo	rt Date: 5/16/2017	Barrier #: 26K	
Field Date: Facility:	4/20/2017 Repo Capitola Community C	rt Date: 5/16/2017 enter	Barrier #: 26K	
Field Date: Facility: Location:	4/20/2017 Repo Capitola Community C Men's Restroom	rt Date: 5/16/2017 enter	Barrier #: 26K	
Field Date: Facility: Location: Official Respo	4/20/2017 Repo Capitola Community C Men's Restroom nsible: Brian Van Son	rt Date: 5/16/2017 enter , ADA Coordinator	Barrier #: 26K	
Field Date: Facility: Location: Official Respo Facility Functi	4/20/2017 Repo Capitola Community C Men's Restroom nsible: Brian Van Son on: Public	rt Date: 5/16/2017 enter , ADA Coordinator	Barrier #: 26K	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area:	4/20/2017 Repo Capitola Community C Men's Restroom nsible: Brian Van Son on: Public Restrooms	rt Date: 5/16/2017 enter , ADA Coordinator Remediati	Barrier #: 26K Dwg: 1 of 1 on: Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type:	4/20/2017 Report Capitola Community	rt Date: 5/16/2017 enter , ADA Coordinator Remediati - Centerline	Barrier #: 26K Dwg: 1 of 1 on: Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description:	4/20/2017 Report Capitola Community	rt Date: 5/16/2017 enter , ADA Coordinator Remediati - Centerline ue dispenser not within 7	Barrier #: 26K Dwg: 1 of 1 on: Required	t edge
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen	4/20/2017ReportCapitola Community CMen's Restroomnsible:Brian Van Sonon:PublicRestroomsToilet Paper DispenserCenterline of toilet tissces:CBC 11B-604.9.6	rt Date: 5/16/2017 enter , ADA Coordinator Remediati - Centerline ue dispenser not within 7'	Barrier #: 26K Dwg: 1 of 1 on: Required	t edge
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description:	4/20/2017ReportCapitola Community CMen's Restroomnsible:Brian Van Sonon:PublicRestroomsToilet Paper DispenserCenterline of toilet tissces:CBC 11B-604.9.613" from rim	rt Date: 5/16/2017 enter , ADA Coordinator Remediati - Centerline ue dispenser not within 7	Barrier #: 26K Dwg: 1 of 1 on: Required	t edge
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution:	4/20/2017 Report Capitola Community C Men's Restroom Men's Restroom Brian Van Son on: Public Restrooms Toilet Paper Dispenser Centerline of toilet tiss Centerline of toilet tiss ces: CBC 11B-604.9.6 13" from rim Reposition or replace to the second se	rt Date: 5/16/2017 enter , ADA Coordinator Remediati - Centerline ue dispenser not within 7'	Barrier #: 26K Dwg: 1 of 1 on: Required	t edge
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas	4/20/2017 Report Capitola Community C Men's Restroom nsible: Brian Van Son on: Public Restrooms Toilet Paper Dispenser Centerline of toilet tiss ces: CBC 11B-604.9.6 13" from rim Reposition or replace t :: 1 Quantity:	rt Date: 5/16/2017 enter , ADA Coordinator Remediati - Centerline ue dispenser not within 7' coilet paper dispenser	Barrier #: 26K Dwg: 1 of 1 on: Required ' to 9" toilet seat fron \$243.00 BSR	t edge
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate:	4/20/2017 Repo Capitola Community C Men's Restroom Men's Restroom Brian Van Son on: Public Restrooms Toilet Paper Dispenser Centerline of toilet tiss ces: CBC 11B-604.9.6 13" from rim Reposition or replace t 1 Quantity: N/A	rt Date: 5/16/2017 enter , ADA Coordinator Remediati - Centerline ue dispenser not within 7 th coilet paper dispenser EACH Cost Estimate: Y Coordinate: N/A	Barrier #: 26K Dwg: 1 of 1 on: Required ' to 9" toilet seat fron \$243.00 BSR Z Coordi	t edge
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate: Implementati	4/20/2017 Repo Capitola Community C Men's Restroom Men's Restroom Brian Van Son on: Public Restrooms Toilet Paper Dispenser Centerline of toilet tiss Centerline of toilet tiss ces: CBC 11B-604.9.6 13" from rim Reposition or replace t :: 1 Quantity: N/A 3	rt Date: 5/16/2017 enter , ADA Coordinator Remediati - Centerline ue dispenser not within 7' coilet paper dispenser EACH Cost Estimate: Y Coordinate: N/A Phase	Barrier #: 26K Dwg: 1 of 1 on: Required ' to 9" toilet seat fron \$243.00 BSR Z Coordi Date	t edge



Field Date:	4/20/2017 Repo	rt Date: 5/16/2017	Barrier #: 26L	
Facility:	Capitola Community C	enter		
Location:	Men's Restroom			
Official Respo	nsible: Brian Van Son	, ADA Coordinator		S ATTA
Facility Functi	on: Public		Dwg: 1 of 1	
Barrier Area:	Restrooms	Remedia	tion: Required	
Barrier Type:	WC - Handle Location			
Barrier Description:	Handle does not point	to wide side of stall or co	ompartment	
Code Referen	ces: CBC 11B-604.6			
As Built Description:	Handle points towards	wall or partition		
Proposed Solution:	Provide min. one acces	ssible water closet		
As-Built Meas	: 1 Quantity:	JOB Cost Estimate:	\$918.00	BSR: 1 Necessary
X Coordinate:	N/A	Y Coordinate: N/A	Z Co	ordinate: N/A
Implementati	on: Priority 3	Phase	Date	Status Open
Notes:				
Field Date:	4/20/2017 Repo	rt Date: 5/16/2017	Barrier #: 26M	
Field Date: Facility:	4/20/2017 Repo Capitola Community C	rt Date: 5/16/2017 enter	Barrier #: 26M	
Field Date: Facility: Location:	4/20/2017 Repo Capitola Community C Men's Restroom	rt Date: 5/16/2017 enter	Barrier #: 26M	
Field Date: Facility: Location: Official Respo	4/20/2017 Repo Capitola Community C Men's Restroom nsible: Brian Van Sor	rt Date: 5/16/2017 enter , ADA Coordinator	Barrier #: 26M	
Field Date: Facility: Location: Official Respo Facility Functi	4/20/2017 Repo Capitola Community C Men's Restroom nsible: Brian Van Son on: Public	rt Date: 5/16/2017 enter , ADA Coordinator	Barrier #: 26M	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area:	4/20/2017 Repo Capitola Community C Men's Restroom nsible: Brian Van Son on: Public Restrooms	rt Date: 5/16/2017 enter n, ADA Coordinator Remedia	Barrier #: 26M Dwg: 1 of 1 tion: Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type:	4/20/2017 Repo Capitola Community C Men's Restroom nsible: Brian Van Son on: Public Restrooms WC - Centerline	rt Date: 5/16/2017 enter , ADA Coordinator Remedia	Barrier #: 26M Dwg: 1 of 1 tion: Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description:	4/20/2017 Repo Capitola Community C Men's Restroom nsible: Brian Van Son on: Public Restrooms WC - Centerline Water closet centerlin	rt Date: 5/16/2017 enter , ADA Coordinator Remedia e not between 17" and 18	Barrier #: 26M Dwg: 1 of 1 tion: Required B" measured on ce	Inter from wall
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen	4/20/2017 Repo Capitola Community C Men's Restroom nsible: Brian Van Sor on: Public Restrooms WC - Centerline Water closet centerlin ces: CBC 11B-604.2	rt Date: 5/16/2017 enter , ADA Coordinator Remedia e not between 17" and 18	Barrier #: 26M Dwg: 1 of 1 tion: Required 3" measured on ce	Inter from wall
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description:	4/20/2017 Repo Capitola Community C Men's Restroom nsible: Brian Van Son on: Public Restrooms WC - Centerline Water closet centerlin ces: CBC 11B-604.2 18-1/2" OC	rt Date: 5/16/2017 enter , ADA Coordinator Remedia e not between 17" and 18	Barrier #: 26M Dwg: 1 of 1 tion: Required 3" measured on ce	Inter from wall
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution:	4/20/2017 Repo Capitola Community C Men's Restroom nsible: Brian Van Son on: Public Restrooms WC - Centerline Water closet centerlin ces: CBC 11B-604.2 18-1/2" OC	rt Date: 5/16/2017 enter , ADA Coordinator Remedia e not between 17" and 18 ssible water closet	Barrier #: 26M Dwg: 1 of 1 tion: Required 3" measured on ce	Inter from wall
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas	4/20/2017 Repo Capitola Community C Men's Restroom nsible: Brian Van Son on: Public Restrooms WC - Centerline Water closet centerlin ces: CBC 11B-604.2 18-1/2" OC Provide min. one acces : 1 Quantity:	rt Date: 5/16/2017 enter b, ADA Coordinator Remedia e not between 17" and 18 ssible water closet JOB Cost Estimate:	Barrier #: 26M Dwg: 1 of 1 tion: Required 3" measured on ce	enter from wall BSR: 3 Hindrance
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate:	4/20/2017 Repo Capitola Community C Men's Restroom nsible: Brian Van Son on: Public Restrooms WC - Centerline Water closet centerlin ces: CBC 11B-604.2 18-1/2" OC Provide min. one acces : 1 Quantity: N/A	rt Date: 5/16/2017 enter , ADA Coordinator Remedia e not between 17" and 18 ssible water closet JOB Cost Estimate: Y Coordinate: N/A	Barrier #: 26M Dwg: 1 of 1 tion: Required 3" measured on ce \$918.00 Z Co	enter from wall BSR: 3 Hindrance
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate: Implementati	4/20/2017 Repo Capitola Community C Men's Restroom nsible: Brian Van Son on: Public Restrooms WC - Centerline Water closet centerlin ces: CBC 11B-604.2 18-1/2" OC Provide min. one acces : 1 Quantity: N/A on: Priority 3	rt Date: 5/16/2017 enter A, ADA Coordinator Remedia e not between 17" and 18 ssible water closet JOB Cost Estimate: Y Coordinate: N/A Phase	Barrier #: 26M Dwg: 1 of 1 tion: Required 3" measured on ce \$918.00 Z Cc Date	enter from wall BSR: 3 Hindrance ordinate: N/A Status OPEN



Field Date:	4/20/2017 Repor	rt Date: 5/16/2017 B	arrier #: 26N	
Facility:	Capitola Community Co	enter		
Location:	Men's Restroom			
Official Respo	nsible: Brian Van Son	, ADA Coordinator		
Facility Functi	on: Public		Dwg: 1 of 1	
Barrier Area:	Restrooms	Remediatio	n: Required	
Barrier Type:	Seat Cover Dispensers	- Above Toilet		
Barrier Description:	Seat cover dispenser co access	ontrol point or operating m	echanism not max.	40" AFF and toilet blocks
Code Referen	ces: CBC 11B-603.5			
As Built Description:	Seat cover control poir	nt higher than 40" and clear	floor space at disp	enser is blocked by toilet
Proposed Solution:	Replace or remount dis	spenser		
As-Built Meas	: 1 Quantity:	EACH Cost Estimate: \$	135.00 BS	R: 2 Recommended
X Coordinate:	N/A	Y Coordinate: N/A	Z Coord	dinate: N/A
Implementati	on: Priority 3	Phase	Date	Status Open
Notes:				
Field Date:	4/20/2017 Repor	rt Date: 5/16/2017 B	arrier #: 27A	× · /
Field Date: Facility:	4/20/2017 Repor	rt Date: 5/16/2017 B enter	arrier #: 27A	
Field Date: Facility: Location:	4/20/2017 Report Capitola Community Co Classroom A	rt Date: 5/16/2017 B enter	arrier #: 27A	
Field Date: Facility: Location: Official Respo	4/20/2017 Repor Capitola Community Co Classroom A nsible: Brian Van Son	rt Date: 5/16/2017 B enter , ADA Coordinator	arrier #: 27A	
Field Date: Facility: Location: Official Respo Facility Functi	4/20/2017 Report Capitola Community Co Classroom A nsible: Brian Van Son on: Public	rt Date: 5/16/2017 B enter , ADA Coordinator	arrier #: 27A	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area:	4/20/2017 Report Capitola Community Co Classroom A nsible: Brian Van Son on: Public Signage	rt Date: 5/16/2017 B enter , ADA Coordinator Remediatio	arrier #: 27A Dwg: 1 of 1 n: Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type:	4/20/2017 Repor Capitola Community Co Classroom A nsible: Brian Van Son on: Public Signage Room ID Sign - No Tact	rt Date: 5/16/2017 B enter , ADA Coordinator Remediatio ile Information	arrier #: 27A Dwg: 1 of 1 n: Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description:	4/20/2017 Repor Capitola Community Co Classroom A nsible: Brian Van Son on: Public Signage Room ID Sign - No Tact Room ID sign provided	rt Date: 5/16/2017 B enter , ADA Coordinator Remediatio ile Information for sighted people lacks tac	arrier #: 27A Dwg: 1 of 1 n: Required	ually impaired
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen	4/20/2017 Repor Capitola Community Co Classroom A nsible: Brian Van Son on: Public Signage Room ID Sign - No Tact Room ID sign provided ces: CBC 11B-703.4.2 &	rt Date: 5/16/2017 B enter , ADA Coordinator Remediatio ile Information for sighted people lacks tac & 2010 ADAS 703.3	arrier #: 27A Dwg: 1 of 1 m: Required	ually impaired
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description:	4/20/2017 Report Capitola Community Control Classroom A Classroom A Brian Van Son on: Public Signage Room ID Sign - No Tact Room ID Sign provided ces: CBC 11B-703.4.2 & No tactile information	rt Date: 5/16/2017 B enter , ADA Coordinator Remediatio :ile Information for sighted people lacks tac & 2010 ADAS 703.3 provided where visual sign	arrier #: 27A Dwg: 1 of 1 n: Required ctile info for the vis exists	sually impaired
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution:	4/20/2017 Report Capitola Community Collassroom A Classroom A nsible: Brian Van Son on: Public Signage Room ID Sign - No Tact Room ID sign provided ces: CBC 11B-703.4.2 & No tactile information Provide room ID sign w	rt Date: 5/16/2017 B enter , ADA Coordinator Remediatio ile Information for sighted people lacks tac & 2010 ADAS 703.3 provided where visual sign /ith tactile information at w	arrier #: 27A Dwg: 1 of 1 on: Required ctile info for the vis exists all at latch side of o	aually impaired
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas	4/20/2017 Report Capitola Community Control Classroom A nsible: Brian Van Son on: Public Signage Room ID Sign - No Tact Room ID Sign provided Ces: CBC 11B-703.4.2 & No tactile information Provide room ID sign w : 1 Quantity:	rt Date: 5/16/2017 B enter , ADA Coordinator Remediatio ile Information for sighted people lacks tac & 2010 ADAS 703.3 provided where visual sign vith tactile information at w EACH Cost Estimate: \$	arrier #: 27A Dwg: 1 of 1 n: Required ctile info for the vis exists all at latch side of 0 270.00 BS	Availy impaired
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate:	4/20/2017 Report Capitola Community Concentration Classroom A nsible: Brian Van Son on: Public Signage Room ID Sign - No Tact Room ID Sign provided ces: CBC 11B-703.4.2 & No tactile information Provide room ID sign w : 1 Quantity: N/A	rt Date: 5/16/2017 B enter , ADA Coordinator Remediatio ile Information for sighted people lacks tac & 2010 ADAS 703.3 provided where visual sign /ith tactile information at w EACH Cost Estimate: \$ Y Coordinate: N/A	arrier #: 27A Dwg: 1 of 1 on: Required ctile info for the vis exists all at latch side of a 270.00 BS	door R: 1 Necessary dinate: N/A APPROVED
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate: Implementati	4/20/2017 Report Capitola Community Collassroom A nsible: Brian Van Son on: Public Signage Room ID Sign - No Tact Room ID Sign provided ces: CBC 11B-703.4.2 & No tactile information Provide room ID sign w : 1 Quantity: N/A on: Priority	rt Date: 5/16/2017 B enter , ADA Coordinator Remediatio ile Information for sighted people lacks tac & 2010 ADAS 703.3 provided where visual sign /ith tactile information at w EACH Cost Estimate: \$ Y Coordinate: N/A Phase	arrier #: 27A Dwg: 1 of 1 on: Required Ctile info for the vis exists all at latch side of 0 270.00 BS Z Coord Date	door R: 1 Necessary Job Copy Status Openation



Field Date: 4/20/2017	7 Repor	rt Date: 5/16/	2017	Barrier #:	27B	5 . 1
Facility: Capitola C	ommunity Co	enter				In state
Location: Classroom	n A					
Official Responsible:	rian Van Son	, ADA Coordin	ator			
Facility Function: Publi	C			Dwg:	L of 1	
Barrier Area: Doors or C	Gates		Remediati	on: Requir	ed	
Barrier Type: Door Clos	er - Interior A	djustment				
Barrier Door oper Description:	ning force exe	ceeds 5 lbf				
Code References: CBC	L1B-404.2.9 8	& 2010 ADAS 4	04.2.9			
As Built 11 lbf Description:						
Proposed Replace o Solution:	r adjust exist	ing closer				
As-Built Meas: 1	Quantity:	EACH Cost	Estimate:	\$486.00	BSR:	1 Necessary
X Coordinate: N/A		Y Coordinate:	N/A		Z Coordina	ate: N/A
Implementation: Prior	ity 2	Phase		Date		Status Open
Notes:						
Field Date: 4/20/2017	7 Repoi	rt Date: 5/16/	2017	Barrier #:	27C	· /
Field Date:4/20/201Facility:Capitola C	7 Report	rt Date: 5/16/ enter	2017	Barrier #:	27C	
Field Date:4/20/2013Facility:Capitola CLocation:Classroom	7 Report community Co n A	rt Date: 5/16/ enter	/2017	Barrier #:	27C	
Field Date:4/20/2012Facility:Capitola CLocation:ClassroomOfficial Responsible:B	7 Report community Co n A rian Van Son	rt Date: 5/16/ enter , ADA Coordin	/2017 ator	Barrier #:	27C	
Field Date:4/20/2012Facility:Capitola CLocation:ClassroomOfficial Responsible:BFacility Function:Public	7 Report community Co n A rian Van Son c	rt Date: 5/16/ enter , ADA Coordin	/2017 ator	Barrier #:	27C	
Field Date:4/20/2017Facility:Capitola CLocation:ClassroomOfficial Responsible:BFacility Function:PublicBarrier Area:Doors or C	7 Report community Co n A rian Van Son c Gates	rt Date: 5/16/ enter , ADA Coordin	2017 ator Remediati	Barrier #:	27C	
Field Date:4/20/2017Facility:Capitola CLocation:ClassroomOfficial Responsible:BFacility Function:PublicBarrier Area:Doors or CBarrier Type:Door Closs	7 Report community Co n A rian Van Son c Gates er - Interior S	rt Date: 5/16/ enter , ADA Coordin weep	2017 ator Remediati	Barrier #:	27C	
Field Date:4/20/2017Facility:Capitola CLocation:ClassroomOfficial Responsible:BFacility Function:PublicBarrier Area:Doors or CBarrier Type:Door ClossBarrierDoor clossDescription:Public	7 Report community Co n A rian Van Son c Gates er - Interior S er lacks min.	rt Date: 5/16/ enter , ADA Coordin weep 5 second swee	2017 ator Remediati p period/ba	Barrier #:	27C	
Field Date:4/20/2017Facility:Capitola CLocation:ClassroomOfficial Responsible:BFacility Function:PublicBarrier Area:Doors or CBarrier Type:Door ClossBarrierDoor clossCode References:CBC 1	7 Report community Co n A rian Van Son c Gates er - Interior S er lacks min.	rt Date: 5/16/ enter , ADA Coordin Sweep 5 second swee L & ADA/ABA 4	2017 ator Remediati p period/ba	Barrier #:	27C	
Field Date:4/20/2017Facility:Capitola CLocation:ClassroomOfficial Responsible:BFacility Function:PublicBarrier Area:Doors or CBarrier Type:Door ClossBarrierDoor clossDescription:CBC 1As Built2 second s	7 Report community Co n A rian Van Son c Gates er - Interior S er lacks min. 11B-404.2.8.1 sweep	rt Date: 5/16/ enter , ADA Coordin 5 weep 5 second swee L & ADA/ABA 4	2017 ator Remediati p period/ba	Barrier #:	27C	
Field Date:4/20/2017Facility:Capitola CLocation:ClassroomOfficial Responsible:BFacility Function:PublicBarrier Area:Doors or CBarrier Type:Door ClossBarrier Code References:CBC 1As Built2 second 5Description:Replace oSolution:Replace o	7 Report community Co n A rian Van Son c Gates er - Interior S er lacks min. 1 11B-404.2.8.1 sweep r adjust exist	rt Date: 5/16/ enter , ADA Coordin ; weep 5 second swee L & ADA/ABA 4 ing closer	2017 ator Remediati p period/ba	Barrier #:	27C	
Field Date:4/20/2017Facility:Capitola CLocation:ClassroomOfficial Responsible:BFacility Function:PublicBarrier Area:Doors or CBarrier Type:Door ClossBarrier Type:Door clossBarrier Code References:CBC 1As Built2 second sDescription:Replace oSolution:0	7 Report community Co n A rian Van Son c Gates er - Interior S er lacks min. 11B-404.2.8.1 sweep r adjust exist	rt Date: 5/16/ enter , ADA Coordina 5weep 5 second swee L & ADA/ABA 4 ing closer EACH Cost	2017 ator Remediati p period/ba 04.2.8.1 Estimate:	Barrier #:	27C	2 Recommende
Field Date:4/20/2017Facility:Capitola CLocation:ClassroomOfficial Responsible:BFacility Function:PublicBarrier Area:Doors or CBarrier Type:Door ClossBarrier Code References:CBC 1As Built2 second 3Description:Replace oSolution:As-Built Meas:0X Coordinate:N/A	7 Report community Co n A rian Van Son c Gates er - Interior S er lacks min. 11B-404.2.8.1 sweep r adjust exist	rt Date: 5/16/ enter , ADA Coordina weep 5 second swee L & ADA/ABA 4 ing closer EACH Cost Y Coordinate:	2017 ator Remediati p period/ba 04.2.8.1 Estimate:	Barrier #:	27C L of 1 ed BSR: Z Coordina	2 Recommende
Field Date:4/20/2017Facility:Capitola CLocation:ClassroomOfficial Responsible:BFacility Function:PublicBarrier Area:Doors or CBarrier Type:Door ClossBarrier Type:Door clossBarrier Code References:CBC 1As Built2 second 3Description:Replace oSolution:OX Coordinate:N/AImplementation:Prior	7 Report ommunity Co on A rian Van Son c Gates er - Interior S er lacks min. 1 11B-404.2.8.1 sweep r adjust exist Quantity:	rt Date: 5/16/ enter , ADA Coordina weep 5 second swee L & ADA/ABA 4 ing closer EACH Cost Y Coordinate: Phase	2017 ator Remediati p period/ba 04.2.8.1 Estimate:	Barrier #:	27C L of 1 ed BSR: Z Coordina	2 Recommende



Report Date. 5/16/2017 Barrier #. 27D
acility: Capitola Community Center
ocation: Classroom A
Official Responsible: Brian Van Son, ADA Coordinator
acility Function: Public Dwg: 1 of 1
arrier Area: Doors or Gates Remediation: Required
arrier Type: Threshold (replacement)
Door/Gate threshold height exceeds 1/2" with a bevel
Code References: CBC 11B-404.2.5 & 2010 ADAS 404.2.5
As Built Metal threshold has 3/4" high edge at exit side Description:
olution:
s-Built Meas: 2 Quantity: EACH Cost Estimate: \$594.00 BSR: 1 Necessary
Coordinate: N/A Y Coordinate: N/A Z Coordinate: N/A
mplementation: Priority 2 Phase Date Status Open
lotes:
ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 27E
ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 27E acility: Capitola Community Center Image: Capitola Community Center Image: Capitola Community Center
ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 27E acility: Capitola Community Center Classroom A Image: Classroom A
Ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 27E acility: Capitola Community Center
ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 27E acility: Capitola Community Center ocation: Classroom A Official Responsible: Brian Van Son, ADA Coordinator acility Function: Public
ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 27E acility: Capitola Community Center ocation: Classroom A Official Responsible: Brian Van Son, ADA Coordinator acility Function: Public barrier Area: Signage Remediation: Required
ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 27E acility: Capitola Community Center ocation: Classroom A Official Responsible: Brian Van Son, ADA Coordinator acility Function: Public barrier Area: Signage Remediation: Required
ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 27E acility: Capitola Community Center Classroom A Image: Classroom A Image: Classroom A Official Responsible: Brian Van Son, ADA Coordinator Image: Dwg: 1 of 1 acility Function: Public Dwg: 1 of 1 barrier Area: Signage Remediation: Required barrier Type: Tactile Exit Sign - Route Image: Signage Exit door to exterior thru exit enclosure, interior room or passageway lacks "EXIT ROUTE" sign
ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 27E acility: Capitola Community Center
ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 27E acility: Capitola Community Center
ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 27E acility: Capitola Community Center
ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 27E acility: Capitola Community Center ocation: Classroom A Official Responsible: Brian Van Son, ADA Coordinator acility Function: Public Dwg: 1 of 1 barrier Area: Signage Remediation: Required barrier Type: Tactile Exit Sign - Route barrier Type: Tactile Exit Sign - Route barrier Secription: Exit door to exterior thru exit enclosure, interior room or passageway lacks "EXIT ROUTE" sign bcode References: CBC 11B-216.4.1 & 11B-703 bcs Built No tactile sign provided where required at entry door bcsropsed Provide compliant sign at exit side of door olution: 1 Quantity: EACH Cost Estimate: \$270.00 BSR: 2 Recommende@@@
ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 27E acility: Capitola Community Center ocation: Classroom A Official Responsible: Brian Van Son, ADA Coordinator acility Function: Public Dwg: 1 of 1 carrier Area: Signage Remediation: Required Fixit door to exterior thru exit enclosure, interior room or passageway lacks "EXIT ROUTE" sign Code References: CBC 11B-216.4.1 & 11B-703 Kas Built No tactile sign provided where required at entry door Provide compliant sign at exit side of door olution: Ks-Built Meas: 1 Quantity: EACH Cost Estimate: \$270.00 BSR: 2 Recommendee@ Index
ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: [27E] acility: Capitola Community Center



Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 27F
Facility: Capitola Community Center
Location: Classroom A
Official Responsible: Brian Van Son, ADA Coordinator
Facility Function: Public Dwg: 1 of 1
Barrier Area: Controls and Mechanisms Remediation: Required
Barrier Type: Actuator/Control - Side Reach High (Safe Harbor)
Barrier Control or mechanism at max. 54" high Description:
Code References: ADA Title II, Subpart D, § 35.150 Existing facilities § 35.150(b)(2)(i)
As Built Control for audio system 50" high on wall Description:
Proposed No remediation required. Control or mechanism complied with prior code and is granted safe Solution: harbor
As-Built Meas: 1 Quantity: EACH Cost Estimate: \$0.00 BSR: 3 Hindrance
X Coordinate: N/A Y Coordinate: N/A Z Coordinate: N/A
Implementation: Priority 2 Phase Date Date Status Open
Notes:
Field Detay 4/20/2047 Detay F/40/2047 Detay
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 2/G
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 2/G Facility: Capitola Community Center Image: Capitola Community Center Image: Capitola Community Center
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 2/G Facility: Capitola Community Center Location: Classroom A
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 2/G Facility: Capitola Community Center Image: Classroom A Image: Classroom A Image: Classroom A Official Responsible: Brian Van Son, ADA Coordinator Image: Classroom A Image: Classroom A
Field Date: 4/20/2017 Report Date: 5/16/2017 Barner #: 27G Facility: Capitola Community Center Location: Classroom A Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: 1 of 1
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 27G Facility: Capitola Community Center Location: Classroom A Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: 1 of 1 Barrier Area: Counters and Tables Remediation:
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 27G Facility: Capitola Community Center Location: Classroom A Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: 1 of 1 Barrier Area: Counters and Tables Remediation: Rarrier Type: Table - Knee Clearance
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 27G Facility: Capitola Community Center
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 27G Facility: Capitola Community Center
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 12/G Facility: Capitola Community Center Image: Classroom A Image: Classroom A Image: Classroom A Official Responsible: Brian Van Son, ADA Coordinator Image: Classroom A Image: Classroom A Image: Classroom A Official Responsible: Brian Van Son, ADA Coordinator Image: Classroom A Image: Classroom A Image: Classroom A Barrier Area: Counters and Tables Remediation: Required Image: Classroom A Barrier Type: Table - Knee Clearance Image: Classroom A Image: Classroom A Image: Classroom A Barrier Description: Knee clearance not min. 27" high, 19" deep or 30" wide Image: Classroom A Image: Classroom A Code References: CBC 11B-306.3 and 2010 ADAS 306.3 Image: Classroom A Image: Classroom A Image: Classroom A Description: Image: Classroom A Image: Classroom A Image: Classroom A Image: Classroom A Barrier Description: Image: Classroom A Image: Classroom A Image: Classroom A Image: Classroom A Code References: CBC 11B-306.3 and 2010 ADAS 306.3 Image: Classroom A Image: Cl
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 2/G Facility: Capitola Community Center
Field Date: 4/20/2017 Report Date: 15/16/2017 Barrier #: 1 Facility: Capitola Community Center Description: Classroom A Official Responsible: Brian Van Son, ADA Coordinator Dwg: 1 of 1 Barrier Area: Counters and Tables Remediation: Required Barrier Type: Table - Knee Clearance Dwg: 1 of 1 Barrier Type: Table - Knee Clearance Dwg: 1 of 1 Barrier Type: Table - Knee Clearance Dwg: 1 of 1 Barrier Type: Table - Knee Clearance Dwg: 1 of 1 Code References: CBC 11B-306.3 and 2010 ADAS 306.3 As Built 26-1/2" high knee clearance at rectangular tables Description: Provide min. 1 accessible table and 5% overall. Avoid pedestal base tables. Solution: As-Built Meas: 1 Quantity: EACH Cost Estimate: \$486.00 BSR: 3 Hindrance Solution:
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 2/G Facility: Capitola Community Center Coation: Classroom A Official Responsible: Brian Van Son, ADA Coordinator Dwg: 1 of 1 Barrier Area: Counters and Tables Remediation: Required Barrier Type: Table - Knee Clearance Barrier Knee clearance not min. 27" high, 19" deep or 30" wide Description: Code References: CBC 11B-306.3 and 2010 ADAS 306.3 As Built 26-1/2" high knee clearance at rectangular tables Pescription: Provide min. 1 accessible table and 5% overall. Avoid pedestal base tables. Solution: As-Built Meas: 1 Quantity: EACH Cost Estimate: \$486.00 BSR: 3 Hindrance X Coordinate: N/A Y Coordinate: N/A Z Coordinate: N/A APPROVED
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 2/G Facility: Capitola Community Center Image: Capitola Community Center Image: Capitola Community Center Image: Capitola Community Center Location: Classroom A Image: Capitola Community Center Image: Capitola Community Center Image: Capitola Community Center Image: Capitola Community Center Location: Classroom A Image: Capitola Community Center Image: Capitola Community Center Image: Capitola Community Center Facility Function: Public Image: Capitola Community Center Image: Capitola Community Center Image: Capitola Community Center Barrier Type: Table - Knee Clearance Remediation: Required Barrier Type: Table - Knee Clearance Image: Capitola Community Center Image: Capitola Community Center Code References: CBC 11B-306.3 and 2010 ADAS 306.3 Image: Capitola Community Center Image: Capitola Community Center Image: Capitola Community Center Proposed Provide min. 1 accessible table and 5% overall. Avoid pedestal base tables. Image: Capitola Community Center Image: Capitola Community Center X Coordinate: N/A Y Coordinate: N/A Image: Capitola Community Cent



Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 27H	-
Facility: Capitola Community Center	
Location: Classroom A	5
Official Responsible: Brian Van Son, ADA Coordinator	3.2
Facility Function: Public Dwg: 1 of 1	
Barrier Area: Controls and Mechanisms Remediation: Required	
Barrier Type: Electrical Outlets - High/Low Reach	
Barrier Use of outlet requires low reach of less than 15" above floor or higher than 48" Description:	
Code References: CBC 11B-308.1.2, 11B-308.2.1 & 2010 ADAS 308.2.2	
As Built Outlet 12" OC Description:	
Proposed Relocate outlet to area with min. 15" low reach or max. 48" high reach Solution:	
As-Built Meas: 1 Quantity: EACH Cost Estimate: \$810.00 BSR: 3 Hindrance	
X Coordinate: N/A Y Coordinate: N/A Z Coordinate: N/A	
Implementation: Priority 2 Phase Date Status Open	
Notes:	
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 271	
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 271 Facility: Capitola Community Center Image: Community Center Image: Capitola Community Center Image: Capitola Community Center	
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 271 Facility: Capitola Community Center Image: Classroom A Image: Classroom A Image: Classroom A	
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 271 Facility: Capitola Community Center	
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 271 Facility: Capitola Community Center	
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 271 Facility: Capitola Community Center Location: Classroom A Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: 1 of 1 Barrier Area: Controls and Mechanisms Remediation: Required	
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 271 Facility: Capitola Community Center Location: Classroom A Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: 1 of 1 Barrier Area: Controls and Mechanisms Remediation: Required	
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 271 Facility: Capitola Community Center	
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 271 Facility: Capitola Community Center	
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 271 Facility: Capitola Community Center	
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 271 Facility: Capitola Community Center	
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 271 Facility: Capitola Community Center	
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 271 Facility: Capitola Community Center Location: Classroom A Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: 1 of 1 Barrier Area: Controls and Mechanisms Remediation: Required Barrier Type: Actuator/Control - Side Reach High Unobstructed Barrier Type: Control or mechanism not at min. 15" or max. 48" high Description: Code References: CBC 11B-305.3 and 2010 ADAS 305.3 As Built Accordion door controls 58-1/2" OC and chairs block clear floor space Proposed Provide assistance Solution: O Quantity: EACH Cost Estimate: \$0.00 Solution: N/A Y Coordinate:	
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 271 Facility: Capitola Community Center	



Field Date:	4/20/2017 Repo	rt Date: 5/16/2017	Barrier #	: 27J	
Facility:	Capitola Community Co	enter			
Location:	Classroom A				
Official Respo	nsible: Brian Van Son	, ADA Coordinator			
Facility Functi	on: Public		Dwg	g: 1 of 1	
Barrier Area:	Signage	Remedi	ation: Rec	uired	
Barrier Type:	Tactile Exit Sign - Exit				
Barrier Description:	Ground floor doors tha	at exit to exterior not pr	ovided with	i signs stating "	EXIT"
Code Referen	ces: CBC 11B-216.4.1 &	& 11B-703			
As Built Description:	No tactile sign provide	d where required at doo	ors to exteri	or	
Proposed Solution:	Provide compliant sign	at exit side of door			
As-Built Meas	: 1 Quantity:	EACH Cost Estimate:	\$270.00	BSR:	1 Necessary
X Coordinate:	N/A	Y Coordinate: N/A		Z Coordina	te: N/A
Implementati	on: Priority 4	Phase	Date		Status Open
Notes:					
		The second se			
Field Date:	4/20/2017 Repo	rt Date: 5/16/2017	Barrier #	: 27K	0
Field Date: Facility:	4/20/2017 Report Capitola Community Co	rt Date: 5/16/2017 enter	Barrier #	: 27K	
Field Date: Facility: Location:	4/20/2017 Report Capitola Community Co Classroom A	rt Date: 5/16/2017 enter	Barrier #	: 27К	
Field Date: Facility: Location: Official Respo	4/20/2017 Report Capitola Community Co Classroom A nsible: Brian Van Son	rt Date: 5/16/2017 enter , ADA Coordinator	Barrier #	: 27K	
Field Date: Facility: Location: Official Respo Facility Functi	4/20/2017 Report Capitola Community Co Classroom A nsible: Brian Van Son on: Public	rt Date: 5/16/2017 enter , ADA Coordinator	Barrier #	: 27K 3: 1 of 1	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area:	4/20/2017 Report Capitola Community Co Classroom A nsible: Brian Van Son on: Public Doors or Gates	rt Date: 5/16/2017 enter , ADA Coordinator Remedi	Barrier # Dwg ation: Rec	: 27K g: 1 of 1 juired	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type:	4/20/2017 Report Capitola Community Co Classroom A nsible: Brian Van Son on: Public Doors or Gates Door Closer - Exterior A	rt Date: 5/16/2017 enter , ADA Coordinator Remedi Adjustment	Barrier # Dwg ation: Rec	: 27K 3: 1 of 1 1 uired	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description:	4/20/2017 Report Capitola Community Co Classroom A nsible: Brian Van Son on: Public Doors or Gates Door Closer - Exterior A Door opening force exter	rt Date: 5/16/2017 enter , ADA Coordinator Remedi Adjustment ceeds 5 lbf	Barrier #	: 27K 3: 1 of 1 1uired	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen	4/20/2017 Report Capitola Community Control Classroom A Classroom A Brian Van Son on: Public Doors or Gates Door Closer - Exterior A Door opening force exercises: CBC 11B-404.2.9	rt Date: 5/16/2017 enter , ADA Coordinator Remedi Adjustment ceeds 5 lbf	Barrier #	: 27K 3: 1 of 1 juired	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description:	4/20/2017 Report Capitola Community Control Classroom A Classroom A Brian Van Son on: Public Doors or Gates Door Closer - Exterior A Door opening force exercises: CBC 11B-404.2.9 9 lbf Door	rt Date: 5/16/2017 enter , ADA Coordinator Remedi Adjustment ceeds 5 lbf	Barrier #	: 27K 3: 1 of 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution:	4/20/2017 Report Capitola Community Control Classroom A Nsible: Brian Van Son on: Public Doors or Gates Door Closer - Exterior A Door opening force excloses: CBC 11B-404.2.9 9 lbf Replace or adjust exist	rt Date: 5/16/2017 enter , ADA Coordinator Remedi Adjustment ceeds 5 lbf	Barrier #	: 27K g: 1 of 1 juired	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas	4/20/2017 Report Capitola Community Construction Classroom A Insible: Brian Van Son on: Public Doors or Gates Door Closer - Exterior A Door opening force exercises: CBC 11B-404.2.9 9 lbf Replace or adjust exist : 1 Quantity:	rt Date: 5/16/2017 enter a, ADA Coordinator Remedi Adjustment ceeds 5 lbf ing closer EACH Cost Estimate:	Barrier # Dwg ation: Rec \$486.00	: 27K 3: 1 of 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 Necessary
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate:	4/20/2017 Report Capitola Community Cr Classroom A nsible: Brian Van Son on: Public Doors or Gates Door Closer - Exterior A Door opening force exercises: CBC 11B-404.2.9 9 lbf Replace or adjust exist N/A	rt Date: 5/16/2017 enter , ADA Coordinator Remedi Adjustment ceeds 5 lbf ing closer EACH Cost Estimate: Y Coordinate: N/A	Barrier # Dwg ation: Rec	: 27K g: 1 of 1 juired BSR: Z Coordina	1 Necessary te: N/A APPROVED JOB COPY
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate:	4/20/2017 Report Capitola Community Cr Classroom A nsible: Brian Van Son on: Public Doors or Gates Door Closer - Exterior A Door opening force exc ces: CBC 11B-404.2.9 9 lbf Replace or adjust exist 1 Quantity: N/A 0 on: Priority	rt Date: 5/16/2017 enter a, ADA Coordinator Remedi Adjustment ceeds 5 lbf ing closer EACH Cost Estimate: Y Coordinate: N/A Phase	Barrier # Dwg ation: Rec \$486.00	: 27K g: 1 of 1 juired BSR: Z Coordina	1 Necessary te: N/A APPROVED JOB COPY Status Open Status Open Status Open Status Open



Field Date:	4/20/2017	Repor	rt Date: 5/	/16/2017	Barrier	#: 27L			0
Facility:	Capitola Com	munity Ce	enter					The _/	200 PM
Location:	Classroom A								
Official Respo	nsible: Briar	n Van Son	, ADA Coor	dinator					
Facility Funct	ion: Public				Dv	vg: 1 of	1		
Barrier Area:	Doors or Gate	es		Remedia	ation: Re	equired			
Barrier Type:	Door Closer -	Exterior S	Sweep						
Barrier Description:	Door closer la	icks min. !	5 second sv	weep period/	oack cheo	:k			
Code Referen	ces: CBC 11B-	404.2.8.1	& 2010 AI	DAS 404.2.8.1					
As Built Description:	3 second swe	ер							
Proposed Solution:	Replace or ad	just existi	ing closer						
As-Built Meas	s: 0 C	Quantity:	EACH C	ost Estimate:	\$0.00		BSR: 2	Recomme	nded
X Coordinate:	N/A		Y Coordina	ite: N/A		Z C	oordinate	N/A	
Implementati	on: Priority	2	Phase		Date			Status (Dpen
Notes:									
Field Date:	4/20/2017	Repor	rt Date: 5/	/16/2017	Barrier	#: 28A		1	1
Field Date: Facility:	4/20/2017 Capitola Com	Repor munity Ce	rt Date: 5/ enter	/16/2017	Barrier	#: 28A			
Field Date: Facility: Location:	4/20/2017 Capitola Com Classroom B	Repor	rt Date: 5/ enter	/16/2017	Barrier	#: 28A			
Field Date: Facility: Location: Official Respo	4/20/2017 Capitola Com Classroom B onsible: Briar	Repor munity Ce N Van Son	rt Date: 5/ enter , ADA Coor	(16/2017 dinator	Barrier	#: 28A			
Field Date: Facility: Location: Official Respo Facility Functi	4/20/2017 Capitola Com Classroom B onsible: Briar ion: Public	Repor munity Ce 1 Van Son	rt Date: 5/ enter , ADA Coor	(16/2017 dinator	Barrier	#: 28A /g: 1 of			
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area:	4/20/2017 Capitola Com Classroom B onsible: Briar ion: Public Signage	Repor munity Ce 1 Van Son	rt Date: 5, enter , ADA Coor	/16/2017 dinator Remedia	Barrier Dv ation: Re	#: 28A vg: 1 of equired			
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type:	4/20/2017 Capitola Com Classroom B nsible: Briar ion: Public Signage Room ID Sign	Repor munity Co n Van Son - No Tact	rt Date: 5/ enter , ADA Coor ile Informa	/16/2017 dinator Remedia tion	Barrier Dv ation: Re	#: 28A vg: 1 of equired			
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description:	4/20/2017 Capitola Com Classroom B onsible: Briar ion: Public Signage Room ID Sign Room ID Sign	Repor munity Co n Van Son - No Tact provided	rt Date: 5, enter , ADA Coor ile Informa for sighted	/16/2017 dinator Remedia tion I people lacks	Barrier Dv ation: Re tactile in	#: 28A vg: 1 of equired fo for th	1 e visually	impaired	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen	4/20/2017 Capitola Com Classroom B Insible: Briar ion: Public Signage Room ID Sign Room ID Sign ces: CBC 11B	Repor munity Co n Van Son - No Tact provided	t Date: 5/ enter , ADA Coor ile Informa for sighted & 2010 ADA	dinator Remedia tion I people lacks	Barrier Dv ation: Re tactile in	#: 28A vg: 1 of equired fo for th	1 e visually	impaired	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description:	4/20/2017 Capitola Com Classroom B onsible: Briar ion: Public Signage Room ID Sign Room ID Sign ces: CBC 11B- No tactile info	Repor munity Co n Van Son - No Tact provided -703.4.2 & prmation	t Date: 5/ enter , ADA Coor ile Informa for sighted & 2010 ADA provided w	dinator Remedia tion people lacks & 703.3 /here visual si	Barrier Dv ation: Re tactile in gn exists	#: 28A	1 e visually	impaired	
Field Date: Facility: Location: Official Response Facility Function Barrier Area: Barrier Type: Barrier Description: Code Referent As Built Description: Proposed Solution:	4/20/2017 Capitola Com Classroom B onsible: Briar ion: Public Signage Room ID Sign Room ID Sign ces: CBC 11B- No tactile info	Repor munity Ce n Van Son - No Tact provided -703.4.2 & ormation ID sign w	rt Date: 5/ enter , ADA Coor ile Informa for sighted & 2010 ADA provided w	dinator Remedia tion people lacks S 703.3 there visual si	Barrier Dv ation: Re tactile in gn exists t wall at l	#: 28A vg: 1 of equired fo for th	e visually	impaired	
Field Date: Facility: Location: Official Response Facility Function Barrier Area: Barrier Type: Barrier Description: Code Referent As Built Description: Proposed Solution: As-Built Meas	4/20/2017 Capitola Com Classroom B onsible: Briar ion: Public Signage Room ID Sign Room ID Sign ces: CBC 11B No tactile info Provide room	Repor munity Co n Van Son - No Tact provided -703.4.2 & prmation ID sign w	t Date: 5/ enter , ADA Coor ile Informa for sighted & 2010 ADA provided w /ith tactile	(16/2017 dinator Remedia tion I people lacks (S 703.3 (here visual si information a cost Estimate:	Barrier Dv ation: Re tactile in gn exists t wall at l	#: 28A vg: 1 of equired fo for th atch side	e visually BSR: 1	impaired	
Field Date: Facility: Location: Official Response Facility Function Barrier Area: Barrier Type: Barrier Description: Code Referent As Built Description: Proposed Solution: As-Built Meas X Coordinate:	4/20/2017 Capitola Com Classroom B onsible: Briar ion: Public Signage Room ID Sign Room ID Sign ces: CBC 11B No tactile info Provide room	Repor munity Co n Van Son - No Tact provided -703.4.2 & ormation ID sign w Quantity:	rt Date: 5/ enter , ADA Coor ile Informa for sighted & 2010 ADA provided w /ith tactile i EACH Co Y Coordina	(16/2017 dinator Remedia tion I people lacks AS 703.3 (here visual si information a cost Estimate: hte: N/A	Barrier Dw ation: Re tactile in gn exists t wall at I \$270.00	#: 28A vg: 1 of equired fo for th atch side	e of door BSR: 1 oordinate	impaired Necessary	
Field Date: Facility: Location: Official Response Facility Function Barrier Area: Barrier Type: Barrier Description: Code Referent As Built Description: Proposed Solution: As-Built Mease X Coordinates	4/20/2017 Capitola Com Classroom B nsible: Briar ion: Public Signage Room ID Sign Room ID Sign ces: CBC 11B- No tactile info Provide room : 1 C N/A on: Priority	Repor munity Co n Van Son - No Tact provided -703.4.2 & prmation ID sign w Quantity: 4	t Date: 5/ enter , ADA Coor ile Informa for sighted & 2010 ADA provided w /ith tactile i EACH Cu Y Coordina Phase	dinator Remedia tion I people lacks XS 703.3 where visual si information a cost Estimate: hte: N/A	Barrier Dv ation: Re tactile in gn exists t wall at l \$270.00 Date	#: 28A vg: 1 of equired fo for th atch side	e visually BSR: 1 oordinate	impaired Necessary :: N/A Status (



Field Date:	4/20/2017 Repo	ort Date: 5/16/202	L7 Barrier #: 2	8B
Facility:	Capitola Community (Center		
Location:	Classroom B			
Official Respo	nsible: Brian Van So	n, ADA Coordinato		
Facility Functi	on: Public		Dwg: 1	of 1
Barrier Area:	Doors or Gates	Re	emediation: Require	d
Barrier Type:	Door Closer - Interior	Adjustment		
Barrier Description:	Door opening force ex	ceeds 5 lbf		
Code Referen	ces: CBC 11B-404.2.9	& 2010 ADAS 404.	2.9	
As Built Description:	9 lbf			
Proposed Solution:	Replace or adjust exis	ting closer		
As-Built Meas	: 1 Quantity:	EACH Cost Esti	mate: \$486.00	BSR: 1 Necessary
X Coordinate:	N/A	Y Coordinate: N	Ά	Z Coordinate: N/A
Implementati	on: Priority 2	Phase	Date	Status Open
Notes.				
Field Date:	4/20/2017 Repo	ort Date: 5/16/202	17 Barrier #: 2	80
Field Date: Facility:	4/20/2017 Repo Capitola Community C	ort Date: 5/16/202 Center	L7 Barrier #: 2	
Field Date: Facility: Location: Official Respo	4/20/2017 Repo Capitola Community C Classroom B nsible: Brian Van So	ort Date: 5/16/202 Center	L7 Barrier #: 2	
Field Date: Facility: Location: Official Respo Facility Functi	4/20/2017 Repo Capitola Community C Classroom B nsible: Brian Van So on: Public	ort Date: 5/16/202 Center n, ADA Coordinato	L7 Barrier #: 2	8C
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area:	4/20/2017 Repo Capitola Community C Classroom B nsible: Brian Van So on: Public Doors or Gates	ort Date: 5/16/202 Center n, ADA Coordinato	27 Barrier #: 2 Dwg: 1 29 Dwg: 1	8C
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type:	4/20/2017 Repo Capitola Community C Classroom B nsible: Brian Van So on: Public Doors or Gates Door Closer - Interior	ort Date: 5/16/202 Center n, ADA Coordinato Re Sweep	Dwg: 1 emediation: Require	8C
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description:	4/20/2017 Repo Capitola Community C Classroom B nsible: Brian Van So on: Public Doors or Gates Door Closer - Interior Door closer lacks min.	ort Date: 5/16/202 Center n, ADA Coordinato Re Sweep 5 second sweep p	Dwg: 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	8C of 1 d
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen	4/20/2017 Repo Capitola Community C Classroom B nsible: Brian Van So on: Public Doors or Gates Door Closer - Interior Door closer lacks min. ces: CBC 11B-404.2.8	ort Date: 5/16/202 Center n, ADA Coordinato Re Sweep 5 second sweep p 1 & ADA/ABA 404.	Dwg: 1 2 2 2 2 2 2 3 2 3 2 3 2 3 2 3 2 3 2 3	8C of 1 d
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description:	4/20/2017ReportCapitola Community CClassroom Bnsible:Brian Van Soloron:PublicDoors or GatesDoor Closer - InteriorDoor closer lacks min.ces:CBC 11B-404.2.8.2 second sweep	ort Date: 5/16/202 Center n, ADA Coordinato Re Sweep 5 second sweep p 1 & ADA/ABA 404.	2.8.1	8C of 1 d
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution:	4/20/2017 Report Capitola Community C Classroom B Insible: Brian Van Solor on: Public Doors or Gates Door Closer - Interior Door closer lacks min. Ces: CBC 11B-404.2.8. Replace or adjust exis	ort Date: 5/16/202 Center n, ADA Coordinator Re Sweep 5 second sweep p 1 & ADA/ABA 404. ting closer	Dwg: 1 emediation: Require	8C of 1 d
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas	4/20/2017 Report Capitola Community C Classroom B nsible: Brian Van Solor on: Public Doors or Gates Door Closer - Interior Door closer lacks min. Ces: CBC 11B-404.2.8. 2 second sweep Replace or adjust exis : 0 Quantity:	ort Date: 5/16/202 Center n, ADA Coordinator Re Sweep 5 second sweep p 1 & ADA/ABA 404. ting closer EACH Cost Esti	Dwg: 1 Dwg: 1 emediation: Require eriod/back check 2.8.1	8C of 1 d BSR: 2 Recommende C
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate:	4/20/2017 Report Capitola Community C Classroom B nsible: Brian Van Solo on: Public Doors or Gates Door Closer - Interior Door closer lacks min. ces: CBC 11B-404.2.8. 2 second sweep Replace or adjust exis : 0 Quantity:	ort Date: 5/16/202 Center n, ADA Coordinato Re Sweep 5 second sweep p 1 & ADA/ABA 404. ting closer EACH Cost Esti Y Coordinate: N,	Dwg: 1 Dwg: 1 emediation: Require eriod/back check 2.8.1	8C of 1 d BSR: 2 Recommende
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate: Implementati	4/20/2017 Report Capitola Community C Classroom B Insible: Brian Van Soliton on: Public Doors or Gates Door Closer - Interior Door Closer lacks min. Ces: CBC 11B-404.2.8. 2 Replace or adjust exis Quantity: N/A N/A	ort Date: 5/16/202 Center n, ADA Coordinato Re Sweep 5 second sweep p 1 & ADA/ABA 404. ting closer EACH Cost Esti Y Coordinate: N, Phase	Dwg: 1 Dwg: 1 emediation: Require eriod/back check 2.8.1	8C of 1 d BSR: 2 Recommende



Field Date: 4	/20/2017 Repo	rt Date: 5/16/2	017 Barr	ier #: 28D	
Facility:	Capitola Community C	enter			
Location:	lassroom B				
Official Respons	sible: Brian Van Son	, ADA Coordina	tor		
Facility Function	n: Public			Dwg: 1 of 1	
Barrier Area: D	oors or Gates		Remediation:	Required	
Barrier Type: T	hreshold (replacemer	nt)			
Barrier Description:	oor/Gate threshold h	eight exceeds 1	/2" with a beve	2	
Code Reference	es: CBC 11B-404.2.5 8	& 2010 ADAS 40	4.2.5		
As Built N Description:	/etal threshold has 3/	/4" high edge at	exit side		
Proposed P Solution:	rovide new door thre	shold			
As-Built Meas:	2 Quantity:	EACH Cost E	stimate: \$594	1.00	BSR: 1 Necessary
X Coordinate:	N/A	Y Coordinate:	N/A	Z Co	ordinate: N/A
Implementation	n: Priority 2	Phase	Da	ite 🗌	Status Open
Notes:					
Field Date: 4	/20/2017 Repo	rt Date: 5/16/2	017 Barr	ier #: 28E	N. / ·
Field Date:4Facility:C	/20/2017 Repo	rt Date: 5/16/2 enter	.017 Barr	ier #: 28E	
Field Date:4Facility:CLocation:C	/20/2017 Repo Capitola Community C Classroom B	rt Date: 5/16/2 enter	017 Barr	ier #: 28E	
Field Date:4Facility:CLocation:COfficial Response	/20/2017 Repo Capitola Community C Classroom B Sible: Brian Van Son	rt Date: 5/16/2 enter , ADA Coordina	017 Barr	ier #: 28E	
Field Date:4Facility:CLocation:COfficial ResponseFacility Function:	/20/2017 Repo Capitola Community C Classroom B Sible: Brian Van Son Public	rt Date: 5/16/2 enter I, ADA Coordina	017 Barr tor	ier #: 28E Dwg: 1 of 1	
Field Date:4Facility:CLocation:COfficial ResponseFacility FunctionBarrier Area:	/20/2017 Repo Capitola Community C Classroom B Sible: Brian Van Son n: Public Ignage	rt Date: 5/16/2 enter a, ADA Coordina	017 Barr tor Remediation:	ier #: 28E Dwg: 1 of 1 Required	
Field Date:4Facility:CLocation:COfficial ResponsFacility FunctionBarrier Area:SBarrier Type:T	/20/2017 Repo Capitola Community C Classroom B Sible: Brian Van Son n: Public Ignage Cactile Exit Sign - Route	rt Date: 5/16/2 enter a, ADA Coordina e	017 Barr tor Remediation:	ier #: 28E Dwg: 1 of 1 Required	
Field Date:4Facility:CLocation:COfficial ResponsFacility Function:SBarrier Area:SBarrier Type:TBarrierEDescription:E	/20/2017 Repo Capitola Community C Classroom B Sible: Brian Van Son Public Ignage Cactile Exit Sign - Route xit door to exterior th	rt Date: 5/16/2 enter a, ADA Coordina e e aru exit enclosur	017 Barr tor Remediation: e, interior roor	ier #: 28E Dwg: 1 of 1 Required n or passagev	vay lacks "EXIT ROUTE" sign
Field Date:4Facility:CLocation:COfficial ResponsFacility Function:Barrier Area:SBarrier Type:TBarrier Description:ECode Reference	/20/2017 Repo Capitola Community C Classroom B Sible: Brian Van Son n: Public ignage factile Exit Sign - Route xit door to exterior th es: CBC 11B-216.4.1 &	rt Date: 5/16/2 enter a, ADA Coordina e e aru exit enclosur & 11B-703	017 Barr tor Remediation: e, interior roor	ier #: 28E Dwg: 1 of 1 Required n or passagev	vay lacks "EXIT ROUTE" sign
Field Date:4Facility:CLocation:COfficial ResponsFacility Function:Barrier Area:SBarrier Type:TBarrier Description:ECode ReferenceAs BuiltNDescription:N	/20/2017 Report Capitola Community C Capitola Community C Classroom B Sible: Brian Van Son Sible: Public Ignage Cactile Exit Sign - Route Sit door to exterior th xit door to exterior th Sit CBC 11B-216.4.1 & Io tactile sign provide Sign provide	rt Date: 5/16/2 enter a, ADA Coordina e aru exit enclosur & 11B-703 d where require	017 Barr tor Remediation: e, interior roor	ier #: 28E Dwg: 1 of 1 Required n or passagev	vay lacks "EXIT ROUTE" sign
Field Date:4Facility:CLocation:COfficial ResponsFacility Function:TBarrier Area:SBarrier Type:TBarrier Description:ECode ReferenceCAs BuiltNDescription:NProposedPSolution:P	/20/2017 Report Capitola Community C Capitola Community C Classroom B Sible: Brian Van Son Sible: Brian Van Son Sible: Public Ignage Signage Cactile Exit Sign - Route Sit door to exterior the Sit door to exterior the CBC 11B-216.4.1 & Io tactile sign provide Signage Provide compliant signage Signage	rt Date: 5/16/2 enter h, ADA Coordina e aru exit enclosur & 11B-703 d where require h at exit side of c	017 Barr tor Remediation: e, interior roor d at entry doo	ier #: 28E Dwg: 1 of 1 Required	vay lacks "EXIT ROUTE" sign
Field Date:4Facility:CLocation:COfficial ResponsFacility Function:Barrier Area:SBarrier Type:TBarrier Type:CDescription:CCode ReferenceCAs BuiltNDescription:PSolution:PAs-Built Meas:I	/20/2017 Report Capitola Community C Capitola Community C Classroom B Sible: Brian Van Son Sible: Brian Van Son Sible: Public Ignage Signage Cactile Exit Sign - Route Sit door to exterior the Sit door to exterior the Sit door to exterior the Sit door to exterior the Sit door to exterior the Sit door to exterior the Sit door to exterior the Sit door to exterior the Sit door to exterior the Sit door to exterior the Sit door to exterior the Sit door to exterior the Sit door to exterior the Sit door to exterior the Sit door to exterior the Sit door to exterior the Sit door to exterior the Sit door to exterior the Sit door to exterior the Sit door to exterior the Sit door to exterior the Sit door to exterior the Sit door to exterior the Sit door to exterior the Sit door to exterior the Sit door to exterior the Sit door to exterior the Sit door to exterior the Sit door to exterior the Sit door to exterior the Sit door to exterior the <td< td=""><td>rt Date: 5/16/2 enter h, ADA Coordina e aru exit enclosur & 11B-703 d where require h at exit side of c</td><td>017 Barr tor Remediation: e, interior roor d at entry doo loor stimate: \$27(</td><td>ier #: 28E Dwg: 1 of 1 Required n or passagev</td><td>vay lacks "EXIT ROUTE" sign</td></td<>	rt Date: 5/16/2 enter h, ADA Coordina e aru exit enclosur & 11B-703 d where require h at exit side of c	017 Barr tor Remediation: e, interior roor d at entry doo loor stimate: \$27(ier #: 28E Dwg: 1 of 1 Required n or passagev	vay lacks "EXIT ROUTE" sign
Field Date:4Facility:CLocation:COfficial ResponsFacility Function:Barrier Area:SBarrier Type:TBarrier Description:ECode ReferenceCAs BuiltNDescription:PSolution:As-Built Meas:X Coordinate:I	/20/2017 Repo Capitola Community C Capitola Community C Classroom B Brian Van Son Sible: Brian Van Son Disible: Public ignage Gactile Exit Sign - Route actile Exit Sign - Route Route xit door to exterior th Sign Provide compliant sign Quantity: N/A N/A	rt Date: 5/16/2 enter h, ADA Coordina e aru exit enclosur & 11B-703 d where require h at exit side of c EACH Cost E Y Coordinate:	017 Barr tor Remediation: e, interior roor d at entry doo loor stimate: \$270	ier #: 28E Dwg: 1 of 1 Required n or passagev	way lacks "EXIT ROUTE" sign BSR: 2 Recommende Commende Com
Field Date:4Facility:CLocation:COfficial ResponsFacility Function:Barrier Area:SBarrier Type:TBarrier Type:TBarrier Description:ECode ReferenceAs BuiltDescription:PSolution:PSolution:As-Built Meas:X Coordinate:IImplementationI	/20/2017 Repo Capitola Community C Capitola Community C Classroom B Sible: Brian Van Son Brian Van Son n: Public ignage Gatile Exit Sign - Route cactile Exit Sign - Route Route xit door to exterior th Sible: cactile Sign provide CBC 11B-216.4.1 & Io tactile sign provide Guantity: N/A Quantity: N/A 4	rt Date: 5/16/2 enter b, ADA Coordina e e ru exit enclosur & 11B-703 d where require a at exit side of c EACH Cost E Y Coordinate: Phase	017 Barr tor Remediation: e, interior roor d at entry doo loor stimate: \$270 N/A Da	ier #: 28E Dwg: 1 of 1 Required n or passagev n 0.00 Z Coo	way lacks "EXIT ROUTE" sign BSR: 2 Recommende Image: Status Open and the second sec



ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 28F	
acility: Capitola Community Center	
ocation: Classroom B	A
Official Responsible: Brian Van Son, ADA Coordinator	5
acility Function: Public Dwg: 1 of 1	
Barrier Area: Controls and Mechanisms Remediation: Required	
arrier Type: Actuator/Control - Side Reach High (Safe Harbor)	
Barrier Control or mechanism at max. 54" high Description:	
Code References: ADA Title II, Subpart D, § 35.150 Existing facilities § 35.150(b)(2)(i)	
As Built Control for audio system 50-1/8" high on wall Description:	
Proposed No remediation required. Control or mechanism complied with prior code and is granted safe folution: harbor	
As-Built Meas: 1 Quantity: EACH Cost Estimate: \$0.00 BSR: 3 Hindrance	
Coordinate: N/A Y Coordinate: N/A Z Coordinate: N/A	
mplementation: Priority 2 Phase Date Status Open	
lotes:	
ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 28G	
ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 28G	
ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 28G acility: Capitola Community Center	
rield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 28G acility: Capitola Community Center ocation: Classroom B Official Responsible: Brian Van Son, ADA Coordinator	
ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 28G acility: Capitola Community Center ocation: Classroom B Official Responsible: Brian Van Son, ADA Coordinator facility Function: Public Dwg: 1 of 1	
rield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 28G acility: Capitola Community Center ocation: Classroom B Official Responsible: Brian Van Son, ADA Coordinator facility Function: Public Dwg: 1 of 1 carrier Area: Counters and Tables Remediation: Required	
rield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 28G Facility: Capitola Community Center ocation: Classroom B Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: 1 of 1 Barrier Area: Counters and Tables Remediation: Required Barrier Type: Table - Knee Clearance	
ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 28G iacility: Capitola Community Center ocation: Classroom B Official Responsible: Brian Van Son, ADA Coordinator iacility Function: Public barrier Area: Counters and Tables Counters and Tables Remediation: Required	
rield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 28G acility: Capitola Community Center ocation: Classroom B Official Responsible: Brian Van Son, ADA Coordinator acility Function: Public Dwg: 1 of 1 Barrier Area: Counters and Tables Remediation: Required Barrier Type: Table - Knee Clearance Knee clearance not min. 27" high, 19" deep or 30" wide Code References: CBC 11B-306.3 and 2010 ADAS 306.3	
iield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 28G acility: Capitola Community Center ocation: Classroom B Official Responsible: Brian Van Son, ADA Coordinator acility Function: Public Dwg: 1 of 1 Barrier Area: Counters and Tables Remediation: Required Barrier Type: Table - Knee Clearance Barrier Type: Table - Knee Clearance Barrier CBC 11B-306.3 and 2010 ADAS 306.3 As Built 26-1/2" high knee clearance at rectangular tables Description:	
iield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 28G acility: Capitola Community Center ocation: Classroom B Official Responsible: Brian Van Son, ADA Coordinator acility Function: Public Dwg: 1 of 1 Barrier Area: Counters and Tables Remediation: Required Barrier Type: Table - Knee Clearance Barrier Type: Table - Knee Clearance Barrier Type: Table - Knee Clearance not min. 27" high, 19" deep or 30" wide Description: CBC 11B-306.3 and 2010 ADAS 306.3 As Built 26-1/2" high knee clearance at rectangular tables Description: Provide min. 1 accessible table of each type and 5% overall. Avoid pedestal base tables.	
ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 28G acility: Capitola Community Center ocation: Classroom B Official Responsible: Brian Van Son, ADA Coordinator acility Function: Public Dwg: 1 of 1 Barrier Area: Counters and Tables Remediation: Required Barrier Type: Table - Knee Clearance Sarrier Knee clearance not min. 27" high, 19" deep or 30" wide Barrier Sescription: 26-1/2" high knee clearance at rectangular tables Proposed oution: Provide min. 1 accessible table of each type and 5% overall. Avoid pedestal base tables. ss-Built Meas: 1 Quantity: EACH Cost Estimate: \$486.00 BSR: 3 Hindrance	
ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 28G jacility: Capitola Community Center ocation: Classroom B Official Responsible: Brian Van Son, ADA Coordinator jacility Function: Public public Dwg: 1 of 1 garrier Area: Counters and Tables counters and Tables Remediation: Required sarrier Type: Table - Knee Clearance sarrier Type: Table - Knee Clearance sarrier Scode References: CBC 11B-306.3 and 2010 ADAS 306.3 Ses Built 26-1/2" high knee clearance at rectangular tables proposed olution: Provide min. 1 accessible table of each type and 5% overall. Avoid pedestal base tables. olution: 1 Quantity: Ks-Built Meas: 1 Quantity: I Quantity: EACH Coordinate: N/A Y Coordinate: N/A Y Coordinate: N/A	
ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 28G acility: Capitola Community Center ocation: Classroom B Official Responsible: Brian Van Son, ADA Coordinator acility Function: Public Dwg: 1 of 1 Barrier Area: Counters and Tables Remediation: Required Barrier Type: Table - Knee Clearance Marrier Type: Table - Knee Clearance Code References: CBC 11B-306.3 and 2010 ADAS 306.3 Ses Built Description: 26-1/2" high knee clearance at rectangular tables Proposed Provide min. 1 accessible table of each type and 5% overall. Avoid pedestal base tables. Ses-Built Meas: 1 Quantity: EACH Cost Estimate: \$486.00 BSR: 3 Hindrance Coordinate: N/A Y Coordinate: N/A Z Coordinate: N/A APPROVED Status Open.	



Field Date:	4/20/2017 Repo	rt Date: 5/16/2	2017 l	Barrier #:	28H			
Facility:	Capitola Community C	enter				A BERT		
Location:	Classroom B							
Official Respor	esponsible: Brian Van Son, ADA Coordinator							
Facility Function	on: Public			Dwg:	1 of 1	ii .		
Barrier Area:	Counters and Tables		Remediatio	on: Requi	ired			
Barrier Type:	Table - Knee Clearance	2						
Barrier Description:	Knee clearance not mi	n. 27" high, 19"	deep or 30	" wide				
Code Reference	ces: CBC 11B-306.3 an	d 2010 ADAS 30	06.3					
As Built Description:	Round tables have 26- at opposite ends	1/4" high knee	clearance to	o supports	at two side	es, 22" high knee clearance		
Proposed Solution:	Provide min. 1 accessil	ble table of eacl	h type and 5	5% overall.	Avoid ped	estal base tables.		
As-Built Meas:	1 Quantity:	EACH Cost E	stimate:	\$486.00	BSR	3 Hindrance		
X Coordinate:	N/A	Y Coordinate:	N/A		Z Coordii	nate: N/A		
Implementatio	on: Priority 2	Phase		Date		Status Open		
Notes:								
Field Date:	4/20/2017 Repo	rt Date: 5/16/2	2017 l	Barrier #:	281			
Field Date: Facility:	4/20/2017 Repo Capitola Community C	rt Date: 5/16/2 enter	2017	Barrier #:	281			
Field Date: Facility: Location:	4/20/2017 Repo Capitola Community C Classroom B	rt Date: 5/16/2 enter	2017	Barrier #:	281			
Field Date: Facility: Location: Official Respon	4/20/2017 Repo Capitola Community C Classroom B nsible: Brian Van Son	rt Date: 5/16/2 enter , ADA Coordina	2017 I	Barrier #:	281			
Field Date: Facility: Location: Official Respon Facility Functio	4/20/2017 Repo Capitola Community C Classroom B nsible: Brian Van Son on: Public	rt Date: 5/16/2 enter I, ADA Coordina	2017 I	Barrier #:	28I			
Field Date: Facility: Location: Official Respon Facility Function Barrier Area:	4/20/2017 Repo Capitola Community C Classroom B nsible: Brian Van Son on: Public Controls and Mechanis	rt Date: 5/16/2 enter a, ADA Coordina	2017 I ntor Remediatio	Barrier #: Dwg: on: Requi	281			
Field Date:Facility:Location:Official ResponseFacility FunctionBarrier Area:Barrier Type:	4/20/2017 Repo Capitola Community C Classroom B nsible: Brian Van Son on: Public Controls and Mechanis Electrical Outlets - Hig	rt Date: 5/16/2 enter a, ADA Coordina sms h/Low Reach	2017 I ntor Remediatio	Barrier #: Dwg: on: Requi	281			
Field Date: Facility: Location: Official Respon Facility Function Barrier Area: Barrier Type: Barrier Description:	4/20/2017 Repo Capitola Community C Classroom B nsible: Brian Van Son on: Public Controls and Mechanis Electrical Outlets - Hig Use of outlet requires	rt Date: 5/16/2 enter a, ADA Coordina sms h/Low Reach low reach of les	2017 I ntor Remediationss than 15" a	Barrier #: Dwg: on: Requi	28I 1 of 1 ired r or higher	than 48"		
Field Date:Facility:Location:Official ResponsionFacility FunctionBarrier Area:Barrier Type:BarrierDescription:Code Reference	4/20/2017 Repo Capitola Community C Classroom B nsible: Brian Van Son on: Public Controls and Mechanis Electrical Outlets - Hig Use of outlet requires	rt Date: 5/16/2 enter a, ADA Coordina sms h/Low Reach low reach of les 11B-308.2.1 & 2	2017 I ntor Remediationss than 15" a 2010 ADAS	Barrier #: Dwg: on: Requi above floo 308.2.2	28I 1 of 1 ired r or higher	than 48"		
Field Date: Facility: Location: Official Respon Facility Function Barrier Area: Barrier Type: Barrier Description: Code Reference As Built Description:	4/20/2017 Repo Capitola Community C Classroom B nsible: Brian Van Son on: Public Controls and Mechanis Electrical Outlets - Hig Use of outlet requires ces: CBC 11B-308.1.2, Outlet 12" OC under ta	rt Date: 5/16/2 enter a, ADA Coordina sms h/Low Reach low reach of les 11B-308.2.1 & 2 ables	2017 I ntor Remediationss than 15" a 2010 ADAS	Barrier #: Dwg: on: Requi above floo 308.2.2	28I	than 48"		
Field Date: Facility: Location: Official Respon Facility Function Barrier Area: Barrier Type: Barrier Description: Code Reference As Built Description: Proposed Solution:	4/20/2017 Repo Capitola Community C Classroom B nsible: Brian Van Son on: Public Controls and Mechanis Electrical Outlets - Hig Use of outlet requires ces: CBC 11B-308.1.2, Outlet 12" OC under ta Relocate outlet to area	rt Date: 5/16/2 enter a, ADA Coordina sms h/Low Reach low reach of les 11B-308.2.1 & 2 ables a with min. 15"	2017 I ntor Remediationss than 15" a 2010 ADAS low reach o	Barrier #: Dwg: on: Requi above floo 308.2.2	28I 1 of 1 ired r or higher high reach	than 48"		
Field Date:Facility:Location:Official ResponFacility FunctionBarrier Area:Barrier Type:Barrier Type:Code ReferenceAs BuiltDescription:ProposedSolution:As-Built Meas:	4/20/2017 Repo Capitola Community C Classroom B nsible: Brian Van Son prisible: Brian Van Son pon: Public Controls and Mechanis Electrical Outlets - Higl Use of outlet requires ces: CBC 11B-308.1.2, Outlet 12" OC under ta Relocate outlet to area 1 Quantity:	rt Date: 5/16/2 enter a, ADA Coordina sms h/Low Reach low reach of les 11B-308.2.1 & 2 ables a with min. 15" EACH Cost E	2017 I ntor Remediationss than 15" a 2010 ADAS low reach o	Barrier #: Dwg: on: Requi above floo 308.2.2 or max. 48"	28I 1 of 1 ired r or higher high reach BSR	than 48"		
Field Date:Facility:Location:Official ResponFacility FunctionBarrier Area:Barrier Type:Barrier Description:Code ReferenceAs BuiltDescription:ProposedSolution:As-Built Meas:X Coordinate:	4/20/2017 Repo Capitola Community C Classroom B nsible: Brian Van Son pon: Public Controls and Mechanis Electrical Outlets - High Use of outlet requires ces: CBC 11B-308.1.2, Outlet 12" OC under ta Relocate outlet to area 1 Quantity: N/A	rt Date: 5/16/2 enter a, ADA Coordina sms h/Low Reach low reach of les 11B-308.2.1 & 2 ables a with min. 15" EACH Cost E Y Coordinate:	2017 I ntor Remediationss than 15" a 2010 ADAS low reach o stimate:	Barrier #: Dwg: on: Requi above floo 308.2.2 rr max. 48" \$810.00	28I 1 of 1 ired r or higher high reach BSR Z Coordin	than 48"		
Field Date:Facility:Location:Official ResponFacility FunctionBarrier Area:Barrier Type:Barrier Type:Code ReferenceAs BuiltDescription:ProposedSolution:As-Built Meas:X Coordinate:	4/20/2017 Repo Capitola Community C Classroom B nsible: Brian Van Son price Brian Van Son pon: Public Controls and Mechanis Electrical Outlets - Higl Use of outlet requires ces: CBC 11B-308.1.2, Outlet 12" OC under ta Relocate outlet to area 1 Quantity: N/A pn: Priority 2	rt Date: 5/16/2 enter a, ADA Coordina sms h/Low Reach low reach of les 11B-308.2.1 & 2 ables a with min. 15" EACH Cost E Y Coordinate: Phase	2017 I ntor Remediationss than 15" a 2010 ADAS low reach o stimate: \$	Barrier #: Dwg: on: Requi above floo 308.2.2 or max. 48" \$810.00	28I 1 of 1 ired r or higher high reach BSR Z Coordin	than 48"		



Field Date:	4/20/2017 Repo	rt Date: 5/16/201	7 Barrier #:	28J
Facility:	Capitola Community C	enter		
Location:	Classroom B			
Official Respon	nsible: Brian Van Son	, ADA Coordinator		
Facility Function	on: Public		Dwg:	1 of 1
Barrier Area:	Controls and Mechanis	sms Re	mediation: Requi	red
Barrier Type:	Actuator/Control - Side	e Reach High Unob	structed	
Barrier Description:	Control or mechanism	not at min. 15" or	max. 48" high	
Code Reference	ces: CBC 11B-305.3 an	d 2010 ADAS 305.3		
As Built Description:	Accordion door contro	ls 58-1/2" OC		
Proposed Solution:	Provide assistance			
As-Built Meas:	0 Quantity:	EACH Cost Estir	nate: \$0.00	BSR: 3 Hindrance
X Coordinate:	N/A	Y Coordinate: N/	4	Z Coordinate: N/A
Implementatio	on: Priority 2	Phase	Date	Status Open
Notes:				
Field Date:	4/20/2017 Repo	rt Date: 5/16/201	7 Barrier #:	28K
Field Date: Facility:	4/20/2017 Repo Capitola Community C	rt Date: 5/16/201 enter	7 Barrier #:	28K
Field Date: Facility: Location:	4/20/2017 Report Capitola Community C Classroom B	rt Date: 5/16/201 enter	7 Barrier #:	28K
Field Date: Facility: Location: Official Respon	4/20/2017 Report Capitola Community C Classroom B nsible: Brian Van Son	rt Date: 5/16/201 enter , ADA Coordinator	7 Barrier #:	28K
Field Date: Facility: Location: Official Respon Facility Function	4/20/2017 Report Capitola Community C Classroom B nsible: Brian Van Son on: Public	rt Date: 5/16/201 enter , ADA Coordinator	7 Barrier #:	28K
Field Date: Facility: Location: Official Respon Facility Function Barrier Area:	4/20/2017 Report Capitola Community Co Classroom B nsible: Brian Van Son Dn: Public Signage	rt Date: 5/16/201 enter , ADA Coordinator Re	7 Barrier #: Dwg: mediation: Requi	28K 1 of 1 red
Field Date: Facility: Location: Official Respon Facility Function Barrier Area: Barrier Type: Barrier Description:	4/20/2017 Report Capitola Community Co Classroom B Insible: Brian Van Son On: Public Signage Tactile Exit Sign - Exit Ground floor doors that	rt Date: 5/16/201 enter , ADA Coordinator Re at exit to exterior n	7 Barrier #: Dwg: mediation: Requi	28K 1 of 1 red igns stating "EXIT"
Field Date: Facility: Location: Official Respon Facility Function Barrier Area: Barrier Type: Barrier Description: Code Reference	4/20/2017 Report Capitola Community Co Classroom B Insible: Brian Van Son On: Public Signage Tactile Exit Sign - Exit Ground floor doors that ces: CBC 11B-216.4.1 &	rt Date: 5/16/201 enter , ADA Coordinator Re at exit to exterior n & 11B-703	7 Barrier #: Dwg: mediation: Requi	28K 1 of 1 red igns stating "EXIT"
Field Date: Facility: Location: Official Respon Facility Function Barrier Area: Barrier Type: Barrier Description: Code Reference As Built Description:	4/20/2017 Report Capitola Community Co Classroom B nsible: Brian Van Son on: Public Signage Tactile Exit Sign - Exit Ground floor doors that ces: CBC 11B-216.4.1 & No tactile sign provide	rt Date: 5/16/201 enter , ADA Coordinator Re at exit to exterior n & 11B-703 d where required a	7 Barrier #: Dwg: mediation: Requi ot provided with si t doors to exterior	28K 1 of 1 red igns stating "EXIT"
Field Date: Facility: Location: Official Respon Facility Function Barrier Area: Barrier Type: Barrier Description: Code Reference As Built Description: Proposed Solution:	4/20/2017 Report Capitola Community Co Classroom B nsible: Brian Van Son on: Public Signage Tactile Exit Sign - Exit Ground floor doors that ces: CBC 11B-216.4.1 & No tactile sign provide Provide compliant sign	rt Date: 5/16/201 enter , ADA Coordinator Re at exit to exterior n & 11B-703 d where required a	7 Barrier #: Dwg: mediation: Requi ot provided with si t doors to exterior	28K 1 of 1 red igns stating "EXIT"
Field Date: Facility: Location: Official Respon Facility Function Barrier Area: Barrier Type: Barrier Description: Code Reference As Built Description: Proposed Solution: As-Built Meas:	4/20/2017 Report Capitola Community Cr Classroom B nsible: Brian Van Son Dn: Public Signage Tactile Exit Sign - Exit Ground floor doors that ces: CBC 11B-216.4.1 & No tactile sign provide Provide compliant sign 1 Quantity:	rt Date: 5/16/201 enter , ADA Coordinator Re at exit to exterior n & 11B-703 d where required a at exit side of doo EACH Cost Estir	7 Barrier #: Dwg: mediation: Requi ot provided with si t doors to exterior r	28K 1 of 1 red igns stating "EXIT" BSR: 1 Necessary
Field Date: Facility: Location: Official Respon Facility Function Barrier Area: Barrier Type: Barrier Description: Code Reference As Built Description: Proposed Solution: As-Built Meas: X Coordinate:	4/20/2017 Report Capitola Community Co Classroom B nsible: Brian Van Son on: Public Signage Tactile Exit Sign - Exit Ground floor doors that ces: CBC 11B-216.4.1 & No tactile sign provide Provide compliant sign	rt Date: 5/16/201 enter , ADA Coordinator Re at exit to exterior n & 11B-703 d where required a at exit side of doo EACH Cost Estir Y Coordinate: N/	7 Barrier #: Dwg: mediation: Requi ot provided with si t doors to exterior r nate: \$270.00	28K 1 of 1 red igns stating "EXIT" BSR: 1 Necessary Z Coordinate: N/A
Field Date: Facility: Location: Official Respon Facility Function Barrier Area: Barrier Type: Barrier Description: Code Reference As Built Description: Proposed Solution: As-Built Meas: X Coordinate:	4/20/2017 Report Capitola Community Cr Classroom B nsible: Brian Van Son pristic Brian Van Son con: Public Signage Signage Tactile Exit Sign - Exit Ground floor doors that ces: CBC 11B-216.4.1 & No tactile sign provide Provide compliant sign 1 Quantity: N/A Quantity:	rt Date: 5/16/201 enter , ADA Coordinator Re at exit to exterior n & 11B-703 d where required a at exit side of doo EACH Cost Estir Y Coordinate: N/, Phase	7 Barrier #: Dwg: mediation: Requi ot provided with si t doors to exterior r nate: \$270.00 A Date	28K 1 of 1 red igns stating "EXIT" BSR: 1 Necessary Z Coordinate: N/A APPROVED JOB COPY Status Open Construction



Field Date:	4/20/2017	Repor	t Date: 5/2	16/2017	Barrier	#: 28L		
Facility:	Capitola Comm	nunity Ce	enter				-	
Location:	Classroom B							
Official Respo	Responsible: Brian Van Son, ADA Coordinator							
Facility Functi	on: Public				Dw	g: 1 of 2	1	
Barrier Area:	Doors or Gates	5		Remedia	ation: Re	quired		
Barrier Type:	Door Closer - E	Exterior A	Adjustment					
Barrier Description:	Door opening	force exc	ceeds 5 lbf					
Code Referen	ces: CBC 11B-4	104.2.9						
As Built Description:	9 lbf							
Proposed Solution:	Replace or adju	ust existi	ing closer					
As-Built Meas	: <u>1</u> Qı	uantity:	EACH Co	st Estimate:	\$486.00		BSR: 1 N	ecessary
X Coordinate:	N/A		Y Coordinat	te: N/A		ZC	oordinate:	N/A
Implementati	on: Priority	2	Phase		Date			Status Open
Notes:								
		_			_			
Field Date:	4/20/2017	Repor	t Date: 5/2	16/2017	Barrier	#: 28N		
Field Date: Facility:	4/20/2017 Capitola Comm	Repor	t Date: 5/2	16/2017	Barrier	#: 28M		
Field Date: Facility: Location:	4/20/2017 Capitola Comm Classroom B	Repor	t Date: 5/2 enter	16/2017	Barrier	#: 28N		
Field Date: Facility: Location: Official Respo	4/20/2017 Capitola Comm Classroom B nsible: Brian	Repornunity Ce	t Date: 5/2 enter , ADA Coorc	16/2017 dinator	Barrier a	#: 28 ₩	Ā	
Field Date: Facility: Location: Official Respo Facility Functi	4/20/2017 Capitola Comm Classroom B nsible: Brian on: Public	Repor	t Date: 5/2 enter , ADA Coorc	16/2017 dinator	Barrier a	#: 28M		
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area:	4/20/2017 Capitola Comm Classroom B nsible: Brian on: Public Doors or Gates	Repor nunity Ce Van Son	t Date: 5/: enter , ADA Coorc	16/2017 dinator Remedia	Barrier Dw ation: Re	#: 28№ g: 1 of 2		
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type:	4/20/2017 Capitola Comm Classroom B nsible: Brian on: Public Doors or Gates Door Closer - E	Repor nunity Ce Van Son	t Date: 5/2 enter , ADA Coord Sweep	16/2017 dinator Remedia	Barrier a Dw ation: Re	#: 28№ /g: 1 of 2 quired		
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description:	4/20/2017 Capitola Comm Classroom B nsible: Brian on: Public Doors or Gates Door Closer - E Door closer lac	Repor nunity Ce Van Son s Exterior S	t Date: 5/: enter , ADA Coord Sweep 5 second sw	16/2017 dinator Remedia veep period/	Barrier a Dw ation: Re back chec	#: 28№ rg: 1 of 2 quired k		
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen	4/20/2017 Capitola Comm Classroom B nsible: Brian on: Public Doors or Gates Door Closer - E Door closer lac ces: CBC 11B-4	Repor nunity Ce Van Son s Exterior S cks min. !	t Date: 5/2 enter , ADA Coord Sweep 5 second sw	16/2017 dinator Remedia veep period/ 0AS 404.2.8.1	Barrier a Dw ation: Re back chec	#: 28M g: 1 of 2 quired		
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description:	4/20/2017 Capitola Comm Classroom B nsible: Brian on: Public Doors or Gates Door Closer - E Door closer lac ces: CBC 11B-4 2 second swee	Repor nunity Ce Van Son s Exterior S Exterior S Eks min. ! 104.2.8.1	t Date: 5/2 enter , ADA Coord Sweep 5 second sw . & 2010 AD	16/2017 dinator Remedia veep period/ 0AS 404.2.8.1	Barrier a Dw ation: Re back chec	#: 28M g: 1 of 2 quired		
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution:	4/20/2017 Capitola Comm Classroom B nsible: Brian on: Public Doors or Gates Door Closer - E Door closer lac ces: CBC 11B-4 2 second swee Replace or adju	Repor nunity Ce Van Son s Exterior S cks min. 9 104.2.8.1 p ust existi	t Date: 5/2 enter , ADA Coord Sweep 5 second sw . & 2010 AD ing closer	16/2017 dinator Remedia veep period/	Barrier a Dw ation: Re back chec	#: 28M		
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas	4/20/2017 Capitola Comm Classroom B nsible: Brian on: Public Doors or Gates Door Closer - E Door Closer lac ces: CBC 11B-4 2 second swee Replace or adju	Repor nunity Ce Van Son s Exterior S cks min. ! 104.2.8.1 p ust existi	t Date: 5/2 enter , ADA Coord Sweep 5 second sw & 2010 AD ing closer EACH Co	16/2017 dinator Remedia veep period/ 0AS 404.2.8.1	Barrier a Dw ation: Re back chec	#: 28M g: 1 of 2 quired	BSR: 2 R	ecommende
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate:	4/20/2017 Capitola Comm Classroom B nsible: Brian on: Public Doors or Gates Door Closer - E Door Closer lac ces: CBC 11B-4 2 second swee Replace or adju : 0 Qu	Repor nunity Ce Van Son Sterior S cks min. 9 404.2.8.1 p ust existi	t Date: 5/2 enter , ADA Coord Sweep 5 second sw . & 2010 AD ing closer EACH Co Y Coordinat	16/2017 dinator Remedia veep period/ vAS 404.2.8.1 vAS 404.2.8.1	Barrier a Dw ation: Re back check	#: 28M rg: 1 of 2 quired k	BSR: 2 R	ecommende
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate:	4/20/2017 Capitola Comm Classroom B nsible: Brian on: Public Doors or Gates Door Closer - E Door closer lac ces: CBC 11B-4 2 second swee Replace or adjuing : 0 N/A on: Priority	Repor nunity Co Van Son Exterior S Cks min. 9 104.2.8.1 p ust existi uantity: 2	t Date: 5/2 enter , ADA Coord Sweep 5 second sw & 2010 AD ing closer EACH Co Y Coordinat	16/2017 dinator Remedia veep period/ AS 404.2.8.1	Barrier a Dw ation: Re back check \$0.00	#: 28M	BSR: 2 R	ecommende



Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29A
Facility: Capitola Community Center
Location: Classroom C
Official Responsible: Brian Van Son, ADA Coordinator
Facility Function: Public Dwg: 1 of 1
Barrier Area: Signage Remediation: Required
Barrier Type: Room ID Sign - No Tactile Information
Barrier Room ID sign provided for sighted people lacks tactile info for the visually impaired Description:
Code References: CBC 11B-703.4.2 & 2010 ADAS 703.3
As Built No tactile information provided where visual sign exists Description:
Proposed Provide room ID sign with tactile information at wall at latch side of door Solution:
As-Built Meas: 1 Quantity: EACH Cost Estimate: \$270.00 BSR: 1 Necessary
X Coordinate: N/A Y Coordinate: N/A Z Coordinate: N/A
Implementation: Priority 4 Phase Date Date Status Open
Notes:
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29B
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29B Facility: Capitola Community Center Image: Capitola Community Center Image: Capitola Community Center
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29B Facility: Capitola Community Center Image: Classroom C Image: Classroom C Image: Classroom C
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29B Facility: Capitola Community Center
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29B Facility: Capitola Community Center
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29B Facility: Capitola Community Center Location: Classroom C Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: 1 of 1 Barrier Area: Doors or Gates Remediation: Required
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29B Facility: Capitola Community Center Location: Classroom C Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: 1 of 1 Barrier Area: Doors or Gates Barrier Type: Door Closer - Interior Adjustment
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29B Facility: Capitola Community Center
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29B Facility: Capitola Community Center Location: Classroom C Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dors or Gates Barrier Area: Doors or Gates Remediation: Required Barrier Type: Door Closer - Interior Adjustment Barrier Door opening force exceeds 5 lbf Code References: CBC 11B-404.2.9 & 2010 ADAS 404.2.9
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29B Facility: Capitola Community Center Location: Classroom C Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Doors or Gates Remediation: Barrier Area: Door Closer - Interior Adjustment Barrier Door opening force exceeds 5 lbf Description: CBC 11B-404.2.9 & 2010 ADAS 404.2.9
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29B Facility: Capitola Community Center Location: Classroom C Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: 1 of 1 Barrier Area: Doors or Gates Remediation: Required Barrier Type: Door Closer - Interior Adjustment Door opening force exceeds 5 lbf Code References: CBC 11B-404.2.9 & 2010 ADAS 404.2.9 As Built 9 lbf Proposed Replace or adjust existing closer
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29B Facility: Capitola Community Center Location: Classroom C Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Barrier Area: Doors or Gates Barrier Type: Door Closer - Interior Adjustment Barrier Type: Door opening force exceeds 5 lbf Description: CBC 11B-404.2.9 & 2010 ADAS 404.2.9 As Built 9 lbf Proposed Replace or adjust existing closer Solution: 1 Quantity: EACH Cost Estimate: \$486.00 BSR: 1 Necessary
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29B Facility: Capitola Community Center Location: Classroom C Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: 1 of 1 Barrier Area: Doors or Gates Remediation: Required Barrier Type: Door Closer - Interior Adjustment Door opening force exceeds 5 lbf Code References: CBC 11B-404.2.9 & 2010 ADAS 404.2.9 As Built 9 lbf Proposed Replace or adjust existing closer Solution: 1 Quantity: K Coordinate: N/A Y Coordinate: N/A Y Coordinate: N/A
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29B Facility: Capitola Community Center Location: Classroom C Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Doors or Gates Remediation: Required Barrier Type: Door Closer - Interior Adjustment Barrier Type: Door opening force exceeds 5 lbf Description: Code References: CBC 11B-404.2.9 & 2010 ADAS 404.2.9 As Built 9 lbf Proposed Replace or adjust existing closer Solution: As-Built Meas: 1 Quantity: EACH Cost Estimate: \$486.00 BSR: 1 Necessary X Coordinate: N/A Z Coordinate: N/A Z Coordinate: N/A Proovep Implementation: Priority 2



ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29C
acility: Capitola Community Center
ocation: Classroom C
fficial Responsible: Brian Van Son, ADA Coordinator
acility Function: Public Dwg: 1 of 1
arrier Area: Doors or Gates Remediation: Required
arrier Type: Door Closer - Interior Sweep
arrier Door closer lacks min. 5 second sweep period/back check escription:
ode References: CBC 11B-404.2.8.1 & ADA/ABA 404.2.8.1
s Built 2 second sweep escription:
roposed Replace or adjust existing closer olution:
s-Built Meas: 0 Quantity: EACH Cost Estimate: \$0.00 BSR: 2 Recommended
Coordinate: N/A Y Coordinate: N/A Z Coordinate: N/A
nplementation: Priority 2 Phase Date Status Open
otes:
ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29D
ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29D acility: Capitola Community Center Capitola Community Center Capitola Community Center
ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29D acility: Capitola Community Center
ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29D acility: Capitola Community Center
ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29D acility: Capitola Community Center
ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29D acility: Capitola Community Center ocation: Classroom C fficial Responsible: Brian Van Son, ADA Coordinator acility Function: Public Dwg: 1 of 1 arrier Area: Doors or Gates Remediation: Required
ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29D acility: Capitola Community Center cation: Classroom C fficial Responsible: Brian Van Son, ADA Coordinator acility Function: Public Dwg: I of 1 arrier Area: Doors or Gates Remediation: Remediation: Required
ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29D acility: Capitola Community Center Classroom C fficial Responsible: Brian Van Son, ADA Coordinator acility Function: Public Dwg: 1 of 1 arrier Area: Doors or Gates Remediation: Required arrier Type: Threshold (replacement) arrier poor/Gate threshold height exceeds 1/2" with a bevel
ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29D acility: Capitola Community Center cocation: Classroom C fficial Responsible: Brian Van Son, ADA Coordinator acility Function: Public Dwg: 1 of 1 arrier Area: Doors or Gates Remediation: Required arrier Type: Threshold (replacement) arrier escription: Door/Gate threshold height exceeds 1/2" with a bevel ode References: CBC 11B-404.2.5 & 2010 ADAS 404.2.5
ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29D acility: Capitola Community Center Classroom C fficial Responsible: Brian Van Son, ADA Coordinator acility Function: Public Dwg: 1 of 1 arrier Area: Doors or Gates Remediation: Required arrier Type: Threshold (replacement) arrier escription: Door/Gate threshold height exceeds 1/2" with a bevel escription: CBC 11B-404.2.5 & 2010 ADAS 404.2.5 s Built Metal threshold has 3/4" high edge at exit side escription:
ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29D acility: Capitola Community Center ocation: Classroom C fficial Responsible: Brian Van Son, ADA Coordinator acility Function: Public acility Function: Public arrier Area: Doors or Gates arrier Type: Threshold (replacement) arrier Door/Gate threshold height exceeds 1/2" with a bevel escription: CBC 11B-404.2.5 & 2010 ADAS 404.2.5 s Built Metal threshold has 3/4" high edge at exit side
ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29D acility: Capitola Community Center ocation: Classroom C fficial Responsible: Brian Van Son, ADA Coordinator acility Function: Public acility Function: Public arrier Area: Doors or Gates Barrier Type: Threshold (replacement) arrier Door/Gate threshold height exceeds 1/2" with a bevel escription: CBC 11B-404.2.5 & 2010 ADAS 404.2.5 s Built Metal threshold has 3/4" high edge at exit side escription: Provide new door threshold olution: 2 Quantity: EACH Cost Estimate: \$594.00 BSR: 1 Necessary
ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29D acility: Capitola Community Center bocation: Classroom C fficial Responsible: Brian Van Son, ADA Coordinator acility Function: Public Dwg: 1 of 1 arrier Area: Doors or Gates Remediation: Required arrier Type: Threshold (replacement) arrier Door/Gate threshold height exceeds 1/2" with a bevel escription: Door/Gate threshold height exceeds 1/2" with a bevel escription: Ode References: CBC 11B-404.2.5 & 2010 ADAS 404.2.5 s Built Metal threshold has 3/4" high edge at exit side escription: Provide new door threshold olution: S-Built Meas: 2 Quantity: EACH Cost Estimate: \$594.00 BSR: 1 Necessary Coordinate: N/A Y Coordinate: N/A Z Coordinate: N/A APPROVED
ield Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29D acility: Capitola Community Center bocation: Classroom C fficial Responsible: Brian Van Son, ADA Coordinator acility Function: Public Dwg: 1 of 1 arrier Area: Doors or Gates Remediation: Required arrier Type: Threshold (replacement) arrier Door/Gate threshold height exceeds 1/2" with a bevel escription: Door/Gate threshold height exceeds 1/2" with a bevel escription: CBC 11B-404.2.5 & 2010 ADAS 404.2.5 s Built Metal threshold has 3/4" high edge at exit side escription: Provide new door threshold olution: s-Built Meas: 2 Quantity: EACH Cost Estimate: \$594.00 BSR: 1 Necessary Coordinate: N/A Y Coordinate: N/A Z Coordinate: N/A APPROVED mplementation: Priority 2 Phase Date Status Open.



Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29E
Facility: Capitola Community Center
Location: Classroom C
Official Responsible: Brian Van Son, ADA Coordinator
Facility Function: Public Dwg: 1 of 1
Barrier Area: Signage Remediation: Required
Barrier Type: Tactile Exit Sign - Route
Barrier Exit door to exterior thru exit enclosure, interior room or passageway lacks "EXIT ROUTE" sign Description:
Code References: CBC 11B-216.4.1 & 11B-703
As Built No tactile sign provided where required at entry door Description:
Proposed Provide compliant sign at exit side of door Solution:
As-Built Meas: 1 Quantity: EACH Cost Estimate: \$270.00 BSR: 2 Recommended
X Coordinate: N/A Y Coordinate: N/A Z Coordinate: N/A
Implementation: Priority 4 Phase Date Date Status Open
Notes:
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29F
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29F Facility: Capitola Community Center Image: Capitola Community Center Image: Capitola Community Center
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29F Facility: Capitola Community Center Location: Classroom C
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29F Facility: Capitola Community Center
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29F Facility: Capitola Community Center Location: Classroom C Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: 1 of 1
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29F Facility: Capitola Community Center
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29F Facility: Capitola Community Center Location: Classroom C Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: 1 of 1 Barrier Area: Doors or Gates Barrier Type: Doormats
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29F Facility: Capitola Community Center Location: Classroom C Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Barrier Area: Doors or Gates Barrier Type: Doormats Barrier Type: Doormat not anchored to floor (trip hazard)
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29F Facility: Capitola Community Center Location: Classroom C Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: 1 of 1 Barrier Area: Doors or Gates Remediation: Required Barrier Type: Doormats Barrier CBC 11B-302.2
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29F Facility: Capitola Community Center
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29F Facility: Capitola Community Center Location: Classroom C Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: 1 of 1 Barrier Area: Doors or Gates Remediation: Required Barrier Type: Doormats Barrier Doormat not anchored to floor (trip hazard) Description: COde References: CBC 11B-302.2 As Built Door mat not secured or recessed Description: Proposed Solution:
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29F Facility: Capitola Community Center
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29F Facility: Capitola Community Center Location: Classroom C Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Barrier Area: Doors or Gates Barrier Type: Doormats Barrier Type: Doormat not anchored to floor (trip hazard) Description: CBC 11B-302.2 As Built Door mat not secured or recessed Proposed Secure door mat or remove Solution: 1 Quantity: EACH Coordinate: N/A Y Coordinate: N/A
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29F Facility: Capitola Community Center Location: Classroom C Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: 1 of 1 Barrier Area: Doors or Gates Remediation: Required Barrier Type: Doormat not anchored to floor (trip hazard) Pescription: Code References: CBC 11B-302.2 As Built Door mat not secured or recessed Proposed Secure door mat or remove Solution: 1 Quantity: EACH Coordinate: N/A Z Coordinate: N/A Y Coordinate: N/A Implementation: Priority 2



Field Date:	4/20/2017	Repor	t Date: 5/	16/2017	Barrier #:	29G		
Facility:	Capitola Com	munity Ce	enter				NE	
Location:	Classroom C							
Official Respor	nsible: Brian	Van Son	, ADA Coord	dinator				
Facility Function	on: Public				Dwg:	1 of 1		
Barrier Area:	Controls and I	Mechanis	ms	Remedia	tion: Requi	red		
Barrier Type:	Actuator/Con	trol - Side	e Reach High	n (Safe Harbo	or)			
Barrier Description:	Control or me	chanism	at max. 54"	high				
Code Reference	es: ADA Title	II, Subpa	ort D, § 35.1	50 Existing fa	cilities § 35.	150(b)(2)(i)		
As Built Description:	Control for au	dio syste	m 50-1/8" ł	nigh on wall				
Proposed Solution:	No remediatio harbor	on require	ed. Control	or mechanisr	n complied v	vith prior co	de and is granted safe	
As-Built Meas:	1 Q	uantity:	EACH Co	st Estimate:	\$0.00	BSR:	3 Hindrance	
X Coordinate:	N/A		Y Coordina	te: N/A		Z Coordina	ate: N/A	
Implementatio	on: Priority	2	Phase		Date		Status Open	
Notes:								
Field Date:	4/20/2017	Repor	t Date: 5/	16/2017	Barrier #:	29H		
Field Date: Facility:	4/20/2017 Capitola Comi	Repor munity Ce	t Date: 5/2	16/2017	Barrier #:	29H		
Field Date: Facility: Location:	4/20/2017 Capitola Comi Classroom C	Repor	t Date: 5/2	16/2017	Barrier #:	29H		
Field Date: Facility: Location: Official Respon	4/20/2017 Capitola Com Classroom C nsible: Brian	Repor munity Ce Van Son	rt Date: 5/2 enter , ADA Coord	16/2017 dinator	Barrier #:	29Н		
Field Date: Facility: Location: Official Respon Facility Functio	4/20/2017 Capitola Com Classroom C nsible: Brian on: Public	Repor munity Ce Van Son	rt Date: 5/2 enter , ADA Coord	16/2017 dinator	Barrier #:	29H		
Field Date: Facility: Location: Official Respon Facility Function Barrier Area:	4/20/2017 Capitola Com Classroom C nsible: Brian on: Public Counters and	Repor munity Ce Van Son Tables	rt Date: 5/3 enter , ADA Coord	16/2017 dinator Remedia	Barrier #: Dwg:	29H		
Field Date:Facility:Location:Official ResponFacility FunctionBarrier Area:Barrier Type:	4/20/2017 Capitola Com Classroom C nsible: Brian on: Public Counters and Table - Knee C	Repor munity Ce Van Son Tables Clearance	t Date: 5/2 enter , ADA Coord	16/2017 dinator Remedia	Barrier #: Dwg: htion: Requi	29H		
Field Date: Facility: Location: Official Respon Facility Function Barrier Area: Barrier Type: Barrier Description:	4/20/2017 Capitola Com Classroom C nsible: Brian on: Public Counters and Table - Knee C Knee clearanc	Repor munity Ce Van Son Tables Clearance te not mir	n. 27" high,	16/2017 dinator Remedia 19" deep or 3	Barrier #: Dwg: ntion: Requi	29H		
Field Date:Facility:Location:Official ResponFacility FunctionBarrier Area:Barrier Type:BarrierDescription:Code Reference	4/20/2017 Capitola Com Classroom C nsible: Brian on: Public Counters and Table - Knee C Knee clearanc	Repor munity Co Van Son Tables Clearance e not mir 306.3 and	t Date: 5/2 enter , ADA Coord n. 27" high, d 2010 ADA	16/2017 dinator Remedia 19" deep or 3 S 306.3	Barrier #: Dwg: ntion: Requi	29H		
Field Date: Facility: Location: Official Respon Facility Function Barrier Area: Barrier Type: Barrier Description: Code Reference As Built Description:	4/20/2017 Capitola Com Classroom C Isible: Brian on: Public Counters and Table - Knee C Knee clearanc ces: CBC 11B- 26-1/2" high k	Repor munity Ce Van Son Tables Clearance e not mir 306.3 and cnee clear	t Date: 5/2 enter , ADA Coord n. 27" high, d 2010 ADA rance at rec	16/2017 dinator Remedia 19" deep or 3 S 306.3 tangular tabl	Barrier #: Dwg: ntion: Requi	29H		
Field Date:Facility:Location:Official ResponFacility FunctionBarrier Area:Barrier Type:Barrier Type:Code ReferenceAs BuiltDescription:ProposedSolution:	4/20/2017 Capitola Com Classroom C nsible: Brian on: Public Counters and Table - Knee C Knee clearanc ces: CBC 11B- 26-1/2" high k Provide min. 1	Repor munity Ce Van Son Tables Clearance e not mir 306.3 and snee clear	rt Date: 5/2 enter , ADA Coord h. 27" high, d 2010 ADA rance at rec ole table of d	16/2017 dinator Remedia 19" deep or 3 S 306.3 tangular tabl each type and	Barrier #: Dwg: Dwg: ation: Requi 30" wide es d 5% overall.	29H	stal base tables.	
Field Date:Facility:Location:Official ResponFacility FunctionBarrier Area:Barrier Type:Barrier Type:Code ReferenceAs BuiltDescription:ProposedSolution:As-Built Meas:	4/20/2017 Capitola Com Classroom C Isible: Brian on: Public Counters and Table - Knee C Knee clearanc ces: CBC 11B- 26-1/2" high k Provide min. 1	Repor munity Ce Van Son Tables Clearance e not mir 306.3 and cnee clead L accessib	t Date: 5/2 enter , ADA Coord n. 27" high, d 2010 ADA rance at rec ple table of o	16/2017 dinator Remedia 19" deep or 3 S 306.3 tangular tabl each type and ost Estimate:	Barrier #: Dwg: Dwg: ation: Requi 30" wide es d 5% overall.	29H	Stal base tables.	
Field Date:Facility:Location:Official ResponFacility FunctionBarrier Area:Barrier Type:Barrier Description:Code ReferenceAs BuiltDescription:ProposedSolution:As-Built Meas:X Coordinate:	4/20/2017 Capitola Comr Classroom C nsible: Brian on: Public Counters and Table - Knee C Knee clearanc ces: CBC 11B- 26-1/2" high k Provide min. 1 1 Q	Repor munity Co Van Son Tables Clearance e not mir 306.3 and cnee clear L accessit	t Date: 5/2 enter , ADA Coord n. 27" high, d 2010 ADA rance at rec ple table of o EACH Co Y Coordina	16/2017 dinator Remedia 19" deep or 3 S 306.3 tangular tabl each type and ost Estimate: te: N/A	Barrier #: Dwg: Dwg: ation: Requi 30" wide es d 5% overall. \$486.00	29H 1 of 1 red Avoid pede BSR: Z Coordina	stal base tables.	
Field Date:Facility:Location:Official ResponFacility FunctionBarrier Area:Barrier Type:Barrier Type:Description:Code ReferenceAs BuiltDescription:ProposedSolution:As-Built Meas:X Coordinate:	4/20/2017 Capitola Com Classroom C nsible: Brian on: Public Counters and Table - Knee C Knee clearanc ces: CBC 11B- 26-1/2" high k Provide min. 1 1 Q N/A on: Priority	Repor munity Ce Van Son Tables Clearance e not mir 306.3 and cnee clear L accessib uantity:	t Date: 5/2 enter , ADA Coord n. 27" high, d 2010 ADA rance at rec ple table of o EACH Co Y Coordinar Phase	16/2017 dinator Remedia 19" deep or 3 S 306.3 tangular tabl each type and ost Estimate: te: N/A	Barrier #: Dwg: Dwg: ation: Requi 30" wide es d 5% overall. \$486.00 Date	29H 1 of 1 red Avoid pede BSR: Z Coordina	stal base tables.	



Field Date:	4/20/2017 Repor	rt Date: 5/16/	2017 Bar	rier #:	291	La f		
Facility:	Capitola Community Co	enter						
Location:	Classroom C				C			
Official Respo	sponsible: Brian Van Son, ADA Coordinator							
Facility Functi	on: Public			Dwg: 1	l of 1	X.		
Barrier Area:	Counters and Tables		Remediation	Requir	ed			
Barrier Type:	Table - Knee Clearance							
Barrier Description:	Knee clearance not min	n. 27" high, 19"	deep or 30" w	/ide				
Code Referen	ces: CBC 11B-306.3 an	d 2010 ADAS 3	06.3					
As Built Description:	Round tables have 26- at opposite ends	1/4" high knee	clearance to s	upports a	t two sides,	22" high knee clearance		
Proposed Solution:	Provide min. 1 accessit	ble table of eac	h type and 5%	overall. A	Avoid pedest	al base tables.		
As-Built Meas	: 1 Quantity:	EACH Cost E	Estimate: \$48	36.00	BSR: 3	Hindrance		
X Coordinate:	N/A	Y Coordinate:	N/A		Z Coordinat	e: N/A		
Implementati	on: Priority 2	Phase	C)ate		Status Open		
Notes:								
I								
Field Date:	4/20/2017 Repo	rt Date: 5/16/	2017 Bar	rier #:	29J			
Field Date: Facility:	4/20/2017 Report Capitola Community Co	rt Date: 5/16/	2017 Bar	rier #:	29J			
Field Date: Facility: Location:	4/20/2017 Report Capitola Community Co Classroom C	rt Date: 5/16/ enter	2017 Bar	rier #: ┃	29J			
Field Date: Facility: Location: Official Respo	4/20/2017 Report Capitola Community Co Classroom C nsible: Brian Van Son	rt Date: 5/16/ enter , ADA Coordina	2017 Bar itor	rier #:	29J			
Field Date: Facility: Location: Official Respo Facility Functi	4/20/2017 Report Capitola Community Co Classroom C nsible: Brian Van Son on: Public	rt Date: 5/16/ enter , ADA Coordina	2017 Bar	rier #:	29J			
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area:	4/20/2017 Report Capitola Community Co Classroom C nsible: Brian Van Son on: Public Controls and Mechanis	rt Date: 5/16/ enter , ADA Coordina	2017 Bar ator Remediation:	Dwg: 1	29J			
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type:	4/20/2017 Report Capitola Community Co Classroom C nsible: Brian Van Son on: Public Controls and Mechanis Electrical Outlets - High	rt Date: 5/16/ enter , ADA Coordina sms n/Low Reach	2017 Bar ator Remediation:	Trier #: Dwg: Require	29J			
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description:	4/20/2017 Report Capitola Community Co Classroom C nsible: Brian Van Son on: Public Controls and Mechanis Electrical Outlets - High Use of outlet requires	rt Date: 5/16/ enter , ADA Coordina sms n/Low Reach low reach of les	2017 Bar ator Remediation: ss than 15" abo	Dwg: 1	29J	an 48"		
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen	4/20/2017 Report Capitola Community Co Classroom C nsible: Brian Van Son on: Public Controls and Mechanis Electrical Outlets - High Use of outlet requires ces: CBC 11B-308.1.2,	rt Date: 5/16/ enter , ADA Coordina sms n/Low Reach low reach of les 11B-308.2.1 &	2017 Bar ator Remediation: ss than 15" abo 2010 ADAS 300	Dwg: 1	29J	an 48"		
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description:	4/20/2017ReporCapitola Community Consible:Brian Van SonClassroom CBrian Van Sonon:PublicControls and MechanisElectrical Outlets - HighUse of outlet requiresces:CBC 11B-308.1.2,Outlet 12" OC under tag	rt Date: 5/16/ enter , ADA Coordina sms n/Low Reach low reach of les 11B-308.2.1 & ibles	2017 Bar ator Remediation: ss than 15" abo 2010 ADAS 30	Dwg: 1 Require	29J	an 48"		
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution:	4/20/2017 Report Capitola Community Controls Classroom C nsible: Brian Van Son on: Public Controls and Mechanis Electrical Outlets - High Use of outlet requires ces: CBC 11B-308.1.2, Outlet 12" OC under tag Relocate outlet to area	rt Date: 5/16/ enter , ADA Coordina sms n/Low Reach low reach of les 11B-308.2.1 & ibles	2017 Bar ator Remediation: as than 15" abo 2010 ADAS 30 low reach or n	Dwg: 1 Dwg: 1 Require ove floor 8.2.2	29J	an 48"		
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas	4/20/2017 Report Capitola Community Controls Classroom C nsible: Brian Van Son on: Public Controls and Mechanis Electrical Outlets - High Use of outlet requires ces: CBC 11B-308.1.2, Outlet 12" OC under tag Relocate outlet to area :: 1 Quantity:	rt Date: 5/16/ enter , ADA Coordina sms n/Low Reach low reach of les 11B-308.2.1 & ibles with min. 15" EACH Cost F	2017 Bar ator Remediation: ss than 15" abo 2010 ADAS 30 low reach or n	rier #: Dwg: 1 Require ove floor 8.2.2	29J	an 48"		
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate:	4/20/2017 Report Capitola Community Concentration Community Concentration Consible: Brian Van Son On: Public Controls and Mechanis Electrical Outlets - High Use of outlet requires Concentration Controls and Mechanis Electrical Outlets - High Controls and Mechanis Electrical Outlet requires CBC 11B-308.1.2, Outlet 12" OC under ta	rt Date: 5/16/ enter , ADA Coordina sms n/Low Reach low reach of les 11B-308.2.1 & ibles with min. 15" EACH Cost E Y Coordinate:	2017 Bar ator Remediation: as than 15" abo 2010 ADAS 30 low reach or m stimate: \$81	rier #: Dwg: 1 Require ove floor 8.2.2 hax. 48" h	29J of 1 ed or higher tha high reach BSR: 3 Z Coordinat	An 48" Hindrance		
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description: Proposed Solution: As-Built Meas X Coordinate: Implementati	4/20/2017 Report Capitola Community Controls and Community Controls and Mechanis Outrols and Mechanis Electrical Outlets - High Use of outlet requires Cess: CBC 11B-308.1.2, Outlet 12" OC under ta Relocate outlet to area :: 1 Quantity: N/A on: Priority 2	rt Date: 5/16/ enter , ADA Coordina sms n/Low Reach low reach of les 11B-308.2.1 & bles with min. 15" EACH Cost E Y Coordinate: Phase	2017 Bar ator Remediation: as than 15" abo 2010 ADAS 300 low reach or n Estimate: \$81 N/A	Dwg: 1 Dwg: 1 Require ove floor 8.2.2 hax. 48" h .0.00	29J of 1 ed or higher that high reach BSR: 3 Z Coordinat	An 48" Hindrance		



Report Date: 5/10/2017 Barrier #. (29K
Facility: Capitola Community Center
Location: Classroom C
Official Responsible: Brian Van Son, ADA Coordinator
Facility Function: Public Dwg: 1 of 1
Barrier Area: Controls and Mechanisms Remediation: Required
Barrier Type: Actuator/Control - Side Reach High Unobstructed
Barrier Control or mechanism not at min. 15" or max. 48" high Description:
Code References: CBC 11B-305.3 and 2010 ADAS 305.3
As Built Accordion door controls 58-1/2" OC Description:
Proposed Provide assistance Solution:
As-Built Meas: 0 Quantity: EACH Cost Estimate: \$0.00 BSR: 3 Hindrance
X Coordinate: N/A Y Coordinate: N/A Z Coordinate: N/A
Implementation: Priority 2 Phase Date Date Status Open
Notes:
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29L
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29L Facility: Capitola Community Center Image: Capitola Community Center Image: Capitola Community Center
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29L Facility: Capitola Community Center Image: Classroom C Image: Classroom C
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29L Facility: Capitola Community Center Location: Classroom C Official Responsible: Brian Van Son, ADA Coordinator
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29L Facility: Capitola Community Center Location: Classroom C Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: 1 of 1
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29L Facility: Capitola Community Center Location: Classroom C Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Barrier Area: Counters and Tables Remediation: Required
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29L Facility: Capitola Community Center Location: Classroom C Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: 1 of 1 Barrier Area: Counters and Tables Remediation: Required Barrier Type: Counter - Surface Height
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29L Facility: Capitola Community Center Image: Classroom C Image: Classroom C Image: Classroom C Official Responsible: Brian Van Son, ADA Coordinator Image: Dwg: I of 1 Image: Image: Classroom C Facility Function: Public Image: Dwg: I of 1 Image: Classroom C Barrier Area: Counters and Tables Remediation: Required Barrier Type: Counter - Surface Height Image: No section at least 3 feet long between 28" and 34" provided at existing counter Description: Image: No section at least 3 feet long between 28" and 34" provided at existing counter
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29L Facility: Capitola Community Center
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29L Facility: Capitola Community Center
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29L Facility: Capitola Community Center
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29L Facility: Capitola Community Center
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29L Facility: Capitola Community Center Location: Classroom C Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Barrier Area: Counters and Tables Remediation: Required Barrier Type: Counter - Surface Height Barrier Description: Code References: CBC 11B-902.3 and 2010 ADAS 902.3 As Built Kitchen service counter 35-1/2" high Proposed Provide min. 3 ft long section of counter at max. 34" high Solution: As-Built Meas: 1 Quantity: EACH Cost Estimate: \$945.00 BSR: 3 Hindrance X Coordinate: N/A Y Coordinate: N/A Z Coordinate: N/A Z Coordinate: N/A
Field Date: 4/20/2017 Report Date: 5/16/2017 Barrier #: 29L Facility: Capitola Community Center Location: Classroom C Official Responsible: Brian Van Son, ADA Coordinator Facility Function: Public Dwg: 1 of 1 Barrier Area: Counters and Tables Remediation: Required Barrier Type: Counter - Surface Height Barrier Description: No section at least 3 feet long between 28" and 34" provided at existing counter Code References: CBC 11B-902.3 and 2010 ADAS 902.3 As Built Kitchen service counter 35-1/2" high Description: Provide min. 3 ft long section of counter at max. 34" high Solution: As-Built Meas: 1 Quantity: EACH Cost Estimate: \$945.00 BSR: 3 Hindrance X Coordinate: N/A Y Coordinate: N/A Z Coordinate: N/A Y Coordinate: N/A Z Coordinate: N/A



Field Date:	4/20/2017 Repo	rt Date: 5/16/201	7 Barrier #: 29	A A A A A A A A A A A A A A A A A A A
Facility:	Capitola Community (Center		
Location:	Classroom C			
Official Respon	sible: Brian Van So	n, ADA Coordinator		
Facility Function	on: Public		Dwg: 1 c	of 1
Barrier Area:	Counters and Tables	Re	mediation: Required	
Barrier Type:	Counter - Protruding (Dbject		
Barrier Description:	Counter or table in ro	ute of travel protru	des more than 4" abo	ve 27" high
Code Referenc	es: CBC 11B-307 and	2010 ADAS 307		
As Built Description:	Kitchen service counte	er protrudes 5-1/2"	from wall at 34" high	
Proposed Solution:	Provide cane-detectal	ble warning that rea	aches below 27" high	for the visually impaired
As-Built Meas:	1 Quantity:	EACH Cost Esti	mate: \$594.00	BSR: 1 Necessary
X Coordinate:	N/A	Y Coordinate: N/	A Z	Coordinate: N/A
Implementatio	on: Priority 2	Phase	Date	Status Open
Notes:				
Field Date:	4/20/2017 Repo	rt Date: 5/16/201	7 Barrier #: 29	N N
Field Date: Facility:	4/20/2017 Repo Capitola Community C	rt Date: 5/16/201 Center	7 Barrier #: 29	
Field Date:	4/20/2017 Repo Capitola Community C Classroom C	rt Date: 5/16/201 Center	7 Barrier #: 29	
Field Date:	4/20/2017 Repo Capitola Community C Classroom C nsible: Brian Van Sou	rt Date: 5/16/201 Center n, ADA Coordinator	7 Barrier #: 29	
Field Date:	4/20/2017 Repo Capitola Community C Classroom C nsible: Brian Van Son on: Public	rt Date: 5/16/201 Center n, ADA Coordinator	7 Barrier #: 29 Dwg: 1 c	of 1
Field Date: Facility: Location: Official Respon Facility Function Barrier Area:	4/20/2017 Repo Capitola Community C Classroom C nsible: Brian Van Sou on: Public Signage	rt Date: 5/16/201 Center h, ADA Coordinator	7 Barrier #: 29 Dwg: 1 c emediation: Required	of 1
Field Date: Facility: Location: Official Respon Facility Function Barrier Area: Barrier Type: Barrier Description:	4/20/2017 Repo Capitola Community C Classroom C nsible: Brian Van Sou on: Public Signage Tactile Exit Sign - Exit Ground floor doors th	rt Date: 5/16/201 Center h, ADA Coordinator Re at exit to exterior r	7 Barrier #: 29 Dwg: 1 c emediation: Required	of 1 s stating "EXIT"
Field Date: Facility: Location: Official Respon Facility Function Barrier Area: Barrier Type: Barrier Description: Code Reference	4/20/2017 Repo Capitola Community C Classroom C nsible: Brian Van Sou on: Public Signage Tactile Exit Sign - Exit Ground floor doors th ses: CBC 11B-216.4.1	rt Date: 5/16/201 Center n, ADA Coordinator Re at exit to exterior r & 11B-703	7 Barrier #: 29 Dwg: 1 o emediation: Required	of 1 s stating "EXIT"
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Field Date:Facility:Location:Official ResponFacility FunctionBarrier Area:Barrier Type:BarrierDescription:Code ReferenceAs BuiltDescription:ProposedSolution:	4/20/2017 Repo Capitola Community C Classroom C nsible: Brian Van Sor on: Public Signage Tactile Exit Sign - Exit Ground floor doors th ees: CBC 11B-216.4.1 No tactile sign provide Provide compliant sign	rt Date: 5/16/201 Center n, ADA Coordinator at exit to exterior r & 11B-703 ed where required a n at exit side of doo	7 Barrier #: 29 Dwg: 1 c emediation: Required of provided with sign at doors to exterior	PN of 1 s stating "EXIT"
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Field Date:Facility:Location:Official ResponFacility FunctionBarrier Area:Barrier Type:Barrier Description:Code ReferenceAs BuiltDescription:ProposedSolution:As-Built Meas:X Coordinate:	4/20/2017 Report Capitola Community C Classroom C nsible: Brian Van Son pn: Public Signage Tactile Exit Sign - Exit Ground floor doors th res: CBC 11B-216.4.1 No tactile sign provide Provide compliant sign 1 Quantity: N/A	rt Date: 5/16/201 Center n, ADA Coordinator Re at exit to exterior r & 11B-703 ed where required a n at exit side of door EACH Cost Esti Y Coordinate: N/	7 Barrier #: 29 7 Dwg: 1 d 1 Dwg: 1 d 1 Required 1 doors Required 1 doors to exterior 1 1 doors to exterior 1	PN of 1 s stating "EXIT" BSR: 1 Necessary Coordinate: N/A APPROVED IOB COPY
Field Date:Facility:Location:Official ResponFacility FunctionBarrier Area:Barrier Type:Barrier Description:Code ReferenceAs BuiltDescription:ProposedSolution:As-Built Meas:X Coordinate:Implementation	4/20/2017 Report Capitola Community C Classroom C nsible: Brian Van Son pn: Public Signage Tactile Exit Sign - Exit Ground floor doors th ees: CBC 11B-216.4.1 No tactile sign provide Provide compliant sign 1 Quantity: N/A on: Priority 4	rt Date: 5/16/201 Center n, ADA Coordinator Re at exit to exterior r & 11B-703 ed where required a n at exit side of doo EACH Cost Esti Y Coordinate: N/ Phase	7 Barrier #: 29 7 Dwg: 1 d 1 Dwg: 1 d 1 Required 1 Required 1 doors to exterior 1 or 1 mate: \$270.00 2 Date	PN of 1 a s stating "EXIT" BSR: 1 Necessary Coordinate: N/A APPROVED JOB COPY Status OCCUPATION



Field Date:	4/20/2017 Repo	rt Date: 5/16/2	2017 Bar	rier #: 290	1 1 10
Facility:	Capitola Community C	enter			
Location:	Classroom C				
Official Respo	nsible: Brian Van Sor	n, ADA Coordina	itor		
Facility Functi	on: Public			Dwg: 1 of	
Barrier Area:	Doors or Gates		Remediation:	Required	
Barrier Type:	Door Closer - Exterior	Adjustment			
Barrier Description:	Door opening force ex	ceeds 5 lbf			
Code Referen	ces: CBC 11B-404.2.9				
As Built Description:	9 lbf				
Proposed Solution:	Replace or adjust exist	ting closer			
As-Built Meas	: 1 Quantity:	EACH Cost E	stimate: \$48	6.00	BSR: 1 Necessary
X Coordinate:	N/A	Y Coordinate:	N/A	ZC	oordinate: N/A
Implementati	on: Priority 2	Phase	D	ate	Status Open
Notes.					
Field Date:	4/20/2017 Repo	rt Date: 5/16/2	2017 Bar	rier #: 29P	
Field Date: Facility:	4/20/2017 Repo	rt Date: 5/16/2 enter	2017 Bar	rier #: 29P	
Field Date: Facility: Location: Official Respo	4/20/2017 Repo Capitola Community C Classroom C	rt Date: 5/16/2	2017 Bar	rier #: 29P	
Field Date: Facility: Location: Official Respo Facility Functi	4/20/2017 Repo Capitola Community C Classroom C nsible: Brian Van Sor on: Public	rt Date: 5/16/2 Center n, ADA Coordina	2017 Bar	rier #: 29P	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area:	4/20/2017 Repo Capitola Community C Classroom C nsible: Brian Van Sor on: Public Doors or Gates	rt Date: 5/16/2 Center n, ADA Coordina	2017 Barn ntor Remediation:	rier #: 29P Dwg: 1 of Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type:	4/20/2017 Repo Capitola Community C Classroom C nsible: Brian Van Sor on: Public Doors or Gates Door Closer - Exterior	rt Date: 5/16/2 Center n, ADA Coordina Sweep	2017 Barn ntor Remediation:	rier #: 29P Dwg: 1 of Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description:	4/20/2017 Repo Capitola Community C Classroom C nsible: Brian Van Sor on: Public Doors or Gates Door Closer - Exterior Door closer lacks min.	rt Date: 5/16/2 enter h, ADA Coordina Sweep 5 second sweep	2017 Bar ator Remediation: period/back c	rier #: 29P Dwg: 1 of Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen	4/20/2017 Repo Capitola Community C Classroom C nsible: Brian Van Sor on: Public Doors or Gates Door Closer - Exterior Door closer lacks min. ces: CBC 11B-404.2.8.	rt Date: 5/16/2 enter h, ADA Coordina Sweep 5 second sweep 1 & 2010 ADAS	2017 Barn ntor Remediation: p period/back of 404.2.8.1	rier #: 29P Dwg: 1 of Required	
Field Date: Facility: Location: Official Respo Facility Functi Barrier Area: Barrier Type: Barrier Description: Code Referen As Built Description:	4/20/2017RepoCapitola Community CClassroom Cnsible:Brian Van Soron:PublicDoors or GatesDoor Closer - ExteriorDoor closer lacks min.ces:CBC 11B-404.2.8.2 second sweep	rt Date: 5/16/2 Fenter h, ADA Coordina Sweep 5 second sweep 1 & 2010 ADAS	2017 Barn ator Remediation: period/back of 404.2.8.1	rier #: 29P Dwg: 1 of Required	
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COST ESTIMATES





Cost Estimate Total	\$332.619.00		
Cost Estimate - Priority 1:	\$269,212.00	% of Total Cost Estimate:	80.94%
Cost Estimate - Priority 2:	\$46,159.00	% of Total Cost Estimate:	13.88%
Cost Estimate - Priority 3:	\$13,198.00	% of Total Cost Estimate:	3.97%
Cost Estimate - Priority 4:	\$4,050.00	% of Total Cost Estimate:	1.22%





APPENDIX – REFERENCE DRAWINGS







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ELECTRIC VEHICLE CHARGING STATION BLINK SERIES 8 ADA COMPLIANT



Reviewed for Code Compliance Signed _____M for EM ______ Date ______ Permit #_____20240100

Series 8 EV Charging Station



	48 A						
ELECTRICAL SPECIFICATION - AC OUTPUT							
Number of Ports	Тwo						
Current	Configurable up to 48A Max per port						
Power	Up to11.52kW (@240VAC) or 9.984kW (@208VAC) Max per port						
Energy Metering Accuracy	+/- 1%						
Charging Connector	SAE J1772						
ELECTRICAL SPECIFICATION - AC INPUT							
Input Connector	Hardwired						
Voltage	208 or 240 VAC						
Service Panel Breaker	Two-pole common trip 60A breaker, dedicated circuit per port						
Power Connection	Line 1, Line 2 and GND (no neutral) per port						
Standby Power	6.5 W Typical						
SAFETY SPECIFICATION							
Ground Fault Circuit Interrupt	20mA CCID with auto retry (every 15 seconds))						
Automatic Plug-Out Detection	Power terminated per SAE J1772 spec						
Surge Protection	6kV @3,000A						
NETWORK SPECIFICATION							
Data Communication	Cellular 4G LTE						
Charging Infrastructure Communication	OCPP 1.6 compliant						
Remote Management	Remote access, diagnostics, Over-the-Air (OTA) software update enabled						
Load Management	Smart, dynamic allocation and distribution of power to each p						



Series 8 EV Charging Station



	48 A				
USER INTERACTION SPECIFICATION					
Charging Status Indicator	High visibility, multi-color LED visual status indication				
Display	4.3" color LCD, 480 x 272				
Authentication	RFID: ISO14443 Type A & B, MiFare, Felica, ISO15693				
Payment	Optional: Apple/Google Pay, Contactless/Magnetic/EMV Credit Card/Tap to Pay				
ENVIRONMENTAL SPECIFICATION					
Enclosure	Aluminum, NEMA 3R certified				
Operating Humidity	Up to 95% non-condensing				
Operating Temperature	-30 degree C to +50 degree C ambient				
Operating Altitude	≤6560 ft				
MECHANICAL SPECIFICATION					
Dimensions	Charging Head: 24″ H x 7.4″ W x 7.5″ D Charging Head: w/cc reader 24″ H x 7.4″ W x 9″ D				
Approximate Weights	Charging Head: 21 lbs Charging Head w/ cc reader 21.7 lbs Pedestal 12.5 lbs. Wall mount: 11.5 lbs.				
Mounting Option	Wall or Pedestal mount				
Cable Length	18ft standard, 25ft optional				
Cable Organizer	Optional				
REGULATION					
Safety	UL 2594 / CSA C22.2 No. 280-16 UL 2231-1 / CSA C22.2 No. 281.1-12, UL 2231-2 / CSA C22.2 No. 281.2-12 certified				
EMI	FCC Part 15 Class A compliant				
Energy Efficiency	Energy Star certified				
Compliance	California Type Evaluation Program (CTEP) certified, Buy American ACT (BAA) compliant				
Accessibility	ADA compliant				



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SCHIER SV10



NOTES

- 1. 4" plain end inlet/outlet
- 2. Field modifiable to 6" plain end inlet/outlet
- 3. Unit weight 9 lbs.
- 4. Maximum operating temperature: 150° F continuous
- 5. Offset connections
- 6. 2 rolls of 33" x 2" butyl mastic tape provided for sealing build-your-own riser joints

ENGINEER SPECIFICATION GUIDE

Schier Sewer Viewer™ sampling port model # SV10 shall be lifetime guaranteed and madein USA of seamless, rotationally-molded polyethylene. Sampling port shall be furnished for above or below grade installation. Cover shall provide water/gas-tight seal and have minimum 16,000 lbs. load capacity.

ACCESSORIES:

• Field Cut Risers for extending cover to grade





SPECIFICATION SHEET											
MODEL NUMBER:	PART NU	MBER:	8065	-001-01							
SV10	DESCRIPTION: SV10 SEWER VIEWER SAMPLING PORT, 4" CONNECTIONS (FIELD MODI POLYETHELENE COVER										
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SCHIER PRODUCTS. ANY PERPOPULATION IN PART OF AS A WHOLE WITHOUT											
THE WRITTEN PERMISSION OF SCHIER PRODUCTS IS PROHIBITED.	DWG BY:	B.BROV	VN	DATE:	6/6/2022	REV:	-	ECO:			