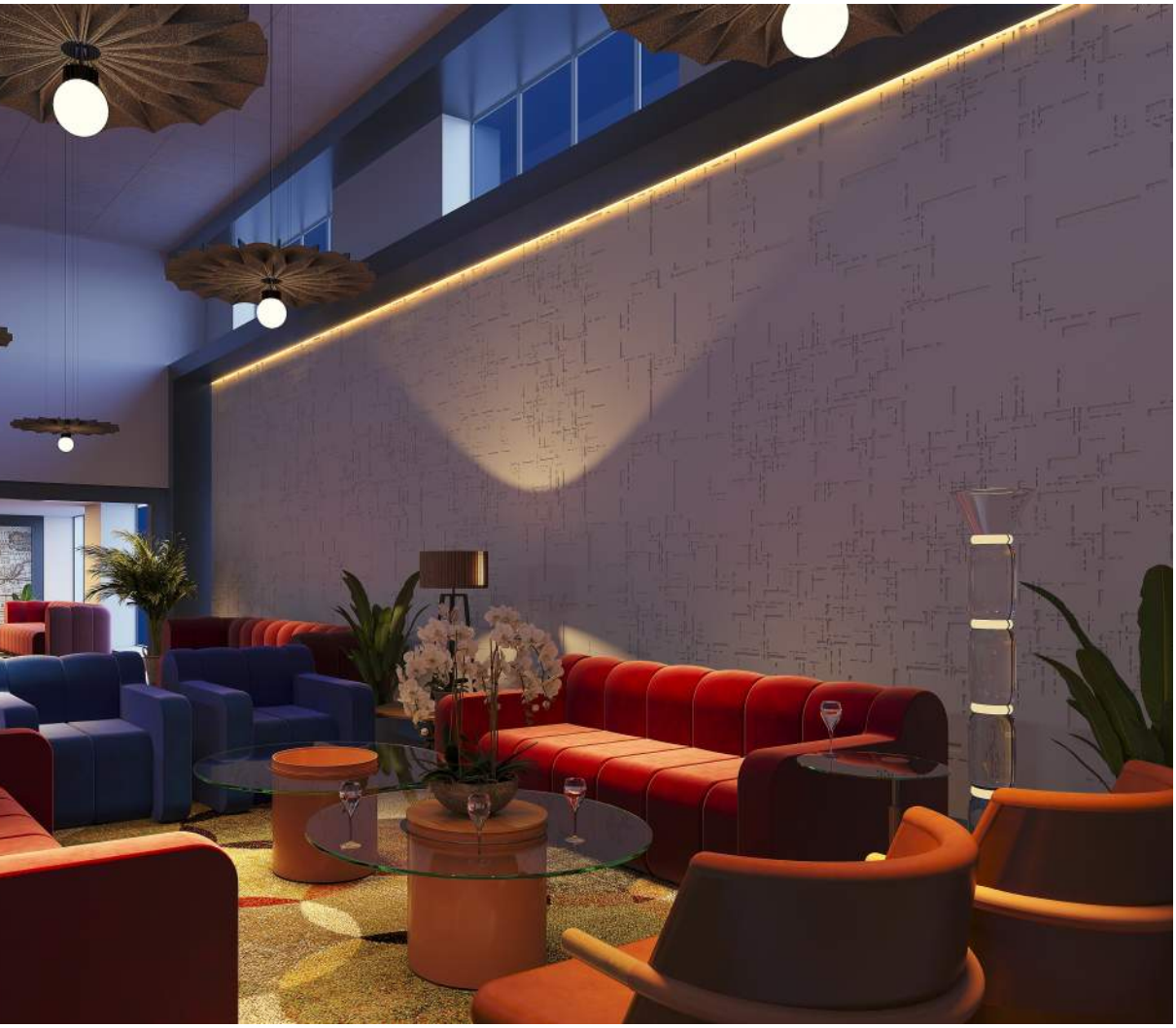
Calm-Branches

Product Specifications

Branches is part of the Calm Collection, a collaboration with 13&9 and Fractals Research.

Inspired by glimpses of trees overhead, Calm-Branches creates a visual landscape that helps reduces stress through natural fractal patterns. The design is built from a three-part line, repeated, re-scaled, and rearranged with scientific precision. The resulting surface prompts the same eye movements as a canopy of crisscrossing branches. Research shows that perceiving natural fractal patterns activates a stress-relief response in our bodies. By tapping into that natural response, Calm-Branches supports a sense of calmness and concentration in your spaces.



Material
9mm Polyester (PET) Felt +/- 0.35"

Size
24" (l) x 24" (w) x +/- .7" (d)

Weight
3.5 lb

Warranty
3-Year

Flammability
ASTM E84 Class A Certified / CAN/ULC-S102.2

Environmental
Polyester (PET) felt 60% pre-consumer recycled

Color
Choose from one of our standard colors shown below. **See page 4 for additional colors that can be added as accents to your design.**

Slight variations in color should be expected when using this material.
We suggest that you request a material sample to verify felt colors.

Acoustics

Wall installation

- Test Method - ASTM E795-16 Type E-400 Mounting - NRC ..30

Testing results available upon request at sales@fact.design

Lead Time
Ships in four (4) weeks

Application
Commercial/Office, Education, Hospitality, Retail

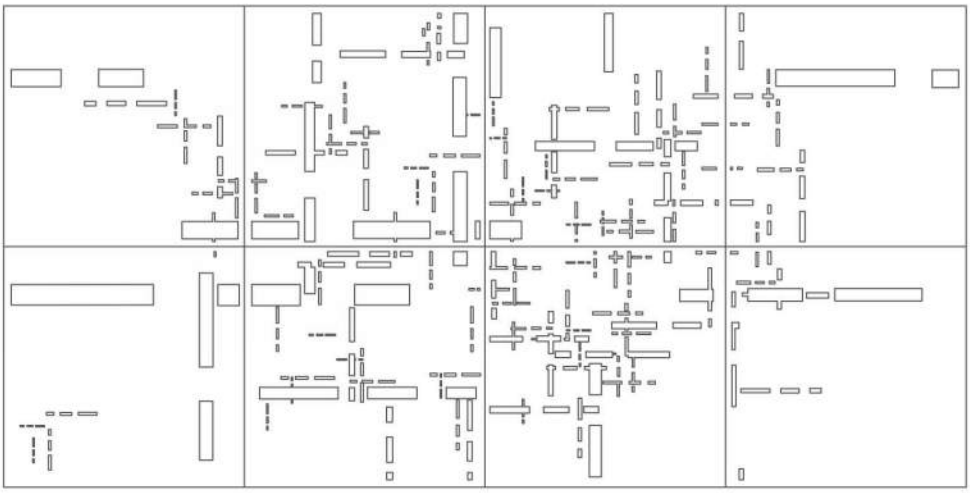
Pattern
Non-Directional

Installation / Maintenance

Each pattern repeats every 8 tiles and is non-directional. The tiles should be installed with a construction- grade adhesive specified by the contractor. Please note that due to the nature of the material seaming between tiles can show. Also, there can be some inconsistencies in both color and thickness between tiles.

To remove dust or air-born particulate matter, simply vacuum the tiles or use compressed air. For deeper cleaning of stains, use a clean cloth or sponge with a non-solvent base solution of carpet shampoo always making sure to follow the manufacturer's instructions. Starting from the outside of the stain work in a circular motion towards the center which should avoid spreading the stain. Afterwards, use a clean sponge or cloth with clean warm water to remove excess moisture. Allow to dry, then brush the area gently with a soft brush if needed.

The treatments listed above are intended as general guidance only. FACT design takes no responsibility for any damage that may occur from the execution of the treatment listed above.



FACT accent colors (US only)

camira Blazer – Catagory A

Min. Requirements:
Ceilings – 160 sq. ft. per color
Walls – 40 sq. ft. per color

If your project requires less, please reach out to your **local rep** to discuss the project.

---

camira Blazer Lite – Catagory A

Min. Requirements:
Ceilings – 160 sq. ft. per color
Walls – 40 sq. ft. per color

If your project requires less, please reach out to your **local rep** to discuss the project.

---

kvadrat Divina 3 – Catagory B

Min. Requirements:
Ceilings – 320 sq. ft. per color
Walls – 40 sq. ft. per color

If your project requires less, please reach out to your **local rep** to discuss the project.

---

kvadrat Divina Melange 3 – Catagory B

Min. Requirements:
Ceilings – 320 sq. ft. per color
Walls – 40 sq. ft. per color

If your project requires less, please reach out to your **local rep** to discuss the project.

---

kvadrat Divina MD – Catagory B

Min. Requirements:
Ceilings – 320 sq. ft. per color
Walls – 40 sq. ft. per color

If your project requires less, please reach out to your **local rep** to discuss the project.

FACT accent colors (Canada only)

metro faux felt – Category A

Min. Requirements:
Ceilings – none
Walls – none

Flex™ Decorative Wall Protection

3875 Embassy Parkway
Fairlawn, OH 44333
855.753.5474 | koroseal.com

Nordic

FACT SHEET

Like the landscape of a forest, Nordic captures the basic beauty and peaceful tones of many wood species.

		US UNITS	METRIC UNITS
Total Weight		35 oz. PLY 22.4 oz. PSY	992 g PLM 635 g PSM
Roll Width		52 in.	132 cm.
Backing		Woven	
Federal Spec.		CCC-W-408D, Type III	
WA Spec.		WA-101, Type III	
ASTM F-793		Category VI, Type III	
Fire Testing		ASTM E-84, CAN S102M Tunnel Test[1] Class A Rating NFPA 286 - Meets 2006 IBC Section 803.2.1	
Indoor Air Quality		California 01350 – Meets emission requirements for schools and offices	
Repeat	Vertical Horizontal Nominal Information Match Information	N/A N/A 52 in. Non-Reverse Hang, Random Match	

1 When applied to GRC board with A-848-B adhesive

Available in 8 Colorways

NRD1-12 Washed
NRD1-91 Weathered
NRD1-46 Beam
NRD1-95 Smoked
NRD1-14 Maple
NRD1-42 Ash
NRD1-44 Teak
NRD1-48 Walnut

Koroseal® is a registered trademark of Koroseal Interior Products, LLC.
Flex™ is a trademark of Koroseal Interior Products, LLC.
©2020 Koroseal Interior Products, LLC.

koroseal®

Stratta Unlit Overview

Specifications

CONSTRUCTION Sola Felt over metal frame.

END CAPS Fixture body color-matched Sola Felt standard; wood end caps optional.

SHADES 9mm thick Sola Felt is a PET material, manufactured with 50% post-consumer recycled content. Sola Felt is a LBC Red List Free labeled product, eligible for LEED, Living Building Challenge, and other green building certification credits.

MOUNTING Adjustable stainless steel aircraft cable, contact studio for lengths over 20'.

CERTIFICATION Sola Felt has been independently tested and meet the criteria for approved interior finishes as described in the 2018 International Building Code®. See 3form Sola Felt spec sheet for more information.

WARRANTY 5 year warranty on all standard components.

CARE The best way to remove airborne debris and dust from shades is to periodically vacuum. A Swiffer sheet or feathered duster can also be used for light dusting. To treat liquid stains, remove spills immediately with a clean damp cotton cloth or with detergent soap and warm water. Carpet and fabric cleaners can usually be used. Always test an inconspicuous area before applying cleaners to the actual stain.

Stratta Unlit Fixture Options

DIMENSIONS *Also available lit. See Stratta Spec Sheet.*

HEIGHT, WIDTH, LENGTH

6"H 1.93"W | 12"H 1.93"W | 16"H 1.93"W

37.5"L – FELT END CAP
38"L – WOOD END CAP

49.5"L – FELT END CAP
50"L – WOOD END CAP

61.5"L – FELT END CAP
62"L – WOOD END CAP

73.5"L – FELT END CAP
74"L – WOOD END CAP

85.5"L – FELT END CAP
86"L – WOOD END CAP

97.5"L – FELT END CAP
98"L – WOOD END CAP

Declare.

Sola Felt, Clario, Hush Clad, and Tetria Acoustic Solutions
3form

Final Assembly: Salt Lake City, Utah, USA
Life Expectancy: 20 Year(s)
End of Life Options: Salvageable/Reusable in Its Entirety, Take Back Program (Reclaim, Salt Lake City, Utah)
EU CoC Screened: Does Not Contain

Ingredients:
polyvinylene (ethylhexyl) 3-(hydroxyphenyl)phosphinylpropanoic acid, Titanium dioxide, Carbon black, Spinning finish

Living Building Challenge Criteria: Compliant

I-13 Red List:
■ LBC Red List Free — % Disclosed: 100% at 100ppm
☐ LBC Red List Approved — VOC Content: Not Applicable
☐ Declared

I-10 Interior Performance: CDPH Standard Method v1.1-2010
I-14 Responsible Sourcing: Not Applicable

TFM-0003
EXP 01 OCT 2022
SCREENED: 21 SEP 2021
Original Issue Date: 2018

INTERNATIONAL LIVING FUTURE INSTITUTE™ living-future.org/declare

FELT COLOR OPTIONS

EBONY, CAST, MINERAL, STEEL, ARMOR, NICKEL
NIGHTFALL, ADMIRAL, DUSK, STEELBLUE, PLATINUM, ZINC
EMERALD, MUSTARD, OCHRE, SILT, DRIFTWOOD, DUNE
SAFFRON, JASPER, ARIES, CITRINE

END CAP CONFIGURATIONS

WOOD

ASH

OAK

FELT

BODY FELT COLOR

Stratta Unlit Acoustic Details

SABINS PER FIXTURE *Equivalent square feet of perfect absorption*

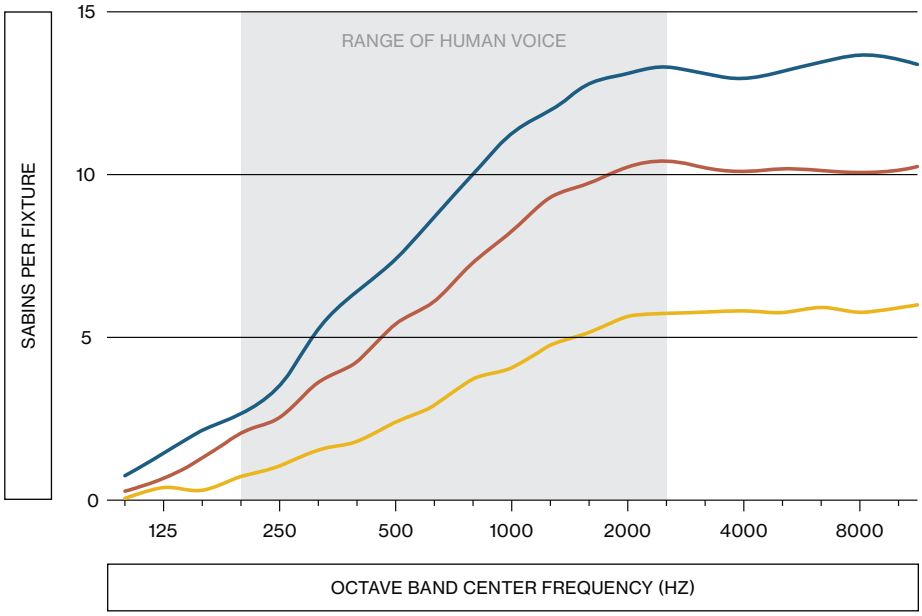
CENTER FREQUENCY (HZ)	49–16–2 STRATTA	49–12–2 STRATTA	49–6–2 STRATTA
100	0.66	0.24	-0.02
125	1.26	0.59	0.34
160	1.90	1.13	0.26
200	2.35	1.81	0.62
250	3.10	2.25	0.94
315	4.66	3.19	1.35
400	5.68	3.77	1.60
500	6.56	4.80	2.12
630	7.71	5.42	2.58
800	8.89	6.48	3.30
1000	10.01	7.33	3.61
1250	10.63	8.25	4.21
1600	11.36	8.65	4.58
2000	11.64	9.08	5.00
2500	11.82	9.26	5.09
3150	11.63	9.07	5.13
4000	11.50	8.96	5.16
5000	11.71	9.03	5.11
6300	11.93	8.99	5.25
8000	12.14	8.91	5.13
10000	12.03	8.99	5.24
AVERAGE OF 250, 500, 1000, 2000	7.83	5.86	2.92
EQUIVALENT SQ FT OF ACT (NRC 0.70)	11.18	8.38	4.17

The NRC of Stratta ranges from 0.75 to 1.00, depending on the size and configuration tested. Formal testing reports are available for more information.

Absorption

The Stratta line was tested in accredited laboratories to study the impact of fixture size and configuration on acoustic performance.

The acoustic testing of Stratta was conducted at NVLAP accredited laboratories and meets ISO 354 and ASTM C423. Formal test reports are available upon request.



49–16–2 ACOUSTIC STRATTA

49–12–2 ACOUSTIC STRATTA

49–6–2 ACOUSTIC STRATTA

Stratta Unlit Part Number Specification

SPECIFICATION CODE *Example: 2 QTY ACC-STR-UNLT-49L-12H-CT-FELT-PM-CRLNA-STD-D*

☐ ACC-STR-UNLT- ☐ - ☐ - ☐ - ☐ - ☐ - ☐ - ☐ - ☐

QTY. ❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽

Complete form to order Stratta fixture(s). For each number, make one selection and enter in the corresponding box above.
**Indicates modified choices; additional lead times and/or costs may apply.*

❶ LENGTH *(Nominal)*

☐ 37L	37.5″ LENGTH
☐ 49L	49.5″ LENGTH
☐ 61L	61.5″ LENGTH
☐ 73L	73.5″ LENGTH
☐ 85L	85.5″ LENGTH
☐ 97L	97.5″ LENGTH
☐ CRL*	CUSTOM ROW LENGTH *Custom rows from 3′ to 200′ in 1′ increments available*

❷ HEIGHT *(Nominal)*

☐ 6H	6″ HEIGHT
☐ 12H	12″ HEIGHT
☐ 16H	16″ HEIGHT

❸ FELT COLOR

☐ EB	EBONY
☐ NF	NIGHTFALL
☐ CA	CAST
☐ ML	MINERAL
☐ STL	STEEL
☐ AR	ARMOR
☐ NI	NICKEL
☐ ZN	ZINC
☐ EM	EMERALD
☐ AD	ADMIRAL
☐ DK	DUSK
☐ STB	STEELBLUE
☐ PT	PLATINUM
☐ SLT	SILT
☐ DW	DRIFTWOOD
☐ DN	DUNE
☐ SF	SAFFRON
☐ JP	JASPER
☐ AS	ARIES
☐ OCH	OCHRE
☐ MU	MUSTARD
☐ CT	CITRINE

❹ ENDCAP *Optional wood endcap*

☐ FELT	FELT BODY COLOR *Endcap will match shade material color*
☐ WOE*	OAK WOOD
☐ WAE*	ASH WOOD

❺ MOUNTING

☐ PM	INDIVIDUAL FIXTURE
☐ CRW*	CONTINUOUS ROW FIXTURE

❻ CONTINOUS ROW LENGTH

☐ CRLNA	NOT APPLICABLE *Individual lengths cannot be joined in the field*
☐ CUSRL*	CUSTOM ROW LENGTH *Specify custom length in 1′ increments from 3′ to 200′*

_____ ft

❼ SUSPENSION

☐ STD	12″ – 96″
☐ EXT*	12″ – 240″

❽ FIXTURE ORIENTATION

☐ I	INDIRECT UNLIT
☐ D	DIRECT UNLIT

Choose for the desired look or to match a system with lit versions

INDIRECT DIRECT

**Indicates modified choices; additional lead times and/or costs may apply.*

align Declare. Red List Free Ingredients MADE IN USA

P3TEC / advanced wall protection

Stellar

Item # P3T-60120 - P3T-60140 (21 colorways)

Impact Chemical Abrasion

PHYSICAL PROPERTIES

Width	Trim to 48"
Packaging	15-yd rolls
Thickness	0.033
Backing	Heavy Polyester/ Cotton knit
Repeat	N/A
Installation	Reverse hang, Random match
Fire Safety	Class "A" rated ASTM E-84; NFPA 286

ENVIRONMENTAL & HEALTH

Indoor Air	Meets California Section 01350
Fungal Resistant	ASTM G-21
Bacterial Resistant	ASTM G-22
HPD	third-party classified
EPD	third-party certified
NSF/ANSI 342	third-party certified, ask distributor for details

Impact

Impact Resistance
ASTM D- 5420-10
Gardner Method

Pattern	In-Lbs
Stellar	100+

Chemical

Chemical Resistance
ASTM D-1308
Spot test covered 3.1.1

Cleaning Agents
Tide w/H20
Virex
Ammonia
Isopropyl Alcohol
Goof Off
Fantastik
Lysol
Hydrogen Peroxide
Bleach
Methyl Ethyl Ketone

Results: No change in P3TEC surface from exposure to these agents.

Cleaning
ASTM F-793
SECTION 7.5

Staining Agents
Grape Juice
Mustard
Black Sharpie
Ink Pen
Betadine
Shoe Polish
Lipstick
Black Rubber
Brake Fluid
Spray Paint

Results: Each staining agent above was wiped clean with at least one listed cleaning agent.

Best stain removal results can be achieved by use of progressively strong, non-abrasive cleaners, and which can be supplemented by use of a soft bristle brush.

Abrasion

Abrasion Resistance
ASTM D- 4060-14
Taber Method

Test Spec
CS-10F wheel
500 gram load @200 cycles
Weight loss: 0.02%

OTHER

5 year warranty against manufacturing defects.

Accessories: Coordinating corner guards and Type II wallcovering (on selected colorways) available.

Installs with techniques similar to Type II vinyl wallcovering, including seaming with overlap and double-cut process.
See full Installation Instructions from distributor.

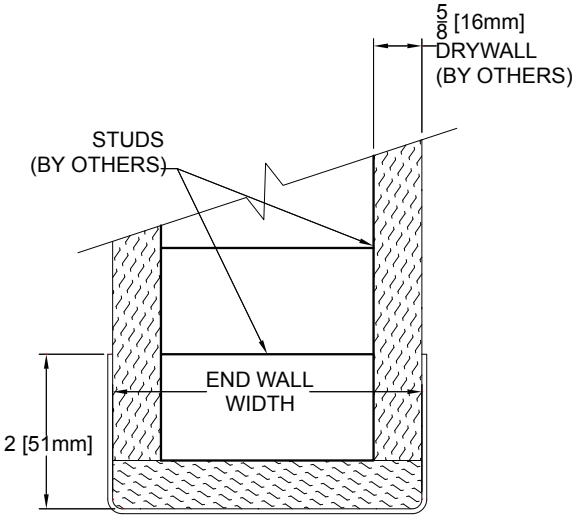
Sold in 15-yd coreless rolls, one per shipping box (approximately 42 lbs)

D.L.Couch 800 433 0790
Eykon 800 222 7866
trikes 800 200 8120

J•JOSEPHSON

Stainless Steel Surface Mount

End Wall Protector



- Provide a superior impact protection for use in kitchens, sanitation or other high abuse areas
- Conform to NSF Standard 51 for direct food contact in food service areas. (Custom Type 304 Stainless Steel)
- Specify the size you need! Typical wing sizes are 2" or 3". Available in floor to ceiling heights, with a max height being 144".

IPC.427/REV.3

inpro.com • 800.222.5556 • 262.679.9010
World Headquarters S80 W18766 Apollo Drive, Muskego, WI 53150 USA

Stainless Steel Surface Mount End Wall Protector

Suggested Specifications

PART 1 - GENERAL
1.01 SUMMARY
A. Surface mount stainless steel end wall protector for wall protection:
1.02 SECTION INCLUDES
A. Surface mount stainless steel end wall protectors
1.03 SUBMITTALS
A. Product data for each type of end wall protector specified.
B. Detail drawings indicating mounting details with the appropriate fasteners for specific project substrates.
C. Material samples of stainless steel.
D. Cleaning and maintenance instructions for door and wall protection systems.
1.04 DELIVERY, STORAGE AND HANDLING
A. Deliver materials in unopened factory packaging to the jobsite and store in original packaging in a climate controlled location away from direct sunlight.
1.05 PROJECT CONDITIONS
A. Products must be installed in an interior climate controlled environment.
1.06 WARRANTY
A. Standard IPC Limited Lifetime Warranty against material and manufacturing defects.

PART 2 - PRODUCTS
2.01 MANUFACTURER
A. Acceptable Manufacturer:
InPro Corporation, PO Box 406 Muskego, WI 53150 USA;
Telephone: 800-222-5556, Fax: 888-715-8407,
Internet address: http://www.inprocorp.com
B. Substitutions: Not permitted
C. Provide all stainless steel end wall protectors and wall protection from a single source.
2.02 MANUFACTURED UNITS
A. Custom Stainless Steel Surface Mount End Wall Protectors
1. Stainless Steel End Wall Protectors
Custom – 1" minimum wing width, 3" minimum end wall width
Corner radius - 1/8"
Height – 48" (1219mm) or custom. Maximun height of 144" (3658mm)
All edges to be deburred.
2.03 MATERIALS
A. Stainless Steel: Custom stainless steel end wall protectors shall be manufactured from Type 430, 16 gauge stainless or Type 304, 16 gauge stainless steel. Also available in 14 and 18 gauge.
2.04 COMPONENTS
A. Attachment
1. Cement-on.
2. Screw-on
2.05 FINISHES
A. Stainless steel: No. 4 satin finish. All edges to be deburred.

PART 3 - EXECUTION
3.01 EXAMINATION
A. Examine areas and conditions in which the end wall protector and corner guards will be installed.
1. Complete all finishing operations, including painting, before beginning installation of end wall protectors and corner guards.
B. Wall surface shall be dry and free from dirt, grease and loose paint.
3.02 PREPARATION
A. General: Prior to installation, clean substrate to remove dust, debris and loose particles.
3.03 INSTALLATION
A. General: Locate the end wall protector as indicated on the approved detail drawing for the appropriate substrate and in compliance with the IPC installation instructions. Install end wall protectors, level and plumb at the height indicated on the drawings.
B. Installation of stainless steel end wall protectors:
1. Surface must be dry, clean and properly sealed.
2. Cement-on: Apply heavy-duty adhesive to the back of the end wall protector in a zigzag pattern. Position the end wall protectors on the wall and press firmly in place.
Screw-on: Position the end wall protector on the wall, press firmly in place and attach with the provided fasteners.
3. Remove the protective plastic covering from the exposed surface of the end wall protector or corner guard.
3.04 CLEANING
A. At completion of the installation, clean surfaces in accordance with the IPC clean up and maintenance instructions.

Specification Sheet

decorativefilms

SOLYX® Glass Finishes

SXJ-0545 Beach Grass Gradient

Product Description

SOLYX® **SXJ-0545 Beach Grass Gradient** is a lightly textured, frosted polyester film with a beautiful pattern of beach grass surrounded by a mist that fades from solid white to clear. It is ideal for graduated privacy while allowing good light transmission.

Specifications

Product Code	SXJ-0545
Product Family	Gradient
Film Type	Polyester
Adhesive Type	Pressure-Sensitive
Usage	Interior
Available Height	71” (or custom)
Full Roll Length	95 linear feet
Thickness	4mil
Shading Coefficient	0.55
Visible Light Reflection	27%
Visible Light Transmission	Average - 34%
UV Transmission	2%
Total Solar energy Rejected	38%
Solar Energy Absorbed	25%
Infra-Red Transmission	70%

Product Construction

Face Film
4 mil Polyester

Adhesive
Clear, Pressure-Sensitive

Release Liner
Silicone Coated

Product Details

SOLYX® **SXJ-0545 Beach Grass Gradient** is a lightly textured, frosted polyester film with a beautiful pattern of beach grass surrounded by a mist that fades from solid white at the bottom to clear at the top. This durable film is manufactured with a silicone coated liner which protects the clear, pressure-sensitive adhesive and is designed for application to interior glass, single- or double-pane, and exterior facing glass. It is ideal for privacy, decorative, or architectural applications.

Flammability Rating
This product meets ASTM E84 and is classified as Class A as defined in NFPA 101, Life Safety Code®.

LEED Credit EQ 4.1 Low Emitting Materials, Adhesives & Sealants
This product has zero VOC content according to 40 CFR 59, Subpart D (EPA method 24).

Installation and Warranty

Installation
Installation should be in accordance with the manufacturer's installation instructions. This film is applied using the same tools and techniques used for installing window tinting films.

Warranty
This SOLYX® product will be free from defects in material and manufacture for a period of five (5) years from the date of installation. See warranty information for specific details.

Product Distribution and Contact Information

Distribution
SOLYX® Decorative Films are available through authorized Installing Dealers, Distributors, or directly from Decorative Films, LLC.

Samples submitted upon request.

Contact Information
Decorative Films, LLC
1-888-657-5224
www.decorativefilm.com

SOLYX® and SimGlas® are trademarks of Decorative Films, LLC. © 2015 Decorative Films, LLC. All rights reserved.

Junction - Flex™

Fact Sheet

8 Colorways:	JUN1-10 Origin JUN1-22 Heir JUN1-29 Heritage JUN1-30 Generation JUN1-35 Pedigree JUN1-36 Kin JUN1-48 Journey JUN1-77 Progeny

Designer	Koroseal		
Total Weight	35.0 oz. ply (992 g. plm.) 22.4 oz. psy (635 g. psm.)	**Vertical Repeat**	N/A
Roll Width	52 in. (132 cm.)	**Horizontal Repeat**	N/A
Backing	Woven (Osnaburg)	**Nominal Pattern Width**	52 in.
Tensile (Minimum)	50 x 55 lb_f (222 x 245 N)	**Match Information**	Non-Reverse Hang, Random Match
Tear (Minimum)	25 x 25 lb_f (111 x 111 N)	**WA Spec.**	WA-101, Type III
Federal Spec.	CCC-W-408D, Type III	**ASTM F-793**	Category VI, Type III
Fire Testing	NFPA 101® Life Safety Code® NFPA 255 (ASTM E-84, CAN S102M) Tunnel Test[1] - Class A Rating NFPA 286 Corner Burn Test[2] - Meets requirements for Flame Spread, Smoke Developed, and Flashover 1 When applied to GRC board with A-848-B adhesive 2 When applied to 5/8" Type-X-Gypsum board with A-848-B adhesive		
CE Certification	EU classification in accordance with EN 15102:2007 + A1:2011		
Indoor Air Quality	California 01350 – Meets emission requirements for schools and offices		
For additional technical information please visit koroseal.com			

3875 Embassy Parkway | Fairlawn, OH 44333 | 855.753.5474 | koroseal.com

Koroseal® is a registered trademark of Koroseal Interior Products, LLC.
Flex™ is a trademark of Koroseal Interior Products, LLC.
NFPA 101® and Life Safety Code® are registered trademarks of National Fire Prevention Association.
©2024 Koroseal Interior Products, LLC.

Urbane - Flex™

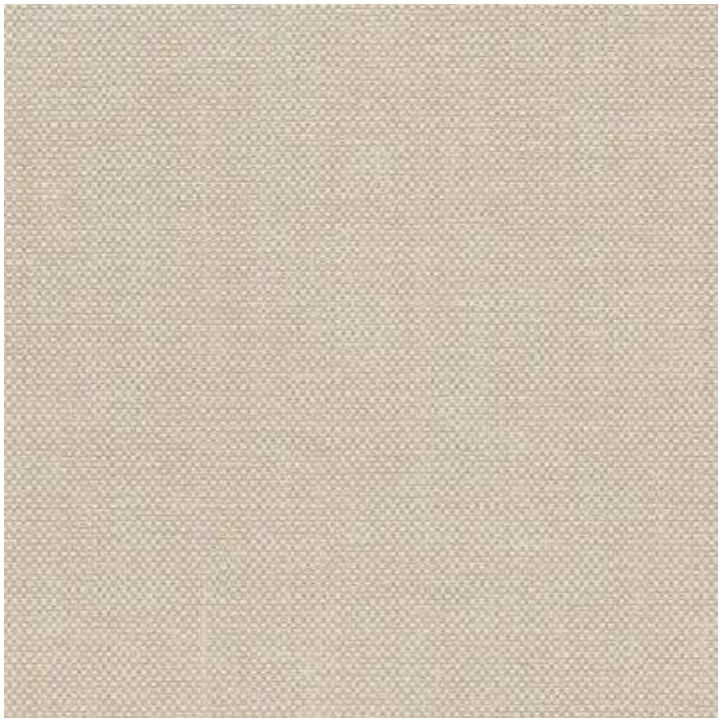
Fact Sheet

8 Colorways:	URB1-15 Linen URB1-41 Purlesque URB1-45 Galaxy URB1-58 Cashmere URB1-75 Links URB1-77 Indigo URB1-81 Greige URB1-94 Mineralism

Designer	Koroseal		
Total Weight	35.0 oz. ply (992 g. plm.) 22.4 oz. psy (635 g. psm.)	Vertical Repeat	N/A
Roll Width	52 in. (132 cm.)	Horizontal Repeat	N/A
Backing	Woven (Osnaburg)	Nominal Pattern Width	52 in.
Tensile (Minimum)	N/A	Match Information	Reverse Hang, Random Match
Tear (Minimum)	N/A	WA Spec.	WA-101, Type III
Federal Spec.	CCC-W-408D, Type III	ASTM F-793	Category VI, Type III
Fire Testing	NFPA 101® Life Safety Code® NFPA 255 (ASTM E-84, CAN S102M) Tunnel Test[1] - Class A Rating NFPA 286 Corner Burn Test[2] - Meets requirements for Flame Spread, Smoke Developed, and Flashover 1 When applied to GRC board with A-848-B adhesive 2 When applied to 5/8" Type-X-Gypsum board with A-848-B adhesive		
CE Certification	EU classification in accordance with EN 15102:2007 + A1:2011		
Indoor Air Quality	California 01350 – Meets emission requirements for schools and offices		
For additional technical information please visit koroseal.com			

3875 Embassy Parkway | Fairlawn, OH 44333 | 855.753.5474 | koroseal.com

Koroseal® is a registered trademark of Koroseal Interior Products, LLC.
Flex™ is a trademark of Koroseal Interior Products, LLC.
NFPA 101® and Life Safety Code® are registered trademarks of National Fire Prevention Association.
©2024 Koroseal Interior Products, LLC.



Xorel Strie

6423

$37.00 /yd.

A $3.00 per yard cut charge applies to orders under 50 yards

Upholstered Walls/Panels Specifications

Type: Acoustical, Moveable Walls (backing requirements vary by manufacturer), Tackable, Wrapped Panels, Xorel Artform

Backing: Unbacked

Backing Note(s): Acrylic: This backing provides a coating to enhance adhesion and prevent bleed through of adhesives (15 yard minimum), Heavy Acrylic: This backing provides a coating to enhance adhesion and prevent bleed through of adhesives and is preferred for heavier duty installs such as moveable wall systems (15 yard minimum), Unbacked: Acoustically transparent, highly tackable, ability to self heal, yarns can "move back" into position. Highly stable on panels and does not react to changes in humidity or moisture.

Available Backing(s): Acrylic, Heavy Acrylic

Finish(es): Finish-Free

Width: 56" (142 cm)

Weight per Linear Yard: 10.4 oz

Contents: 100% Xorel® (85% Biobased PE, 15% PE)

Cleaning Code: WS & BC - Water/Solvent & Bleach Cleanable

Flammability: ASTM E84 Class A / Class 1, Fabric meets Underwriters Laboratories (UL) 1286 Flammability Requirements for Office Furnishings, NFPA 265 Room Corner Test, NYC 294-40 SR

Acoustics: NRC of 0.9 when wrapped around a 2" thick panel, Test Method ASTM C 423

Manufactured In: EU

Warranty: 10 years

ACT Symbols:

Programs/Partnerships

Program Guidelines: GSA

Sustainability

Standards and Certifications: Cradle to Cradle Certified Gold, Environmental Product Declaration (EPD), HHI (Healthier Hospitals Initiative), Kaiser Permanente, LEED, Living Product Certified, MindClick Rated - Leader, Mindful Materials, SCS Indoor Advantage™ Gold, TUV Austria OK biobased - Level 4 (ASTM D6866), USDA Certified Biobased Product

Content: 85% Biobased content derived from rapidly renewable plant based resources

Free of: Antimicrobials, Antimony, Bisphenol A (BPA), Chlorine, DMF, Fluorocarbons, Formaldehyde, Halogenated fire retardants, Heavy metals, Ozone-depleting chemicals, PFC, Phthalates, Plasticizers, PVC, Solvents, Stain resistant finishes

Additional Details: Extremely low VOCs, Inherently Antimicrobial - In accordance with Test Method AATCC 147, No topical finishes, Responsible Return Program, Safely Disposable

Colors

Quick Ship
Select colors ship from NY in 2 business days, up to 300 yards

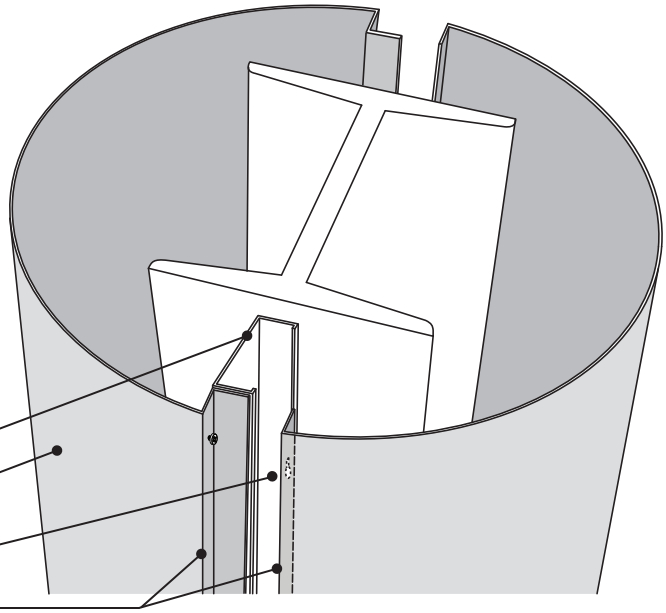
Móz CC 100 series Round Column Covers

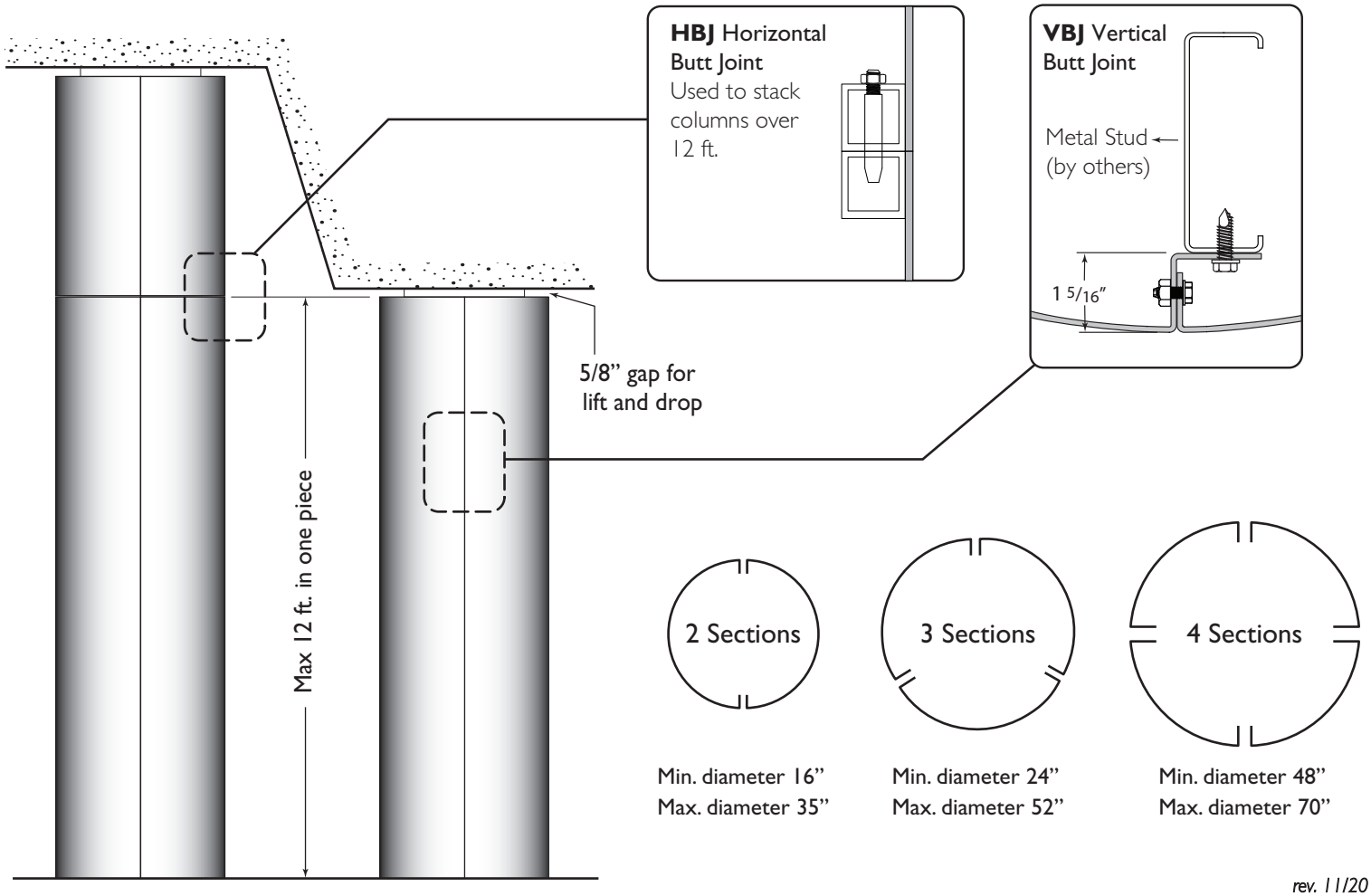
Technical Information

Easy to assemble Column Covers by Móz Designs offers an affordable and quick solution to cover unsightly support structures with over 500 unique Móz Metal Color & Grain combinations

STANDARD FEATURES

- Pre-rolled & finished .090" Aluminum
- Varying diameters with vertical butt joints (VBJ)
- Cover any height using stacked segments. (12' max segment size)
- No joint caulking required for interior applications
- Ready to anchor to metal studs (by others)
- Unique Móz Color & Grain options



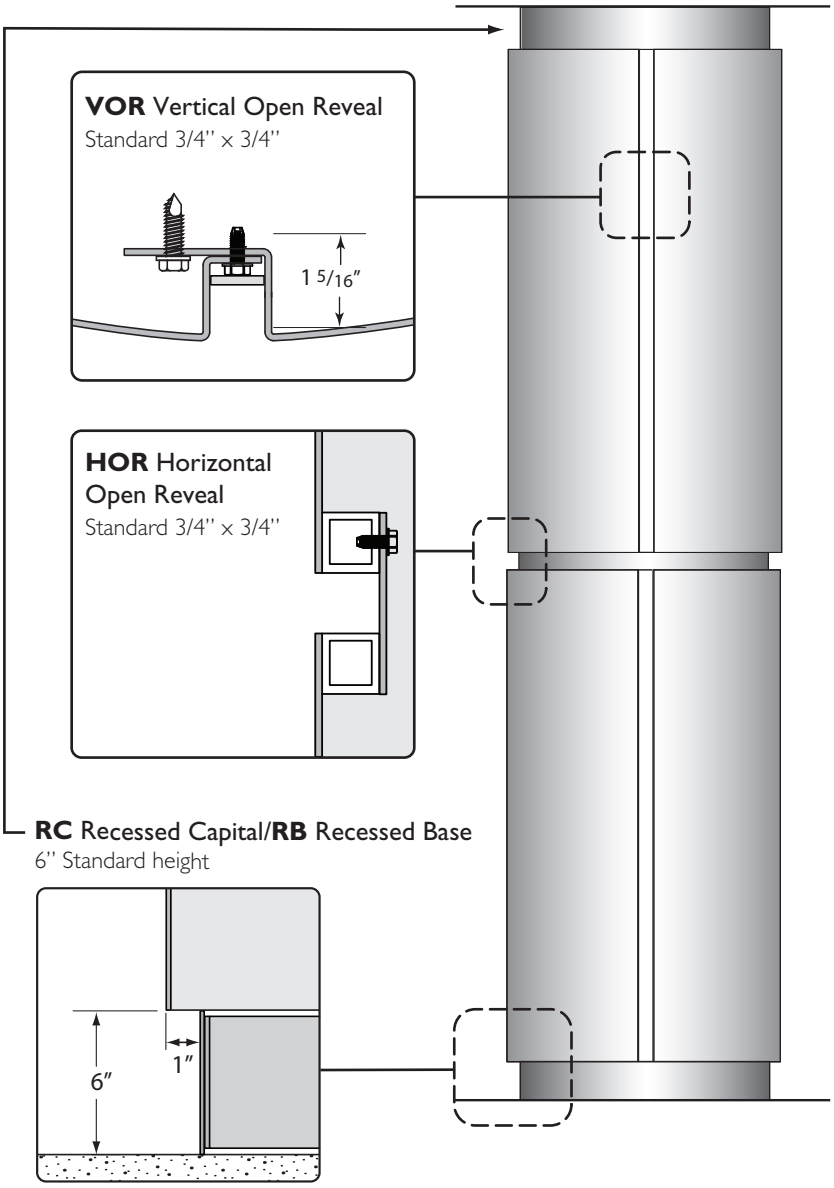


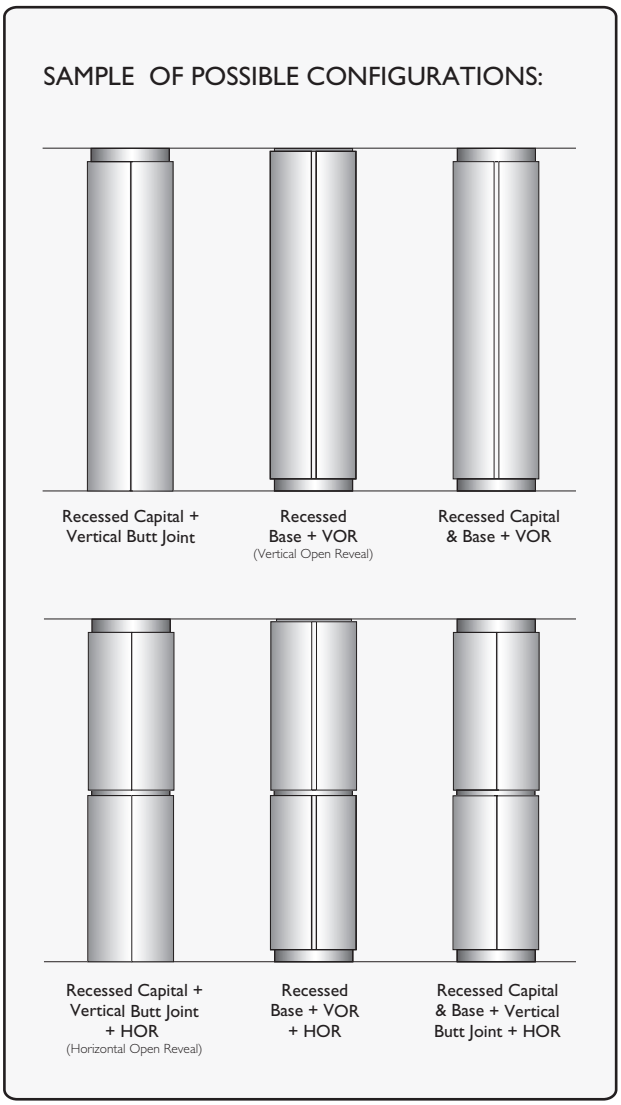
rev. 11/2018

711 Kevin Court - Oakland, CA 94621 - USA tel: 510.632.0853 fax: 510.632.0852 info@mozdesigns.com **www.mozdesigns.com**

OPTIONAL ADD-ONS

- Open reveals (Horizontal & Vertical)
- Recessed Base and Capital
- 18ga Stainless Steel
- Exterior finishes





rev. 11/2018

711 Kevin Court - Oakland, CA 94621 - USA tel: 510.632.0853 fax: 510.632.0852 info@mozdesigns.com **www.mozdesigns.com**

Slim Rings

Overview

Specifications

SHADE
1/32" thick 3form Varia resin.
White Opal top and bottom diffuser.

LIGHTING
Solid state LED system
120v–277v input
2700K - 4000K
80/90 CRI light source

Small	25w / 1301 lumens
Medium	40w / 2722 lumens
Large	50w / 4174 lumens
X-Large	71w / 5626 lumens

HARDWARE
Removable TGIC-free powder coated metal lid.
Canopy and dress plate mounts to standard junction box (junction box provided by others).
3/64" stainless steel cables to ceiling.
Power cord to canopy

DIMMING
Dimming 0–10v

MOUNTING
Fully adjustable stainless steel aircraft cable.
Contact LightArt for lengths over 20'.

CERTIFICATION
CSA approved to UL standards
Declare label certified
Living Building Challenge compliant
Damp rated

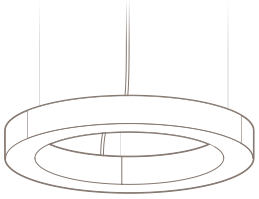
WARRANTY
5 year warranty on all standard components.
LED system rated for operation in ambient environments up to 25°C.

STANDARDS
6 week lead time
250+ 3form material options
(contact LightArt for custom material pricing)
TGIC-free powder coat
PVC-free power cord

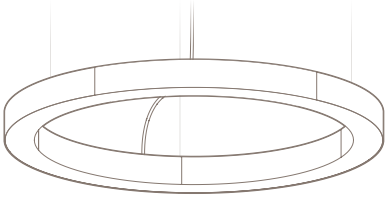
Slim Rings

Fixture Options

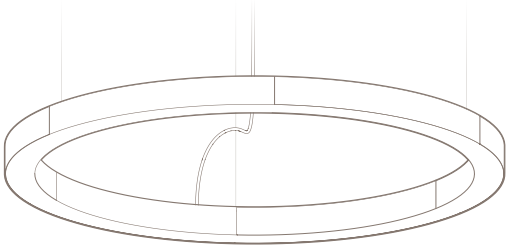
SHAPES & DIMENSIONS



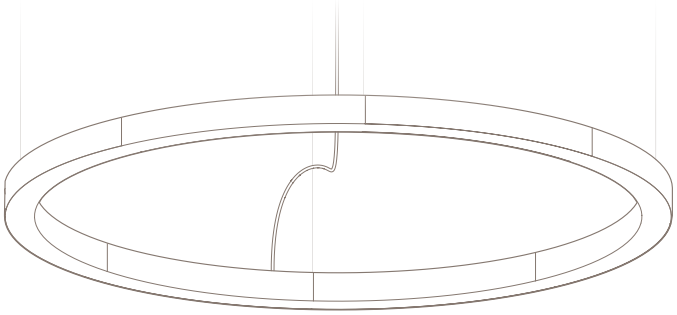
21.5"Dia. x 2.5"D x 2.5"H - 2.5lbs



33"Dia. x 2.5"D x 2.5"H - 4.5lbs



43"Dia. x 2.5"D x 2.5"H - 6lbs



57.5"Dia. x 2.5"D x 2.5"H - 8lbs

SHADE COLOR OPTIONS *3form Varia*

CINDER

SILKEN OYSTER

GESSO

NATURAL

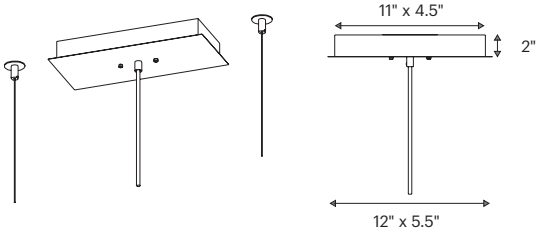
WIZARD

CRANBERRY ×2

VITAMIN C

Due to manufacturing and construction process used to create the Essentials and Connected collection, Pattern+ and wood grains will not match at fixture seams. Lead times subject to change.

CEILING HARDWARE *Cables to Ceiling*



CANOPY / DRESS PLATE FINISH OPTIONS

BLACK

WHITE

Slim Rings

Part Number Specification

SPECIFICATION CODE *Example: 2 QTY LA2-SLIM-RING-43D-WZ-830CK-STD-WPC-WH*

☐ LA2-SLIM-RING - ☐ - ☐ - ☐ - ☐ - ☐ - ☐

QTY. ❶ ❷ ❸ ❹ ❺ ❻

Complete form to order Slim Ring(s). For each number, make one selection and enter in the corresponding box above.
**Indicates modified choices; additional lead times and/or costs may apply.*

❶ SIZE

☐ 21.5D	21.5″ DIA
☐ 33D	33″ DIA
☐ 43D	43″ DIA
☐ 57.5D	57.5" DIA

❷ MATERIAL

☐ GO	GESSO
☐ NL	NATURAL
☐ CR	CINDER
☐ SO	SILKEN OYSTER
☐ CB2	CRANBERRY ×2
☐ VC	VITAMIN C
☐ WZ	WIZARD
☐ CUST*	CUSTOM COLOR

❸ LED CRI/CCT

☐ 827CK	80 CRI / 2700K
☐ 830CK	80 CRI / 3000K
☐ 835CK	80 CRI / 3500K
☐ 840CK	80 CRI / 4000K
☐ 927CK	90 CRI / 2700K
☐ 930CK	90 CRI / 3000K
☐ 935CK	90 CRI / 3500K

❹ SUSPENSION

☐ STD	12″ – 96″
☐ EXT*	24″ – 240″

❺ CANOPY OPTION

☐ CCL	CABLES TO CEILING
☐ CCN	CABLES TO CANOPY*

❻ CANOPY COLOR

☐ WPC	WHITE
☐ BPC	BLACK

❼ POWER CORD

☐ WH	WHITE
☐ BK	BLACK

**Indicates modified choices; additional lead times and/or costs may apply.*

align Declare Red List Free Ingredients MADE IN USA

Wilsonart
ENGINEERED SURFACES
2501 Wilsonart Dr
PO Box 6110
Temple, TX 76503-6110

1. Manufacturer

Wilsonart LLC
2501 Wilsonart Drive
P.O. Box 6110
Temple, Texas 76503-6110
Phone: (254) 207-7000; (800) 433-3222
Fax: (254) 207-2384
Web Site: www.wilsonart.com

2. Product Description

Recommended Uses

Wilsonart® Laminate, types 107, 335, and 350, is suitable for use on fine quality residential and commercial furniture, fixtures and casework, and for architectural application on columns, wainscoting, valances, cornices, interior doors and divider systems.

General Purpose (HGS) Type 107 is most frequently used for work surfaces on counters, islands, vanities, desks and tables. Typical vertical uses include surfacing for wall panels, teller cages and the front panels of workstations, such as those in hospitals, airports and restaurants. Type 107 is produced for both horizontal and vertical interior applications where the surface must be functional, durable and decorative.

Vertical Surface (VGP) Type 335 is the usual choice to surface cabinet walls, doors and drawer panels. It often appears on the vertical surfaces of desks, restaurants booths and maître d' stations, and as architectural cladding. Type 335 is intended for vertical applications where a functional, durable, decorative surface must absorb somewhat less impact than a comparable horizontal surface. VGP surfaces may be postformed to achieve radius edges.

Postforming (HGP) Type 350 adds the decorative capability of a soft edge to any typical laminate use. Common applications of postforming laminates are formed edges for counters, desktops, cabinet doors and drawer panels. Type 350 is intended for use on vertical and horizontal interior surfaces where it is necessary or desirable to roll the laminate on a simple radius over the edge of the substrate. This eliminates seams and leaves an attractive surface.

Wilsonart® HD® finishes feature Antimicrobial Protection that helps inhibit the growth of stain and odor causing bacteria, mold, and mildew on your countertop or surface. Wilsonart's Antimicrobial Protection won't wash away or wear off. Premium and Standard finishes are available with Antimicrobial Protection upon request during the ordering process.

Product Composition

Decorative surface papers impregnated with melamine resins are pressed over Kraft paper core sheets impregnated with phenolic resin. These sheets are then bonded at pressures greater than 1000 pounds per square inch at temperatures approaching 300°F (149°C). Finished sheets are trimmed, and the backs are sanded to facilitate bonding.

Basic Limitations

Wilsonart® Laminate is for interior use only and is not recommended for direct application to plaster, concrete walls, or gypsum wallboard. It is not structural material and must be bonded to a suitable substrate.

© 2020, Wilsonart LLC

Do not subject Wilsonart® Laminate to extremes in humidity or temperatures higher than 275°F (135°C) for substantial periods of time, or intense, continuous, direct sunlight.

Patterns & Colors
Available in a full range of solid colors, stones, marbles, woodgrains, leathers and patterns. See all designs at www.wilsonart.com. Please see actual sample before specifying.

Finishes
Confirm finish availability on individual designs by going to www.wilsonart.com

#01 High Gloss - Premium
A mirror sheen finish, which gives a smooth, brilliant appearance. #01-High Gloss finish also features AEON™ Enhanced Scratch & Scuff-Resistant Performance Technology. Can be used for horizontal applications such as countertops and light-to-medium commercial applications. Excellent for vertical applications. *Nominal Glossometer Reading = 110*

#05 Timbergrain - Premium
An overall finish with dimensional low-sheen, realistic ticking and natural variation across the sheet, looks very much like the surface of natural wood veneer. #05 finish features AEON™ Enhanced Scratch & Scuff-Resistant Performance Technology. Recommended for horizontal and vertical applications. *Nominal Glossometer Reading = 4.5*

#07 Textured Gloss - Premium
A textured finish which reproduces the high sheen of waxed wood furniture. #07 finish features AEON™ Enhanced Scratch & Scuff-Resistant Performance Technology. Recommended for horizontal and vertical applications. *Nominal Glossometer Reading = 42*

#12 SoftGrain - Premium
A dense wood grain structure that is low gloss and soft to the touch. Subtle highlights of reflectivity randomly occur within the embossed grains, creating a sophisticated raw wood look. #12 finish features AEON™ Enhanced Scratch & Scuff-Resistant Performance Technology. Recommended for horizontal and vertical applications. *Nominal Glossometer Reading = 8*

#16 Casual Rustic - Premium
A woodgrain texture with a blend of grain variations ranging from linear to subtle movement with random, irregular features. The overall low gloss surface is accented with higher sheen woodgrain ticking and random highlights. #16 finish features AEON™ Enhanced Scratch & Scuff-Resistant Performance Technology. Recommended for horizontal and vertical applications. *Nominal Glossometer Reading = 6*

#18 Linearity - Premium
A directional texture running the length of the sheet, having a narrow, random and matte-gloss linear quality. It is complementary to linear woodgrains, and linear patterns (such as the "Satin" series), and provides dimension and visual movement to solid colors. #18 finish features AEON™ Enhanced Scratch & Scuff-Resistant Performance Technology. Recommended for horizontal and vertical applications. *Nominal Glossometer Reading = 18*

#19 Leno Weave – Premium
Random intersecting horizontal and vertical lines create a geometric weave with a matte-gloss finish. Recommended for horizontal and vertical applications. #19 finish features AEON™ Enhanced Scratch & Scuff-Resistant Performance Technology. Recommended for horizontal and vertical applications. *Nominal Glossometer Reading* = 15

#21 Soft Silk – Premium
A smooth, ultra-matte finish with a silky, soft touch. This minimalist finish gives the surface a genuine stone feel. Recommended for horizontal and vertical applications. #21 finish features AEON™ Enhanced Scratch & Scuff-Resistant Performance Technology. Recommended for horizontal and vertical applications. *Nominal Glossometer Reading = 8*

© 2020, Wilsonart LLC

#22 Antique - Premium
A mixture of varying low gloss features combined with organic movement, indicative of the surface of an aged stone or an antique metal. Antique features AEON™ Enhanced Scratch & Scuff-Resistant Performance Technology. Recommended for horizontal and vertical applications. *Nominal Glossometer Reading = 9*

#28 Gloss Line - Premium
A linear woodgrain texture with varied widths of narrow grain structures in an alternating mix of matte and gloss surfaces areas. Gloss Line features AEON™ Enhanced Scratch & Scuff-Resistant Performance Technology. Recommended for horizontal and vertical applications. *Nominal Glossometer Reading = 5*

#35 Mirage-Wilsonart® HD®
Subtle variations in matte and gloss finish connect to nature's own finishes: rough and weathered, smooth and polished. #35 finish features AEON™ Enhanced Scratch & Scuff-Resistant Performance Technology. Recommended for horizontal and vertical applications. *Nominal Gloss Reading = 50*

#38 Fine Velvet Texture
A smooth textured finish with moderate reflective value. Recommended for horizontal and vertical applications. *Nominal Glossometer Reading = 14*

#52 Quarry - Premium
Premium finish emulating the "pitted" look of polished natural stone. #52 features AEON™ Enhanced Scratch & Scuff-Resistant Performance Technology. Recommended for horizontal and vertical applications. *Nominal Glossometer Reading = 55*

#55 Glaze-Wilsonart® HD®
A layering of matte features over a semi-gloss glaze, creates this timeworn effect. #55 finish features AEON™ Enhanced Scratch & Scuff-Resistant Performance Technology. Recommended for horizontal and vertical application. *Nominal Gloss Reading = 25*

#57 Aligned Oak – Wilsonart® HD®
Authentic realism is brought to the surfaces using synchronized texture as each elegantly aged oak design exhibits the natural dimension and feel or real world. #57 finish features AEON™ Enhanced Scratch & Scuff-Resistant Performance Technology. Recommended for horizontal and vertical applications. *Nominal Glossometer Reading = 7*

#60 Matte - Standard
Textured finish with a moderate reflective quality. Recommended for horizontal and vertical applications. *Nominal Glossometer Reading = 10*

#78 FineGrain - Premium
The FineGrain premium finish features the polish and luxe of a real wood veneer, with a subtle, narrow grain structure that runs the length of the sheet. #78 finish features AEON™ Enhanced Scratch & Scuff-Resistant Performance Technology. Recommended for horizontal and vertical applications. *Nominal Glossometer Reading = 38*

#79 Ridgewood – Premium
An overall matte finish with ridged dimensional features creating a linear woodgrain effect. #79 finish features AEON™ Enhanced Scratch & Scuff-Resistant Performance Technology. Recommended for horizontal and vertical applications. *Nominal Glossometer Reading = 4.5*

NOTE: Nominal Glossometer readings are made at a 60° angle of incidence.

Finish Availability: Not all finishes are available in all patterns and colors. Some finish options have limited size availability. Please check with your Wilsonart representative or consult the pattern availability lookup on our website at www.wilsonart.com, to verify size availability by finish type.

Standard Sheet Widths

36"	48"	60"
914mm	1219mm	1524mm

Standard Sheet Lengths

96"	120"	144"
2438mm	3048mm	3658mm

NOTE: Not all sizes are available from stock; contact your Wilsonart representative for details on local availability. Minimums apply to non-standard designs and finishes in sizes other than 48"x96" and 60"x144". Please check with your Wilsonart representative.

© 2020, Wilsonart LLC

Thickness and Weight

Description	107	335	350
Thickness	0.048” ± 0.005” (1.22mm ± 0.13mm)	0.028” + 0.001 - 0.004” (0.7mm + 0.03 - 0.10mm)	0.039” ± 0.005” (0.99mm ± 0.13mm)
Weight per square foot	0.322#	0.186#	0.260#

3. Technical Data

Physical Properties of General Purpose Laminates

ISO 4586 Test	Typical Wilsonart Type 107	ISO 4586-3 HGS
Thickness	0.048” ± 0.005” (1.22mm ± 0.13mm)	N/A
Appearance	N/A	N/A
Light Resistance	Slight effect	Slight Effect
Cleanability (cycles)	10	10
Stain Resistance **Reagents 1-10** **Reagents 11-15**	 No effect Slight effect	 No effect Moderate effect
Boiling Water Resistance	Slight Effect (Gloss) No Effect (Other Finishes)	Slight Effect (Gloss) No Effect (Other Finishes)
High Temperature Resistance	Slight effect	Slight Effect (Gloss) No Effect (Other Finishes)
Impact Resistance	65” (1651mm)	31.5” (800mm)
Radiant Heat Resistance	210 seconds	≥ 200 sec.
Dimensional Stability **Machine Direction** **Cross Direction**	 0.3% 0.7%	 1.1% (max.) 1.4% (max.)
Surface Wear Resistance (cycles)	Meets or Exceeds 400	350 (min.)
Formability	Not applicable	Not applicable
Blistering	Not applicable	Not applicable

Physical Properties of Vertical Surface Laminates

ISO 4586 Test	Typical Wilsonart Type 335	ISO 4586-3 VGP
Thickness	0.028” + 0.001 - 0.004” (0.7mm + 0.03 - 0.10mm)	N/A
Appearance	N/A	N/A
Light Resistance	Slight effect	Slight effect
Cleanability (cycles)	10	20 (max.)
Stain Resistance **Reagents 1-10** **Reagents 11-15**	 No effect Slight effect	 No effect Moderate effect
Boiling Water Resistance	Slight Effect (Gloss) No Effect (Other Finishes)	Slight Effect (Gloss) No Effect (Other Finishes)

© 2020, Wilsonart LLC

High Temperature Resistance	Slight Effect (Gloss) No Effect (Other Finishes)	Slight Effect (Gloss) No Effect (Other Finishes)
Impact Resistance	40” (1016mm)	23.5” (600mm)
Radiant Heat Resistance	200 seconds	≥ 200 sec.
Dimensional Stability **Machine Direction** **Cross Direction**	 0.5% 0.8%	 1.1% (max.) 1.4% (max.)
Surface Wear Resistance (cycles)	Meets or Exceeds 400	350 (min.)
Formability	5/16” radius (7.93mm)	7/16” radius (11mm) 9/16” radius(14.7mm)
Blistering	45 seconds	≥ 40 seconds

*Radius for face is actually the radius of the form around which the laminate is postformed. The radius for back is actually the radius to which the decorative face is postformed.

Physical Properties of Postforming Laminate

ISO 4586 Test	**Typical Wilsonart Type 350**	**ISO 4586-3 HGP**
Thickness	0.039” ± 0.005” (0.99mm ± 0.13mm)	0.039” ± 0.005” (1mm ± 0.12mm)
Appearance	N/A	N/A
Light Resistance	Slight effect	Slight effect
Cleanability (cycles)	10	20
Stain Resistance **Reagents 1-10** **Reagents 11-15**	 No effect Slight effect	 No effect Moderate effect
Boiling Water Resistance	Slight Effect (Gloss) No Effect (Other Finishes)	Slight Effect (Gloss) No Effect (Other Finishes)
High Temperature Resistance	Slight Effect (Gloss) No Effect (Other Finishes)	Slight Effect (Gloss) No Effect (Other Finishes)
Impact Resistance	55” (1397mm)	31.5” (800mm)
Radiant Heat Resistance	205 seconds	≥ 200 sec.
Dimensional Stability **Machine Direction** **Cross Direction**	 0.5% 0.8%	 1.1% (max.) 1.4% (max.)
Surface Wear Resistance (cycles)	Meets or Exceeds 400	350 (min.)
Formability*	*5/16” face (7.93mm) *3/8” back (9.52mm)	*9/16” face (14.27mm) *3/4” back (19.05mm)
Blistering	65 seconds	≥ 40 seconds

*Radius for face is actually the radius of the form around which the laminate is postformed. The radius for back is actually the radius to which the decorative face is postformed.

Typical Fire Test Data

High-pressure laminates are subject to flame spread and smoke developed standards in structures where codes establish such conditions.

Test data to determine compliance with these codes are obtained by the Steiner Tunnel Test method of the American Society for Testing Materials (ASTM-E-84, Standard Test Method for Surface Burning Characteristics of Building Materials). Tests were conducted in accordance with test method and mounting procedure as described in paragraph X1.7.2 of the test method. This procedure is cataloged by Underwriters Laboratories, Inc. as UL 723. Here is typical data for Wilsonart® Laminates, averaged from two specific tests:

© 2020, Wilsonart LLC

Typical Flame Spread and Smoke Developed Properties

Product Type	Test Condition	Flame Spread	Smoke Developed
General Purpose Type 107	Unbonded	50	45
Vertical Surface Type 335	Unbonded	45	40
Postforming Type 350	Unbonded	60	35
General Purpose Type 107	Bonded with contact adhesive to particleboard substrate; 3/8”	40	100
Vertical Surface Type 335	Bonded with contact adhesive to particleboard substrate; 3/8”	40	155
Postforming Type 350	Bonded with contact adhesive to particleboard substrate; 3/8”	50	140

When you wish to specify decorative laminate for a Class I or A fire rating, please refer to the Fire-Rated Laminate Tech Data.

Model Code Designations used to determine flame spread classification

Flame Spread Classification (Max. Rating)	International (IBC)	Life Safety (NFPA 101)
25	A	A
75	B	B
200	C	C

RE: Architectural Woodwork Quality Standard, 8th Edition, Version 1.0, - 2003

All Model Codes regulate the generation of smoke by interior finish material. In all cases they specify a maximum smoke development rating of 450.

Codes and Certifications

General Standards

Wilsonart® Laminates, types 107, 335 and 350, conform to the voluntary standards of the American National Standards Institute, for thickness, performance properties and appearance. Wilsonart® Laminates 107,335 and 350 meet or exceed the International Standards Organization specifications as found in ISO 4586, titled “High-Pressure Decorative Laminate (HPDL) – Sheets Based on Thermosetting Resins – Part I: specifications.”

Specific Product Standards

U.S. Federal Specification L-P 508H, April 9, 1977, “Plastic Sheets, Laminated, Decorative and Non-decorative.” Spells out criteria for decorative laminates for federal installations. Wilsonart 107, 335 and 350 laminates comply.

NSF International (NSF) #35 “Laminated Plastic for Surfacing for Food Service Equipment.” All solid colors and printed patterns in Basic Types 107, 335 and 350, comply.

U.S. Federal Register, August 9, 1984, Housing and Urban Development Mobile Home Construction and Safety Standard, (24CFR) 3280.203. General Purpose Type 107 and Vertical Surface Type 335 comply.

U.S. Federal Test Method, Federal Aviation Regulation, DOT, Part 25.853, Airworthiness Standards: Transport Category Airplane (Interior Finish). Vertical Surface Type 335 and Postforming Type 350 comply with parts A and C.

U.S. Federal Motor Vehicle Safety Standard (FMVSS) 302, “Flammability of Interior Materials.” Basic Types 107, 335 and 350 comply.

U.S. Military Standard MIL-P-17171E (SHIPS)/Plastic Laminate. General Purpose Type 107 complies.

© 2020, Wilsonart LLC

Branded Cleaner and Sanitizer Resistance for Wilsonart® Laminate per ISO 4586-2 Method 31 (B)
No effect was exhibited except as noted (* or **) on the following:

1. Beckart Environmental (Stabilized Chlorine Dioxide Mixed with Water at 3000ppm)
2. Benefect®
3. Claire® Germicidal Cleaner (Country Fresh Scent)
4. Claire® Disinfectant Spray Q (Country Fresh Scent)
5. Clean Republic – All Purpose Everyday Cleaner (Hypochlorous Acid – 0.003% Solution)
6. Clorox® Anywhere® Hard Surface Sanitizing Spray*
7. Clorox® Clean-Up (Cleaner & Bleach)
8. Clorox® Disinfecting Bleach w/6% Sodium Hypochlorite (24:1/Water:Bleach)
9. Clorox® Disinfecting Spray
10. Clorox® Disinfecting Wipes
11. Clorox Healthcare® Bleach Germicidal Cleaner *
12. Clorox Healthcare® Hydrogen Peroxide Cleaner Disinfectant
13. Clorox Healthcare® Fuzion® Cleaner Disinfectant*
14. Clorox Healthcare® VersaSure® Cleaner Disinfectant Wipes
15. Clorox® Total 360 Disinfectant Cleaner
16. Diversey™ Expose® II 256
17. Diversey™ Oxivir 1
18. Diversey™ Oxivir Tb Wipes
19. Diversey™ Stride® Floral Neutral Cleaner
20. Diversey™ Virex® II 256
21. Fabuloso® Complete (Multi-Purpose Cleaner)
22. Lysol® Professional Disinfectant Spray
23. Microban® 24 Hour (Multi-Purpose Cleaner)
24. PDI Sani-Prime® Germicidal Spray
25. PDI Super Sani-Cloth® Germicidal Disposable Wipes
26. Purell® Advanced Hand Sanitizer Gel
27. Purell® Food Service Surface Sanitizer
28. Purell® Professional Surface Disinfectant
29. Purell® Healthcare Surface Disinfectant
30. Simple Green® Concentrated (All-Purpose Cleaner)
31. Spic and Span® Everyday (Antibacterial Cleaner)

Test procedure: Listed materials were placed in contact with Wilsonart® Laminate surface under 1" (25.4mm) diameter watch cover glass for 16 hours duration prior to evaluation for effect. The branded cleaners and sanitizers listed above were cleaned with water only.

* Causes slight change of gloss or color.

** Causes slight damage, with degree of damage proportionate to length of exposure and concentration.

Branded Cleaner and Sanitizer Resistance for Wilsonart® Laminate per BIFMA HCF 8.1-2014 (Section 6 / Modified)
No effect was exhibited except as noted (* or **) on the following:

1. Beckart Environmental, Inc. (Stabilized Chlorine Dioxide Mixed with Water at 3000ppm)
2. Benefect®
3. Claire® Germicidal Cleaner (Country Fresh Scent)
4. Claire® Disinfectant Spray Q (Country Fresh Scent)
5. Clean Republic – All Purpose Everyday Cleaner (Hypochlorous Acid – 0.003% Solution)
6. Clorox® Anywhere® Hard Surface Sanitizing Spray
7. Clorox® Clean-Up (Cleaner & Bleach)
8. Clorox® Disinfecting Bleach w/6% Sodium Hypochlorite (24:1/Water:Bleach)
9. Clorox® Disinfecting Spray
10. Clorox® Disinfecting Wipes
11. Clorox Healthcare® Bleach Germicidal Cleaner
12. Clorox Healthcare® Hydrogen Peroxide Cleaner Disinfectant

13. Clorox Healthcare® Fuzion® Cleaner Disinfectant
14. Clorox Healthcare® VersaSure® Cleaner Disinfectant Wipes
15. Clorox® Total 360 Disinfectant Cleaner
16. Diversey™ Expose II 256
17. Diversey™ Oxivir 1
18. Diversey™ Stride® Floral Neutral Cleaner
19. Diversey™ Tb Wipes
20. Diversey™ Virex II 256
21. Fabuloso® Complete (Multi-Purpose Cleaner)
22. Lysol® Professional Disinfectant Spray
23. Microban® 24 Hour (Multi-Purpose Cleaner)
24. PDI Sani-Prime® Germicidal Spray
25. PDI Super Sani-Cloth® Germicidal Disposable Wipes
26. Purell® Advanced Hand Sanitizer Gel
27. Purell® Food Service Surface Sanitizer
28. Purell® Professional Surface Disinfectant
29. Purell® Healthcare Surface Disinfectant
30. Simple Green® Concentrated (All-Purpose Cleaner)
31. Spic and Span® Everyday (Antibacterial Cleaner)

Test procedure: Listed reagent materials were placed in contact with Wilsonart® Laminate surface with a one-inch square 100% cotton cloth completely saturated and covered with a 2" (50.8mm) diameter watch cover glass for 15 minute duration. The reagents listed above were removed with clean cloth and the area was then cleaned with clean cloth and distilled water only. The surface area was allowed to dry for 1-hour prior to evaluation for effect.

* Causes slight change of gloss or color.

** Causes slight damage, with degree of damage proportionate to length of exposure and concentration.

Resistance of Furniture to UV Lights for Wilsonart® Laminate per BIFMA HCF 8.1-201X Section 9 (Alternate Method per ASTM G155 using ISO 4586-2.33 conditions).

Wilsonart® Laminates 107,335,350 and 376 conforms to BIFMA – Healthcare Furniture Design Guidelines for Cleanability, Section 9 Resistance to Furniture to UV Lights. Wilsonart® Laminates 107, 335, 350 and 376 meet or exceed the acceptance level for surface evaluation.

4. Installation: Fabrication and Assembly Recommendations

Fabrication should follow approved methods. Assembled pieces should meet the specifications of KCMA (Kitchen Cabinetmakers Manufacturers Association), ANSI A-161.2-1998 (revised), and "Architectural Woodwork Quality Standards, Guide Specifications and Quality Certification Program" guidelines of the Architectural Woodwork Institute where applicable.

Wilsonart® Laminates must be bonded to a substrate of reliable quality, such as particleboard, medium density fiberboard or plywood with one A-face. High-Pressure Laminate, plaster, concrete and gypsum board should not be considered suitable substrates. Basic Types laminate may not be used as structural members.

Bond with adhesives and follow the techniques recommended by the adhesive manufacturer. Recommended adhesives are permanent types, such as urea and polyvinyl acetate (PVA), and contact types. Wilsonart adhesives are recommended for most bonding conditions.

To avoid stress cracking, do not use square-cut inside corners. All inside corners should have a minimum of 1/8" (3.175mm) radius and all edges should be routed smooth.

Drill oversized holes for screws or bolts. Screws or bolts should be slightly countersunk into the face side of a laminate-clad substrate.

Take care to ensure an appropriate acclimation between the laminate and the substrate prior to fabrication. The face and backing laminates and the substrate should be conditioned in the same environment for 48

hours before fabrication. Recommended conditioning temperature is about 75°F (24°C). Laminates should be conditioned at 45% to 55% relative humidity.

With postforming machinery, Wilsonart® Laminate types 335 and 350 will postform at a nominal sheet temperature range of 325°F to 338°F (163°C to 170°C) in 20 ± 5 seconds.

Carbide-tipped saw and router blades should be used for cutting. High tool speed and low feed speed are advisable. Cutting blades should be kept sharp. Use a hold-down to prevent any vibration.

5. Warranty

6. Maintenance

7. Technical Services

For samples, literature, questions or technical assistance, please contact our toll-free Hotline at (800) 433-3222, Monday through Friday, 8 am – 5 pm, CST.

Specification Form:
Surface shall be Wilsonart® Laminate, produced by Wilsonart LLC, Temple, Texas 76503-6110

Type: Specify 107, 335 or 350

Surface
Color Number: _____ Color Name: _____

Finish
Number: _____ Name: _____

Edge Trim
Color Number: _____ Color Name: _____

Adhesive
Name: _____ Grade/Type: _____
Brand: Wilsonart® Adhesive

Wilsonart® Laminate Technical Data
Basic Types 107, 335, 350
Revised: September 15, 2020
© 1998-2020, Wilsonart LLC

Millwork® Wall Finishing System

Wallbase, Chair Rail, Corner Guard, and Quarter Round & Shoe Moulding

Product Specification

1. PROPRIETARY PRODUCT/MANUFACTURER

1.1. **Proprietary Product**: Millwork Wall Finishing System profiles replicate the look of finely milled wood.

1.2. **Manufacturer:**

Tarkett North America Phone (800) 899-8916
30000 Aurora Rd.
Solon, Ohio 44139
Web: www.tarkett.com
E-mail: info@tarkett.com

1.3. **Proprietary Product Description:**

1.3.1. **Construction**: Tarkett Millwork Resilient Wall Base is manufactured from a proprietary thermoplastic rubber formulation designed specifically to meet the performance and dimensional requirements of ASTM F-1861 Standard Specification for Resilient Wall Base, Type TP, and Group 1.

1.3.2. **Physical Characteristics** (Millwork Wallbase)**:**

Style	Dimension	Per Carton		
		Pcs.	LF	Lbs.
Ambassador (MW-XX-K)	3/8" x 4" x 8' (9.52mm x 10.16cm x 2.44m)	6	48 (14.6m)	34.8 (15.8 kg)
Attaché (MW-XX-E)	¼" x 6"x 8' (6.35mm x 15.24cm x 2.44m)	8	64 (19.5m)	51.7 (23.5 kg)
Delineate (MW-XX-T)	0.4" x 4 ¼" x 8' (10.2mm x 10.8cm x 2.44m)	6	48 (14.6m)	43.2 (19.6 kg)
Diplomat (MW-XX-A)	3/8" x 4 ½" x 8' (9.52mm x 11.43cm x 2.44m)	6	48 (14.6m)	43.2 (19.6 kg)
Equinox (MW-XX-R)	3/8" x 4 ½" x 8' (9.53mm x 11.43 cm x 2.44m)	5	40 (12.2 m)	45 (20.4 kg)
Exhibit (MW-XX-FS)	¼" x 4 ¼" x 8' (6.35mm x 10.8cm x 2.44m)	8	64 (19.5m)	46.5 (21.1 kg)
Exhibit (MW-XX-FS6)	¼" x 6"x 8' (6.35mm x 15.24cm x 2.44m)	8	64 (19.5m)	61 (27.7 kg)
Exhibit (MW-XX-FS8)	¼" x 8" x 8' (6.35mm x 20.32 cm x 2.44m)	4	32 (9.8m)	44 (20.0 kg)
Inflection (MW-XX-G)	3/8" x 5 ¼" x 8' (9.52mm x 13.34 cm x 2.44m)	6	48 (14.6m)	62 (28.1 kg)
Ledge (MW-XX-X62)	0.35" x 6" x 8' (8.89mm x 15.24cm x 2.44m)	5	40 (12.2m)	58 (26.3 kg)
Mandalay (MW-XX H25)	3/8" x 2 ½" x 8' (9.52mm x 6.35cm x 2.44m)	5	40 (12.2 m)	26.7 (12.1 kg)
Mandalay (MW-XX-H3)	3/8" x 3" x 8' (9.52mm x 7.62cm x 2.44m)	7	56 (17.1 m)	44.9 (20.4 kg)
Mandalay (MW-XX-H)	3/8" x 4 ½" x 8' (9.53mm x 11.43cm x 2.44m)	5	40 (12.2 m)	48.7 (22.1 kg)
Mandalay (MW-XX-H6)	3/8" x 6" x 8' (9.53mm x 15.24cm x 2.44m	4	32 (9.8 m)	53.4 (24.2 kg)
Monarch (MW-XX-M)	3/16" x 6" x 8' (4.76mm x 15.24cm x 2.44m)	6	48 (14.6 m)	48.3 (21.9 kg)
Monument (MW-XX-S25)	¼" x 2.5" x 8' (6.35mm x 6.35cm x 2.44m)	8	64 (19.5m)	29.8 (13.5 kg)
Monument (MW-XX-S4)	¼" x 4" x 8' (6.35mm x 10.16cm x 2.44m)	8	64 (19.5m)	48 (21.8 kg)
Oblique (MW-XX-N)	3/8" x 3" x 8' (9.52mm x 7.62cm x 2.44m)	7	56 (17.1 m)	41.1 (18.6 kg)
Outline (MW-XX-D)	5/16" x 3 ½" x 8' (7.94mm x 8.89cm x 2.44m)	10	80 (24.4 m)	46 (20.9 kg)
Recessed (MW-XX-X63)	0.35" x 6" x 8' (8.89mm x 15.24cm x 2.44m)	5	40 (12.2m)	50 (22.7 kg)
Reveal (MW-XX-F)	¼" x 4 ¼" x 8' (6.35mm x 10.8cm x 2.44m)	8	64 (19.5m)	49.7 (22.5 kg)
Reveal (MW-XX-F6)	¼" x 6" x 8' (6.35mm x 15.24cm x 2.44m)	8	64 (19.5m)	66 (29.9 kg)
Reveal (MW-XX-F8)	¼" x 8" x 8' (6.35mm x 20.32 cm x 2.44m)	4	32 (9.8 m)	47.8 (21.7 kg)
Silhouette (MW-XX-J)	½" x 4" x 8' (12.7mm x 10.16cm x 2.44m)	6	48 (14.6m)	39.3 (17.8 kg)
Stance (MW-XX-X60)	0.35" x 4 ½" x 8' (8.89mm x 11.43cm x 2.44m)	5	40 (12.2m)	33 (15.0 kg)
Stance (MW-XX-X61)	0.35" x 6" x 8' (8.89mm x 15.24cm x 2.44m)	5	40 (12.2m)	45 (20.4 kg)

1.3.3. **Physical Characteristics** (Chair Rail & Corner Guard):

Style	Dimension	Per Carton		
		Pcs.	LF	Lbs.
Rampart (CHR-XX-C)	3/8" x 4"x 8' (9.52mm x 10.16cm x 2.44m)	5	40 (12.2 m)	36 (16.3 kg)
VBG-XX-C	¼" thick 90° profile with 1 ¼" (3.18cm) return legs x 8'	10	80 (24.4 m)	30 (13.6 kg)

Tarkett North America
Technical Services Department
30000 Aurora Road
Solon, Ohio 44139
800.899.8916
info@tarkettna.com
www.tarkett.com

© 2024 Tarkett USA Inc. 06/2024

1.3.4. **Physical Characteristics** (Quarter Round/Shoe Moulding):

Style	Dimension	Per Carton		
		Pcs.	LF	Lbs.
QTR-XX-A	½" wide x ½" radius x 8' (12.7mm x 12.7mm x 2.44m) With pre-applied, pressure sensitive adhesive backing	20	160 (48.8 m)	25 (11.3 kg)
QTR-XX-D	¾" wide x ¾" radius x 8' (19.05mm x 19.05mm x 2.44m) With pre-applied, pressure sensitive adhesive backing	10	80 (24.4 m)	27 (12.2 kg)
SHU-XX-A	¼" wide x 1 ½" x 8' (6.35mm x 3.81cm x 2.44m) With pre-applied, pressure sensitive adhesive backing	10	80 (24.4 m)	19 (8.6 kg)

2. PRODUCT PERFORMANCE AND TECHNICAL DATA

2.2. Millwork Wall Base meets or exceeds the performance requirements for resistance to heat/light aging, chemicals, and dimensional stability when tested to the methods, as described, in ASTM F-1861.

2.3. **Flexibility**: Will not crack, break, or show any signs of fatigue when bent around a 1/4" (6.4 mm) diameter cylinder.

2.4. **Chemical resistance** (ASTM F 925): Passes – 5% acetic acid, 70% isopropyl alcohol, mineral oil, 5% sodium hydroxide solution, 5% hydrochloric acid solution, 5% sulfuric acid solution, 5% household ammonia solution, and 5.25% household bleach solution

2.5. **Resistance to light** (ASTM F 1515)**:** $\Delta E < 8$

2.6. **Fire Resistance: (**ASTM E 648) Critical Radiant Flux (NFPA 253): Class I

2.7. **CAN/ULC-S102.2:** FSR 48 / SDV 366

3. AVAILABILITY AND COST

For availability and cost contact authorized Tarkett distributors nationwide.

4. INSTALLATION

4.1 See Tarkett Millwork Wall Finishing Systems or Chair Rail installation instructions for complete details.

4.2. **Adhesives:**

Quarter Round (QTR XX A, QTR XX D) and Shoe Moulding (SHU XX A) are self-stick accessories designed for application to Tarkett Millwork and do not require additional adhesives.

- **Tarkett 946 Premium Contact Adhesive (Non-porous surfaces)**
  Application: Brush or roller

  Approximate coverage:

Base Height	1 qt. unit:	1 gal. unit:
2.5"	115-173 lf.	692-1034 lf.
3"	96-144 lf.	576-860 lf.
3 ½"	81-123 lf.	493-736 lf.
4"	72-108 lf.	432-646 lf.
4 ¼"	68-102 lf.	407-607 lf.
4 ½"	64-96 lf.	384-573 lf.
6"	48-72 lf.	288-430 lf.
8"	36-54 lf.	215-322 lf.

- **Tarkett 960 Cove Base Adhesive (Porous surfaces)**
  Application: 1/8x1/8x1/8 SQ-notch trowel
  Approximate Coverage:

Base Height	1 gal unit
2.5"	300-350 lf.
3"	275-325 lf.
3 ½"	230-280 lf.
4"	200-250 lf.
4 ¼"	185-235 lf.
4 ½"	175-225 lf.
6"	100-150 lf.
8"	100-125 lf.

5. MAINTENANCE

72 hours after installation is completed, initial maintenance procedures must be implemented in accordance with manufacturer's requirements. Refer to Tarkett Millwork Resilient Wall Base Installation & Maintenance Instructions for complete maintenance details.

6. TECHNICAL SERVICES

Visit us on the web at **www.tarkett.com**

Contact Technical Support at (800) 899-8916 or E-mail: **Resilient.TechnicalSupport@Tarkett.com**

Samples: Submittal samples for verification and approval available upon request from Tarkett. Samples shall be submitted in compliance with the requirements of the contract documents. Accepted and approved samples shall constitute the standard materials which represent materials installed on the project.

7. LIMITED WARRANTY

Limited 2-year warranty. For complete details, contact Tarkett or an authorized Tarkett distributor.

Tarkett North America
Technical Services Department
30000 Aurora Road
Solon, Ohio 44139
800.899.8916
info@tarkettna.com
www.tarkett.com

© 2024 Tarkett USA Inc. 06/2024

MetalEdge™ & MetalEdge Trim — Product Specification

1. PROPRIETARY PRODUCT/MANUFACTURER

1.1. **Proprietary Product**: Tarkett MetalEdge resilient transitional mouldings that are A.D.A. Compliant.

1.2. **Manufacturer:**

Tarkett North America Phone (800) 899-8916
30000 Aurora Rd.
Solon, Ohio 44139
Web: www.tarkett.com
E-mail: info@tarkett.com

1.3. **Proprietary Product Description:**

1.3.1. **Construction**: Tarkett MetalEdge resilient transitional mouldings are manufactured from a homogeneous composition of polyvinyl chloride (PVC), high quality additives, and colorants. All transitional mouldings comply with A.D.A. requirements of Section 4.5.2 *Changes of Level*. Tarkett transitional mouldings are designed for interior applications only.

1.3.2. **Styles:**

- **ME001:**
  - 0.120" (3.0mm) LVT materials to carpet with total thickness of 0.21" (5.3mm) to 0.25" (6.4mm), 0.18" (4.6mm) cap with 0.13" (3.2mm) wide support
- **MET02:**
  - 0.120"(3.0mm) LVT Materials to carpet with total thickness of up to 0.21" (5.2mm), 0.18" (4.6mm) cap with 0.13" (3.2mm) wide support
  - **This piece also serves as MetalEdge Trim:** Edge trim for Ethos Modular not installed wall-to-wall – see installation instructions for details.
- **ME003:** Use in conjunction with **ME004**
  - 0.120" (3.0mm) LVT to carpet with a total thickness of 0.26" (6.5mm) or greater, 0.25" (6.35mm) cap with 0.13" (3.18mm) wide support

1.3.3. **Physical Characteristics**

- **Length:**
  - **ME001, MET02, ME003 –** 12ft (3.66m)
  - **ME004 –** 4ft (1.22m)
- **Packaging:**
  - **ME001, MET02, ME003 –** 25 pieces per carton
  - **ME004 –** 20 pieces per carton

2. PERFORMANCE AND TECHNICAL DATA

- **Slip Resistance (ASTM D 2047):** Exceeds Federal Standards and A.D.A. recommendations
- **Fire Resistance (ASTM E 648 / NFPA 253 Critical Radiant Flux):** Class 1

3. INSTALLATION

3.1 See Tarkett MetalEdge & MetalEdge Trim installation instructions for complete details.

3.2 **Adhesives:**

- **Tarkett RollSmart™ Adhesive:**
  Application: 3/8" nap paint roller
  Approximate coverage: POROURS & NON-POROUS
  350 - 400 sq. ft. per gallon
- **Tarkett 959™ Adhesive:**
  Application: 1/16x1/16x1/16 V notch trowel
  Approximate Coverage:
  POROUS: 150 - 175 sq ft. per gallon
  NON POROUS: 250 - 300 sq. ft. per gallon
- **Tarkett 946™ Premium Contact Adhesive**
  Application: Basting Brush
  Approximate Coverage: POROUS & NON-POROUS
  24-36 sq ft per 1 QT / 144-215 sq ft per 1 GAL
- **Tarkett 975™ Two-Part Polyurethane Adhesive:**
  Application: 1/32x1/16x1/32 U notch trowel
  Approximate Coverage: POROUS & NON-POROUS
  225 - 250 sq. ft. per gallon
- **Tarkett Power Tape™ (ethos Modular Only)**
  1 ½"x164 lf per roll

4. AVAILABILITY AND COST

Available through authorized Tarkett distributors nationwide.

5. MAINTENANCE

72 hours after installation is completed, initial maintenance procedures must be implemented in accordance with manufacturer's requirements. Refer to Tarkett maintenance instructions for complete maintenance details.

6. TECHNICAL SERVICES

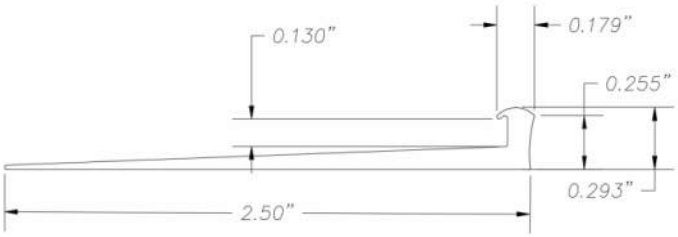
Visit us on the web at **www.tarkett.com**
Contact Technical Support at (800) 899-8916 or E-mail: **Resilient.TechnicalSupport@Tarkett.com**

© 2024 Tarkett USA Inc. 11/2024

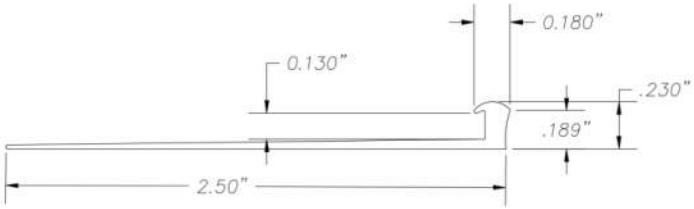
Samples: Submittal samples for verification and approval available upon request from Tarkett. Samples shall be submitted in compliance with the requirements of the contract documents. Accepted and approved samples shall constitute the standard materials which represent materials installed on the project.

7. **LIMITED WARRANTY**

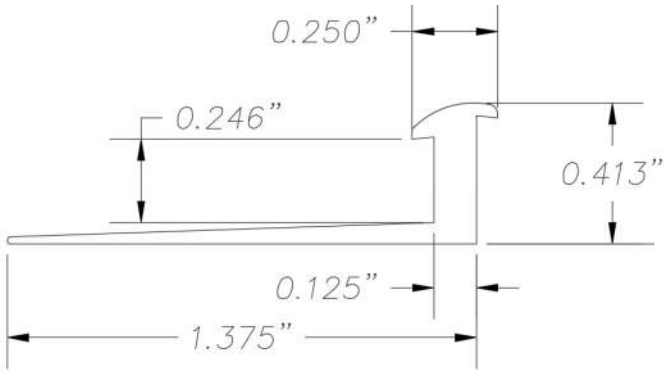
Limited 20 year warranty. For complete details, contact Tarkett or an authorized Tarkett distributor.



ME001



MET02



ME003

ME004

Tarkett North America
Technical Services Department
30000 Aurora Road
Solon, Ohio 44139
800.899.8916
info@tarkettna.com
www.tarkett.com

© 2024 Tarkett USA Inc. 11/2024

Wheeled Traffic Transitions — Product Specification

1. PROPRIETARY PRODUCT/MANUFACTURER

1.1. **Proprietary Product**: Resilient Wheel Traffic Transitional Mouldings

1.2. **Manufacturer:**

Tarkett North America
30000 Aurora Rd.
Solon, Ohio 44139
Web: www.tarkettna.com
Phone: (800) 899-8916
(440) 543-8916

1.3. **Proprietary Product Description:**

1.3.1. **Construction:** Tarkett Wheel Traffic Transitional Mouldings are manufactured from a homogeneous composition of polyvinyl chloride (PVC), high quality additives, and colorants. All Wheel Traffic Transitional Mouldings comply with A.D.A. requirements of Section 4.5.2 Changes of Level.

1.3.2. **Styles:**

CTA-XX-H: 1/4" (6.35 mm) to 1/8" (3.18 mm) material, 2-1/2" (6.35 cm) cap with 1-3/4" (4.45 cm) wide support base, wheel traffic design

CTA-XX-HL: 1/4" (6.35 mm) to 1/8" (3.18 mm) material, 4" (10.16 cm) cap with 3-1/4" (8.26 cm) wide support base, wheel traffic design (1:20 slope)

CTA-XX-HT: 1/4" (6.35 mm) to .080" (2.0 mm) material, 2-1/2" (6.35 cm) cap with 1-3/4" (4.45 cm) wide support base, wheel traffic design

CTA-XX-J: 1/4" (6.35 mm) material to floor, 2-1/2" (6.35 cm) cap with 2-1/8" (5.4 cm) wide support base

CTA-XX-JL: 1/4" (6.35 mm) material to floor, 4" (10.16 cm) cap with 3-5/8" (9.21 cm) wide support base, wheel traffic design

CTA-XX-K: 3/8" (9.53 mm) to 1/8" (3.18 mm) materials, 2-1/2" (6.35 cm) cap with 1-3/4" (4.45 cm) wide support base, wheel traffic design (1:8 slope)

CTA-XX-L: 3/8" (9.53 mm) to 1/4" (6.35 mm) material, 2-1/2" (6.35 cm) cap with 1-3/4" (4.45 cm) wide support base, wheel traffic design

CTA-XX-M: 1/4" (10.16 cm) to 1/4" (10.16 cm) material, 2-1/2" (6.35 cm) cap with 1-3/4" (4.45 cm) wide support base, wheel traffic design

CTA-XX-N: 1/8" (3.17 cm) to 1/8" (3.17 cm) material, 2-1/2" (6.35 cm) cap with 1-3/4" (4.45 cm) wide support base, wheel traffic design

CTA-XX-P: 3/8" (9.53 mm) material to floor, 2-1/2" (6.35 cm) cap with 2-1/8" (5.4 cm) wide support base, wheel traffic design

CTA-XX-PL: 3/8" (9.53 mm) to floor, 4" (10.16 cm) cap with 3-5/8" (9.2 cm) wide support base, wheel traffic design

CTA-XX-Q: 1/2" (12.7 mm) to floor, 4" (10.16 cm) cap with 3-5/8" (9.2 cm) wide support base, wheel traffic design

CTA-XX-X: 1/8" (3.17 mm) to .080" (2 mm) material, 2-1/2" (6.35 cm) cap with 1-3/4" (4.45 cm) wide support base, wheel traffic design

CTA-XX-Y: .080" (2 mm) to .080" (2 mm) material, 2-1/2" (6.35 cm) cap with 1-3/4" (4.45 cm) wide support base, wheel traffic design

CTA-XX-Z: 3/8" (9.53 mm) to .080" (2 mm) material, 2-1/2" (10.16 cm) cap with 1-3/4" (9.2 cm) wide support base, wheel traffic design

1.4. **Physical Characteristics:**

Length: 12 ft. (3.66 m)
Packaging: 10 lengths [120 ft. (36.58 m)] per carton, except CTA-HL and CTA-Q = 5 lengths [60 ft. (18.3 m)] per carton; CTA-PL = 6 lengths [72 ft. (21.9 m)] per carton.

2. PRODUCT PERFORMANCE AND TECHNICAL DATA

2.1. **Hardness**: ASTM D 2240 - Not less than 85 Shore A

2.2. **Abrasion Resistance**: ASTM D 3389 - 0.22 mg/cycle

2.3. **Slip Resistance**: ASTM D 2047 - Exceeds Federal Standards and ADA recommendations of .5 for flat surfaces

2.4. **Fire Resistance**: ASTM E 648/NFPA 253 (Critical Radiant Flux) - Class 1

3. INSTALLATION

3.1. See Tarkett Wheeled Traffic Transition installation and maintenance instructions for complete details.

3.2. **Adhesives:**

- **Tarkett 946 Premium Contact Adhesive** (Non-porous surfaces)

  Application: Brush or roller

  Approximate coverage:
  1 Quart (0.95 liters) – 24 to 36 sq. ft.
  1 Gallon (3.79 liters) – 100 to 150 sq. ft.

- **Other adhesives**: 925, 926, 959, 965, 996 Two-part epoxy, and 975 two-part urethane.

4. AVAILABILITY AND COST

Available through authorized Tarkett distributors nationwide.

5. WARRANTY

Limited 2 year warranty. For complete details, contact Tarkett or an authorized Tarkett distributor.

© 2019 Tarkett USA Inc. 07/2019

6. MAINTENANCE

72 hours after installation is completed, initial maintenance procedures must be implemented in accordance with manufacturer's requirements. Refer to Tarkett Wheeled Traffic Transition Installation & Maintenance Instructions for complete maintenance details.

7. TECHNICAL SERVICES

Samples: Submittal samples for verification and approval available upon request from Tarkett. Samples shall be submitted in compliance with the requirements of the contract documents. Accepted and approved samples shall constitute the standard materials which represent materials installed on the project.

For current Installation and Maintenance Instructions, Product Specifications, and other technical data, visit us on the web at www.tarkettna.com or contact Tarkett at 1-800-899-8916.

Tarkett North America
Technical Services Department
30000 Aurora Road
Solon, Ohio 44139
800.899.8916
info@tarkettna.com
www.tarkettna.com

© 2019 Tarkett USA Inc. 07/2019

Color Blox 2.0

Porcelain Stone®

CROSSVILLE®

Available Colors

CBX01 ▸ Sandbox

CBX03 ▸ Slinky

CBX07 ▸ Mud Pie

CBX08 ▸ Sea Otter

CBX14 ▸ Tree House

CBX13 ▸ Blue Suede Shoes

CBX17 ▸ I See the Moon

CBX31 ▸ Cotton Sheets

CBX32 ▸ Boot Black

CBX33 ▸ Wet Clay

CBX34 ▸ Spring Sage

CBX35 ▸ Celestial Horizon

CBX36 ▸ Just Ducky

CBX37 ▸ Cayenne

CBX38 ▸ Little Boy Blue

Features and Benefits

- Fresh faced enhancement to the original Color Blox line
- Cross-Sheen finish for easy cleaning (UPS)
- Field tiles range from 4x12, 6x6, 12x12, 12x24, and an impressive 24x24
- Finish custom creations with 3x3 mosaics and trims including cove bases, bull noses, and corners.
- Green Square Certified
- Made in the USA

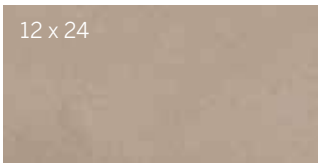
Crossville, Inc. • P.O. Box 1168, Crossville, TN 38557 • Phone: 931.484.2110 • Fax: 931.456.2956 • E-Mail: Crossc@CrossvilleInc.com • CrossvilleInc.com

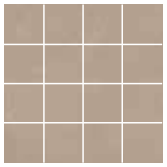
Color Blox 2.0

Porcelain Stone®

CROSSVILLE®

Sizes *Shown in CBX33 Wet Clay*





3 x 3 Mosaics

Sizes & Finishes

Field Tile - Calibrated *Available in all colors**

Nominal (in)	Actual (in)	Thickness (mm)	Grout Joint (in)	Finish
4 x 12*	3-3/4 x 11-3/4	9.5	3/16	UPS
6 x 6	5-13/16 x 5-13/16	9.5	3/16	UPS
12 x12	11-13/16 x 11-13/16	9.5	3/16	UPS
12 x 24	11-13/16 x 23-13/16	9.5	3/16	UPS
24 x 24**	23-13/16 x 23-13/16	10.5	3/16	UPS

All field tile is calibrated (non-rectified).
Crossville recommends a minimum 3/16" grout joint.
* Custom Cut Program. Allow 2-4 weeks based on availablity for delivery. The cut/bevel tile is cut from a larger format tile and is beveled to provide a factory apperarnce.
** 24 x 24 is available in these colors only: CBX01, CBX03, CBX07, CBX08, CBX14, CBX17, CBX31, CBX32 and CBX33

Mosaic

Nominal (in)	Actual (in)	Thickness (mm)	Grout Joint (in)	Finish
3 x 3*	2-7/8 x 2-7/8	6.4	1/8	UPS

* 3 x 3 Mosaic Tile in 11-3/4 x 11-3/4 sheets with a 1/4 inch grout joint.

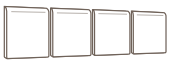
Coordinating Trim

Nominal (in)	Actual (in)	Thickness (mm)	Grout Joint (in)	Finish
3 x 3 Mounted Bullnose 1 Linear Foot	2-7/8 x 2-3/4	6.4	1/8	UPS
3 x 3 Bullnose Corner	2-7/8 x 2-7/8	6.4	1/8	UPS
3 x 3 Mounted Cove Base 1 Linear Foot	3-5/8 x 11-3/4	6.4	1/8	UPS
4 x 24 Single Bullnose	3-3/16 x 23-13/16	9.5	3/16	UPS
4 x 12 Bullnose Corner Left & Right	3-3/16 x 11-13/16	9.5	3/16	UPS
6 x 12 Cove Base	5-7/8 x 11-3/4	9.5	3/16	UPS
6 x 8 Cove Base Corner Left & Right	5-7/8 x 7-3/4	9.5	3/16	UPS

4 x 24 Single Bullnose

4 x 12 Single Bullnose Corner Left

4 x 12 Single Bullnose Corner Right

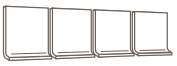

3 x 3 Mounted Bullnose 1 Linear Foot

3 x 3 Bullnose Corner

6 x 12 Cove Base

6 x 8 Cove Base Left

6 x 8 Cove Base Right


3 x 3 Mounted Cove Base, 1 Linear Foot

Product Performance

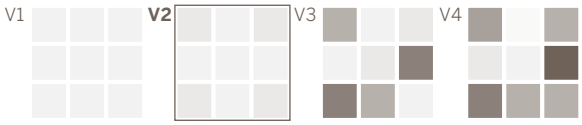
Breaking Strength	450 lbf	ASTM C648
Bond Strength	>200 psi	ASTM C482
Chemical Resistance	Unaffected	ASTM C650
Frost Resistance	Resistant	ASTM C1026
Water Absorption	<0.50%	ASTM C373
Scratch Hardness	7	Mohs Scale

Wet Dynamic Coefficient of Friction Range

UPS	0.50 - 0.60	ANSI A326.3

Shade & Texture Index

Color Blox 2.0 has a shade variation of V2.



V1 Uniform appearance
V2 Slight Variation
V3 Moderate Variation
V4 Substantial Variation

Get Planked!

Our Porcelain Stone® products are available in popular plank shapes with no minimum order and quick fulfillment.

See website for more details and sizes.

Crossville, Inc. • P.O. Box 1168, Crossville, TN 38557 • Phone: 931.484.2110 • Fax: 931.456.2956 • E-Mail: Crossc@CrossvilleInc.com • CrossvilleInc.com

Color Blox 2.0

Crossville, Inc.
PO Box 1168
Crossville, TN
38557

Phone 931.484.2110
Fax 931.456.2956
E-Mail Crossc@CrossvilleInc.com
Web CrossvilleInc.com

Application Areas

Finish	Interior Floors (dry)	Interior Walls (wet/dry)	Exterior Walls	Interior Floors (Standing water/ shower floors)	Exterior/Paving	Pool/Fountain Full Lining**	Water Line Pool/ Fountains
UPS	✓	✓	✓	Mosaic Only*		✓	✓

* 4" or less in both length and width, UPS or UP mosaics

** Excludes mesh mounted mosaics. Crossville recommends face mounted or edge mounted mosaics for fully submerged applications. Contact your Crossville sales representative for more information.

NOTE: Trim applications will differ from field tile applications for the same series.

For more information on ANSI- A362.3 visit our website at https://www.crossvilleinc.com/Resources/Tile-101/DCOF?tab=1

Recommended Use

Color Blox 2.0 is recommended for interior floors, interior walls, countertops, exterior walls, pool waterlines and full linings† in both residential and commercial applications. Color Blox 2.0 is not recommended for exterior horizontal surfaces or exterior paving. See CrossvilleInc.com for detailed installation instructions.

† *Excludes mesh mounted mosaics.*

Care and Maintenance

Regular cleaning is the best way to keep Color Blox 2.0 tile looking good for years to come. Use clean, hot water (combined with a household cleaner for more aggressive cleaning). Rinse thoroughly and dry with a soft cloth. No waxes are needed. More information regarding the care and maintenance of Crossville® products is available at CrossvilleInc.com.

Wet area use for 3 x 3 Mosaics

Crossville® produces the Color Blox 2.0 Mosaics with the Cross-Sheen® (UPS) finish that has an ANSI A326.3 Wet Dynamic COF of ≥ .50. Their small sizes ensure frequent grout joints which provides traction and drainage. Crossville cannot control situations involving incorrect installation, improper slope to the drain for elimination of standing water and poor surface cleaning.

This information is provided so that customers may make a realistic and informed decision when comparing Crossville Mosaics to other tile products in wet area environments, such as residential/commercial bathrooms, showers, and interior pool decks.

Our Warranty

Crossville Inc. guarantees that its products will meet or exceed the performance specifications outlined in ANSI A137.1- 2022 and in the performance data section of the Crossville, Inc. general product catalog. For complete details check our website at CrossvilleInc.com.

Crossville® Sample Express

Visit the website to learn more:
CrossvilleInc.com/Products/Color-Blox-2-0

Loose Tile Samples
Sizes may vary depending on product series
Max. of 4 large field tile per order

Standard Shipping
FedEX Ground

National Accounts

For over 20 years we have been offering Porcelain tile to commercial customers at National Accounts pricing programs with special discounts. The National Accounts department provides materials forecasting, sales support and samples.

CrossvilleInc.com

If you want a better idea of what Crossville tile would look like in a particular room setting, simply visit our website and click on Cross-Vision. This powerful software tool allows you to visualize different types of Crossville tile. In addition, you'll find comprehensive information about Crossville's entire portfolio of products. You can also learn about the latest styles and trends from industry experts, download detailed care and maintenance instructions for our various products, or browse electronic versions of Crossville's product brochures. So whether you need information about Crossville products or tile in general, please visit us at CrossvilleInc.com. Information listed here is subject to change.

Floor: **CBX17** ▸ I See the Moon 12 x 24 UPS

Trade Organizations

Environmentally Aware

Notorious

Porcelain Stone®

Colors

NTR01 ▸ Femme Fatal

NTR02 ▸ Private Eye

NTR03 ▸ Sugar Daddy

NTR04 ▸ Suspense

NTR05 ▸ Leading Man

NTR06 ▸ Film Noir

Features and Benefits

- Distinct concrete visuals deliver urban sophistication with a level of endurance true concrete can't offer.
- Modular sizing, mosaics, and brick plank looks to trim including a cove base and bullnose
- Complete trim package including mosaics suitable for shower floors
- All field tile is rectified and Crossville recommends a minimum of 3mm grout joint
- Cross-Sheen finish for easy cleaning
- Green Squared℠ certified and Made in the USA
- Perfectly blend with Crossville's Nest wood-look porcelain for even more solutions. Wrap concrete with planks for a new take on parquet
- Plank shapes are also available through Crossville's Get Planked® program, which offers a variety of plank sizes with no minimum order and a short lead time

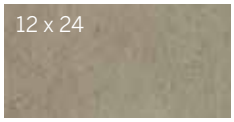
CROSSVILLE®

Crossville, Inc. • P.O. Box 1168, Crossville, TN 38557 • Phone: 931.484.2110 • Fax: 931.456.2956 • E-Mail: Crossc@CrossvilleInc.com • CrossvilleInc.com

Notorious

Porcelain Stone®

Sizes *(Shown in NTR04)*



3 x 15

Mixed Mosaic
UPS Finish
(Mounted on a
297 x 297 sheet)

Sizes & Finishes

Field Tile - Rectified — Available in all colors

Nominal (in)	Actual (mm)	Thickness (mm)	Grout Joint (mm)	Finish
3 x 15	72 x 372	9.5	3	UPS
12 x 12	297 x 297	9.5	3	UPS/HON
12 x 24	297 x 597	9.5	3	UPS/HON
24 x 24	597 x 597	9.5	3	UPS/HON
24 x 36	597 x 897	10.5	3	UPS/HON

All field tile is rectified
Crossville recommends a minimum 3mm grout joint.

Mosaics — Available in all colors

Nominal (in)	Actual (mm)	Thickness (mm)	Grout Joint (mm)	Finish
Mixed Mosaic*	297 x 297	9.5	3	UPS

*Mounted on 297 x 297 sheet

Coordinating Trim

Nominal (in)	Actual (mm)	Thickness (mm)	Grout Joint (mm)	Finish
6 x 12 Cove Base	150 x 297	9.5	3	UPS
4 x 12 Single Bullnose	97 x 297	9.5	3	UPS/HON**

** HON finish is special order only.

4 x 12 Single Bullnose
(available in all colors)

6 x 12 Cove Base
(Universal, flat top)

Product Performance

Breaking Strength	>450 lbf	ASTM C648
Bond Strength	>200 psi	ASTM C482
Chemical Resistance	Unaffected	ASTM C650
Frost Resistance	Resistant	ASTM C1026
Water Absorption	<0.50%	ASTM C373
Scratch Hardness	7	Mohs Scale

Wet Dynamic Coefficient of Friction Range

UPS	0.50 - 0.60	ANSI A326.3
HON	0.42 - 0.52	ANSI A326.3

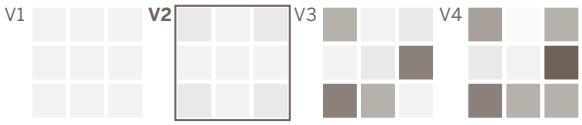
Get Planked!

Our Porcelain Stone® products are available in popular plank shapes with no minimum order and quick fulfillment.

See website for more details and sizes.

Shade & Texture Index

Notorious has a shade variation of V2.



This porcelain tile product is produced with a V2 variation. Expect that the amount of color and texture on each piece may vary slightly. Inspect the product upon delivery and for best results, blend tile from several cartons during installation.

Application Areas

Finish	Interior Floors (dry)	Interior Walls (wet/dry)	Exterior Walls	Interior Floors (Standing water/ shower floors)	Exterior/Paving	Pool/Fountain Full Lining**	Water Line Pool/ Fountains
UPS	✓	✓	✓	Mosaics Only*		✓	✓
HON	✓	✓	✓			✓	✓

* 4" or less in both length and width, UPS or UP mosaics

** Excludes mesh mounted mosaics. Crossville recommends face mounted or edge mounted mosaics for fully submerged applications. Contact your Crossville sales representative for more information.

NOTE: Trim applications will differ from field tile applications for the same series.

For more information on ANSI- A362.3 visit our website at https://www.crossvilleinc.com/Resources/Tile-101/DCOF?tab=1

CROSSVILLE®

Crossville, Inc. • P.O. Box 1168, Crossville, TN 38557 • Phone: 931.484.2110 • Fax: 931.456.2956 • E-Mail: Crossc@CrossvilleInc.com • CrossvilleInc.com

Notorious

Crossville, Inc.
PO Box 1168
Crossville, TN
38557

Phone 931.484.2110
Fax 931.456.2956
E-Mail Crossc@CrossvilleInc.com
Web CrossvilleInc.com

Recommended Use

Notorious is recommended for interior floors, interior walls, countertops, exterior walls, pool waterlines and full linings† in both residential and commercial applications. Notorious is not recommended for exterior horizontal surfaces or exterior paving. See CrossvilleInc.com for detailed installation instructions.

† Excludes mesh mounted mosaics.

Care and Maintenance

Regular cleaning is the best way to keep Notorious tile looking good for years to come. Use clean, hot water (combined with a household cleaner for more aggressive cleaning). Rinse thoroughly and dry with a soft cloth. No waxes are needed. More Information regarding the care and maintenance of Crossville® products is available at CrossvilleInc.com.

Crossville® Sample Express

Visit the website to learn more:
CrossvilleInc.com/Products/Notorious

Loose Tile Samples
Sizes may vary depending on product series
Max. of 4 large field tile per order

Standard Shipping
FedEX Ground

NTR05 ▸ Leading Man 24 x 36 UPS on floor
Laminam by Crossville ▸ Calce Grigio on bar

National Accounts

For over 20 years we have been offering Porcelain tile to commercial customers at National Accounts pricing programs with special discounts. The National Accounts department provides materials forecasting, sales support and samples.

CrossvilleInc.com

If you want a better idea of what Crossville tile would look like in a particular room setting, simply visit our website and click on Cross-Vision. This powerful software tool allows you to visualize different types of Crossville tile. In addition, you'll find comprehensive information about Crossville's entire portfolio of products. You can also learn about the latest styles and trends from industry experts, download detailed care and maintenance instructions for our various products, or browse electronic versions of Crossville's product brochures. So whether you need information about Crossville products or tile in general, please visit us at CrossvilleInc.com.

Our Warranty

Crossville Inc. guarantees that its products will meet or exceed the performance specifications outlined in ANSI A137.1-2022 and in the performance data section of the Crossville, Inc. general product catalog. For complete details check our website at CrossvilleInc.com.

Trade Organizations

Environmentally Aware

Native Metal

Porcelain Stone®

CROSSVILLE®

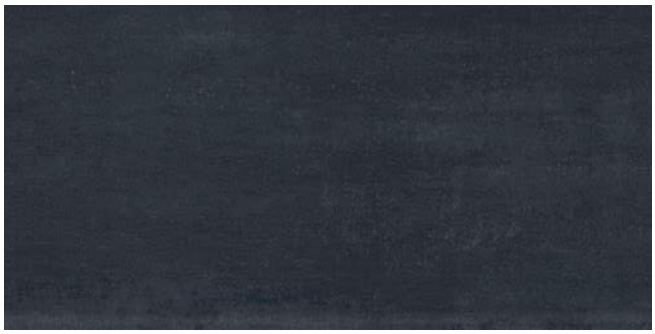
Available Colors

NVM01 ▸ Noble Platinum

NVM02 ▸ Nickel Plate

NVM03 ▸ Crucible Steel

NVM04 ▸ Copper Deposit



NVM05 ▸ Cobalt Ore

NVM06 ▸ Graphite Black

Features and Benefits

- Native Metals captures the eternal luxury of patinaed minerals and ores in a refreshingly unique porcelain and resin tile line.
- Unpolished Rectified field tile sizes: 12"x 24", 24"x 24" and 24"x 48"
- 2"x2" and mixed hex mosaic with 2"x 12" metallic deco.
- Complete your installations with 4"x 24" bullnose or 6"x 12" cove base
- Cross-Sheen® for easy cleaning
- Made in the USA and Green Square℠ Certified

CO_2 NEUTRAL

Porcelain tiles only.

Crossville, Inc. • P.O. Box 1168, Crossville, TN 38557 • Phone: 931.484.2110 • Fax: 931.456.2956 • E-Mail: Crossc@CrossvilleInc.com • CrossvilleInc.com

Native Metal

Porcelain Stone®

CROSSVILLE®

Available Mosaics

NVM01.10202MOS
Noble Platinum
2 x 2 Mosaic

NVM02.10202MOS
Nickel Plate
2 x 2 Mosaic

NVM03.10202MOS
Crucible Steel
2 x 2 Mosaic

NVM04.10202MOS
Copper Deposit
2 x 2 Mosaic

NVM05.10202MOS
Cobalt Ore
2 x 2 Mosaic

NVM06.10202MOS
Graphite Black
2 x 2 Mosaic

NVM01.1HEXGMOS
Noble Platinum
with Gold
Mixed Hex Mosaic

NVM01.1HEXIMOS
Noble Platinum
with Iron
Mixed Hex Mosaic

NVM02.1HEXIMOS
Nickel Plate
with Iron
Mixed Hex Mosaic

NVM03.1HEXIMOS
Crucible Steel
with Iron
Mixed Hex Mosaic

NVM04.1HEXGMOS
Copper Deposit
with Gold
Mixed Hex Mosaic

NVM04.1HEXIMOS
Copper Deposit
with Iron
Mixed Hex Mosaic

NVM05.1HEXIMOS
Cobalt Ore
with Iron
Mixed Hex Mosaic

NVM06.1HEXIMOS
Graphite Black
with Iron
Mixed Hex Mosaic

Available Metallic Decos

NVMCG.10212PER
Champagne Gold
2 x 12 Perforated Deco

NVMWI.10212PER
White Iron
2 x 12 Perforated Deco

NVMRB.10212PER
Rubbed Bronze
2 x 12 Perforated Deco

NVMCG.10212MOL
Champagne Gold
2 x 12 Molten Deco

NVMWI.10212MOL
White Iron
2 x 12 Molten Deco

NVMRB.10212MOL
Rubbed Bronze
2 x 12 Molten Deco

Detail of the
Champagne Gold
2 x 12 Perforated Deco

Detail of the
Champagne Gold
2 x 12 Molten Deco

Native Metal

Porcelain Stone®

Sizes (*Available in all colors*)

2 x 2 Square Mosaic
(Mounted on a 298 x 298 mm sheet)

Mixed Hex Mosaic†
(Mounted on a 259 x 270 mm sheet)

2 x 12 Perforated Deco

2 x 12 Molten Deco

Sizes & Finishes

Field Tile - Rectified

Available in all colors

Nominal (in)	Actual (mm)	Thickness (mm)	Grout Joint (mm)	Finish
12 x 24	297 x 597	9.5	3	UPS
24 x 24	597 x 597	9.5	3	UPS
24 x 48	597 x 1197	10.5	3	UPS

Note: Field tile is rectified with a 3mm grout joint

Deco

Nominal (in)	Sheet Size (mm)	Thickness (mm)	Grout Joint (mm)	Finish
2 x 12 Metalic Deco	47 x 297	9.5	3	SAT

Mosaics

Available in all colors

Nominal (in)	Sheet Size (mm)	Thickness (mm)	Grout Joint (mm)	Finish
2 x 2 Mosaic*	298 x 298	9.5	3	UPS
Mixed Hex Mosaic	259 x 270	9.5	2	UPS

*Mounted on 298mm x 298mm sheet with 3mm grout joints (Coverage area 0.9752 sf)
**Mounted on 259mm x 270 sheet with 2mm grout joints (Coverage area 0.61 sf)

Coordinating Trim

Nominal (in)	Actual (mm)	Thickness (mm)	Grout Joint (mm)	Finish
4 x 24 Single Bullnose	96 x 597	9.5	3	UPS
6 x 12 Cove Base	150 x 297	9.5	3	UPS

4 x 24 Single Bullnose

6 x 12 Cove Base

Product Performance

Breaking Strength	≥450 lbf	ASTM C648
Bond Strength	>200 psi	ASTM C482
Chemical Resistance	Unaffected	ASTM C650
Frost Resistance	Resistant	ASTM C1026
Water Absorption	<0.50%	ASTM C373
Scratch Hardness	7	Mohs Scale

Wet Dynamic Coefficient of Friction Range

UPS	0.50 - 0.60	ANSI A326.3

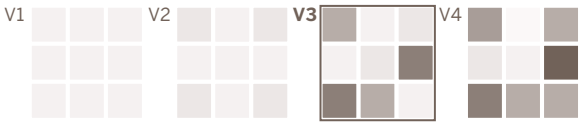
Get Planked!

Our Porcelain Stone® products are available in popular plank shapes with no minimum order and quick fulfillment.

See website for more details and sizes.

Shade & Texture Index

Native Metal has a shade variation of V3.



V1 Uniform appearance
V2 Slight Variation
V3 Moderate Variation
V4 Substantial Variation

This porcelain tile product is produced with a V3 variation. While the colors and/or textures present on a single piece of tile will be indicative of the colors and/or textures to be expected on the other tiles, the amount of colors and/or texture on each piece may vary significantly. It is recommended that the range be viewed before selection.

CROSSVILLE®

Crossville, Inc. • P.O. Box 1168, Crossville, TN 38557 • Phone: 931.484.2110 • Fax: 931.456.2956 • E-Mail: Crossc@CrossvilleInc.com • CrossvilleInc.com

Native Metal

Crossville, Inc.
PO Box 1168
Crossville, TN
38557

Phone 931.484.2110
Fax 931.456.2956
E-Mail Crossc@CrossvilleInc.com
Web CrossvilleInc.com

Application Areas

Finish	Interior Floors (dry)	Interior Walls (wet/dry)	Exterior Walls	Interior Floors (Standing water/ shower floors)	Exterior/Paving	Pool/Fountain Full Lining**	Water Line Pool/ Fountains
UPS	✓	✓*	✓			✓	✓

* The 2 x 12 mosaic can be used in linear drain shower pans as long as the 12 inch side runs parallel to the drain.

** Excludes mesh mounted mosaics. Crossville recommends face mounted or edge mounted mosaics for fully submerged applications. Contact your Crossville sales representative for more information.

NOTE: Trim applications will differ from field tile applications for the same series.

For more information on ANSI- A362.3 visit our website at https://www.crossvilleinc.com/Resources/Tile-101/DCOF?tab=1

Recommended Use

Native Metal is recommended for interior floors, interior walls, countertops, exterior walls, pool waterlines and full linings† in both residential and commercial applications. Native Metal is not recommended for exterior horizontal surfaces or exterior paving. The Mixed Hex Mosaics and the 2 x 12 Deco pieces are to be used on interior walls only. See CrossvilleInc.com for detailed installation instructions.

† *Excludes mesh mounted mosaics.*

Wet area use for Native Metal Mosaics

Crossville® produces the Native Metal 2 x 2 mosaics with the Cross-Sheen (UPS) finish. The ANSI A326.3 wet Dynamic COF of Native Metal is ≥0.42. Their small sizes ensure frequent grout joints which provides traction and drainage. Crossville cannot control situations involving incorrect installation, improper slope to the drain for elimination of standing water and poor surface cleaning.
This information is provided so that customers may make a realistic and informed decision when comparing Native Metal to other tile products in wet area environments, such as residential/commercial bathrooms, showers, and interior pool decks.

Care and Maintenance

Regular cleaning is the best way to keep Native Metal tile looking good for years to come. Use clean, hot water (combined with a household cleaner for more aggressive cleaning). Rinse thoroughly and dry with a soft cloth. No waxes are needed. More information regarding the care and maintenance of Crossville® products is available at CrossvilleInc.com.

Our Warranty

Crossville Inc. guarantees that its products will meet or exceed the performance specifications outlined in ANSI A137.1 and in the performance data section of the Crossville, Inc. general product catalog. For complete details check our website at CrossvilleInc.com.

Information listed here is subject to change. Please refer to CrossvilleInc.com for the latest, most accurate information.

Crossville® Sample Express

Visit the website to learn more:
CrossvilleInc.com/Products/Native-Metal

Loose Tile Samples
Sizes may vary depending on product series
Max. of 4 large field tile per order

Standard Shipping
FedEx Ground

CrossvilleInc.com

If you want a better idea of what Crossville tile would look like in a particular room setting, simply visit our website and click on Cross-Vision. This powerful software tool allows you to visualize different types of Crossville tile. In addition, you'll find comprehensive information about Crossville's entire portfolio of products. You can also learn about the latest styles and trends from industry experts, download detailed care and maintenance instructions for our various products, or browse electronic versions of Crossville's product brochures. So whether you need information about Crossville products or tile in general, please visit us at CrossvilleInc.com. Information listed here is subject to change.

Trade Organizations

Environmentally Aware

FS-NVM-23
REV 12-23

Portugal

Porcelain Stone®

Available Colors

COOL | **WARM**

LIGHT

PTG01 ▸ Velho White

PTG02 ▸ Grand Rosé

MID

PTG03 ▸ Venho Verde

PTG04 ▸ Tinta Negra

DARK

PTG05 ▸ Harvest Tawny

PTG06 ▸ Madeira Reserve

Features and Benefits

- Inspired by Portuguese Atlantic Dark limestone
- The six hues in Portugal's color palette are a mix of warm and cool neutrals designed to coordinate with some of our best-selling collections
- This line comes in interior and exterior finishes, for installations that flow from indoors to out.
- Interior unpolished field tiles range 24"x48" to 6"x24"
- The textured exterior sizes, designed to an average minimum 0.60 DCOF and R11 classified, come in 12"x24" and 24"x24".
- The line's distinct triangular mosaic opens many design possibilities for floors and walls along with a 2"x2" mosaic.
- Complete your installations with 4 x 24 bullnose or 6 x 12 cove base

CROSSVILLE®

Crossville, Inc. • P.O. Box 1168, Crossville, TN 38557 • Phone: 931.484.2110 • Fax: 931.456.2956 • E-Mail: Crossc@CrossvilleInc.com • CrossvilleInc.com

Portugal

Porcelain Stone®

Portugal 2 x 2 and Crossville Mosaics

PTG01.10202UMOS
Velho White (Cool Light)
2 x 2 Mosaic

PTG03.10202UMOS
Venho Verde (Cool Mid)
2 x 2 Mosaic

PTG05.10202UMOS
Harvest Tawny (Cool Dark)
2 x 2 Mosaic

PTG01.1CRSUMOS
Velho White (Cool Light)
Crossville Mosaic†

PTG03.1CRSUMOS
Venho Verde (Cool Mid)
Crossville Mosaic†

PTG05.1CRSUMOS
Harvest Tawny (Cool Dark)
Crossville Mosaic†

PTG02.10202UMOS
Grand Rosé (Warm Light)
2 x 2 Mosaic

PTG04.10202UMOS
Tinta Negra (Warm Mid)
2 x 2 Mosaic

PTG06.10202UMOS
Madeira Reserve (Warm Dark)
2 x 2 Mosaic

PTG02.1CRSUMOS
Grand Rosé (Warm Light)
Crossville Mosaic†

PTG04.1CRSUMOS
Tinta Negra (Warm Mid)
Crossville Mosaic†

PTG06.1CRSUMOS
Madeira Reserve (Warm Dark)
Crossville Mosaic†

† Due to this mosaic's design, caution should be used when installing on surfaces that might contact bare skin or other delicate materials. To prevent possible injury or damage from sharp corners that might be exposed above the grout line, install per ANSI 108 guidelines in order to minimize or prevent lippage.

CROSSVILLE®

Crossville, Inc. • P.O. Box 1168, Crossville, TN 38557 • Phone: 931.484.2110 • Fax: 931.456.2956 • E-Mail: Crossc@CrossvilleInc.com • CrossvilleInc.com

Portugal

Porcelain Stone®

CROSSVILLE®

Sizes *(Shown in PTG04 Tinta Negra)*

Crossville Mosaic†

(Mounted on a 217 x 372 mm sheet)

2 x 2 Mosaic

(Mounted on a 298 x 298 mm sheet)

† Due to this mosaic's design, caution should be used when installing on surfaces that might contact bare skin or other delicate materials. To prevent possible injury or damage from sharp corners that might be exposed above the grout line, install per ANSI 108 guidelines in order to minimize or prevent lippage.

Sizes & Finishes

Field Tile - Rectified

Available in all colors

Nominal (in)	Actual (mm)	Thickness (mm)	Grout Joint (mm)	Finish
6 x 24	147 x 597	9.5	3	UPS
12 x 24	297 x 597	9.5	3	UPS/EXT
24 x 24	597 x 597	9.5	3	UPS/EXT
24 x 48	597 x 1197	10.5	3	UPS

Crossville recommends a grout joint of 3mm.
Actual measurements stated in inches indicate tile is calibrated (non-rectified).
Actual measurements stated in mm indicate tile is rectified.

Mosaics

Available in all colors

Nominal (in)	Actual Size (mm)	Thickness (mm)	Grout Joint (mm)	Finish
2 x 2 Mosaic*	298 x 298	9.5	3	UPS
Crossville Mosaic***	217 x 372	9.5	2	UPS

** Mounted on 298mm x 298mm sheet with 3mm grout joints (Coverage area 0.9752 sf)
*** Mounted on 217mm x 372mm sheet with 2mm grout joints (Coverage area 0.5780 sf)
† Due to this mosaic's design, caution should be used when installing on surfaces that might contact bare skin or other delicate materials. To prevent possible injury or damage from sharp corners that might be exposed above the grout line, install per ANSI 108 guidelines in order to minimize or prevent lippage.

Coordinating Trim

Available in all colors

Nominal (in)	Actual (mm)	Thickness (mm)	Grout Joint (mm)	Finish
6 x 12 Cove Base	150 x 297	9.5	3	UPS
4 x 24 Single Bullnose	96 x 597	9.5	3	UPS

6 x 12
Cove Base

4 x 24 Bullnose

Product Performance

Breaking Strength	>450 lbf	ASTM C648
Bond Strength	>200 psi	ASTM C482
Chemical Resistance	Unaffected	ASTM C650
Frost Resistance	Resistant	ASTM C1026
Water Absorption	<0.50%	ASTM C373
Scratch Hardness	7	Mohs Scale

Wet Dynamic Coefficient of Friction Range

UPS	0.50 - 0.60	ANSI A326.3
EXT (Textured)	0.60 - 0.70	ANSI A326.3

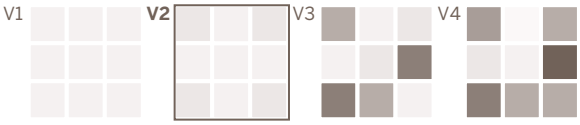
Get Planked!

Our Porcelain Stone® products are available in popular plank shapes with no minimum order and quick fulfillment.

See website for more details and sizes.

Shade & Texture Index

Portugal has a shade variation of V2.



V1 Uniform appearance
V2 Slight Variation
V3 Moderate Variation
V4 Substantial Variation

This porcelain tile product is produced with a V2 variation. Expect that the amount of color and texture on each piece may vary slightly. Inspect the product upon delivery and for best results, blend tile from several cartons during installation.

Application Areas

Finish	Interior Floors (dry)	Interior Walls (wet/dry)	Exterior Walls	Interior Floors (Standing water/ shower floors)	Exterior/Paving	Pool/Fountain Full Lining**	Water Line Pool/ Fountains
UPS	✓	✓	✓	Mosaics Only*		✓	✓
EXT	✓	✓	✓		✓	✓	✓

** Excludes mesh mounted mosaics. Crossville recommends face mounted or edge mounted mosaics for fully submerged applications. Contact your Crossville sales representative for more information.

NOTE: Trim applications will differ from field tile applications for the same series.

For more information on ANSI- A362.3 visit our website at https://www.crossvilleinc.com/Resources/Tile-101/DCOF?tab=1

Portugal

Crossville, Inc.
PO Box 1168
Crossville, TN
38557

Phone 931.484.2110
Fax 931.456.2956
E-Mail Crossc@CrossvilleInc.com
Web CrossvilleInc.com

Recommended Use

Portugal UPS is recommended for interior floors, interior walls, countertops, exterior walls, pool waterlines and full linings† in both residential and commercial applications. Portugal UPS is not recommended for exterior horizontal surfaces or exterior paving. Portugal EXT is recommended for exterior floors and walls in both residential and commercial applications. See CrossvilleInc.com for detailed installation instructions.

† Excludes mesh mounted mosaics.

Care and Maintenance

Regular cleaning is the best way to keep Portugal tile looking good for years to come. Use clean, hot water (combined with a household cleaner for more aggressive cleaning). Rinse thoroughly and dry with a soft cloth to prevent water spots. No waxes or sealers are needed. More information regarding the care and maintenance of Crossville products is available at CrossvilleInc.com.

Wet area use for Portugal Mosaics

Crossville® produces the Portugal 2 x 2 and Crossville mosaics with the Cross-Sheen® (UPS) finish. The ANSI A326.3 wet Dynamic COF of Portugal is ≥0.42. Their small sizes ensure frequent grout joints which provides traction and drainage.Crossville cannot control situations involving incorrect installation, improper slope to the drain for elimination of standing water and poor surface cleaning.

This information is provided so that customers may make a realistic and informed decision when comparing Portugal to other tile products in wet area environments, such as residential/commercial bathrooms, showers, and interior pool decks.

Crossville® Sample Express

Visit the website to learn more:
CrossvilleInc.com/Products/Portugal

Loose Tile Samples
Sizes may vary depending on product series
Max. of 4 large field tile per order

Standard Shipping
FedEX Ground

National Accounts

For over 20 years we have been offering Porcelain tile to commercial customers at National Accounts pricing programs with special discounts. The National Accounts department provides materials forecasting, sales support and samples.

CrossvilleInc.com

If you want a better idea of what Crossville tile would look like in a particular room setting, simply visit our website and click on Cross-Vision. This powerful software tool allows you to visualize different types of Crossville tile. In addition, you'll find comprehensive information about Crossville's entire portfolio of products. You can also learn about the latest styles and trends from industry experts, download detailed care and maintenance instructions for our various products, or browse electronic versions of Crossville's product brochures. So whether you need information about Crossville products or tile in general, please visit us at CrossvilleInc.com.

Our Warranty

Crossville Inc. guarantees that its products will meet or exceed the performance specifications outlined in ANSI A137.1-2022 and in the performance data section of the Crossville, Inc. general product catalog. For complete details check our website at CrossvilleInc.com.

Pool Deck:
PTG04 ▸ Tinta Negra 12 x 24 EXT

Trade Organizations

Member of TCNA

Environmentally Aware

USGBC MEMBER

GREEN SQUARED CERTIFIED

RF-PTG-22
REV 12-23

| Suggested Specifications | Section 10 26 00
CS Acrovyn® Model HRWS-6C Series

Part 1 - General

1.01 Summary

A. This section includes the following types of wall protection systems:
  1. Handrails

B. Related Sections: The following sections contain requirements related to this section:
  1. Corner Guards, Bumper Guards, Crash Rails, Accent Rails, Wall Covering, Wall Panels, Door Protection; refer to section 10 26 00 “Wall and Door Protection”
  2. Blocking in walls for fasteners; refer to section 09 22 00 “Supports for Plaster and Gypsum Board”

1.02 References

A. National codes (IBC, UBC, SBCCI, BOCA, Life Safety, OSHA, OSHPD and ADA)
B. American Society for Testing and Materials (ASTM)
C. California 01350 specification

1.03 Submittals

General: Submit the following in accordance with conditions of contract and Division 1 specification section 01 33 00 “Submittal Procedures”:

A. Product data and detailed specifications for each system component and installation accessory required, including installation methods for each type of substrate.
B. Shop drawings showing locations, extent, and installation details of handrails. Show methods of attachment to adjoining construction.
C. Samples for verification purposes: Submit the following samples, as proposed for this work, for verification of color, finish and end cap attachment and alignment:
  1. 12" (304.8mm) long sample of each model specified including end cap.
D. Product test reports from a qualified independent testing laboratory showing compliance of each component with requirements indicated.
E. Maintenance data for wall protection system components for inclusion in the operating and maintenance manuals specified in Division 1.

1.04 Quality Assurance

A. Installer qualifications: Engage an installer who has no less than 3 years’ experience in installation of systems similar in complexity to those required for this project.
B. Manufacturer’s qualifications: Not less than 5 years’ experience in the production of specified products and a record of successful in-service performance.
C. Code compliance: Assemblies should conform to all applicable codes including IBC, UBC, SBCCI, BOCA, Life Safety, OSHA, OSHPD, ADA and CA 01350.
D. Fire performance characteristics: Provide wood components tested in accordance with ASTM E84 for Class A/1 fire characteristics.
E. Single source responsibility: Provide all components of the wall protection system

© Copyright 2020 Construction Specialties, Inc.

manufactured by the same company to ensure compatibility of color, texture and physical properties.

1.05 Delivery, Storage and Handling

A. Deliver materials to the project site in unopened original factory packaging clearly labeled to show manufacturer.

B. Store materials in original, undamaged packaging in a cool, dry place out of direct sunlight and exposure to the elements. A minimum room temperature of 40°F (4°C) and a maximum of 100°F (38°C) should be maintained.

C. Material must be stored flat.

1.06 Project Conditions

A. Materials must be acclimated in an environment of 65°-75°F (18°-24°C) for at least 24 hours prior to beginning the installation.

B. Installation areas must be enclosed and weatherproofed before installation commences.

1.07 Warranty

A. Acrovyn 5-year Limited Warranty

☐ Applies to Interior Wall Protection orders that do not include recommended components or accessories

- Assemblies = Brackets, Hardware
- Accessories = Primer, Adhesive, Caulk, Trims & Moldings

B. Limited Lifetime Systems Warranty

☐ Applies to CS Interior Wall Protection projects that include all recommended components and accessories related to CS Interior Wall Protection Products.

- Assemblies = Brackets, Hardware
- Accessories = Primer, Adhesive, Caulk, Trims & Moldings

Part 2 - Products

2.01 Manufacturers

A. Interior surface protection products specified herein and included on the submittal drawings shall be manufactured by Construction Specialties, Inc., 3 Werner Way, Lebanon, NJ 08833 USA 800-233-8493; email: cet@c-sgroup.com

B. Drawings and specifications are based on manufacturer's literature from Construction Specialties, Inc. drawings and specifications unless otherwise indicated. Other manufacturers must be approved equal by Architect/Owner.

2.02 Materials

A. Solid Wood Components: Shall be manufactured from plain sawn, FAS grade hardwood, kiln dried to a moisture content of 6% to 10%.

A. Stainless Steel Components: shall be fabricated from type 304 stainless steel with a #4 satin finish. Minimum strength and durability properties as specified in ASTM A276.

B. Fasteners: All necessary fasteners to be supplied by the manufacturer.

2.03 Handrails

© Copyright 2020 Construction Specialties, Inc. | SG.HRWS6C.0720 | 2

A. Handrails to be CS Acrovyn: Surface mounted assembly consisting of wood handrail furnished in random lengths for field cutting or cut-to-size with ends and brackets installed in field. Attachment hardware shall be appropriate for wall construction.

1. **Model HRWS-6C A 5 1/4" (133.8mm) high single line solid wood handrail assembly with stainless steel end caps and brackets. Select from Renaissance™ Wood species and finishes. Custom woods and finishes available. Optional stainless steel inside and outside corners and 3" (76.2mm) splices available. Specify HRWS-6CW for wood end caps. Specify HRWS-6CLB for stainless steel L brackets. Specify HRWS-6CLBW for wood end caps and stainless-steel L brackets. Specify HRWS-6CS for stainless steel insert. Specify HRWS-6CSW for wood end caps and stainless-steel insert. Specify HRWS-6CSLB for stainless steel insert and L brackets. Specify HRWS-6CSLBW for wood end caps, stainless insert, and L brackets. Optional powder coat finish available for stainless steel end caps, corners, splices, and L brackets; select from standard powder coat finishes.**

2.04 Finishes

A. All wood components shall be factory finished. Wood components to be final coated with water based, high solids, clear lacquer using a two-coat process. Finish shall be in accordance with specified AWI finish system. Coverage shall be a minimum of 3-5 mils. Gloss shall be measured on 60° gloss meter as per ASTM D523.

B. General: Comply with NAAMM "Metal Finishes Manual" for recommendations relative to applications and designations of finishes.

2.05 Fabrication

A. General: Fabricate wall protection systems to comply with requirements indicated for design, dimensions, detail, finish, and member sizes.

B. Preassemble components in shop as much as possible to minimize field assembly.

C. Fabricate components with wood joints lightly chamfered. Provide surfaces free of chipping, dents, and other imperfections.

Part 3 - Execution

3.01 Examination

A. Verification of conditions: Examine areas and conditions under which work is to be performed and identify conditions detrimental to proper or timely completion.

1. Do not proceed until unsatisfactory conditions have been corrected.

3.02 Preparation

A. Surface preparation: Prior to installation, clean substrate to remove dirt, debris, and loose particles. Perform additional preparation procedures as required by manufacturer's instructions.

B. Protection: Take all necessary steps to prevent damage to material during installation as required in manufacturer’s installation instructions.

© Copyright 2020 Construction Specialties, Inc.

3.03 Installation

A. Install the work of this section in strict accordance with the manufacturer's recommendations using only approved mounting hardware and locating all components firmly into position, level and plumb.

B. Temperature at the time of installation must be between 65°-75°F (18°-24°C) and be maintained for at least 48 hours after the installation.

3.04 Cleaning

A. General: Immediately upon completion of installation, clean rails, and accessories in accordance with manufacturer’s recommended cleaning method.

B. Remove surplus materials, rubbish and debris resulting from installation as work progresses and upon completion of work.

3.05 Protection

A. Protect installed materials to prevent damage by other trades. Use materials that may be easily removed without leaving residue or permanent stains.

© Copyright 2020 Construction Specialties, Inc. | SG.HRWS6C.0720 | 4

MATERIAL SPECIFICATION GUIDE

DESCRIPTION

Select from more than 250 standard Lumicor decors from our product families: Textiles, Naturals, Prints, Woven Colors, Impressions, Luminous, Recycled Glass, and Metallics, or create your own custom Lumicor by combining décors to add color, texture and depth to your design. Lumicor can even incorporate Customer Owned Materials (C.O.M.). We would love to help make your design concept a reality! Contact us at 1-888-LUMICOR or start a quote request to get started.

SHEET THICKNESS

Lumicor is available from 0.050" (1.27mm) through 0.944" (24mm) with a standard tolerance of +/- 10% of nominal.

Tolerance varies by décor.

GAUGE EQUIVALENTS

NOMINAL DECIMAL (IN)	FRACTION EQUIVALENT	METRIC (MM)
.050	1/20"	1.27
.060	1/16"	1.5
.118	1/8"	3.0
.160	5/32"	4
.196	3/16"	5
.236	1/4"	6
.354	3/8"	9
.472	1/2"	12
.708	3/4"	18
.944	1"	24

Actual dimensions may vary by décor, and some décors are not available in all gauges or oversize sheets.

SHEET DIMENSIONS

Lumicor is offered in standard 4' × 8' sheet sizes. Custom lengths and widths are also available. Sheets may be cut to order upon request for an additional fee.

	feet	inches	millimeters
Standard	4 × 8	48 × 96	1219 × 2438
Oversize	4 × 10	48 × 120	1219 × 3048

Actual dimensions may vary by décor, and some décors are not available in oversize sheets.

FINISHES

Lumicor products are available in a wide variety of surface finishes to provide different aesthetics. You can even specify different finishes for each side of the sheet. Lumicor's heavier finishes (e.g. frost, sandstone and satin) provide better protection against minor surface scratches.

Consult the fabrication guide on www.lumicor.com or contact us for more details.

STANDARD FINISHES

Brushed	Diffusion	Frost	Gloss	Matte
Moiré	Sandstone	Satin	Stucco	

Not all finishes are available with all products.

RESIN

Lumicor is manufactured using several high performance engineering resins, including acrylic, polycarbonate, and PETG. The resin used will depend on the performance requirements of your project.

RESIN	DESCRIPTION
Lumiclear (Acrylic)	Outstanding clarity, resistance to UV degradation, greater rigidity, and renewable surface.
Lumiform (PETG)	Superior impact resistance, better flammability rating, and greater flexibility.
Lumishield EX (Polycarb)	High impact strength, UV resistance and flammability performance necessary for exterior applications.

Not all finishes are available with all products.

PROTECTIVE FINISH OPTIONS

ChemShield is a high performance clear film that can be applied to one or both sides of Lumiclear products. With Chemshield applied, Lumicor products can be used in environments requiring superior stain and chemical resistance. ChemShield is available in all Lumicor finishes, but cannot be renewed if damaged.

© Copyright Lumicor 2018 – All Rights Reserved. For more information, visit **www.lumicor.com** or call **1.888.LUMICOR** (888.586.4267)

WEIGHT

LUMICLEAR		1/16"	1/8"	5/32"	3/16"	1/4"
Thickness	in	0.060	0.118	0.160	0.196	0.236
	mm	1.5	3.0	4.1	5.0	6.0
48" × 96"	lbs	11.9	23.4	31.7	38.8	46.8
1219 × 2438mm	kg	5.4	10.6	14.4	17.6	21.2
48" × 120"	lbs	14.8	29.2	39.6	48.5	58.4
1219 × 3048mm	kg	6.7	13.3	18.0	22.0	26.5
LUMICLEAR		3/8"	1/2"	3/4"	1"	
Thickness	in	0.354	0.472	0.708	0.944	
	mm	9.0	12.0	18.0	24.0	
48" × 96"	lbs	70.1	93.5	140.3	187.0	
1219 × 2438mm	kg	31.8	42.4	63.6	84.8	
48" × 120"	lbs	87.7	116.9	175.3	233.8	
1219 × 3048mm	kg	39.8	53.0	79.5	106.0	
LUMIFORM		3/64"	1/16"	1/8"	3/16"	1/4"
Thickness	in	0.050	0.060	0.118	0.196	0.236
	mm	1.27	1.5	3.0	5.0	6.0
48" × 96"	lbs	9.5	12.7	24.9	41.4	49.9
1219 × 2438mm	kg	4.3	5.8	11.3	18.8	22.6
48" × 120"	lbs	11.9	15.8	31.2	51.8	62.4
1219 × 3048mm	kg	5.4	7.2	14.1	23.5	28.3
LUMIFORM		3/8"	1/2"			
Thickness	in	0.354	0.472			
	mm	9.0	12.0			
48" × 96"	lbs	74.8	99.8			
1219 × 2438mm	kg	33.9	45.2			
48" × 120"	lbs	93.6	124.7			
1219 × 3048mm	kg	42.4	56.6			
LUMISHIELD EX		1/8"	1/4"	1/2"		
Thickness	in	0.118	0.236	0.472		
	mm	3.0	6.0	12.0		
48" × 96"	lbs	23.55	47.1	94.3		
1219 × 2438mm	kg	10.7	21.4	42.8		

All weights are estimated; actual weights will vary depending on décor.
For Recycled Glass adds 50 lbs (48" x 96") or 65 lbs (48" x 120").

EXPANSION / CONTRACTION

Lumicor products will expand and contract nominally with changes in temperature. Please allow for expansion / contraction when installing fasteners, hardware, frame systems, or when edge butting sheets. The formula below can be used to calculate the appropriate allowance for the expansion and contraction of each kind of panel.

LUMICLEAR

Length, Width, or Thickness	x	Temperature Change	x	Coefficient of Thermal Expansion	=	Expansion Allowance
in	x	°F	x	.00004	=	in
mm	x	°C	x	.000072	=	mm

LUMIFORM

Length, Width, or Thickness	x	Temperature Change	x	Coefficient of Thermal Expansion	=	Expansion Allowance
in	x	°F	x	.00005	=	in
mm	x	°C	x	.00009	=	mm

LUMISHIELD EX

Length, Width, or Thickness	x	Temperature Change	x	Coefficient of Thermal Expansion	=	Expansion Allowance
in	x	°F	x	.000037	=	in
mm	x	°C	x	.000044	=	mm

Example:

A 48" × 96" Lumiform panel will be installed in an office building near the entrance. The coldest temperature of the panel in that location over the entire year is expected to be 50°F, and the warmest is expected to be 90°F. The temperature change will then be 40°F. The height would then change 0.192" from the coldest to the warmest temperature exposure, and the width would change 0.096".

DISCLAIMER

This data is based on information believed to be reliable. The information is offered in good faith, but without guarantee, as conditions and method of use are beyond the control of Lumicor, Inc. Lumicor, Inc. recommends that prospective users determine the suitability of Lumicor materials before purchasing. In no case is Lumicor, Inc. liable for direct, consequential, economic, or other damages. Lumicor, Inc. disclaims all other warranties, expressed or implied, including the warranty of merchantability and fitness for a particular purpose.

© Copyright Lumicor 2018 – All Rights Reserved. For more information, visit **www.lumicor.com** or call **1.888.LUMICOR** (888.586.4267)

MATERIAL SPECIFICATION GUIDE

DESCRIPTION

Select from more than 250 standard Lumicor decors from our product families: Textiles, Naturals, Prints, Woven Colors, Impressions, Luminous, Recycled Glass, and Metallics, or create your own custom Lumicor by combining décors to add color, texture and depth to your design. Lumicor can even incorporate Customer Owned Materials (C.O.M.). We would love to help make your design concept a reality! Contact us at 1-888-LUMICOR or start a quote request to get started.

SHEET THICKNESS

Lumicor is available from 0.050" (1.27mm) through 0.944" (24mm) with a standard tolerance of +/- 10% of nominal.

Tolerance varies by décor.

GAUGE EQUIVALENTS

NOMINAL DECIMAL (IN)	FRACTION EQUIVALENT	METRIC (MM)
.050	1/20"	1.27
.060	1/16"	1.5
.118	1/8"	3.0
.160	5/32"	4
.196	3/16"	5
.236	1/4"	6
.354	3/8"	9
.472	1/2"	12
.708	3/4"	18
.944	1"	24

Actual dimensions may vary by décor, and some décors are not available in all gauges or oversize sheets.

SHEET DIMENSIONS

Lumicor is offered in standard 4' × 8' sheet sizes. Custom lengths and widths are also available. Sheets may be cut to order upon request for an additional fee.

	feet	inches	millimeters
Standard	4 × 8	48 × 96	1219 × 2438
Oversize	4 × 10	48 × 120	1219 × 3048

Actual dimensions may vary by décor, and some décors are not available in oversize sheets.

FINISHES

Lumicor products are available in a wide variety of surface finishes to provide different aesthetics. You can even specify different finishes for each side of the sheet. Lumicor's heavier finishes (e.g. frost, sandstone and satin) provide better protection against minor surface scratches.

Consult the fabrication guide on www.lumicor.com or contact us for more details.

STANDARD FINISHES

Brushed	Diffusion	Frost	Gloss	Matte
Moiré	Sandstone	Satin	Stucco	

Not all finishes are available with all products.

RESIN

Lumicor is manufactured using several high performance engineering resins, including acrylic, polycarbonate, and PETG. The resin used will depend on the performance requirements of your project.

RESIN	DESCRIPTION
Lumiclear (Acrylic)	Outstanding clarity, resistance to UV degradation, greater rigidity, and renewable surface.
Lumiform (PETG)	Superior impact resistance, better flammability rating, and greater flexibility.
Lumishield EX (Polycarb)	High impact strength, UV resistance and flammability performance necessary for exterior applications.

Not all finishes are available with all products.

PROTECTIVE FINISH OPTIONS

ChemShield is a high performance clear film that can be applied to one or both sides of Lumiclear products. With Chemshield applied, Lumicor products can be used in environments requiring superior stain and chemical resistance. ChemShield is available in all Lumicor finishes, but cannot be renewed if damaged.

© Copyright Lumicor 2018 – All Rights Reserved. For more information, visit **www.lumicor.com** or call **1.888.LUMICOR** (888.586.4267)

WEIGHT

LUMICLEAR		1/16"	1/8"	5/32"	3/16"	1/4"
Thickness	in	0.060	0.118	0.160	0.196	0.236
	mm	1.5	3.0	4.1	5.0	6.0
48" × 96"	lbs	11.9	23.4	31.7	38.8	46.8
1219 × 2438mm	kg	5.4	10.6	14.4	17.6	21.2
48" × 120"	lbs	14.8	29.2	39.6	48.5	58.4
1219 × 3048mm	kg	6.7	13.3	18.0	22.0	26.5
LUMICLEAR		3/8"	1/2"	3/4"	1"	
Thickness	in	0.354	0.472	0.708	0.944	
	mm	9.0	12.0	18.0	24.0	
48" × 96"	lbs	70.1	93.5	140.3	187.0	
1219 × 2438mm	kg	31.8	42.4	63.6	84.8	
48" × 120"	lbs	87.7	116.9	175.3	233.8	
1219 × 3048mm	kg	39.8	53.0	79.5	106.0	
LUMIFORM		3/64"	1/16"	1/8"	3/16"	1/4"
Thickness	in	0.050	0.060	0.118	0.196	0.236
	mm	1.27	1.5	3.0	5.0	6.0
48" × 96"	lbs	9.5	12.7	24.9	41.4	49.9
1219 × 2438mm	kg	4.3	5.8	11.3	18.8	22.6
48" × 120"	lbs	11.9	15.8	31.2	51.8	62.4
1219 × 3048mm	kg	5.4	7.2	14.1	23.5	28.3
LUMIFORM		3/8"	1/2"			
Thickness	in	0.354	0.472			
	mm	9.0	12.0			
48" × 96"	lbs	74.8	99.8			
1219 × 2438mm	kg	33.9	45.2			
48" × 120"	lbs	93.6	124.7			
1219 × 3048mm	kg	42.4	56.6			
LUMISHIELD EX		1/8"	1/4"	1/2"		
Thickness	in	0.118	0.236	0.472		
	mm	3.0	6.0	12.0		
48" × 96"	lbs	23.55	47.1	94.3		
1219 × 2438mm	kg	10.7	21.4	42.8		

All weights are estimated; actual weights will vary depending on décor.
For Recycled Glass adds 50 lbs (48" x 96") or 65 lbs (48" x 120").

EXPANSION / CONTRACTION

Lumicor products will expand and contract nominally with changes in temperature. Please allow for expansion / contraction when installing fasteners, hardware, frame systems, or when edge butting sheets. The formula below can be used to calculate the appropriate allowance for the expansion and contraction of each kind of panel.

LUMICLEAR

Length, Width, or Thickness	x	Temperature Change	x	Coefficient of Thermal Expansion	=	Expansion Allowance
in	x	°F	x	.00004	=	in
mm	x	°C	x	.000072	=	mm

LUMIFORM

Length, Width, or Thickness	x	Temperature Change	x	Coefficient of Thermal Expansion	=	Expansion Allowance
in	x	°F	x	.00005	=	in
mm	x	°C	x	.00009	=	mm

LUMISHIELD EX

Length, Width, or Thickness	x	Temperature Change	x	Coefficient of Thermal Expansion	=	Expansion Allowance
in	x	°F	x	.000037	=	in
mm	x	°C	x	.000044	=	mm

Example:

A 48" × 96" Lumiform panel will be installed in an office building near the entrance. The coldest temperature of the panel in that location over the entire year is expected to be 50°F, and the warmest is expected to be 90°F. The temperature change will then be 40°F. The height would then change 0.192" from the coldest to the warmest temperature exposure, and the width would change 0.096".

DISCLAIMER

This data is based on information believed to be reliable. The information is offered in good faith, but without guarantee, as conditions and method of use are beyond the control of Lumicor, Inc. Lumicor, Inc. recommends that prospective users determine the suitability of Lumicor materials before purchasing. In no case is Lumicor, Inc. liable for direct, consequential, economic, or other damages. Lumicor, Inc. disclaims all other warranties, expressed or implied, including the warranty of merchantability and fitness for a particular purpose.

© Copyright Lumicor 2018 – All Rights Reserved. For more information, visit **www.lumicor.com** or call **1.888.LUMICOR** (888.586.4267)

| Suggested Specifications | Section 124813

CS Entrance Floor Mats and Frames: Pedimat® M1

Note: After downloading this spec, the Specifier must choose the correct finish, insert and frame options and delete all other options to produce an accurate specification.

Part 1 - General

1.01 Summary

A. This section includes the following types of entrance flooring systems:
  1. Floor Mats & Frame Assemblies

B. Related Sections: The following sections contain requirements related to this section:
  1. Grouting frames into recess; refer to sections 03300 “Cast-In-Place Concrete” and section 03600 “Grout”
  2. Special requirements of various flooring types; refer to section 09400 “Terrazzo”

1.02 References

A. American Society for Testing and Materials (ASTM)
B. The Aluminum Association
C. The Carpet and Rug Institute (CRI)
D. The National Floor Safety Institute (NFSI)
E. International Organization for Standardization (ISO)

1.03 Submittals

A. General: Submit the following in accordance with conditions of contract and Division 1 specification section 01300.
B. Product data for each type of floor mat and frame specified including manufacturer's specifications and installation instructions.
C. Shop drawings in sufficient detail showing layout of mat and frame specified including details indicating construction relative to materials, direction of traffic, spline locations, profiles, anchors and accessories.
D. Samples for verification purposes: Submit an assembled section of floor mat and frame members with selected tread insert showing each type of color for exposed floor mat, frame and accessories required.
  1. PediMat® M1 standard size 9” x 10” Mill Finish with Midnight color standard color
  2. PediMat® AA M2 standard size 9” x 10” Mill Finish with Midnight color standard color

E. Maintenance data in the form of manufacturer's printed instructions for cleaning and maintaining floor mats.

1.04 Quality Assurance

[Specifier note: To maximize the life cycle of the entrance flooring and its appearance, the following items are critical: i) Most CS mats are designed for traffic crossing perpendicular to the rail. ii) When designing an entranceway it is preferable to minimize the need for turning on the mat. iii) We recommend that splices in wider units (above 12') not be positioned in the middle of a door opening wherever possible.]

A. Flammability in accordance with ASTM E648, Class 1, Critical Radiant Flux, minimum 0.45 watts/m^2.
B. Slip resistance in accordance with ASTM D-2047-96, Coefficient of Friction, minimum 0.60 for accessible routes. *[Specifier note: Slip and fall accidents are a major concern in commercial entranceways. We recommend that approved systems be certified by the manufacturer as meeting a minimum coefficient of friction of 0.60, when tested in wet conditions.]*
C. Standard rolling load performance is 350 lb./wheel with larger loading requirements as specified (load applied to a solid 5” x 2” wide polyurethane wheel, 1000 passes without damage). *[Specifier note: For entranceways in businesses such as retail outlets, airports, banks, and casinos, rolling load performance is a critical factor. We recommend that units with the highest practical loading capability be specified for such entrances.]*

© Copyright 2020 Construction Specialties, Inc.

D. Single Source Responsibility: Obtain floor mats and frames from one source of a single manufacturer.
E. Utilize superior structural aluminum alloy 6063-T6 for rail connectors.
F. Utilize a manufacturer that is ISO 9001 & 14001 certified.

1.05 Delivery, Storage and Handling

A. Deliver materials to the project site ready for use and fabricated in as large sections and assemblies as practical, in unopened original factory packaging clearly labeled to identify manufacturer.

1.06 Project Conditions

A. Field measurements: Check actual openings for mats by accurate field measurements before fabrication. Record actual measurements on final shop drawings. Coordinate fabrication schedule with construction progress to avoid delay of work.
B. Recessed Conditions: IMPORTANT: Coordination with Division 03 00 00 Concrete specifications is required. For proper installation, the concrete recess must be flat and smooth throughout. If the recess is formed by a concrete contractor, the pour dimensions may require leveling grout to achieve the proper depth and a smooth finish. The final recess depth will match the specified product and must be field verified. For proper frame installation, the side walls of the concrete recess must also be straight and smooth. Inconsistencies with the recess and side walls must be remediated prior to product installation.

Part 2 - Products

2.01 Manufacturer

A. **Construction Specialties**, 3 Werner Way, Lebanon, NJ 08833 USA 800-233-8493; email cet@c-sgroup.com
B. Drawings and specifications are based on manufacturer's literature from **Construction Specialties, Inc.** unless otherwise indicated. Other manufacturers must be approved equal by Architect/Owner.

2.02 Materials

A. Aluminum - ASTM B 221, alloys 6063-T5, 6063-T6 for extrusions.
B. Regrind PETG/Polyurethane extrusion.
C. Flexible TPE extrusions.
D. Tread insert options - refer to section 2.05.

2.03 Floor Mats

A. **Model and Description - M1 Pedimat** Exposed hinge rail connectors shall be extruded 6063-T6 aluminum complete with perforations for drainage. Tread rails shall be manufactured from high-impact Regrind PET-G complete with co-extruded soft-durometer cushions. Overall depth without frame is 7/16" (11.1 mm). Supplied in mill (standard) or optional colors as offered by manufacturer. (Call factory for custom colors.) Choose from anodized of heavy-duty powder coat finish.

2.04 Mat Frames

(*Specifier to select one below and delete others) [Specifier note: Although most entrance flooring systems can accommodate some variation in the flatness of mat well bases, it is recommended that the surface beneath the mat be finished with a leveling screed to ensure optimum performance of the system.*

A. **SM - Tapered Frame** shall be 1 1/2"(38.1mm) wide, with tapered lead-in edge for surface mounted applications. Frame color shall be black as offered by manufacturer.
B. **LB – Level Base Frame** shall be a 3/4"(19.1mm) deep recessed frame in 6063-T5 aluminum alloy (optional architectural bronze) with 1/4"(6.4mm) wide exposed surface. Black TPE trim fillers shall be furnished as required when standard 2" (50.8mm) tread spacing cannot be maintained. Frame color shall be supplied in mill (standard) or optional colors as offered by manufacturer. (Custom colors are available.) Choose from anodized or heavy-duty powder coat finish. **Note:** Installer shall use recommended latex screed to ensure level base.

© Copyright 2020 Construction Specialties, Inc. | SG.M1.0720 | 2

C. **TNG - Tapered Angle Frame** *(Specifier note: the tapered angle frame is for use when additional screed for level base is not necessary.)* shall be a 1/2"(12.7mm) deep recessed frame in 6063-T5 aluminum alloy. Frame color shall be supplied in standard mill or optional colors as offered by manufacturer. (Custom colors are available.) Choose from anodized or heavy-duty powder coat finish.
D. **TA – Surface Mounted Aluminum Frame** shall be a 1 5/8"(38.1mm) wide 6105-T5 aluminum alloy and permanently positions mat for surface mounted applications. Frame color shall be supplied in mill (standard) or optional colors as offered by manufacturer. (Custom colors are available.) Choose from anodized or heavy-duty powder coat finish.
E. **THFR- Threshold Frame** shall be supplied in 6063-T6 aluminum alloy. For surface/recess installations to provide a flush transition from the entryway door threshold to the mat surface. The frame does not require a leveling screed. Choose from anodized or heavy-duty powder coat finish.
F. **PS – Carpet Transition Frame** as supplied in 6063-T5-aluminum alloy creates a receiver for surrounding commercial carpet. Frame color shall be supplied in standard mill or optional colors as offered by manufacturer. (Custom colors are available.) Choose from anodized or heavy-duty powder coat finish.

2.05 Tread Insert Options

(Specifier to select one below and delete others.

A. **HD – MonoTuft HD™ Carpet** shall meet CRI standard for good indoor air quality. Fibers shall include a minimum of 100, 12 mil monofilament fibers per square inch. Available in standard colors as offered by manufacturer. Each carpet fiber and monofilament shall be fusion-bonded to a rigid two-ply backing to prevent fraying and supplied in continuous splice-free lengths. Anti-static carpet fibers shall contain antimicrobial additive and be treated with Scotchgard® to reduce soiling. Carpet weight shall be 33-oz./yd².
B. **EC - Exterior Carpet** shall be solution dyed polypropylene fibers with 50/50 blend of 600/12-denier multi filament and 595/D1 monofilament, available in standard colors as offered by manufacturer. The texturized fibers have ultraviolet blockers and color as an integral part of the filament. Each carpet fiber and monofilament shall be fusion-bonded to a rigid two-ply backing to prevent fraying and supplied in continuous splice-free lengths. (Waterproof fibers do not get soggy, rot, fade or stain.) Carpet weight shall be 32-oz./yd².
C. **R - Rubber** shall include a flexible TPE tread insert in color Black
D. **L - Logo Option** (Designstep carpet inserts only) Each entrance mat specifically detailed shall include a logo or trademark.

Part 3 - Execution

3.01 Examination

A. Verification of conditions: Examine areas and conditions under which work is to be performed and identify conditions detrimental to proper or timely completion.
   1. Do not proceed until unsatisfactory conditions have been corrected.

3.02 Preparation

A. Manufacturer shall offer assistance and guidance to provide a template of irregular shaped mat assemblies to ensure a proper installation.

3.03 Installation

A. Install the work of this section in strict accordance with the manufacturer's recommendations.
B. Set mat at height recommended by manufacturer for most effective cleaning action.
C. Coordinate top of mat surface with bottom of doors that swing across to provide ample clearance between door and mat.

3.04 Cleaning

A. It is important to the life cycle of the flooring system that a maintenance schedule be developed which includes regular vacuuming and extraction that correctly matches the amount of traffic the mat incurs.

© Copyright 2020 Construction Specialties, Inc. | SG.M1.0720 | 3

3.05 Protection

A. After completing required frame installation and concrete work, provide temporary filler of plywood or fiberboard in recess, and cover frames with plywood protective flooring. Maintain protection until construction traffic has ended and project is near time of substantial completion.

B. Defer installation of floor mats until time of substantial completion of project.

© Copyright 2020 Construction Specialties, Inc.

CS Acrovyn® 4000 Models SM-20N, SM-20AN, and SM-20MN

Suggested Specifications | Section 10 26 00

Part 1 - General

1.01 Summary

A. This section includes the following types of wall protection systems:
  1. Corner Guards

B. Related sections: The following sections contain requirements related to this section:
  1. Handrails, Bumper Guards, Crash Rails, Accent Rails, Wall Covering, Wall Panels, Door Protection; refer to section 10 26 00 “Wall and Door Protection”
  2. Blocking in walls for fasteners; refer to section 09 22 00 “Supports for Plaster and Gypsum Board”

1.02 References

A. National codes (IBC, UBC, SBCCI, BOCA and Life Safety)

B. American Society for Testing and Materials (ASTM)

C. Underwriters Laboratories (UL)

D. California 01350 specification

1.03 Submittals

General: Submit the following in accordance with conditions of contract and Division 1 specification section 01 33 00 “Submittal Procedures”:

A. Product data and detailed specifications for each system component and installation accessory required, including installation methods for each type of substrate.

B. Shop drawings showing locations, extent and installation details of corner guards. Show methods of attachment to adjoining construction.

C. Samples for verification purposes: Submit the following samples, as proposed for this work, for verification of color, texture, pattern and end cap attachment and alignment:
  1. 6" (152.4mm) long sample of each model specified including end cap.

D. Product test reports from a qualified independent testing laboratory showing compliance of each component with requirements indicated.

E. Maintenance data for wall protection system components for inclusion in the operating and maintenance manuals specified in Division 1.

1.04 Quality Assurance

A. Installer qualifications: Engage an installer who has no less than 3 years’ experience in installation of systems similar in complexity to those required for this project.

B. Manufacturer’s qualifications: Not less than 5 years’ experience in the production of specified products and a record of successful in-service performance.

C. Code compliance: Assemblies should conform to all applicable codes including IBC, UBC, SBCCI, BOCA, Life Safety and CA 01350.

D. Fire performance characteristics: Provide engineered PVC FREE wall protection system components with UL label indicating that they are identical to those tested in accordance with ASTM E84 for Class A/1 characteristics listed below:
  1. Flame spread: 25 or less
  2. Smoke developed: 450 or less

B. Impact strength: Provide wall protection components that have been tested for impact using a ram-type impact test in accordance with the applicable provisions of ASTM F476 -84.

E. Chemical and stain resistance: Provide wall protection system components with chemical and stain resistance in accordance with ASTM D543.

© 2021 Construction Specialties, Inc.

F. Color match: Provide wall protection components that are color matched in accordance with the following:
  1. Delta Ecmc of no greater than 1.0 using CIELab color space. (Specifier note: Construction Specialties' colors are matched under cool white fluorescent lighting and computer controlled within manufacturing tolerances. Color may vary if alternate lighting sources are present.)

G. Single source responsibility: Provide all components of the wall protection system manufactured by the same company to ensure compatibility of color, texture, and physical properties.

1.05 Delivery, Storage and Handling

A. Deliver materials to the project site in unopened original factory packaging clearly labeled to show manufacturer.

B. Store materials in original, undamaged packaging in a cool, dry place out of direct sunlight and exposure to the elements. A minimum room temperature of 40°F (4°C) and a maximum of 100°F (38°C) should be maintained.

C. Material must be stored flat.

1.06 Project Conditions

A. Materials must be acclimated in an environment of 65°-75°F (18°-24°C) for at least 24 hours prior to beginning the installation.

B. Installation areas must be enclosed and weatherproofed before installation commences.

1.07 Warranty

A. Acrovyn 5-year Limited Warranty

☐ Applies to Interior Wall Protection orders that <u>do not</u> include recommended components or accessories
- Assemblies = Brackets, Hardware
- Accessories = Primer, Adhesive, Caulk, Trims & Moldings

B. Limited Lifetime Systems Warranty

☐ Applies to CS Interior Wall Protection projects that include all recommended components and accessories related to CS Interior Wall Protection Products.
- Assemblies = Brackets, Hardware
- Accessories = Primer, Adhesive, Caulk, Trims & Moldings

Part 2 - Products

2.01 Manufacturers

A. Construction Specialties, 3 Werner Way, Lebanon, NJ 08833 USA 800-233-8493; email: cet@c-sgroup.com

B. Drawings and specifications are based on manufacturer's literature from Construction Specialties, Inc. drawings and specifications unless otherwise indicated. Other manufacturers must be approved equal by Architect/Owner.

2.02 Materials

A. Engineered PVC FREE: Extruded material should be high-impact Acrovyn 4000 with Shadowgrain texture, nominal .078" (1.98mm) thickness. Chemical and stain resistance should be per ASTM D543 standards as established by the manufacturer. Colors to be indicated in the finish schedule from one of manufacturer's available colors and patterns.

B. Regrind PVC FREE: PVC-free regrind retainer for model SM-20N.

© 2021 Construction Specialties, Inc.

C. Aluminum: Extruded aluminum retainers should be 6063-T6 alloy, nominal .062" (1.57mm) thickness for models SM-20AN and SM-20MN. Minimum strength and durability properties as specified in ASTM B221.

D. Fasteners: All fasteners to be non-corrosive and compatible with aluminum retainers. All necessary fasteners to be supplied by the manufacturer.

2.03 Corner Guards

A. Engineered PVC FREE Corner Guards to be CS Acrovyn: Surface mounted guards consisting of continuous retainer with snap-on Acrovyn 4000 cover. Color matched end caps to be provided for both partial and full height applications. Attachment hardware shall be appropriate for wall construction.

1. **Model SM-20N 90° surface mounted corner guard with 3" (76.1mm) legs, 1/4" (6.4mm) radius cover and regrind PVC FREE retainer. Specify SM-20AN for continuous aluminum retainer or SM-20MN for odd degree corners. Select from one of Acrovyn™ solid colors, Acrovyn ™ Woodgrains or Acrovyn™ Brushed Metals simulated patterns. Optional horizontal accent reveal available in Black only (90° only).** [Specifier note: refer to the Acrovyn Cradle to Cradle Product Summary at www.acrovyn.com/c2c to determine which colors and patterns are *Cradle to Cradle Certified*™ Gold or Silver (exception: optional horizontal accent reveal). *Cradle to Cradle Certified*™ is a certification mark licensed by the Cradle to Cradle Products Innovation Institute.]

2.04 Fabrication

A. General: Fabricate wall protection systems to comply with requirements indicated for design, dimensions, detail, finish and member sizes.

Part 3 - Execution

3.01 Examination

A. Verification of conditions: Examine areas and conditions under which work is to be performed and identify conditions detrimental to proper or timely completion.

1. Do not proceed until unsatisfactory conditions have been corrected.

3.02 Preparation

A. Surface preparation: Prior to installation, clean substrate to remove dirt, debris and loose particles. Perform additional preparation procedures as required by manufacturer's instructions.

B. Protection: Take all necessary steps to prevent damage to material during installation as required in manufacturer’s installation instructions.

3.03 Installation

A. Install the work of this section in strict accordance with the manufacturer's recommendations, using only approved mounting hardware and locating all components firmly into position, level and plumb.

B. Temperature at the time of installation must be between 65°-75°F (18°-24°C) and be maintained for at least 48 hours after the installation.

C. Adjust installed end caps as necessary to ensure tight seams.

3.04 Cleaning

A. General: Immediately upon completion of installation, clean material in accordance with manufacturer’s recommended cleaning method.

B. Remove surplus materials, rubbish and debris resulting from installation as work progresses and upon completion of work.

3.05 Protection

© 2021 Construction Specialties, Inc.

A. Protect installed materials to prevent damage by other trades. Use materials that may be easily removed without leaving residue or permanent stains.

© 2021 Construction Specialties, Inc.

P3TEC / advanced wall protection

Stellar

Item # P3T-60120 - P3T-60140 (21 colorways)

Impact Chemical Abrasion

PHYSICAL PROPERTIES

Width	Trim to 48"
Packaging	15-yd rolls
Thickness	0.033
Backing	Heavy Polyester/ Cotton knit
Repeat	N/A
Installation	Reverse hang, Random match
Fire Safety	Class "A" rated ASTM E-84; NFPA 286

ENVIRONMENTAL & HEALTH

Indoor Air	Meets California Section 01350
Fungal Resistant	ASTM G-21
Bacterial Resistant	ASTM G-22
HPD	third-party classified
EPD	third-party certified
NSF/ANSI 342	third-party certified, ask distributor for details

Impact

Impact Resistance
ASTM D- 5420-10
Gardner Method

Pattern	In-Lbs
Stellar	100+

Chemical

Chemical Resistance
ASTM D-1308
Spot test covered 3.1.1

Cleaning Agents
Tide w/H20
Virex
Ammonia
Isopropyl Alcohol
Goof Off
Fantastik
Lysol
Hydrogen Peroxide
Bleach
Methyl Ethyl Ketone

Results: No change in P3TEC surface from exposure to these agents.

Cleaning
ASTM F-793
SECTION 7.5

Staining Agents
Grape Juice
Mustard
Black Sharpie
Ink Pen
Betadine
Shoe Polish
Lipstick
Black Rubber
Brake Fluid
Spray Paint

Results: Each staining agent above was wiped clean with at least one listed cleaning agent.

Best stain removal results can be achieved by use of progressively strong, non-abrasive cleaners, and which can be supplemented by use of a soft bristle brush.

Abrasion

Abrasion Resistance
ASTM D- 4060-14
Taber Method

Test Spec
CS-10F wheel
500 gram load @200 cycles
Weight loss: 0.02%

OTHER

5 year warranty against manufacturing defects.

Accessories: Coordinating corner guards and Type II wallcovering (on selected colorways) available.

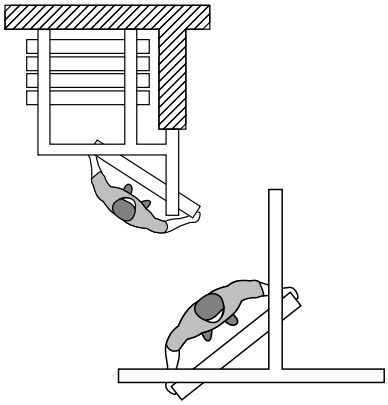
Installs with techniques similar to Type II vinyl wallcovering, including seaming with overlap and double-cut process.
See full Installation Instructions from distributor.

Sold in 15-yd coreless rolls, one per shipping box (approximately 42 lbs)

D.L.Couch 800 433 0790
Eykon 800 222 7866
trikes 800 200 8120

J•JOSEPHSON

Individual, Omni-Directional Panels



Top Supported
Side Stack
Individual, Omni-Directional Panels
Manually Operated
Maximum Height: 40'5" [12.3m] *
Maximum Opening Width: Unlimited
STC Ratings: 43, 47, 49, 52, 54, 55, 56

*Taller heights are available. Contact your Hufcor Distributor for assistance.

PRODUCT OVERVIEW:

Select for Durability and Aesthetics: The 641 offers panel finishes for the ultimate in design flexibility. Even the frames may be color matched to coordinate with the faces. The 641 is a popular choice for hotel meeting rooms, convention centers, commercial facilities, or other high use facilities.

Standard Features: The panels are nominally 4" [102] thick, and have a 16 ga. steel frame. The top and bottom horizontal sound seals are retractable and provide floor clearance (to accommodate out-of-level floors). The faces may be covered from a wide selection of vinyl colors and patterns.

Individual, Omni-Directional Panels: Individual, manually operated panels offer optimum room flexibility. The track system enables panels to negotiate turns and be used in alternate locations.

How to Obtain: Hufcor partitions are sold, installed, and serviced by factory-trained local authorized Distributors in the United States and by Licensees and Distributors outside the U.S.A.

Delivery: Panels are custom built for your specific project. Lead times vary due to seasonal fluctuations. Check with your Distributor for the current schedule.

Warranty: Track and panels are guaranteed for ***two years*** against defects in material and workmanship.

"Standard" Product Features and Benefits:

Look for these features when comparing similar products.

1. **Feature:** Protective vertical trim (Available option: no protective vertical face trim.)
   Benefit: Trim protects the panel edges and faces plus it provides a handhold when moving panels.
2. **Feature**: Quick-Set™ Retractable Seals
   . **Benefit**: The retractable seals are Quick-Set™ which means they are easily extended or retracted with only a 1/2 turn of the removable handle. No tedious cranking needed to set the seals.
3. **Feature**: 2" [51] retractable bottom seals
   Benefit: Retractable seals accommodate out-of-level floor conditions. When retracted, nothing drags on the floor when the panels are moved. Panels can be "locked" in place.
4. **Feature:** Retractable seals exert upward and downward seal force
   Benefit: Provides constant force against the track and floor for optimum acoustics even on carpet or other porous floor materials. Maintains panel stability when the seals are set.
5. **Feature**: Waist high seal activator for quick set retractable seals.
   Benefit: Fast, easy seal activation without bending or stooping.
6. **Feature**: Removable operating handle.
   Benefit: Prevents unauthorized operation.
7. **Feature:** Expanding Jamb Closure (Lever Closure) Panel
   Benefit: Exerts 250 lbs [113.4 kg] of force against the fixed wall. The compression creates tight panel joints for optimum sound control.
8. **Feature**: Interlocking vertical seals
   Benefit: Ensures panel-to-panel alignment and prevents sound leaks between panels.

HUFCOR™

Optional track systems, seals, and accessories enable the standard product to be modified for optimum versatility. See details provided or ask your Hufcor representative for the features you want.

Individual, Omni-Directional Partitions

PART 1 - GENERAL

1.01 DESCRIPTION

A. General

1. Furnish and install operable partitions and suspension system. Provide all labor, materials, tools, equipment, and services for operable walls in accordance with provisions of contract documents.

1.02 RELATED WORK BY OTHERS

A. Preparation of opening will be by General Contractor. Any deviation of site conditions contrary to approved shop drawings must be called to the attention of the architect.

B. All header, blocking, support structures, jambs, track enclosures, surrounding insulation, and sound baffles as required in 1.04 Quality Assurance.

C. Prepunching of support structure in accordance with approved shop drawings.

D. Paint or otherwise finishing all trim and other materials adjoining head and jamb of operable partitions.

1.03 SUBMITTALS

A. Complete shop drawings are to be provided prior to fabrication indicating construction and installation details. Shop drawings must be submitted within 60 days after receipt of signed contract.

1.04 QUALITY ASSURANCE

A. Preparation of the opening shall conform to the criteria set forth per ASTM E557 Standard Practice for Architectural Application and Installation of Operable Partitions

B. The partition STC (Sound Transmission Classification) shall be achieved per the standard test methods ASTM E90.

C. Noise isolation classifications shall be achieved per the standard test methods ASTM E336 and ASTM E413.

D. Noise Reduction Coefficient (NRC) ratings shall be per ASTM C423.

E. Rack testing for 10 years. (tensional strength stress test)

F. The manufacturer shall have a quality system that is registered to the ISO 9001 standards.

1.05 PRODUCT DELIVERY, STORAGE, AND HANDLING

A. Proper storage of partitions before installation and continued protection during and after installation will be the responsibility of the General Contractor.

1.06 WARRANTY

A. Partition system shall be guaranteed for a period of two years against defects in material and workmanship, excluding abuse.

PART 2 - PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

A. Upon compliance with all of the criteria specified in this section, Manufacturers wishing to bid products equal to the product specified must submit to the architect 10 days prior to bidding complete data in support of compliance and a list of three past installations of products similar to those listed. The submitting manufacturer guarantees the proposed substituted product complies with the performance items specified and as detailed on the drawings.

2.02 MATERIALS

A. Product to be top supported Series 641 individual, omni-directional panels as manufactured by Hufcor Inc.

1. Panels shall be nominally 4” [101] thick and to 48” [1219] in width.
2. Panel faces shall be laminated to appropriate substrate to meet the STC requirement in 2.04 Acoustical Performance.
   a. Optional substrate material (Not all substrates are available for all STC ratings. Consult your Hufcor Distributor for more information):
      Steel
      Non-steel
   b. Horizontal Splice: Heights over 16'3" [4953] with non-steel faces require a structural splice placed at approximately 12’3” [3734] from the floor.
3. Frames shall be of 16 gauge [1.42mm] steel with integral factory applied aluminum vertical edge and face protection.
   Optional: Face finish shall wrap around the vertical panel edges and provide no protective vertical face trim.
4. Vertical sound seals shall be of tongue and groove configuration, ensure panel-to-panel alignment and prevent sound leaks between panels.
5. Horizontal top seals shall be retractable, provide 1” [25] nominal operating clearance, and exert upward force when extended. All panels, including pass door panels and lever closure panels must have retractable top and bottom seals.
   Optional: Horizontal top seals shall be fixed continuous contact dual 4-finger vinyl.
6. Horizontal bottom seals shall be retractable, provide up to 2” [51] nominal operating clearance, and exert downward force when fully extended.
   Optional:
   a. Horizontal bottom seals shall be retractable, provide 4” [101] nominal operating clearance, and exert 97 lbs. [44 kg] downward force when fully extended.
   b. Horizontal bottom seals shall be fixed continuous contact 4-finger vinyl.
7. Horizontal trim shall be of aluminum.

B. Weight of the panels shall be 7.8-13.6 lbs./sq. ft. [37.8-66.4 kg/sq.m] based on options selected.

C. Suspension system:

1. For panels to 1000 lbs. [455 kg] or 22’2” [6.75m]: Track shall be of clear anodized architectural grade extruded aluminum alloy 6063-T6. Track design shall provide precise alignment at the trolley running surfaces and provide integral support for adjoining ceiling, soffit, or plenum sound barrier. Track shall be connected to the structural support by pairs of minimum 3/8” [10] dia. threaded steel hanger rods. Pairs of rods are directly attached to the track, no single point attachment allowed. L, T, or X intersections shall be factory assembled and welded.
   a. Each panel shall be supported by two 2-wheeled counter-rotating horizontal carriers. Wheels to be of precision ground steel ball bearings with heat treated and hardened races encased with molded polymer tires.
2. For panels 1000-1500.lbs. [455-680 kg]: Track shall be of clear anodized architectural grade extruded aluminum alloy 6063-T6. Track design shall provide precise alignment at the trolley running surfaces and provide integral support for adjoining ceiling, soffit, or plenum sound barrier. . Track shall be connected to the structural support by pairs of minimum 1/2” [13] dia. threaded steel hanger rods. Pairs of rods are directly attached to the track, no single point attachment allowed. L, T, or X intersections shall be factory assembled and welded.
   a. Each panel shall be supported by two 2-wheeled counter-rotating horizontal carriers. Wheels to be of precision ground steel ball bearings with heat treated and hardened races encased with molded polymer tires, steel banded and reinforced.
3. For panels 1500-3000 lbs. [680-1364 kg]: Track shall be of 1/4” [6] formed black painted steel connected to the structural support by pairs of minimum 1/2” [13] threaded steel hanger rods. Track trim shall be clear anodized aluminum. Carriers to have four steel wheels with precision ground radial bearings. Bearings are inserted into a steel tire. The steel tire rim fully captures the bearing. Carriers may be programmed for self-directing and sorting.
4. Optional tracks may be used providing the height and weight limits are within manufacturers guidelines. See page 6 “Optional Tracks”.
5. Option (available for select layouts-consult your Hufcor Distributor): The panels shall be supported by the Unispan pre-engineered truss and post system fabricated of steel and aluminum. Unispan is attached to the building structure for lateral support only. The load of the truss and partition is supported by end columns. The columns are connected to floor plates that distribute the load of the system at the floor.
6. Plenum closure (by others): Design of plenum closure must permit lifting out of header panels to adjust track height. Plenum closure required for optimum sound control of partition.

D. Finishes

1. Face finish shall be: (**select as required**):
   a. Factory applied reinforced vinyl fabric with woven backing, weighing not less than 20 oz. per lineal yard [620 g/m]. Color shall be selected from manufacturer’s standard color selectors.
   b. Standard upgrade fabrics (color shall be selected from manufacturer’s standard color selector):
      (1) Factory applied vertical ribbed carpet (N.R.C. .20)
      (2) Factory applied stain resistant fabric
   c. Optional:
      (1) Customer selected (requires factory approval for manufacturing compatibility)
      (2) Unfinished for field decoration

(3) Wood veneer (factory installed on trimmed models)
(4) High pressure laminate (factory installed on trimmed models)

2. Exposed metal trim and seal color shall be (**select from Hufcor's Standard Trim selector**):
   a. Lamb's Wool (standard)
   b. Brown (standard)
   c. Gray (standard)
   d. Putty (standard)
   e. Black Textured (standard)
   f. Sky White Textured (standard)
   g. Custom powder coated (optional upgrade for metal trim)
3. Aluminum track shall be clear anodized
   a. Optional upgrade:
      (1) Custom powder coated

E. Available Accessories/Options
1. ADA compliant pass door of the same thickness and construction as the basic panels. Pass door panel legs require bottom seals that provide downward force to maintain stability during door operation. Pass door leaf has perimeter trim to protect face finish and to provide visual identification as required by International Building Code. Pass door leaf incorporates a self-adjusting retractable bottom seal providing sound control when door is closed.
   a. Automatic door closer
   b. Door lock
   c. Exit sign (consult your local code)
   d. Prepped for window
   e. Peep hole
2. Markerboards, inset or full height
3. Inset tackboards
4. Inset eraser pocket
5. Segmented faces
6. Finished end cover
7. Pocket doors
8. Inset chair rail pan (for field installation of chair rail).
9. Custom design options (consult your local Hufcor Distributor)
10. Field sound test

2.03 OPERATION
A. Panels shall be manually moved from the storage area, positioned in the opening, and seals set.
B. Retractable Horizontal Seals
1. Retractable horizontal seals shall be activated by a removable quick-set operating handle located approximately 42" [1067] from the floor in the panel edge.
2. Top and bottom retractable seals shall be operated simultaneously.
3. Seal activation requires approximately a 190 degree turn of the removable handle.
   Optional 4" [101] bottom seals: Seal activation requires a lift/drop motion of the removable handle.

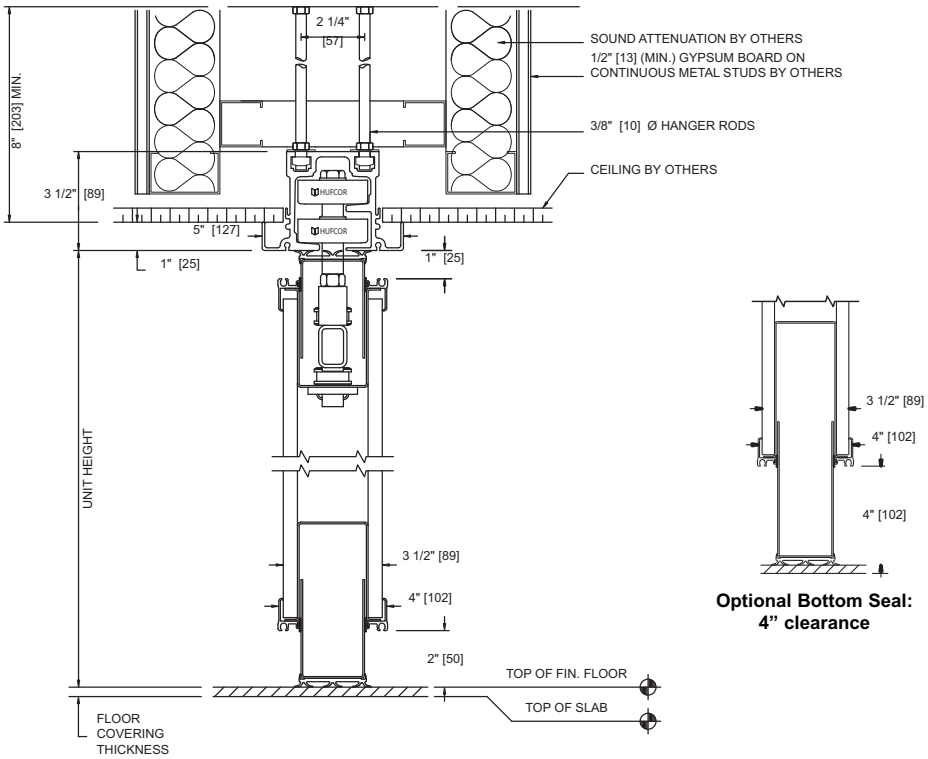
C. Final partition closure to be by lever closure panel with expanding jamb which compensates for minor wall irregularities and provides a minimum of 250 lbs. [113.4 kg] seal force against the adjacent wall for optimum sound control. The jamb activator shall be located approximately 45" [1143] from the floor in the panel face and be accessed from either side of the panel. The jamb is equipped with a mechanical rack and pinion gear drive mechanism and shall extend 4"-6" [101-152] by turning the removable operating handle.
D. Stack/Store Panels
1. Retract seals with removable operating handle and move to storage area.

2.04 ACOUSTICAL PERFORMANCE
A. Acoustical performance shall be tested at a laboratory accredited by the the National Voluntary Laboratory Accreditation Program (NVLAP) and in accordance with ASTM E90 Test Standards. Standard panel construction shall have obtained an STC rating of ____ (**select as required**): 43, 47, 49, 52, 54, 55, 56
(Not all substrates are available in all STC ratings)
1. Complete, unaltered written test report is to be made available upon request.

PART 3 - EXECUTION
A. Installation. The complete installation of the operable wall system shall be by an authorized factory-trained installer and be in strict accordance with the approved shop drawings and manufacturer's standard printed specifications, instructions, and recommendations.
B. Cleaning
1. All track and panel surfaces shall be wiped clean and free of handprints, grease, and soil.
2. Cartoning and other installation debris shall be removed to onsite waste collection area, provided by others.
C. Training
1. Installer shall demonstrate proper operation and maintenance procedures to owner's representative.
2. Operating handle and owners manuals shall be provided to owner's representative.

Header shown for plenum sound enclosure is one of several that may be used. See ASTM E557 Standard Practice for Archl Application & Installation of Operable Partitions for other recommendations.

Shown with Type 36 Aluminum track. Standard for weights to 1000 lbs. [455 kg]. Alternate track systems may be used providing the height and weight limits are within manufacturers guidelines.



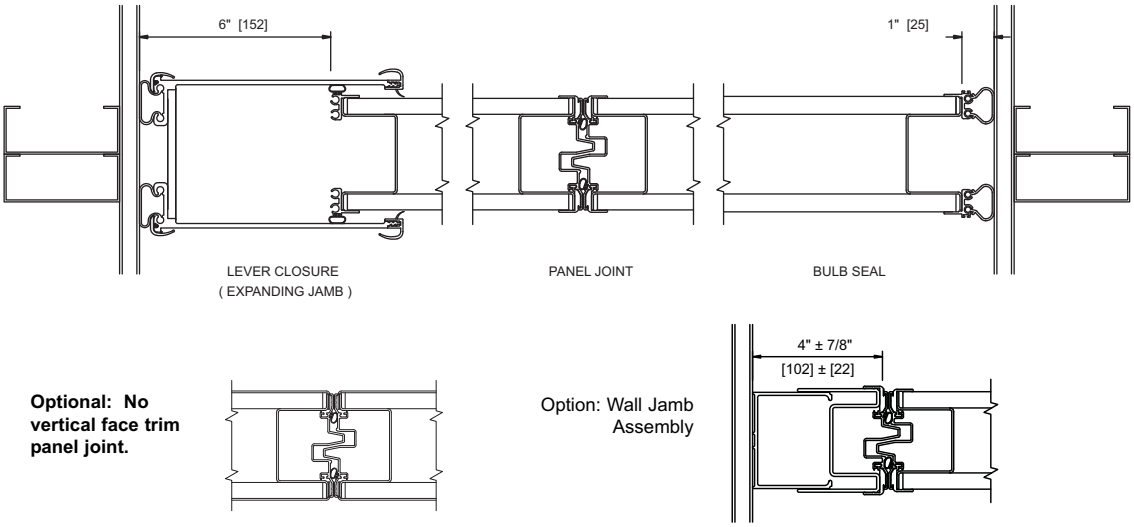
Optional Bottom Seal: 4" clearance

VERTICAL SECTION **No Scale**

Individual, Omni-Directional Operable Partitions

HORIZONTAL SECTION shown with standard vertical trim.

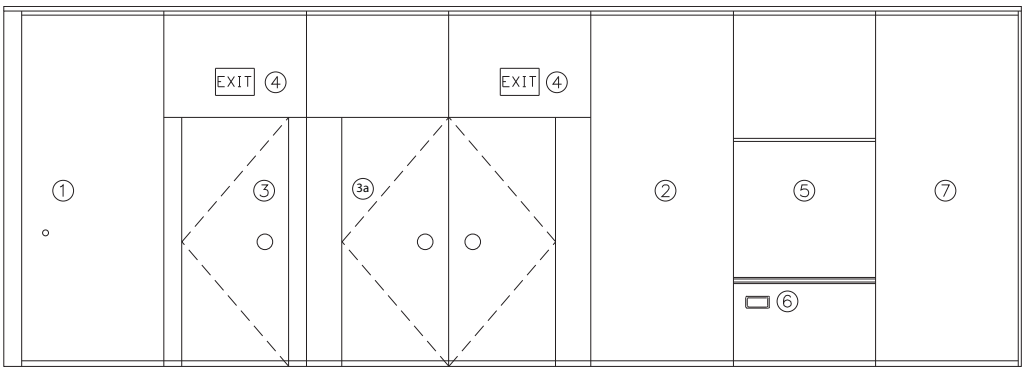
Final partition closure using **expanding closure panel**. Solid blocking required at both ends to withstand 250 lbs. [113.4 kg] of lateral force.



No Scale

OPTIONS & ACCESSORIES

ELEVATION



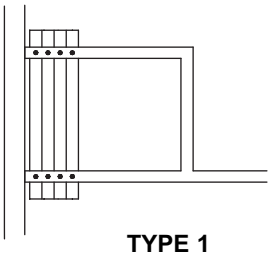
1. **Expanding Jamb Closure (Lever Closure) Panel**. Expanding jamb exerts 250 lbs. [113.4kg] force against adjacent wall for optimum sound control.
2. **Basic panel**
3. **ADA compliant pass doors** - Single 3/0 x 7/0 [914 x 2132] or 3/0 x 6/8 [914 x 2030]. Of the same construction, thickness, and finish as the basic panels. Push/pull latching handle. Options include key lock, windows, and automatic door closer. No threshold is required.
   3a. Double (batwing) pass doors also available.
4. **Exit Sign** - Recessed or surface mounted, self-illuminated.
5. **Work Surfaces** 4'0" [1219] high x panel width, recessed, mounted approx. 30" [762] above the floor:
   a. Markerboard surfaces (from Hufcor standard colors)
   b. Tackboards of 2mm cork board covered with vinyl (from Hufcor standard color selector).
   c.. Marker tray (standard on inset markerboards).
   d. Full height markerboard
6. **Recessed Eraser Pocket** (8" x 2" x 1-1/4" deep [203 x 50 x 31]).
7. **Lead panel** with bulb seal to prevent sound leaks at adjacent wall.
   Optional: Lead panel closure to 4" [101] adjustable, full height, acoustic wall jamb assembly.

HUFCOR

Individual, Omni-Directional Operable Partitions

Stack Dimensions

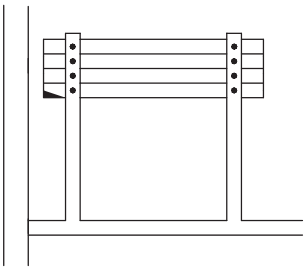
The following stack depth and width dimensions are based on a flat stack and standard construction with vinyl faces. Optional construction and/or face covering may increase stack depth dimensions. Angled stacks require additional space. Contact your Hufcor Distributor for angled stack requirements.



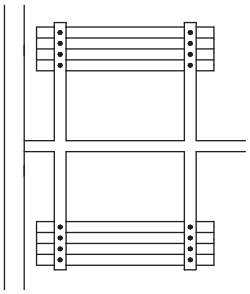
TYPE 1
Side Stack

Stack Depth: 4-1/4" [108] per panel plus 1" [25]
Optional panic hardware will add to the depth of the stack. Please contact your Hufcor distributor for assistance.
Stack Width: Panel width + 12" [300] clearance.
For Pocket Storage: Due to the wide variety of stack configurations possible, consult your Hufcor representative for space requirements.

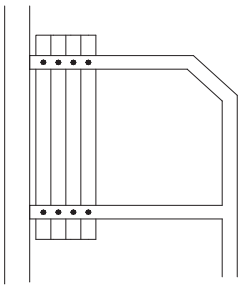
The Type 1 stack shown above is the most often used for simple omni-directional layouts. Following are additional common stack configurations. Stacks are not limited to these configurations and may be built to fit each job requirement. Consult your Hufcor representative for design assistance.



TYPE 2
Parallel *

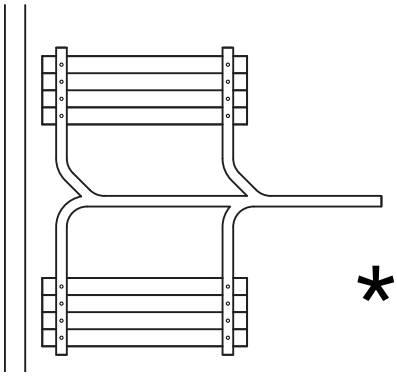


TYPE 3
Double Parallel



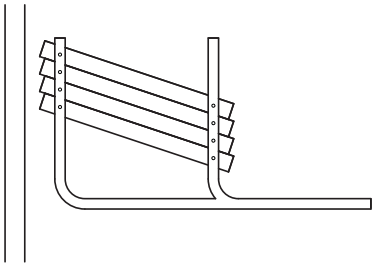
TYPE 4
Chamfered *

Curve/Divert Systems

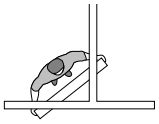


*

Curves, diverters, switches for easy movement of very tall/heavy panels. The carriers may be programmed for self-directing and sorting.



*



*

CAUTION

Body space is needed to access the panels and move them into position. Be certain to consult your Hufcor representative before constructing walls in pocket/stack areas. This is important for all configurations, but can be especially important for those stacks marked with an asterisk.

HUFCOR

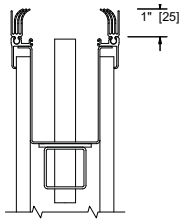
Figures in brackets [ ] are in millimeters unless otherwise noted

OPTIONS - NOT TO SCALE

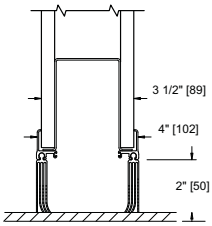
HANGING WEIGHT

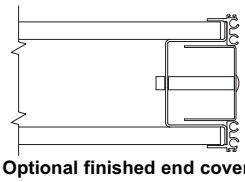
STC	Lbs./Sq. Ft.	Kg./Sq. M
43	7.8	37.8
47	8.0	38.7
49	8.5	41.2
52	9.5	46.0
54	10.9	53.2
55	12.8	62.5
56	13.6	66.4

Optional continuous contact top seals.



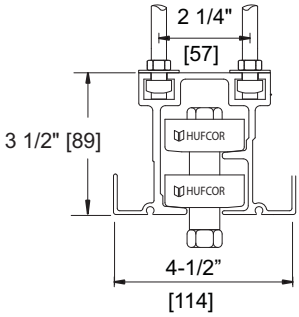
Optional continuous contact (sweep) bottom seals. **(Not available with optional 4" bottom seal.)**



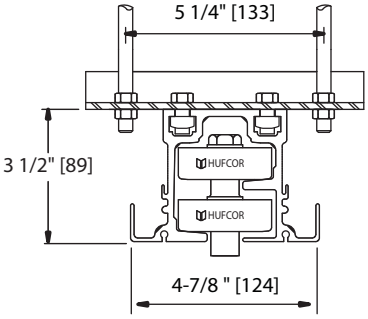


Optional finished end cover - provides finished panel end when partition run does not extend from wall-to-wall.

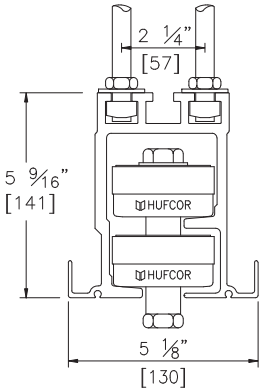
OPTIONAL TRACKS - Alternate Hufcor track systems may be used providing the height and weight limits are within manufacturer's guidelines.



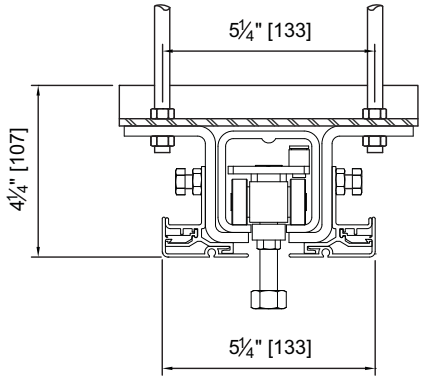
Type 26 Aluminum Track
Optional for panel weights to 500 lbs. [227 kg]. Each carrier has two horizontal counter-rotating wheels. Each wheel has precision ground bearings, encased with Delrin for quiet operation. Minimum dimension from the ceiling to the structure is 8" [203].



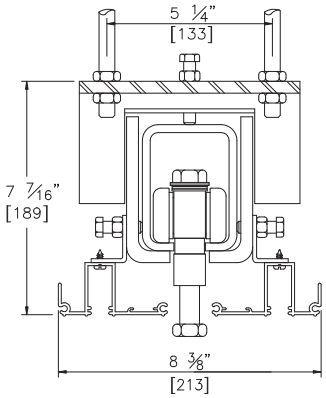
Type 36 Aluminum track.
Standard for weights to 1000 lbs. [455 kg]. Shown with optional suspension bracket available for 5-1/4" [133] spacing. Suspension bracket is available for all aluminum tracks.



Type 57 Aluminum Track
For panel weights to 1500 lbs. [682 kg]. Each wheel of the carrier has precision ground bearings, encased with Delrin, steel banded and reinforced. May be programmed for self-directing and sorting. Minimum dimension from the ceiling to the structure is 12" [305].



Type 11L Steel Track
For panel weights to 1400 lbs. [635 kg]. Track is of 3/16" [5] formed steel. Track trim is clear anodized aluminum. Each carrier has four steel wheels with precision ground radial bearings. Minimum dimension from the ceiling to the structure is 8" [203].



Type 11 Steel Track
For panel weights to 3000 lbs. [1364 kg]. Track is of 1/4" [6] formed steel. Track trim is clear anodized aluminum. Curves, diverters, or switches are available. Each carrier has four steel wheels with precision ground radial bearings. Bearings are inserted into a steel tire. Tire rim fully captures the bearing. Carriers may be programmed for self-directing and sorting. Minimum dimension from the ceiling to the structure is 12" [305].

World headquarters:
Hufcor Inc.
P.O. Box 5591
2101 Kennedy Rd.
Janesville, WI USA 53547-0591
1-800-542-2371 ext. 214; 1-608-756-1241
FAX: 1-608-758-8253
E-mail: info@hufcor.com
Website: www.hufcor.com

The manufacturer reserves the right to improve and change product without notice.

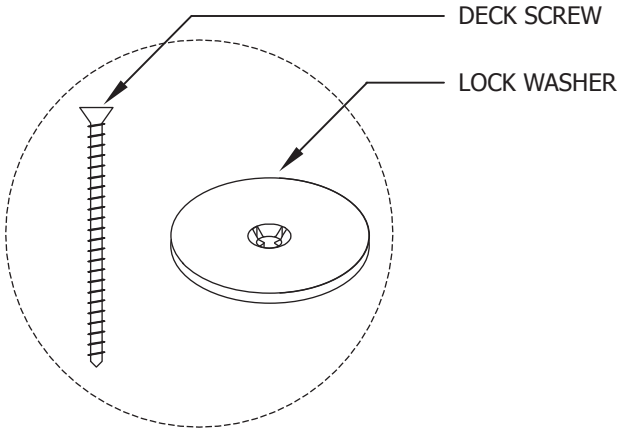
Figures in brackets [ ] are in millimeters unless otherwise noted

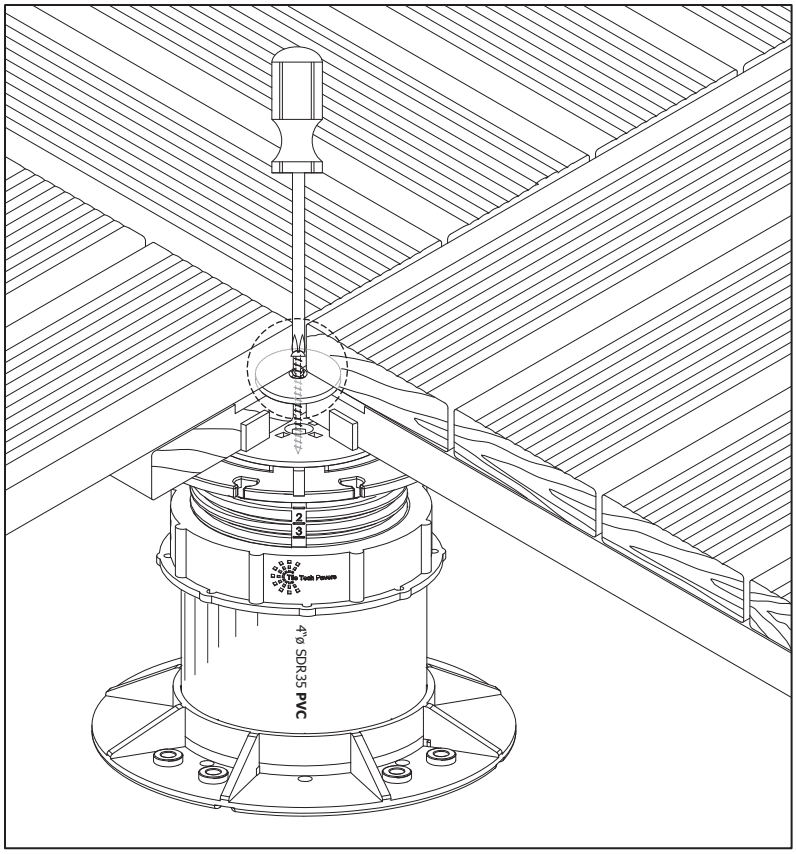
Tile Tech Pavers®
Paving America one step at a time!

National Distribution Tel: 213-380-5560
Toll Free: 888-380-5575 Fax: 213-380-5561

WOOD TILE & PEDESTAL APPLICATION

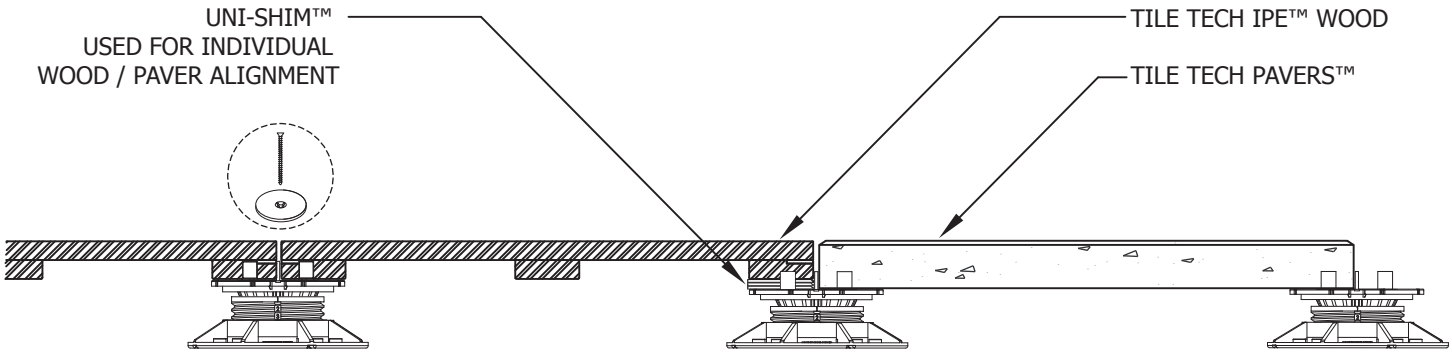
TRANSITION, ALIGNMENT & LOCK DOWN DETAILS





INSERT THE LOCK WASHER IN TO THE KURF CUT BETWEEN THE UPPER SLAT AND BOTTOM RAIL OF 3 WOOD PAVERS. INSERT THE 4th PAVER IN TO THE 4TH CORNER. ONCE ALL 4 PAVERS ARE TIGHTLY IN PLACE INSERT SCREW THROUGH LOCK WASHER AND HAND TIGHTEN IN TO PEDESTAL TOP UNTIL ALL 4 PAVERS ARE SECURELY FASTENED TO THE PEDESTAL. DO NOT OVER TIGHTEN.

IPE WOOD & PAVER TRANSITION AND ALLIGNMENT



GENERAL NOTES: APPLY TO ALL OF THE ABOVE PRODUCTS

1. INSTALLATION MUST BE COMPLETED IN ACCORDANCE WITH TILE TECH PAVERS PRODUCT SPECIFICATIONS.
2. DRAWING NOT TO SCALE.
3. USE OF BUFFER PADS IS MANDATORY.
4. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.TILETECHPAVERS.com

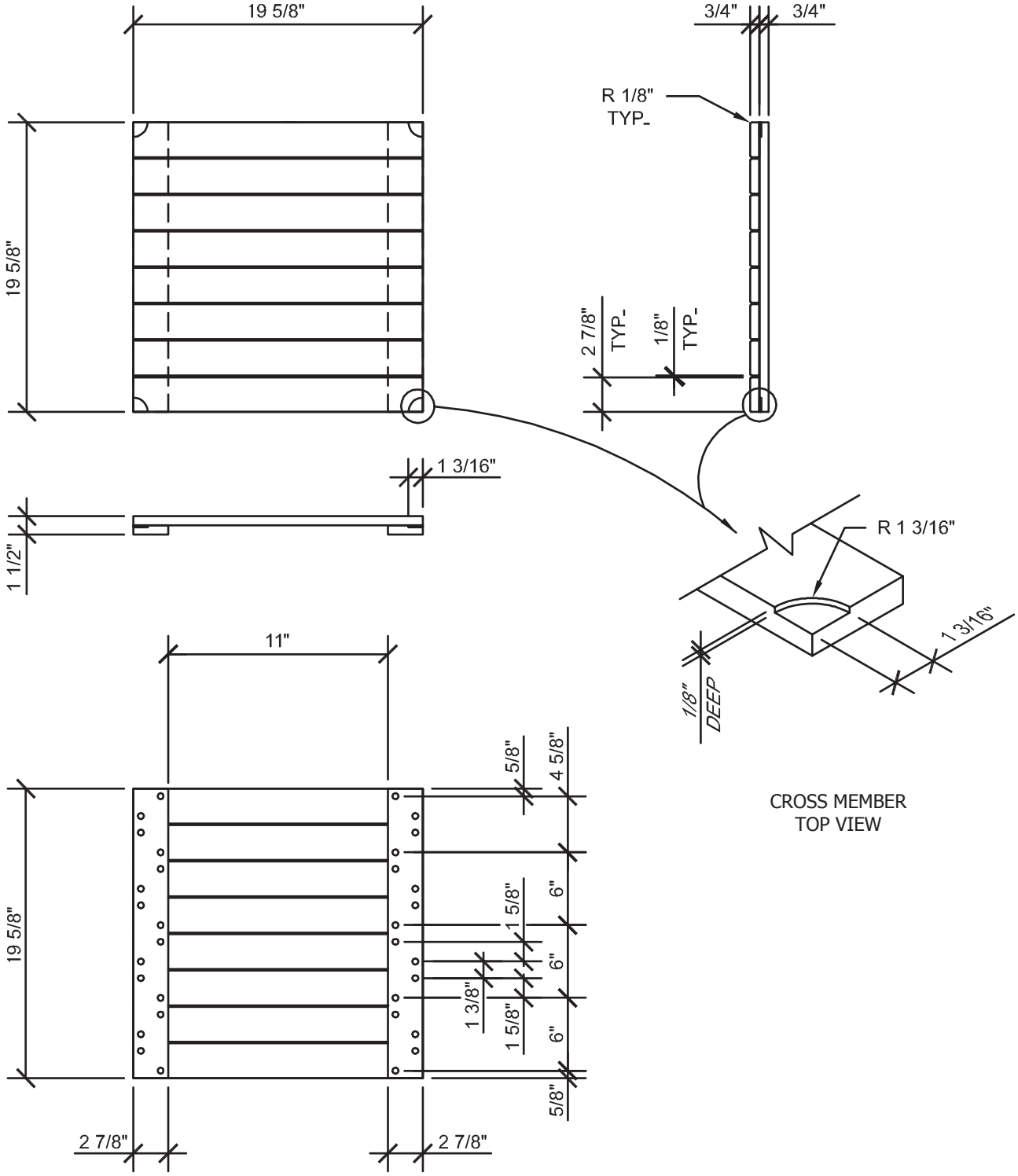
COPYRIGHT 2015 TILE TECH INC., ALL RIGHTS RESERVED.

Tile Tech Pavers®
Paving America one step at a time!

National Distribution Tel: 213-380-5560
Toll Free: 888-380-5575 Fax: 213-380-5561

IPE WOOD TILES DETAILS

20″ x 20″ x 1-1/2″



GENERAL NOTES: APPLY TO ALL OF THE ABOVE PRODUCTS

1. INSTALLATION MUST BE COMPLETED IN ACCORDANCE WITH TILE TECH PAVERS PRODUCT SPECIFICATIONS.
2. DRAWING NOT TO SCALE.
3. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.TILETECHPAVERS.COM

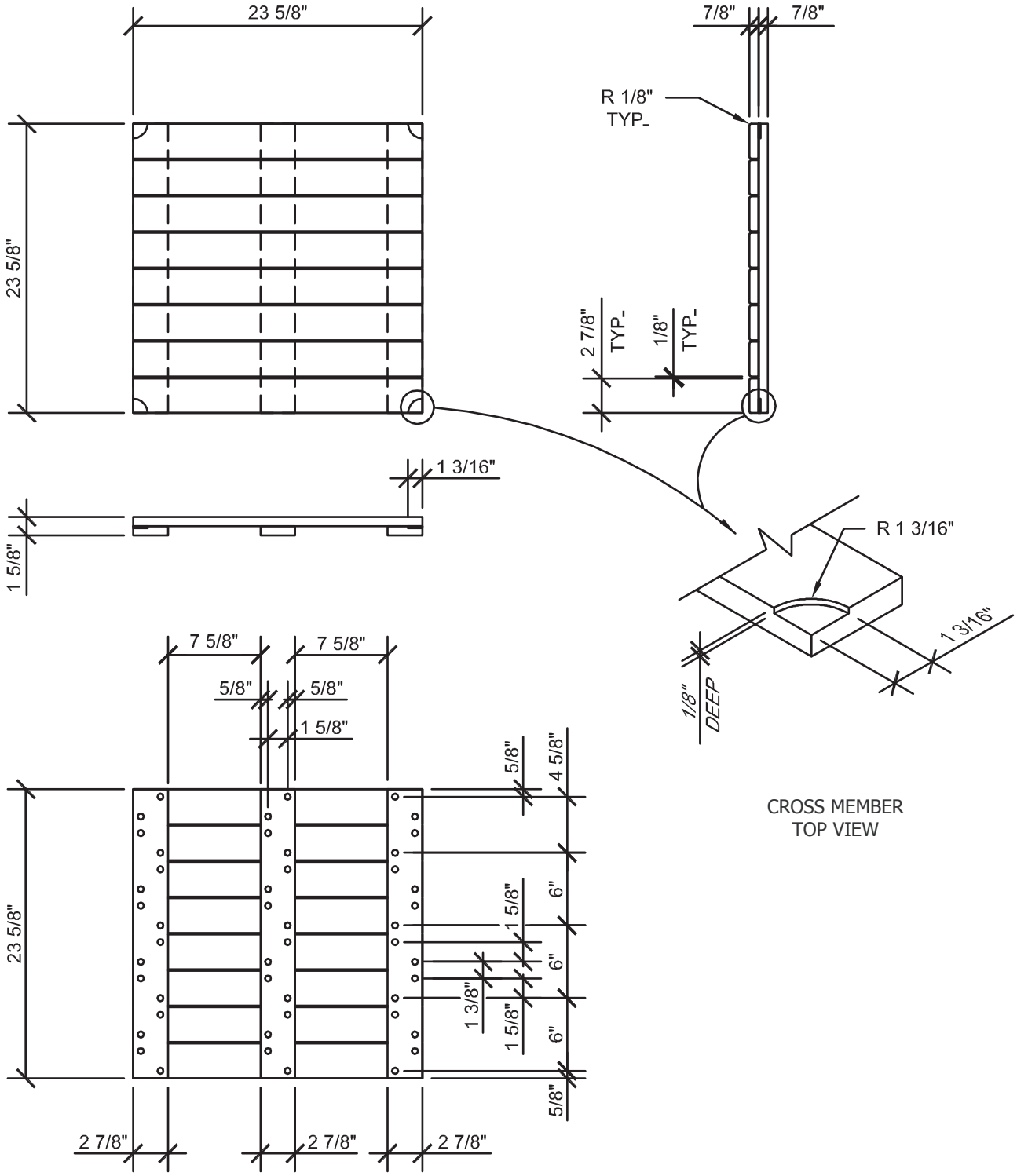
COPYRIGHT 2010-2015 TILE TECH PAVERS INC., ALL RIGHTS RESERVED.

Tile Tech Pavers®
Paving America one step at a time!

National Distribution Tel: 213-380-5560
Toll Free: 888-380-5575 Fax: 213-380-5561

IPE WOOD TILES DETAILS

24″ x 24″ x 1-5/8″



GENERAL NOTES: APPLY TO ALL OF THE ABOVE PRODUCTS

1. INSTALLATION MUST BE COMPLETED IN ACCORDANCE WITH TILE TECH PAVERS PRODUCT SPECIFICATIONS.
2. DRAWING NOT TO SCALE.
3. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.TILETECHPAVERS.COM

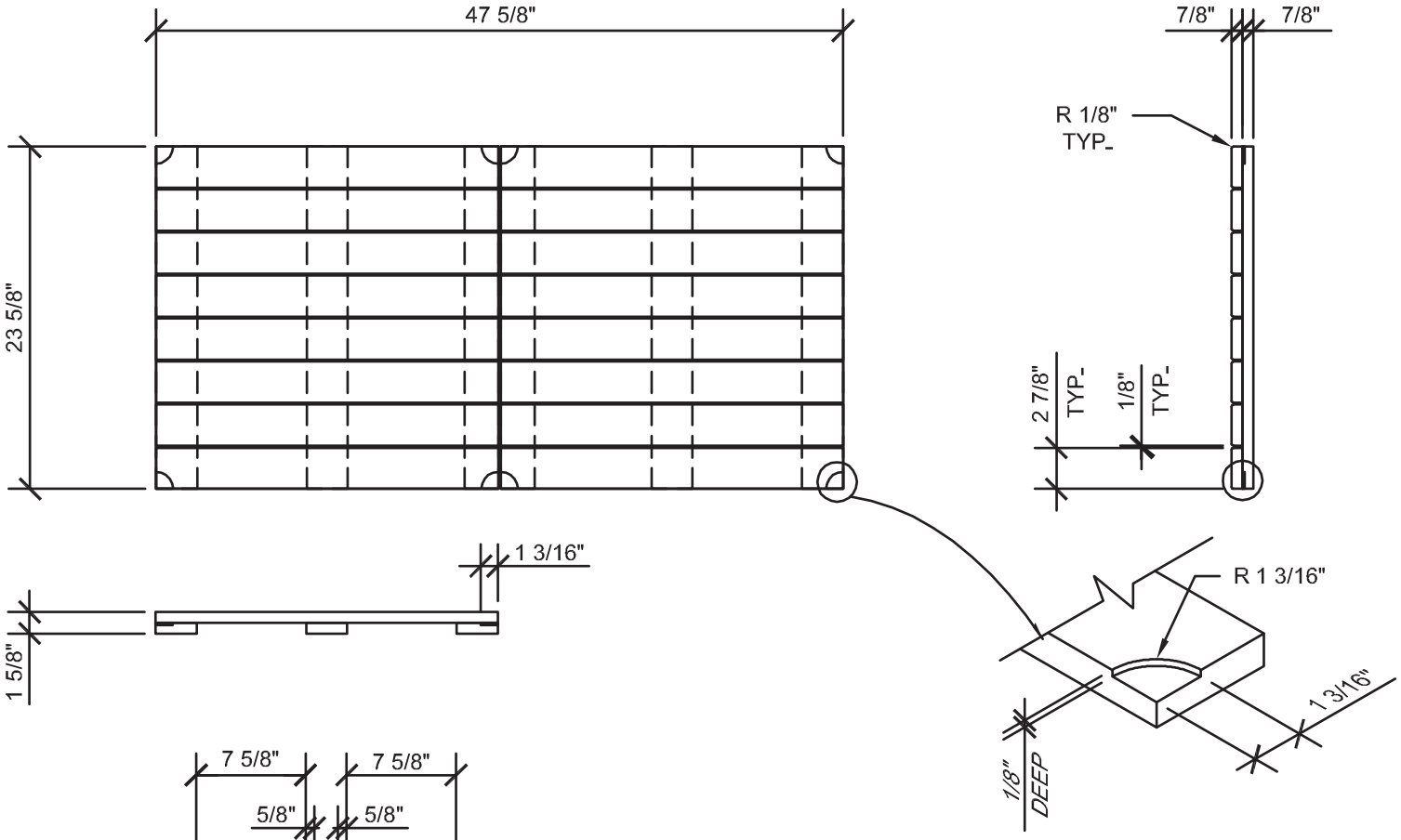
COPYRIGHT 2010-2015 TILE TECH PAVERS INC., ALL RIGHTS RESERVED.

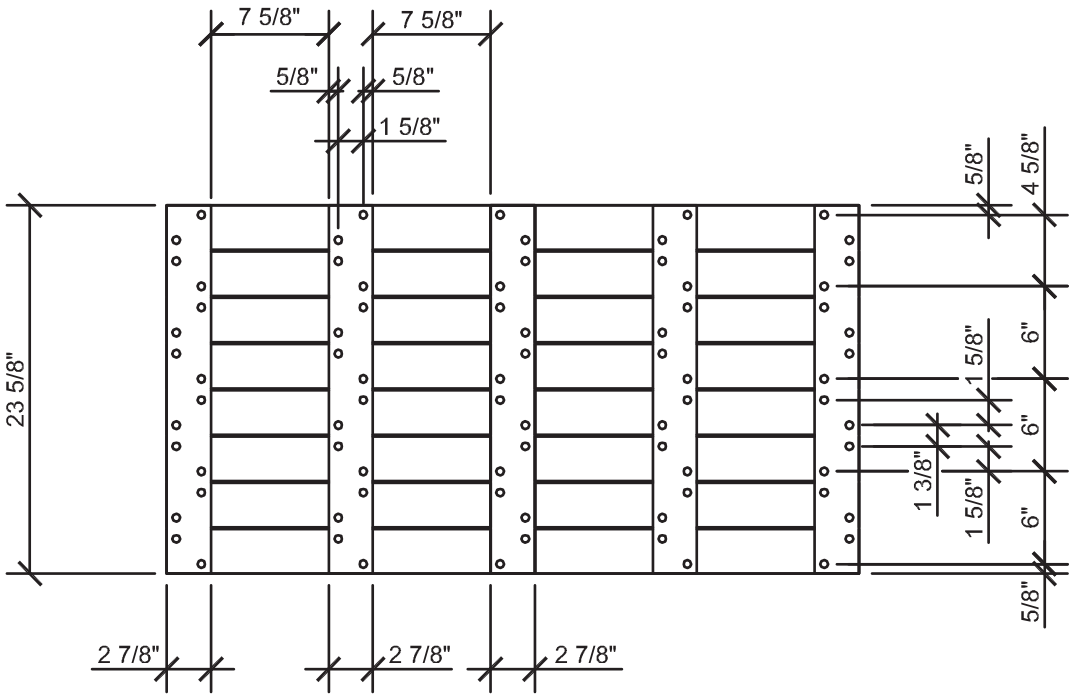
Tile Tech Pavers®
Paving America one step at a time!

National Distribution Tel: 213-380-5560
Toll Free: 888-380-5575 Fax: 213-380-5561

IPE WOOD TILES DETAILS

24″ x 48″ x 1-5/8″





CROSS MEMBER
TOP VIEW

GENERAL NOTES: APPLY TO ALL OF THE ABOVE PRODUCTS

1. INSTALLATION MUST BE COMPLETED IN ACCORDANCE WITH TILE TECH PAVERS PRODUCT SPECIFICATIONS.
2. DRAWING NOT TO SCALE.
3. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.TILETECHPAVERS.COM

COPYRIGHT 2015 TILE TECH INC., ALL RIGHTS RESERVED.

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 Summary

A. Furnish and install a complete IPE Deck Tiles and Adjustable Pedestals deck support system with a maximum cavity height of up to 24 inches. Additional heights beyond 24" can be accomplished subject to consultation with manufacturer and approval by manufacturer.

B. Related Sections include the following:
   1. Division 02 - Section 02780 Unit Pavers
   2. Division 03 - Section 03300 Cast-in-Place Concrete.
   3. Division 06 - Section 06100 Rough Carpentry.
   4. Division 07 - Section 07760 Roof Pavers.
   5. Division 07 - Section 07620 Roof related Metal Work.
   6. Division 07 - Section 07540 Fluid Applied Waterproofing.
   7. Division 07 - Section 07540 Bituminous Sheet Waterproofing.
   8. Division 07 - Section 07760 Roof Pavers.

1.3 REFERENCES

A. American Society for Testing and Materials (ASTM)
   1. ASTM D 638 - Tensile Properties of Plastics
   2. ASTM D 790 - Flexural Properties of Unreinforced and Reinforced Plastics Insulating
   3. ASTM D 1525 -Vicat Softening Temperature of Plastics

1.4 SUBMITTALS

A. Submit under provisions of Section 01300.

B. Samples:
   1. IPE Deck Tiles: Submit samples for type, color and texture required.
   2. Pedestals: Submit sample of each pedestal component.
   3. PVC Pipe: Submit 12-inch long sample of PVC pipe.

B. Shop Drawings: Submitted by contractor showing all components required for the paver & pedestal requirements. Shop drawings shall include plan drawings showing layout of all paver areas and detail drawings showing how the various components of the system fit together. Include manufacturer's literature completely describing all components of the paver pedestal systems and giving detailed installation recommendations and instructions. Also included detailed installation drawings for all IPE Deck Tiles.

1.5 QUALITY ASSURANCE

A. **Manufacturer Qualifications:** All products covered under this Section shall be produced by a single manufacturer unless otherwise specified with a minimum of fifteen (15) years proven production experience.

© 2016 Tile Tech Inc, All Rights Reserved.

B. **Installer Qualifications:** Installer shall have a minimum of three (3) years proven construction experience and be capable of estimating & building from blueprint plans and details, determining elevations, in addition to proper material handling. All Work must comply with Tile Tech, Inc. installation application procedures for pedestal mounted IPE Deck Tiles as specified herein.

C. **Special Consideration:** The installer and or subcontractor must assume the responsibility for and take into consideration (1) the structural capability and adequacy of the structure to carry the dead and live load weight(s) involved, and (2) that the density of any insulation is satisfactory to resist crushing and damaging the waterproofing membrane.

1.6 DELIVERY, STORAGE, AND HANDLING

A. In accordance with provisions of Section 01300.

B. IPE Wood Deck Tiles and Pedestal System during shipment, storage and construction against damage. Store a minimum of 4 inches off the ground in a dry location and cover with polyethylene to protect from contact with materials which would cause staining or discoloration.

1.7 PROJECT CONDITIONS

A. Tile Tech Pedestal System specified are to be used with pedestrian traffic only & all four (4) sides of a deck system must restrain and contain the decking panels with perimeter blocking or walls. Decking panels must not be allowed to move laterally.

B. All membrane waterproofing and protection board surfaces to receive pedestals must be broom clean, frost free, and free of dirt, oil or any rough foreign matter, which may impair the waterproofing / roofing manufacturers guarantee or protection requirements.

C. The substrate that is to receive pedestals must have slope and provide positive and adequate drainage in accordance with good building practice and applicable building codes.

D. **Decks over Roofing and Waterproofing;**

1. If high density closed cell extruded 60psi polystyrene insulation is installed on top of the membrane in a protected membrane system, Tile Tech Pedestals may be installed directly on top of this type of insulation.
2. Do not use Tile Tech Pedestals over any insulation less than 60psi or with <u>low density</u> polystyrene (bead board) insulation.

E. **Decks on Grade:**

1. Any substrate soil that is to receive pedestals shall be adequately compacted and have positive drainage slope. A “walkway gravel” base ie:¼” Minus should be installed and compacted at pedestal locations.
2. A wall or perimeter containment on all open sides is required. Install structural perimeter containment that restrains the entire decking system.

© 2016 Tile Tech Inc, All Rights Reserved.

F. Installation or anticipated installation of additional items on top of the deck such as planters, hot tubs, sculptures, or industrial equipment must be supported directly by additional pedestals that are in addition to the main deck paver/tile pedestal system. Failure to adequately support the additional weight of any such features or items may cause significant damage to the deck, underlying structure, or waterproofing.

1.8 WARRANTIES / GUARANTEES

A. Tile Tech Pedestal System (IPE Deck Tiles and pedestals) shall remain free from defects for a period of Five (5) years. The contractor shall warrant that his work will remain free from defects of labor and materials used in conjunction with his work in accordance with the general conditions for this project or a maximum of three (3) years.

PART 2 – PRODUCTS

2.1 MANUFACTURERS

A. The Paver Pedestal Systems specified herein are based upon products manufactured by:
Tile Tech Inc, 888-380-5575 Phone: (213) 380-5560 Fax: (213) 380-5561
E-mail: sales@tiletechpavers.com Website: www.tiletechpavers.com

B. Paver Pedestal Systems equal in appearance and function and meeting these specifications, will be acceptable when the specified submittals are approved in writing by the Architect prior to bid.

2.2 MATERIALS

A. **IPE DECK TILES:**

1. Type: IPE Wood Deck Tiles.
2. Color: Natural State.
3. Size: Nominal 20”x20”x1-1/2”
   24”x24”x1-5/8”
   24”x48”x1-5/8”
4. Finish: Smooth finished.
5. Weight: 6lb per Sqft.

B. **PEDESTALS:**

1. Stak-Cap™ Pedestals: PVC Pipe & Stack Adjustable
   a. Stack or use SDR35 PVC pipe to accommodate various HEIGHT adjustments of ½” to 8”.
   b. Each cap provides maximum of ½” of HEIGHT and 1% SLOPE. Rotate and stack one cap relative to another to accommodate SLOPE adjustments from 0% to 5%.
   c. Base diameter of 6-inch and top diameter of 5-¼-inch and is ½-inch high.
   d. Made of high impact and flame resistant ABS plastic.
   e. Use of Buffer Pads under Stak-Cap™ Pedestals is MANDATORY.

2. Uni-Just™ Pedestals: PVC Pipe & Screw Adjustable
   a. Assembly consists of 5 parts: Uni-Base™, Uni-Collar™, Uni-Insert™, Uni-Cap™ & Buffer Pads.

© 2016 Tile Tech Inc, All Rights Reserved.

b. Use SDR35 PVC pipe to accommodate various HEIGHT adjustments from 2-½" to 24". Additional precise height adjustment of up to 1-½" with the use of Uni-Insert™ which can screw up or down while loaded. Additional heights beyond 24" can be accomplished subject to consultation with manufacturer and approval by manufacturer.

c. Self-leveling and can tilt in any direction to a level plane to accommodate SLOPE adjustments from 0% to 6%.

d. Base diameter of 7.25-inch with bearing surface area of thirty eight (42) square inches.

e. Made of 100% recycled and flame resistant High Density Polypropylene.

f. Use of Buffer Pads under Uni-Just™ Pedestals is MANDATORY.

3. Uni-Shims™: 1/8-inch & 1/16-inch Thick

a. Can be used whole or broken into halves or quarters and can be stacked up to 2 high.

b. Used on top or under Stak-Cap™ or Uni-Just™ Pedestals for fine leveling of pedestals and or individual IPE Deck Tiles.

c. Made of high impact and flame resistant ABS plastic.

4. IPE Lock Washer & 1-1/4" deck screw (User supplied)

a. Once level, used to lock down the 4 tiles corners and ensure a safe, secure and level surface.

C. **OTHER COMPONENTS: INSTALLER OR USER SUPPLIED**

1. Pedestal Pipe: 4-inch diameter **SDR35 PVC** Sewer Pipe

a. Used with either Stak-Cap™ or Uni-Just™ Pedestals and is cut to required height.

b. Dimensions: 4.215-inch outside diameter & 3.890-inch inside diameter.

c. Meet ASTM D-3034 and F-679.

b. NOT supplied with pedestal components by Tile Tech, Inc..

2. Decking Screw

a. 1-1/4" deck screw used to secure 4 corners of IPE Deck Tiles to pedestal system.

3. Protection Course:

a. Protection board (required over insulated BUR systems, and when specified for use over bituminous asphalt-based waterproofing): W.R. Meadows "Vibraflex" or equal, minimum 3/8- inch thick asphaltic composition protection board.

b. Insulation (when specified): Dow Styrofoam "Highload 100" or equal, minimum compressive strength of 100psi recommended for foam plastic insulation placed beneath Pedestal System to prevent damage to the waterproofing membrane.

c. NOT supplied with pedestal components by Tile Tech.

© 2016 Tile Tech Inc, All Rights Reserved.

2.3 PERIMETER CONTAINMENT AND SUPPORT

A. The complete assembly of insulation (if used), protection board (if used), drainage mat (if used), pedestals and IPE Deck Tiles must be restrained at the perimeter of the deck area.

B. Perimeter parapet walls, concrete dividers or other perimeter restraint must be capable of resisting lateral forces (including seismic and wind). Cumulative movement in excess of 1/8 inch will void the Tile Tech IPE Deck Tiles & Pedestal System warranty.

PART 3 – EXECUTION

3.1 EXAMINATION

A. Prior to starting work inspect the substrate to ensure that it has been properly prepared to accept the Tile Tech Pedestal System. The substrate and or surface shall be clean and free of any projections and debris which may impair the performance of the pedestal and or the deck system. Verify all elevations, required pedestal heights and deck dimensions. Commencement of work shall imply acceptance of surfaces & deck conditions.

B. If preparation is the responsibility of another installer, notify Architect in writing of deviations from manufacturer's recommended installation tolerances and conditions.

3.2 PREPARATION

A. The substrate surface that will receive the Pedestal System must be well compacted (on Grade) or structurally capable of carrying the dead and live loads anticipated.

1. Insulation OVER the membrane: (Option 1) Insulation and/or protection board (if specified) must be applied over the waterproofing substrate and/or specified drainage mat. Install the system according to the membrane manufacturer's recommendations and specifications.

2. Insulation UNDER membrane: (Option 2) Insulation required to be installed within a roofing system below deck supports must meet the roofing membrane manufacturers' specifications and must have a minimum core density of 60psi.

3. Protection Board: (for asphalt type systems used over waterproofing) Full coverage 1/8-inch asphaltic composition protection board is recommended. When protection is specified only under the pedestal cut protection board pads to extend beyond the outside perimeter of the pedestal system base or buffer pad by a minimum of TWO (2) inch.

4. Drainage Mat: (when desired or specified) Install drainage mat according to the manufacturers recommendations to avoid crushing.

3.3 INSTALLATION

A. Install in accordance with Tile Tech, Inc. and other contributing manufacturer's instructions. Installation requirements vary for each individual project site. Decking paver or tile used, pattern, grid layout, starting point, and finished elevation should be shown on plan view shop drawings, which have been prepared and approved by the designer, installing contractor and/or owner.

© 2016 Tile Tech Inc, All Rights Reserved.

B. GRID LAYOUT AND ELEVATIONS:

1. Once the starting point and the finished elevation of the deck surface have been determined, the “Top of Pedestal Elevation” (finished elevation less decking paver or tile thickness) is established and marked around the perimeter using a transit water level or laser leveling device.

2. Precise measurements should be taken and deck area should be accurately defined. Mark off and ‘square up’ all outside edges with control lines using "snapped" chalk lines. Mark two (2) lines that are perpendicular to each other across the deck area. Continue to mark a grid of lines in both directions marking the location of each pedestal. Use the control lines as references to periodically check and assure a square layout during installation.

3. Next, a pedestal must be placed where each measured grid line meets the perimeter. Remove two (2) spacer tabs in line with one another atop each pedestal system placed around the perimeter. Remove all four (4) spacer tabs at corners.

4. Adjust each pedestal height to the “Top of Pedestal Elevation” marked on the perimeter. Position the pedestal as close to the edge of the perimeter as possible, with the two remaining spacer tabs aligned with the grid line. Using the elevation marked on the perimeter, stretch a mason’s line along and slightly ahead of the second row of pedestals. A laser leveling device may also be used for this purpose.

5. On larger decks, it is recommended that Tile Tech Pedestal System be pre-assembled and pre-set to the proper elevation and placed in position prior to the installation of decking paver or tile.

6. As the pedestals located along the grid lines are loaded with IPE Deck Tiles, fine vertical height adjustment can be made by inserting and rotating, from the top, a T-handle Key in to the Uni-Insert™ of the Pedestal assembly. Clockwise rotation of the Uni-Insert™ will raise the bearing surface and the deck. Counter-clockwise rotation will lower the top bearing surface and deck.

7. Always maintain adequate thread engagement. Tile Tech Pedestal Uni-Insert™ contains a locking tab that will not allow the screw to extend past its maximum extension. Never use if the locking tab is broken. If the height required goes beyond the Uni-Insert™ limit re-cut PVC pipe to the correct height and re-assemble the pedestal using the correct size pipe.

8. Slight irregularities in decking paver or tile thickness can be compensated for by using one (1) to two (2) shim segments. Place on top of the pedestal, under the corner(s) of the decking paver or tile. Use no more than two (2) shims on top of the pedestal and always adhere quartered (1/4) wedges with construction adhesive.

© 2016 Tile Tech Inc, All Rights Reserved.

9. Stak-Cap™ Pedestal can be used for limited and or fixed height requirements. Complete deck and grid layout as instructed above. Stack no more than five (5) fixed height Stak-Cap™ Pedestals together and place in lieu of Uni-Just™ Pedestals where needed. Stak-Cap™ Pedestal can also be used with PVC pipe to reduce cost. Spacer tabs can be removed to accommodate perimeter and corner support locations.

C. SLOPE AND HEIGHT COMPENSATION:

1. Stak-Cap™ Pedestals can provide limited slope and height compensation to maintain a level decking surface over sloping substrates and is accomplished using a combination of the following:
   a. Rotate and stack one cap in relation to another to change slope and add height. Each cap will add ½-inch of height and provide 1% slope. Stack no more than 5 caps.
   b. Can also be used with PVC Pipe cut to required height of maximum of 6-inches.

2. Uni-Just™ Pedestals can provide both slope and height compensation to maintain a level decking surface over sloping substrates and is accomplished using a combination of the following:
   a. PVC Pipe cut to varying lengths to compensate for GENERAL height requirements.
   b. SCREW extension for PRECISE height adjustment.
   c. Self-Leveling cap pivots and tilts in any direction for slope compensation from 0% to 6%.

3. Tile Tech Pedestals are designed to be rotated for final precise adjustment when they are fully loaded. Pedestals should be leveled in each succeeding row as the installation proceeds. Final height adjustment or maintenance is easily made by simply using a T-handle Key that allows you to adjust the pedestals without removing the IPE Deck Tiles. T-handle Key is inserted between the four paver corners to engage Uni-Insert™ portion and is adjusted clockwise or counter clockwise to level as needed.

4. Uni-Shims™ may be used in multiples, whole or quarters, and placed under the pedestal base or on top the pedestal cap to level pedestals. Use a small amount of construction adhesive to adhere sections of shims and/or whole shims to each other or to the pedestal. DO NOT use construction adhesive to adhere pedestal or shims to insulation, roofing or waterproofing membrane. Additional sections of shims may be used and should be available for regular maintenance.

5. Once level, IPE Lock Washer must be used so secure the tiles to the pedestal system. Insert special washer in to the slot in the corners of 3 tiles than install the 4th tile. Screw down the washer with 1-1/4” deck screw, locking down the 4 tiles corners and ensure a safe, secure and level surface.

© 2016 Tile Tech Inc, All Rights Reserved.

3.4 PERIMETER CONTAINMENT

A. Any area of the pedestal deck that is not restrained by a parapet or foundation wall must be 'boxed-in' and contained. The deck panels will move if all sides are not adequately restrained. Perimeter framing and edging boards located at the outside of the deck perimeter must be installed to provide restraint. No movement should be allowed at the perimeter of the deck system greater than one tab width.

3.5 FIELD QUALITY CONTROL

A. Inspect often during installation to assure that grid spacer lines are being maintained in a straight and consistent pattern and that IPE Deck Tiles are level and not rocking. Unless otherwise specified in writing to allow for expansion, inspect to assure that all paver spacing between tiles and at perimeter walls does not exceed a tab width. Particular attention should be made to assure that all pedestrian entry or access points to the deck are level and that the deck surface tiles are not randomly raised or uneven creating a tripping or safety hazard. Confirm that deck pedestal height excess of sixteen (16) inches have been braced in accordance with Tile Tech, Inc. written instructions.

3.6 ROUTINE MAINTENANCE AND CARE

A. The deck owner must perform routine maintenance of the deck. Check for rocking IPE Deck Tiles and adjust using T-Handle Key or shim immediately. Pedestals can settle and may have to be realigned. Failure to do so can cause a tripping hazard. Periodically check spacer tabs and immediately replace broken tabs to limit deck movement. Make sure the edge restraint stays intact and structurally sound.

B. IPE Wood will naturally fade to a silvery grey patina, in addition to small amount of checking and splitting when exposed to UV sunlight. The rate and degree of this fading & weathering will depends largely on the amount and severity of exposure to direct sunlight, the climatic conditions such as snow and ice. We recommend soon after installation, the application of high quality decking oil specifically IPE oil with UV inhibitor to slow the rate of this natural fading and minimize checking (small cracking) and splitting due to loss of moisture on the top of the wood slats.

B. Extra Materials: Deliver supply of maintenance materials to the owner. Furnish not less than 1 percent maintenance materials from same lot as materials installed, and enclosed in protective packaging with appropriate identifying labels.

END OF SECTION 07760
IPE DECK TILES AND PEDESTALS

© 2016 Tile Tech Inc, All Rights Reserved.

Hurricane Resistant Product
Blast Mitigation Product

Features

- IR 500/501 is 5" (127) deep and has a 2-1/2" (63.5) sightline {Expansion mullions have a 2-3/4" (69.9) sightline}
- Screw Spline fabrication
- Center glazed
- Outside glazed with internal silicone seal
- IR 500 glazing options are 9/16" (14.3), 5/8" (15.9), and 1/4" (6.4) (non-impact)
- IR 501 glazing options are 1-5/16" (33.3) and 1" (25.4) (non-impact)
- Permanodic® anodized finishes option
- Painted finishes in standard and custom choices

Optional Features

- Integrated entrance framing
- 350/500 IR - single or pairs of entrances
- Profit$Maker® Plus die sets

Product Applications

- Impact resistant
- Blast mitigation
- Storefront, ribbon window or punched opening
- Low to mid-rise
- Single span

Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

© 2012, Kawneer Company, Inc.

For specific product applications,
consult your Kawneer representative.

Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

© 2012, Kawneer Company, Inc.

Hurricane Resistant Product
Blast Mitigation Product

Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

HURRICANE RESISTANT FRAMING DETAILS
IR 500 BASIC FRAMING DETAILS 4
IR 500 ENTRANCE FRAMING DETAILS..... 5-6
IR 500 MISCELLANEOUS FRAMING..... 7
IR 501 BASIC FRAMING DETAILS 8
IR 501 ENTRANCE FRAMING DETAILS..... 9-10
IR 501 MISCELLANEOUS FRAMING.....11
BLAST MITIGATION FRAMING DETAILS
IR 501 BASIC FRAMING DETAILS 12
IR 501 ENTRANCE FRAMING DETAILS..... 13-14
IR 500 WINDLOAD CHARTS 15-19
IR 501 WINDLOAD CHARTS 20-21
IR 500 / 501 DEADLOAD CHARTS..... 22-24
IR 501 THERMAL CHARTS 25-28

Metric (SI) conversion figures are included throughout these details for reference. Numbers in parentheses ( ) are millimeters unless otherwise noted.

The following metric (SI) units are found in these details:

m – meter
cm – centimeter
mm – millimeter
s – second
Pa – pascal
MPa – megapascal

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2012, Kawneer Company, Inc.

IR 500 Framing

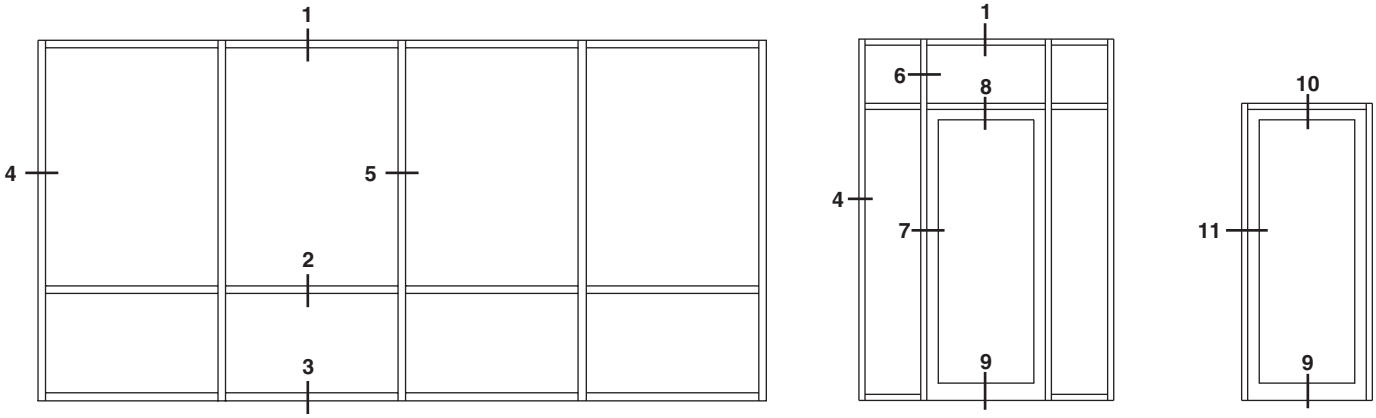
FEBRUARY, 2023

BASIC FRAMING DETAILS

EC 97911-282

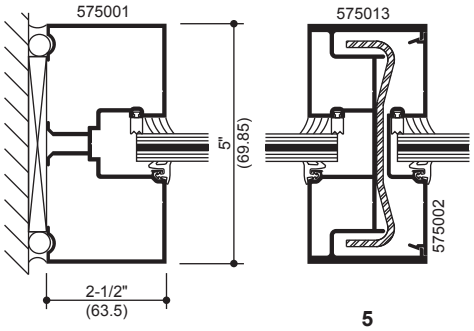
Hurricane Resistant Product

Additional information and CAD details are available at www.kawneer.com

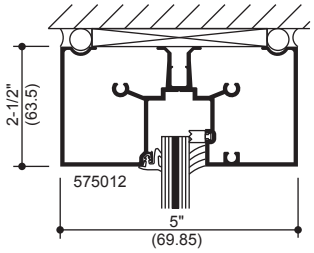


ELEVATION IS NUMBER KEYED TO DETAILS

9/16" INFILL

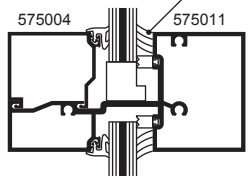


4 JAMB **5 VERTICAL**

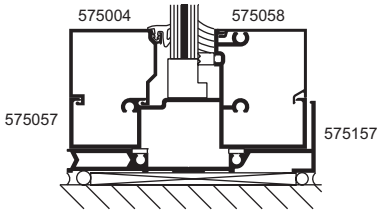


1 HEAD

Structural Silicone Sealant (by Others)*

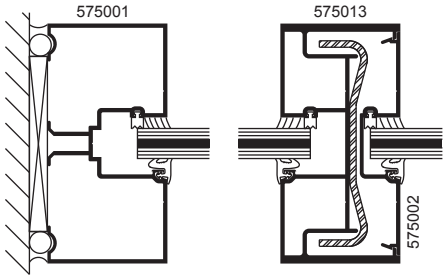


2 HORIZONTAL

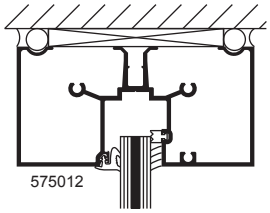


3 SILL

5/8" INFILL

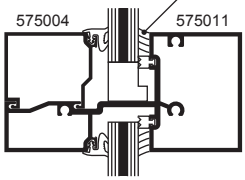


4 JAMB **5 VERTICAL**

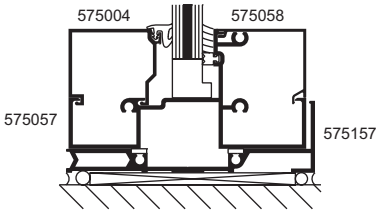


1 HEAD

Structural Silicone Sealant (by Others)*

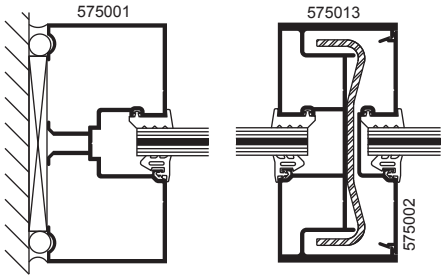


2 HORIZONTAL

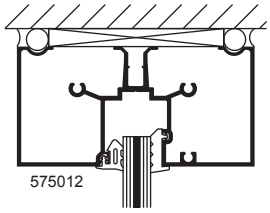


3 SILL

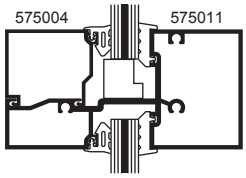
9/16" INFILL (DRY-GLAZED)



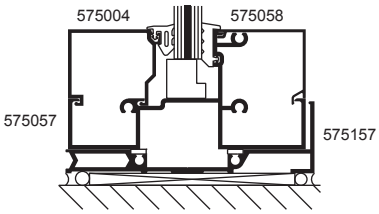
4 JAMB **5 VERTICAL**



1 HEAD



2 HORIZONTAL



3 SILL

*** INSTALLER NOTE:** Installer is responsible for all required compatibility review and approvals with the Structural Silicone Manufacturer and the Insulated Glass Unit Manufacturers.

Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

© 2012, Kawneer Company, Inc.

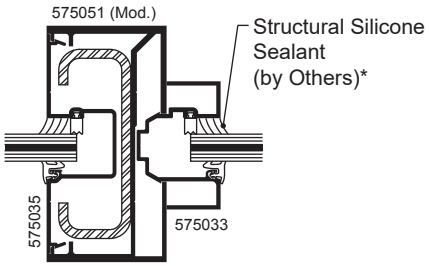
IR 500 Framing

ENTRANCE FRAMING DETAILS

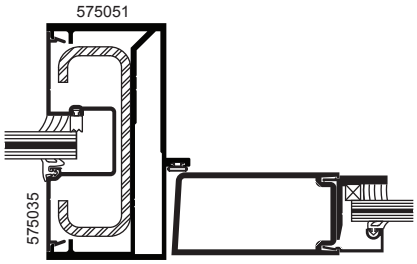
Hurricane Resistant Product

Additional information and CAD details are available at www.kawneer.com

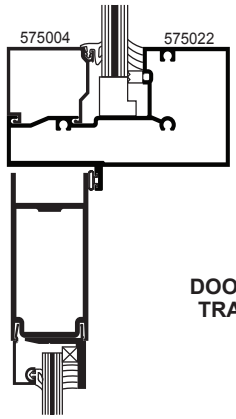
9/16" INFILL



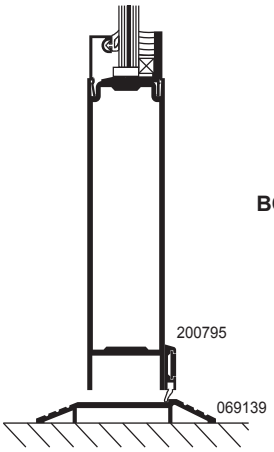
6
DOOR JAMB AT TRANSOM



7
DOOR JAMB

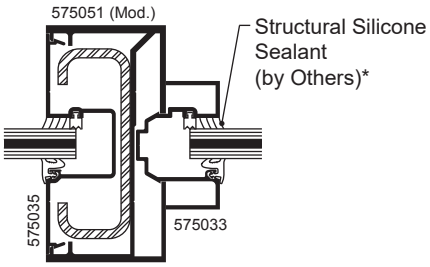


8
DOOR WITH TRANSOM

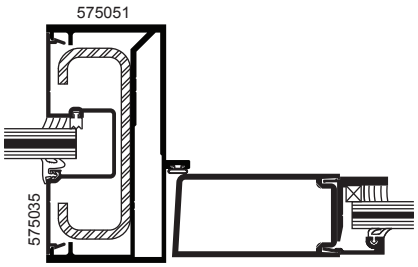


9
BOTTOM RAIL

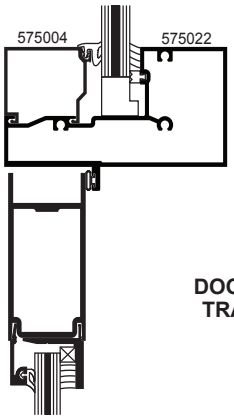
5/8" INFILL



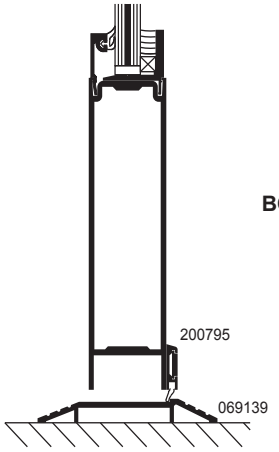
6
DOOR JAMB AT TRANSOM



7
DOOR JAMB

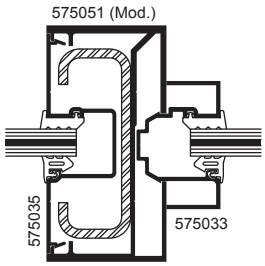


8
DOOR WITH TRANSOM

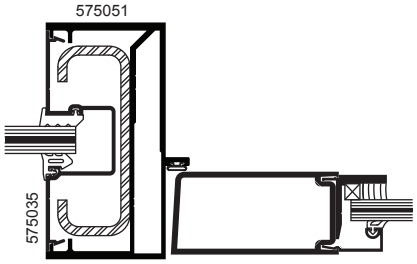


9
BOTTOM RAIL

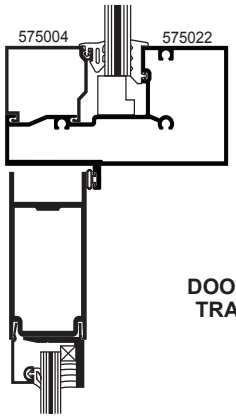
9/16" INFILL (DRY-GLAZED)



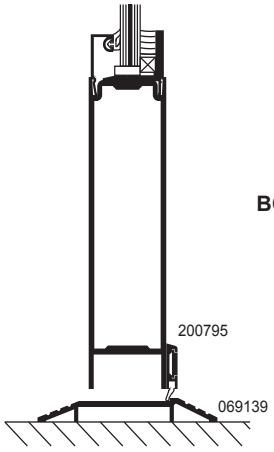
6
DOOR JAMB AT TRANSOM



7
DOOR JAMB



8
DOOR WITH TRANSOM



9
BOTTOM RAIL

*** INSTALLER NOTE:** Installer is responsible for all required compatibility review and approvals with the Structural Silicone Manufacturer and the Insulated Glass Unit Manufacturers.

Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

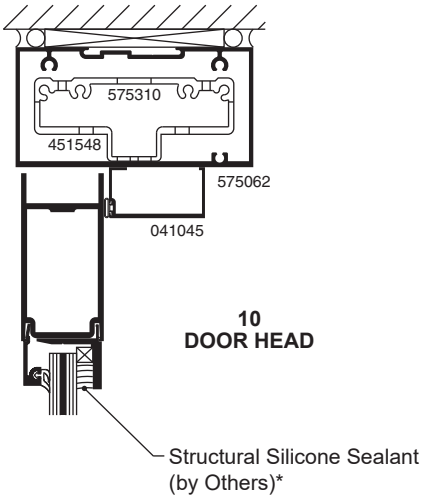
© 2012, Kawneer Company, Inc.

IR 500 Framing

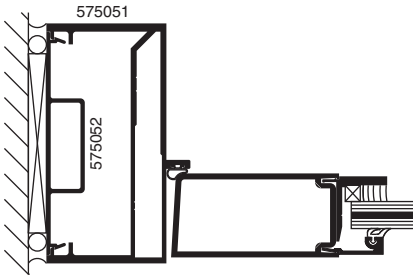
ENTRANCE FRAMING DETAILS

Hurricane Resistant Product

Additional information and CAD details are available at www.kawneer.com



10
DOOR HEAD



11
DOOR JAMB

*** INSTALLER NOTE:** Installer is responsible for all required compatibility review and approvals with the Structural Silicone Manufacturer and the Insulated Glass Unit Manufacturers.

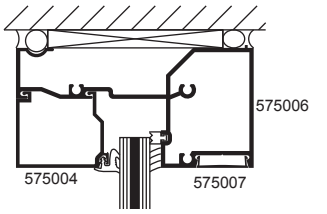
Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

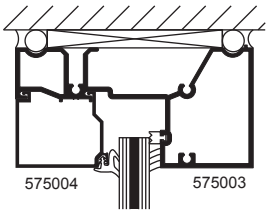
Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

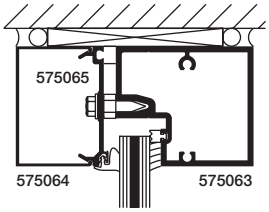
© 2012, Kawneer Company, Inc.

Hurricane Resistant Product

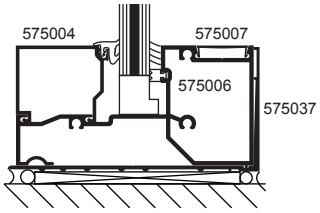
Additional information and CAD details are available at www.kawneer.com

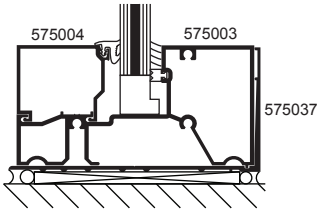




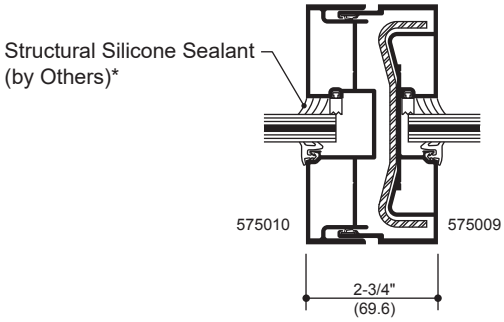


OPTIONAL RADIUS HEAD

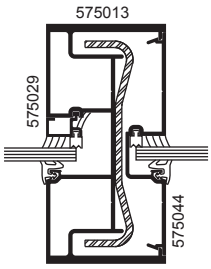




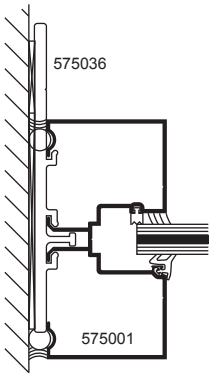
OPTIONAL HEAD & SILL (FOR CONCEALED PERIMETER FASTENERS)

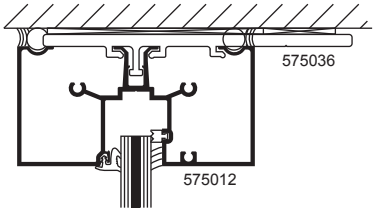


EXPANSION MULLION



1/4" INFILL (NON-IMPACT) GLAZING ADAPTOR





STRAP ANCHORS

*** INSTALLER NOTE:** Installer is responsible for all required compatibility review and approvals with the Structural Silicone Manufacturer and the Insulated Glass Unit Manufacturers.

Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

© 2012, Kawneer Company, Inc.

IR 501 Framing

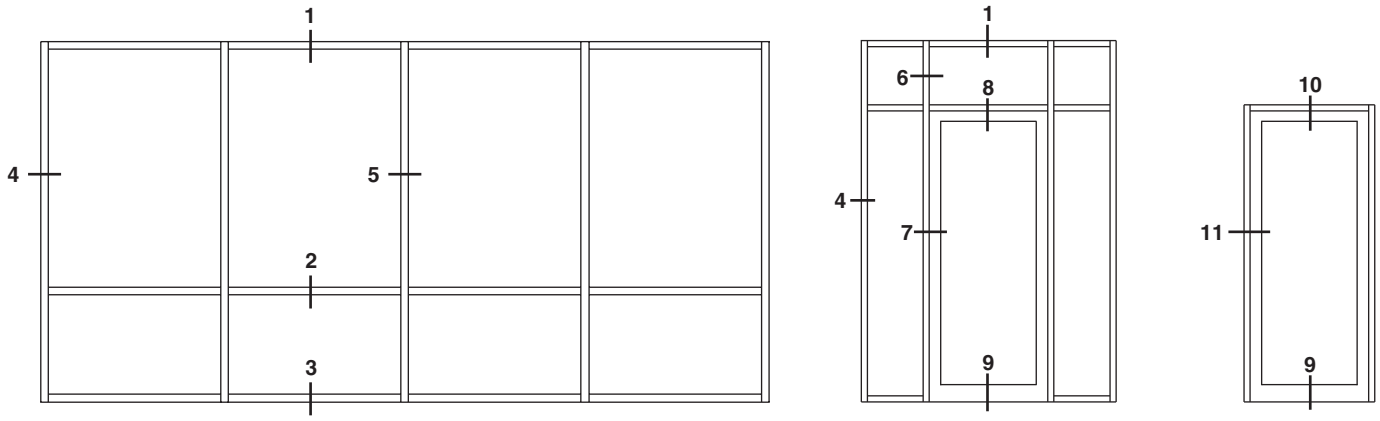
FEBRUARY, 2023

BASIC FRAMING DETAILS

EC 97911-282

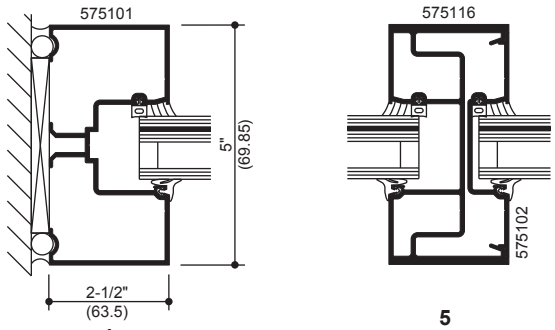
Hurricane Resistant Product

Additional information and CAD details are available at www.kawneer.com



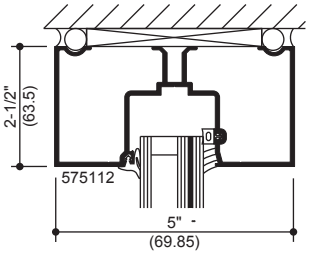
ELEVATIONS ARE NUMBER KEYED TO DETAILS

1-5/16" INFILL (WET GLAZED)

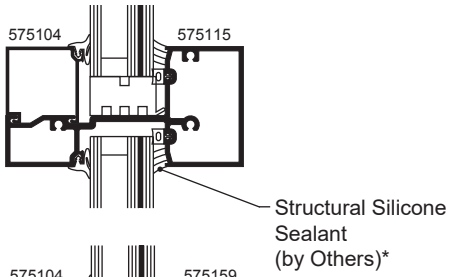


4 JAMB **5 VERTICAL**

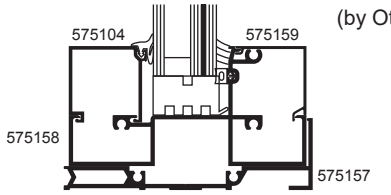
1 HEAD



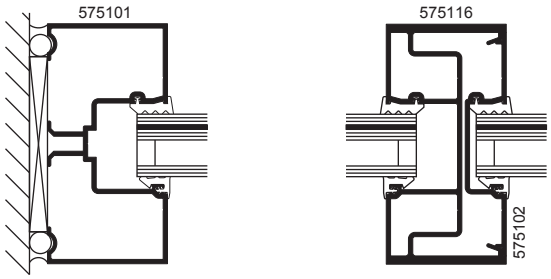
2 HORIZONTAL



3 SILL

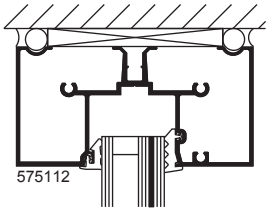


1-5/16" INFILL (DRY GLAZED)

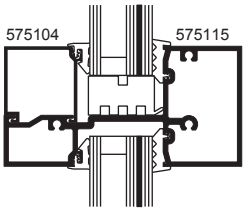


4 JAMB **5 VERTICAL**

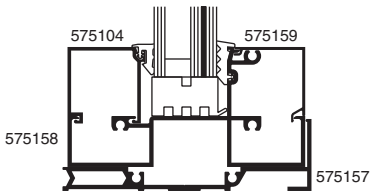
1 HEAD



2 HORIZONTAL



3 SILL



*** INSTALLER NOTE:** Installer is responsible for all required compatibility review and approvals with the Structural Silicone Manufacturer and the Insulated Glass Unit Manufacturers.

Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

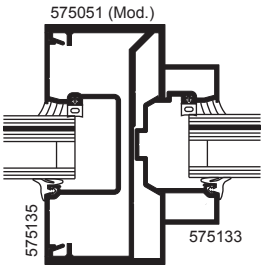
Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

© 2012, Kawneer Company, Inc.

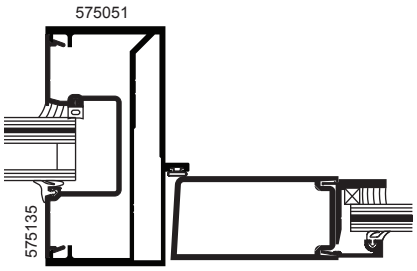
Hurricane Resistant Product

Additional information and CAD details are available at www.kawneer.com

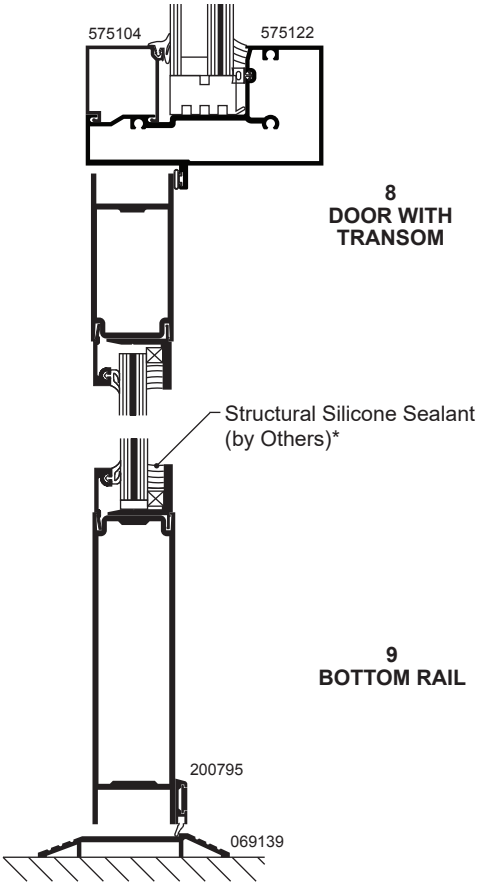
1-5/16" INFILL (WET GLAZED)



6
DOOR JAMB AT TRANSOM



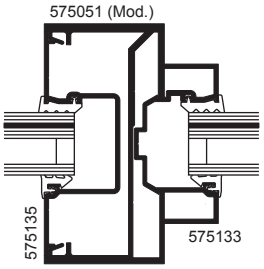
7
DOOR JAMB



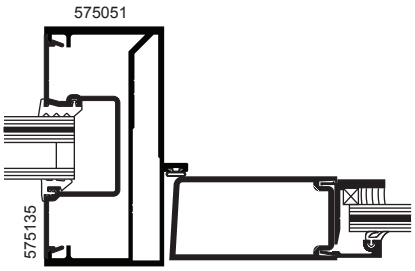
8
DOOR WITH TRANSOM

9
BOTTOM RAIL

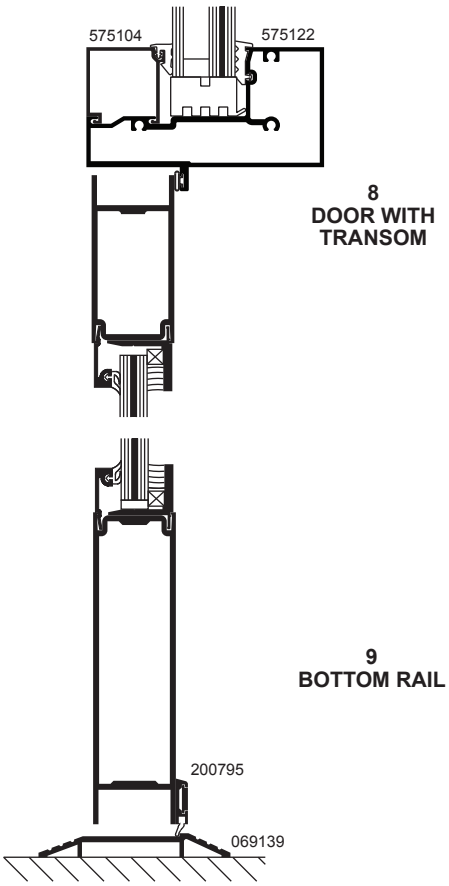
1-5/16" INFILL (DRY GLAZED)



6
DOOR JAMB AT TRANSOM



7
DOOR JAMB



8
DOOR WITH TRANSOM

9
BOTTOM RAIL

*** INSTALLER NOTE:** Installer is responsible for all required compatibility review and approvals with the Structural Silicone Manufacturer and the Insulated Glass Unit Manufacturers.

Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

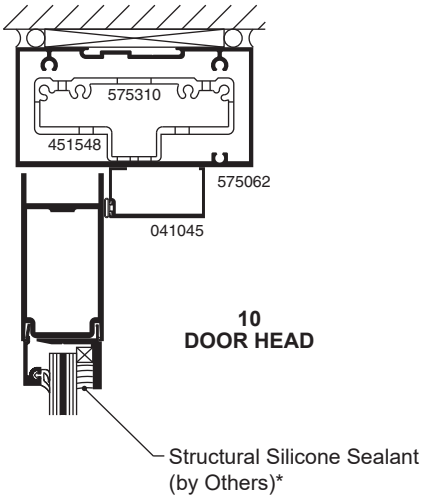
© 2012, Kawneer Company, Inc.

IR 501 Framing

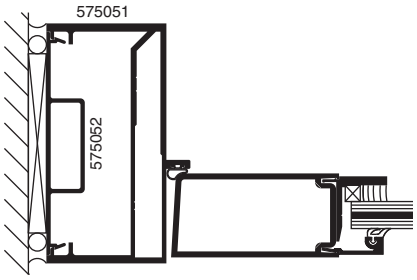
ENTRANCE FRAMING DETAILS

Hurricane Resistant Product

Additional information and CAD details are available at www.kawneer.com



10
DOOR HEAD



11
DOOR JAMB

*** INSTALLER NOTE:** Installer is responsible for all required compatibility review and approvals with the Structural Silicone Manufacturer and the Insulated Glass Unit Manufacturers.

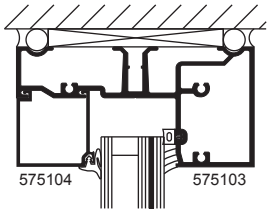
Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

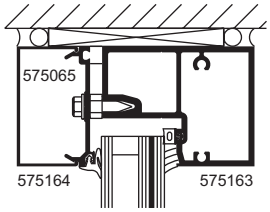
© 2012, Kawneer Company, Inc.

Hurricane Resistant Product

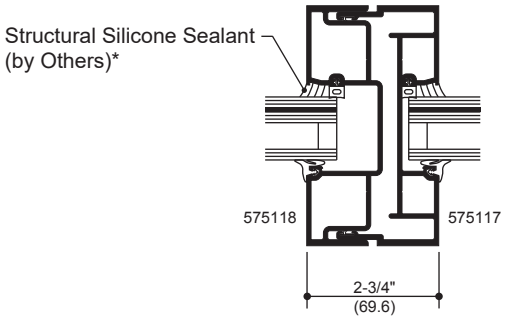
Additional information and CAD details are available at www.kawneer.com



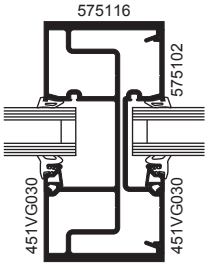
OPTIONAL HEAD WITH STOP



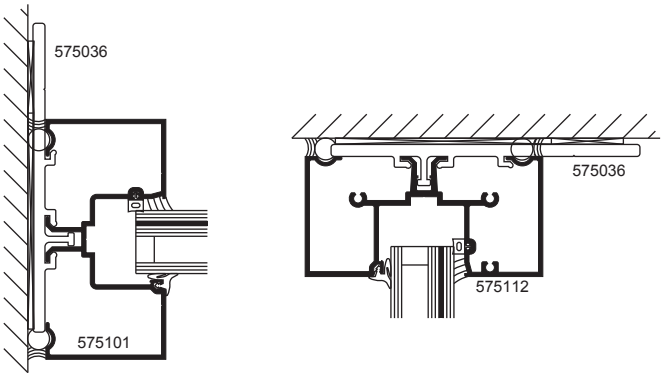
OPTIONAL RADIUS HEAD



EXPANSION MULLION



1" INFILL (NON-IMPACT) GLAZING ADAPTOR



STRAP ANCHORS

*** INSTALLER NOTE:** Installer is responsible for all required compatibility review and approvals with the Structural Silicone Manufacturer and the Insulated Glass Unit Manufacturers.

Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

© 2012, Kawneer Company, Inc.

IR 501 Framing

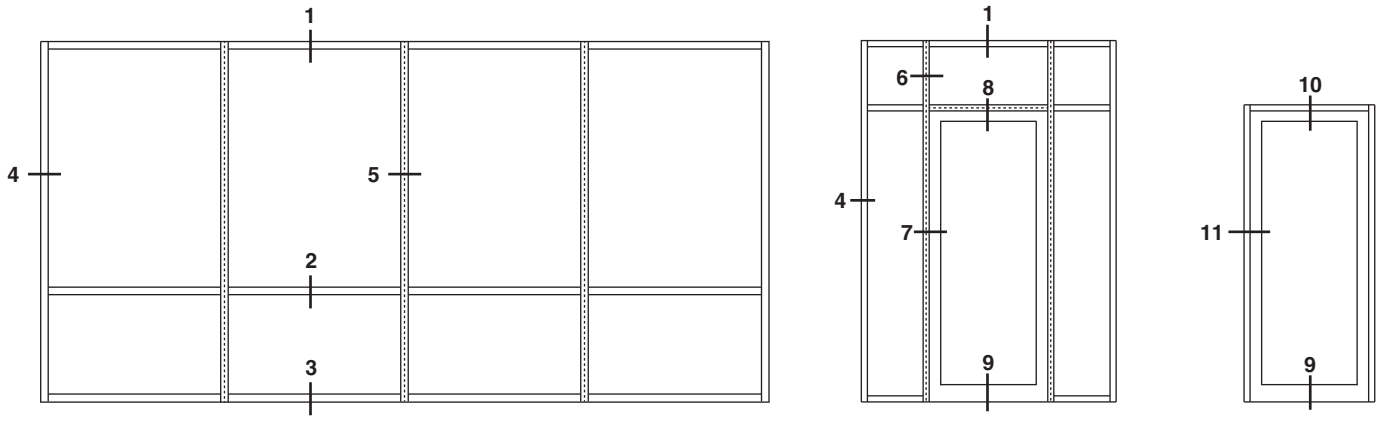
FEBRUARY, 2023

BASIC FRAMING DETAILS

EC 97911-282

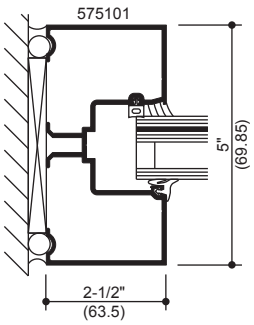
Blast Mitigation Product

Additional information and CAD details are available at www.kawneer.com

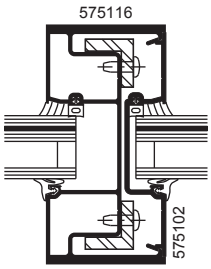


ELEVATIONS ARE NUMBER KEYED TO DETAILS

1-5/16" INFILL (WET GLAZED)

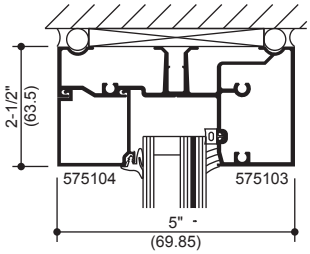


4 JAMB

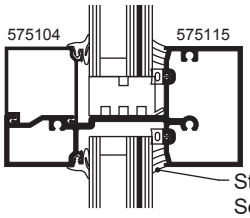


5 VERTICAL

1 HEAD

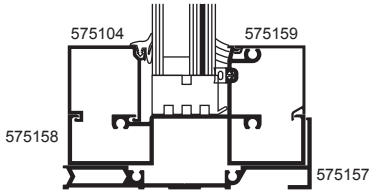


2 HORIZONTAL

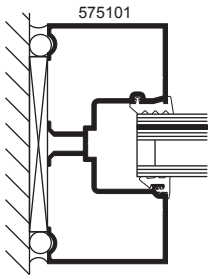


Structural Silicone Sealant (by Others)*

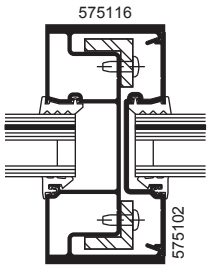
3 SILL



1-5/16" INFILL (DRY GLAZED)

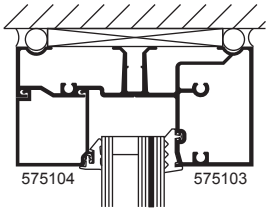


4 JAMB

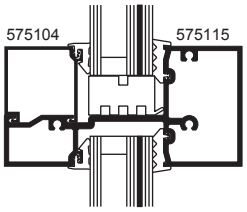


5 VERTICAL

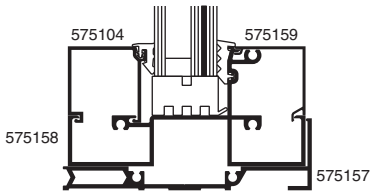
1 HEAD



2 HORIZONTAL



3 SILL



*** INSTALLER NOTE:** Installer is responsible for all required compatibility review and approvals with the Structural Silicone Manufacturer and the Insulated Glass Unit Manufacturers.

Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

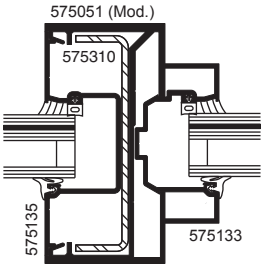
Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

© 2012, Kawneer Company, Inc.

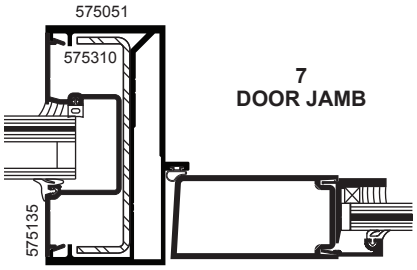
Blast Mitigation Product

Additional information and CAD details are available at www.kawneer.com

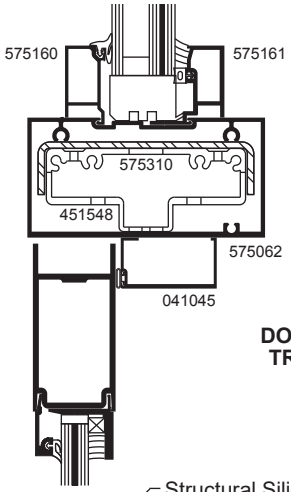
1-5/16" INFILL (WET GLAZED)



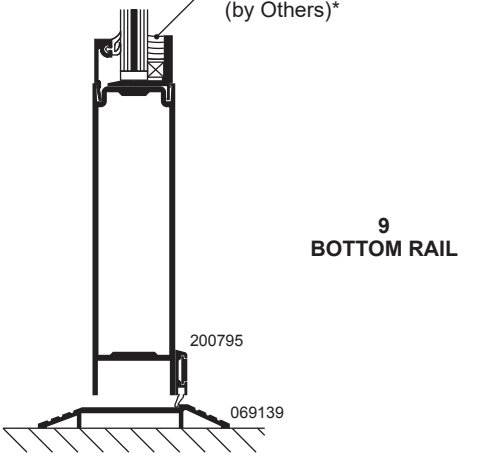
6
DOOR JAMB AT TRANSOM



7
DOOR JAMB

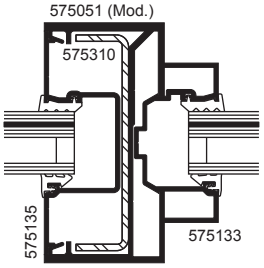


8
DOOR WITH TRANSOM

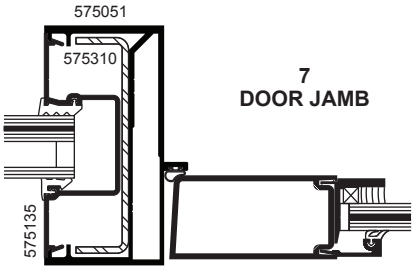


9
BOTTOM RAIL

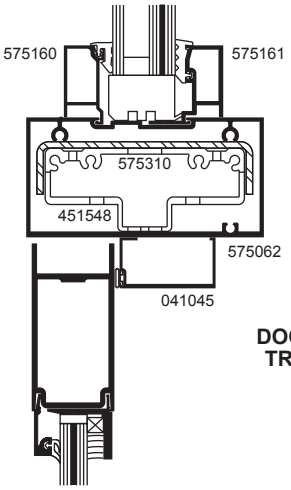
1-5/16" INFILL (DRY GLAZED)



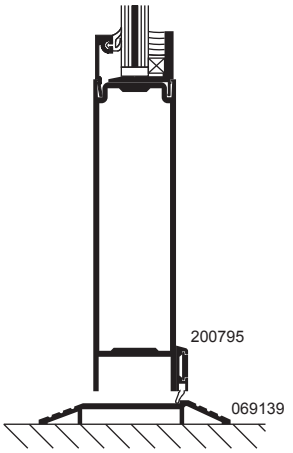
6
DOOR JAMB AT TRANSOM



7
DOOR JAMB



8
DOOR WITH TRANSOM



9
BOTTOM RAIL

*** INSTALLER NOTE:** Installer is responsible for all required compatibility review and approvals with the Structural Silicone Manufacturer and the Insulated Glass Unit Manufacturers.

Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

© 2012, Kawneer Company, Inc.

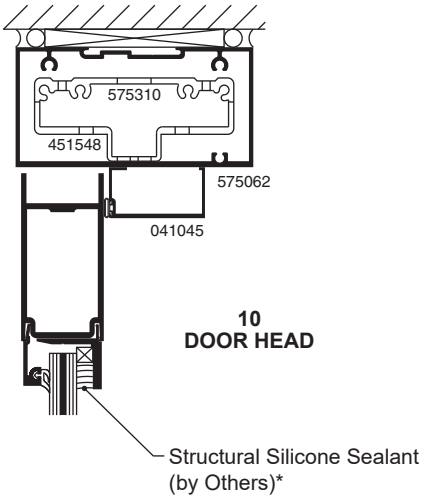
IR 501 Framing

ENTRANCE FRAMING DETAILS

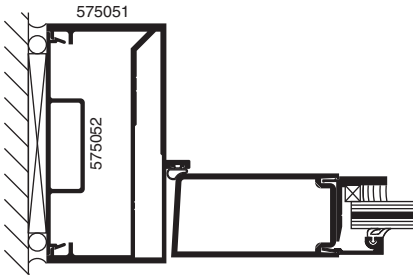
EC 97911-282

Blast Mitigation Product

Additional information and CAD details are available at www.kawneer.com



10
DOOR HEAD



11
DOOR JAMB

*** INSTALLER NOTE:** Installer is responsible for all required compatibility review and approvals with the Structural Silicone Manufacturer and the Insulated Glass Unit Manufacturers.

Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

© 2012, Kawneer Company, Inc.

Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

WIND LOAD CHARTS

Mullions are designed for deflection limitations in accordance with AAMA TIR-A11 of L/175 up to 13' 6" and L/240 +1/4" above 13' 6". These curves are for mullions WITH HORIZONTALS and are based on engineering calculations for stress and deflection. Allowable wind load stress for ALUMINUM 15,152 psi (104 MPa), STEEL 30,000 psi (207 MPa). Charted curves, in all cases are for the limiting value. Wind load charts contained herein are based upon nominal wind load utilized in allowable stress design. A conversion from Load Resistance Factor Design (LRFD) is provided. To convert ultimate wind loads to nominal loads, multiply ultimate wind loads by a factor of 0.6 per ASCE/SEI 7. A 4/3 increase in allowable stress has not been used to develop these curves. For special situations not covered by these curves, contact your Kawneer representative for additional information.

Note:
If the end reaction of the mullion [mullion spacing (ft.) times height (ft.) times specified wind load (psf) divided by two] is more than 500 lbs., the optional Mullion Anchors must be used. Consult Application Engineering. (Mullion Anchor not used with Lightweight Receptor.)

DEADLOAD CHARTS

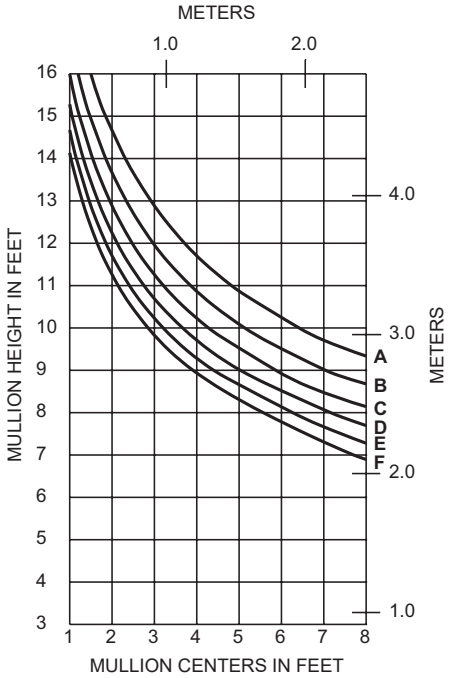
Horizontal or deadload limitations are based upon 1/8" (3.2), maximum allowable deflection at the center of an intermediate horizontal member. The accompanying charts are calculated for 9/16" (14.3) or 5/8" (15.9) thick impact resistant glass or 1-5/16" (33.3) thick insulated impact resistant glass supported on two setting blocks placed at the loading points shown.

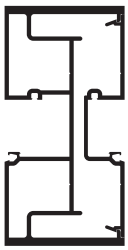
Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2012, Kawneer Company, Inc.

Hurricane Resistant Product

	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	40 PSF (1920)	67 PSF (3200)
B =	50 PSF (2400)	83 PSF (4000)
C =	60 PSF (2880)	100 PSF (4790)
D =	70 PSF (3360)	117 PSF (5600)
E =	80 PSF (3830)	133 PSF (6380)
F =	90 PSF (4310)	150 PSF (7200)

575013 & 575002 WITH HORIZONTALS

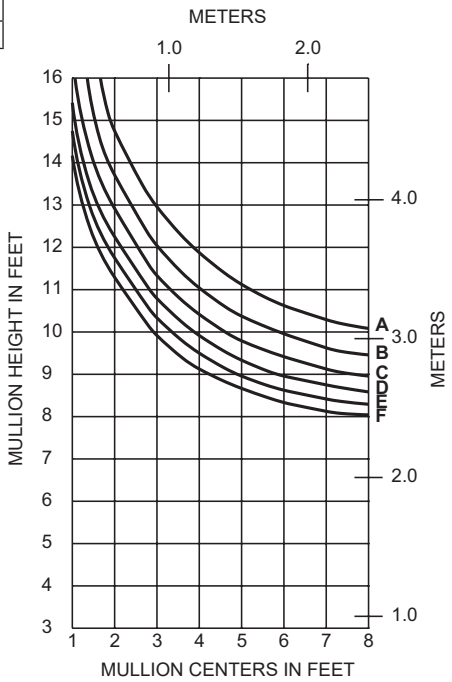




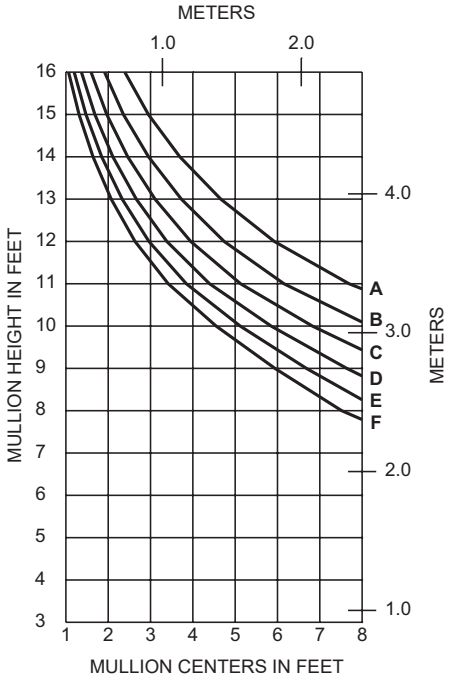
575013/575002

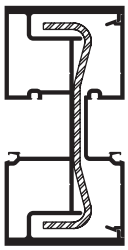
I_A = 8.422 in^4 (350.55 x 10^4 mm^4)
S_A = 3.363 in^3 (55.11 x 10^3 mm^3)

575013 & 575002 WITHOUT HORIZONTALS



575013 & 575002 AND 575110 STEEL WITH HORIZONTALS



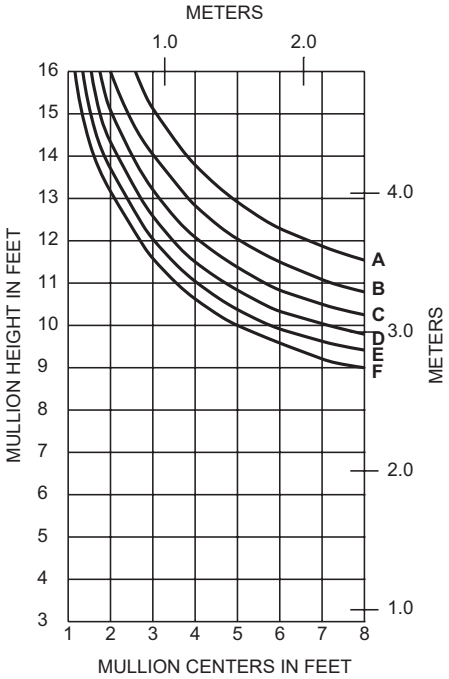


575013/575002 AND 575110 STEEL

I_A = 8.422 in^4 (350.55 x 10^4 mm^4)
S_A = 3.363 in^3 (55.11 x 10^3 mm^3)

I_S = 1.729 in^4 (71.97 x 10^4 mm^4)
S_S = 0.808 in^3 (13.24 x 10^3 mm^3)

575013 & 575002 AND 575110 STEEL WITHOUT HORIZONTALS



Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

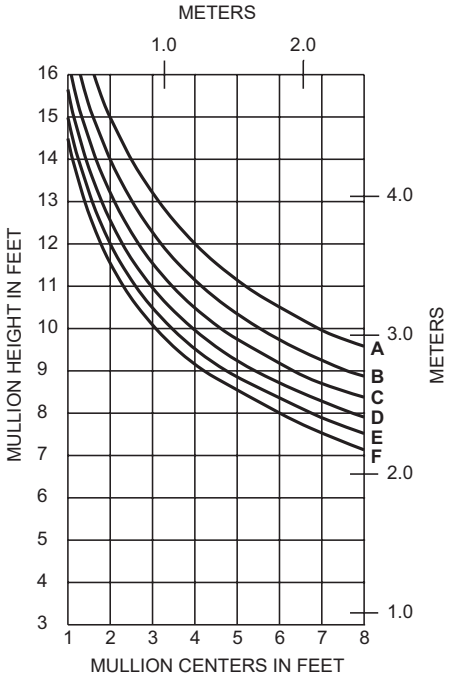
Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

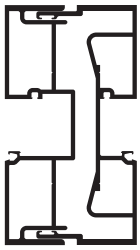
© 2012, Kawneer Company, Inc.

Hurricane Resistant Product

	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	40 PSF (1920)	67 PSF (3200)
B =	50 PSF (2400)	83 PSF (4000)
C =	60 PSF (2880)	100 PSF (4790)
D =	70 PSF (3360)	117 PSF (5600)
E =	80 PSF (3830)	133 PSF (6380)
F =	90 PSF (4310)	150 PSF (7200)

575009 & 575010 WITH HORIZONTALS

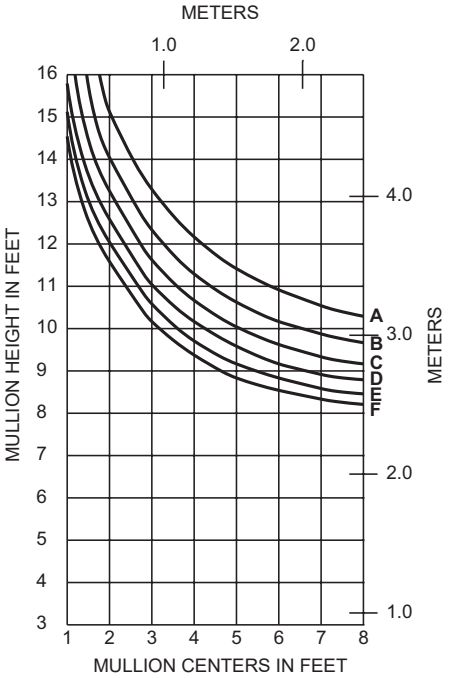




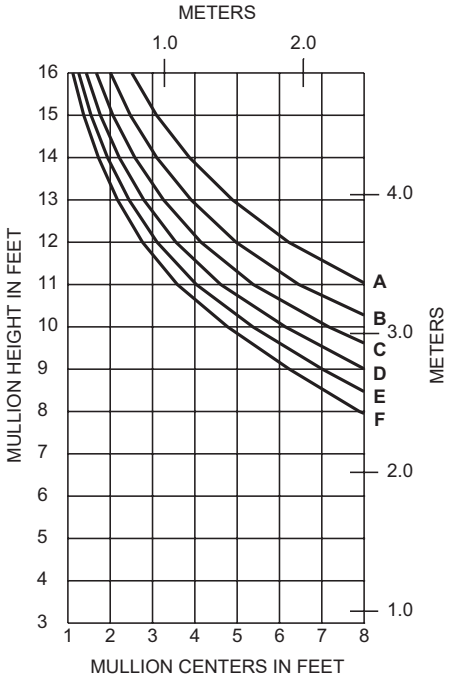
575009/575010

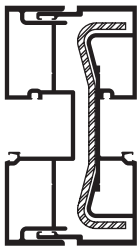
I_A = 9.086 in^4 (378.19 x 10^4 mm^4)
S_A = 3.627 in^3 (59.44 x 10^3 mm^3)

575009 & 575010 WITHOUT HORIZONTALS



575009 & 575010 AND 575110 STEEL WITH HORIZONTALS



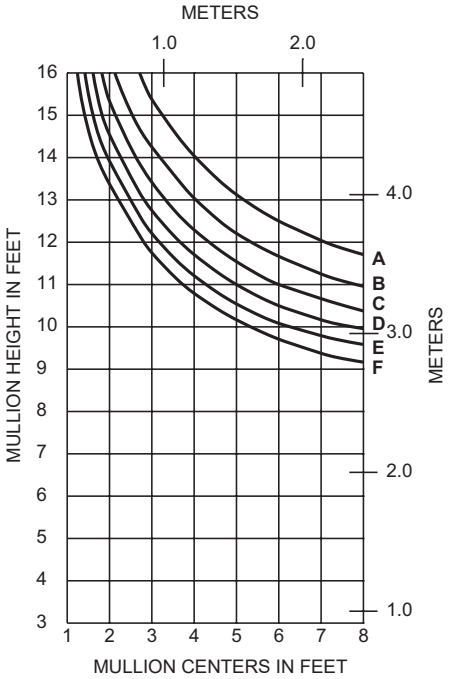


575009/575010 AND 575110 STEEL

I_A = 9.086 in^4 (378.19 x 10^4 mm^4)
S_A = 3.627 in^3 (59.44 x 10^3 mm^3)

I_S = 1.729 in^4 (71.97 x 10^4 mm^4)
S_S = 0.808 in^3 (13.24 x 10^3 mm^3)

575009 & 575010 AND 575110 STEEL WITHOUT HORIZONTALS



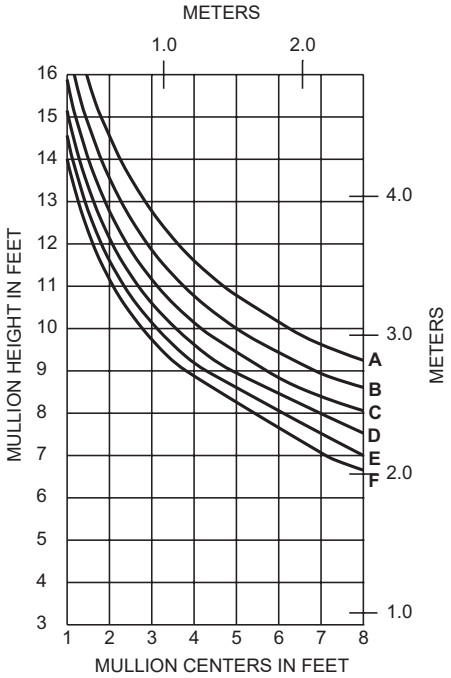
Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

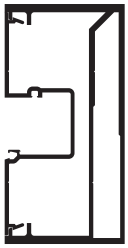
Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2012, Kawneer Company, Inc.

Hurricane Resistant Product

	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	40 PSF (1920)	67 PSF (3200)
B =	50 PSF (2400)	83 PSF (4000)
C =	60 PSF (2880)	100 PSF (4790)
D =	70 PSF (3360)	117 PSF (5600)
E =	80 PSF (3830)	133 PSF (6380)
F =	90 PSF (4310)	150 PSF (7200)

575050 & 575035 WITH HORIZONTALS

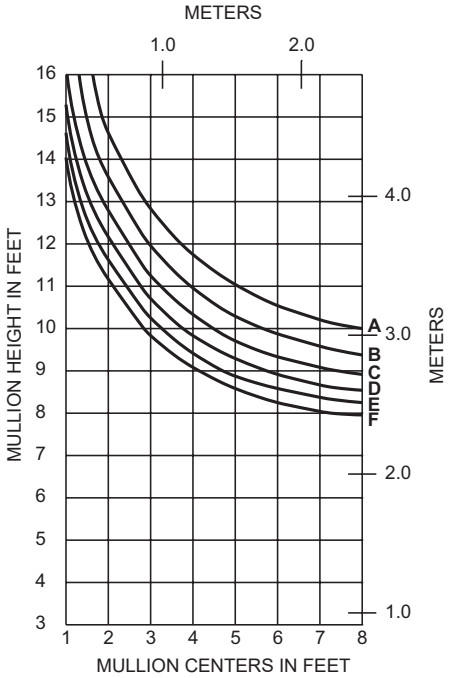




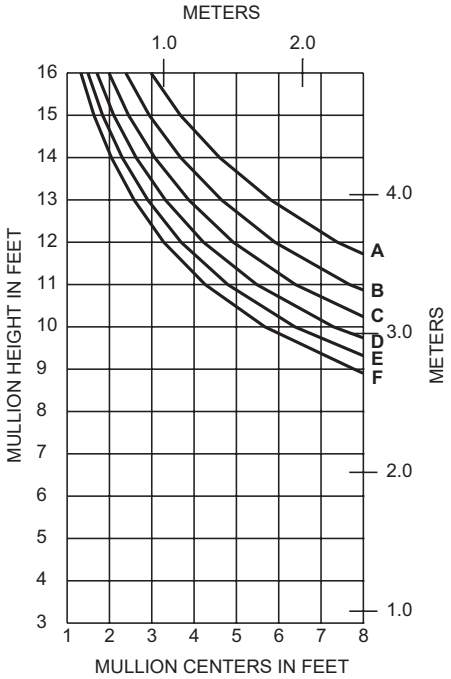
575050/575035

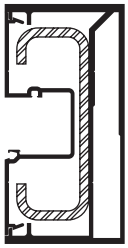
I_A = 8.209 in^4 (341.68 x 10^4 mm^4)
S_A = 3.105 in^3 (50.88 x 10^3 mm^3)

575050 & 575035 WITHOUT HORIZONTALS



575050 & 575035 AND 575111 STEEL WITH HORIZONTALS

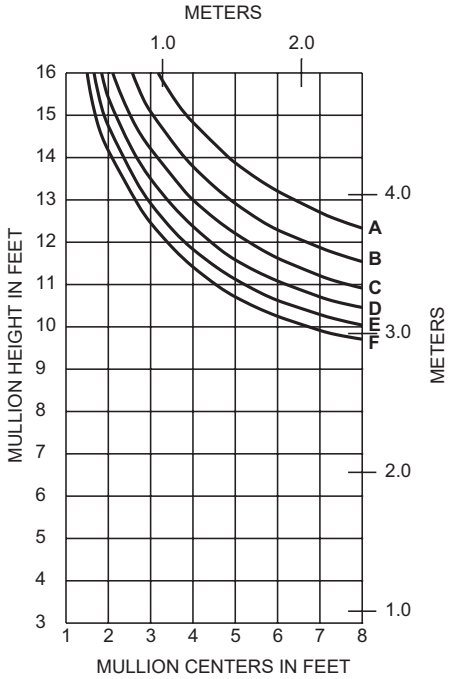




575050/575035 AND 575111 STEEL

I_A = 8.209 in^4 (341.68 x 10^4 mm^4)
S_A = 3.105 in^3 (50.88 x 10^3 mm^3)
I_S = 1. 729 in^4 (71.97 x 10^4 mm^4)
S_S = 0. 808 in^3 (13.24 x 10^3 mm^3)

575050 & 575035 AND 575111 STEEL WITHOUT HORIZONTALS



Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

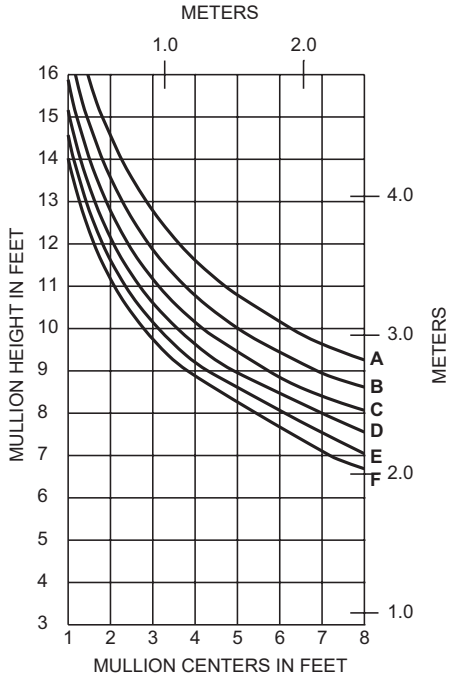
Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

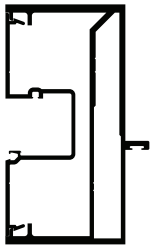
© 2012, Kawneer Company, Inc.

Hurricane Resistant Product

	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	40 PSF (1920)	67 PSF (3200)
B =	50 PSF (2400)	83 PSF (4000)
C =	60 PSF (2880)	100 PSF (4790)
D =	70 PSF (3360)	117 PSF (5600)
E =	80 PSF (3830)	133 PSF (6380)
F =	90 PSF (4310)	150 PSF (7200)

575051 & 575035 WITH HORIZONTALS

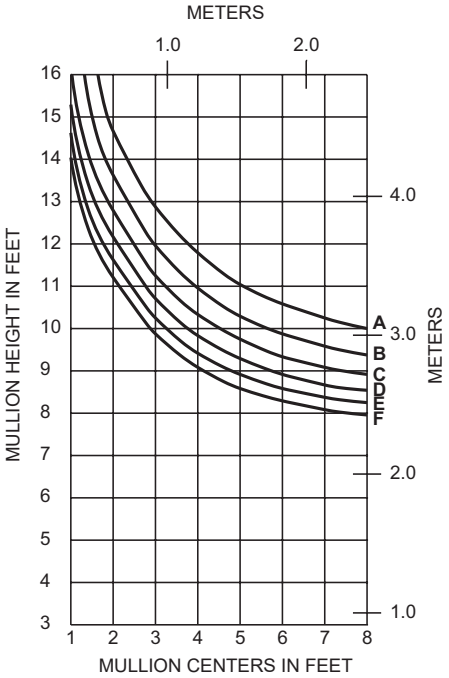




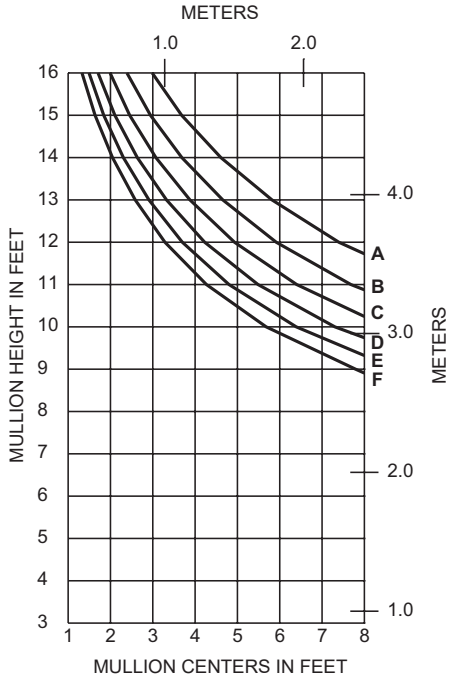
575051/575035

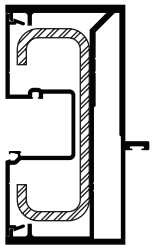
I_A = 8.233 in^4 (342.68 x 10^4 mm^4)
S_A = 3.138 in^3 (51.42 x 10^3 mm^3)

575051 & 575035 WITHOUT HORIZONTALS



575051 & 575035 AND 575111 STEEL WITH HORIZONTALS



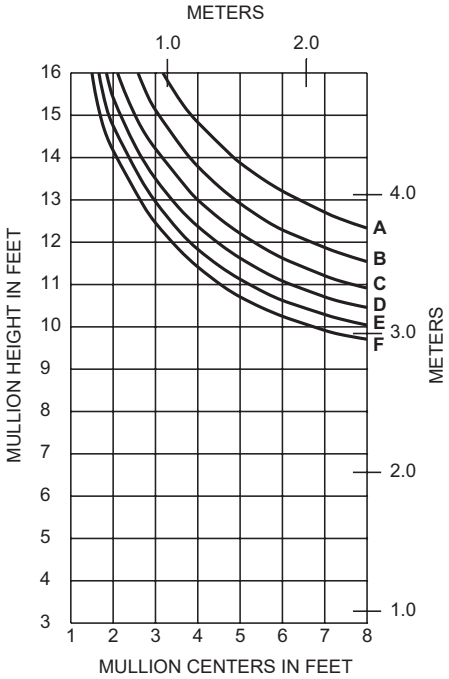


575051/575035 AND 575111 STEEL

I_A = 8.233 in^4 (342.68 x 10^4 mm^4)
S_A = 3.138 in^3 (51.42 x 10^3 mm^3)

I_S = 2.946 in^4 (122.62 x 10^4 mm^4)
S_S = 1.473 in^3 (24.14 x 10^3 mm^3)

575051 & 575035 AND 575111 STEEL WITHOUT HORIZONTALS



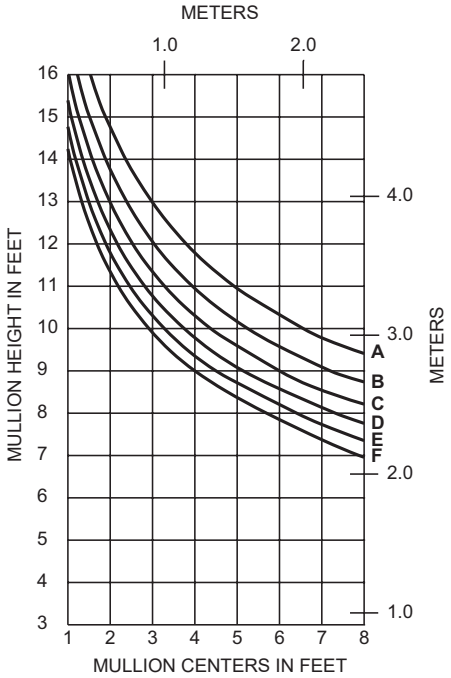
Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

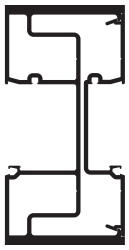
Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2012, Kawneer Company, Inc.

Hurricane Resistant Product

	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	40 PSF (1920)	67 PSF (3200)
B =	50 PSF (2400)	83 PSF (4000)
C =	60 PSF (2880)	100 PSF (4790)
D =	70 PSF (3360)	117 PSF (5600)
E =	80 PSF (3830)	133 PSF (6380)
F =	90 PSF (4310)	150 PSF (7200)

575116 & 575102
WITH HORIZONTALS

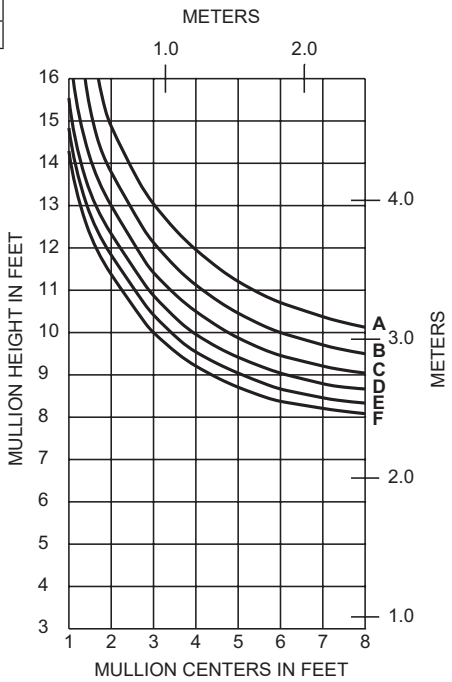




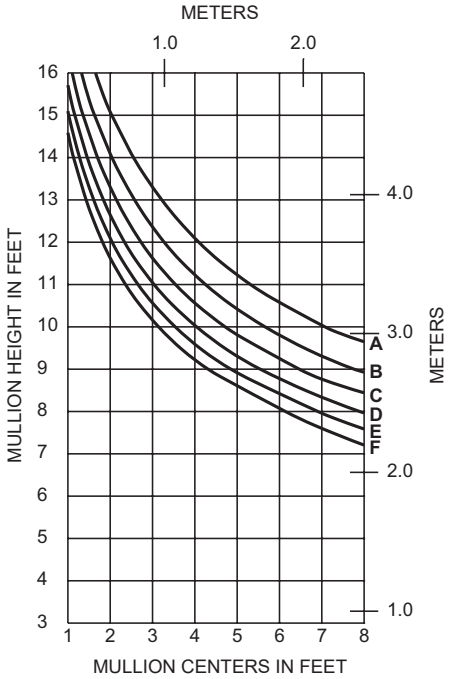
575116/575102

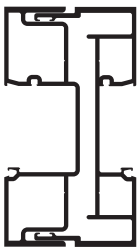
I_A = 8.612 in^4 (358.46 x 10^4 mm^4)
S_A = 3.669 in^3 (60.12 x 10^3 mm^3)

575116 & 575102
WITHOUT HORIZONTALS



575117 & 575118
WITH HORIZONTALS

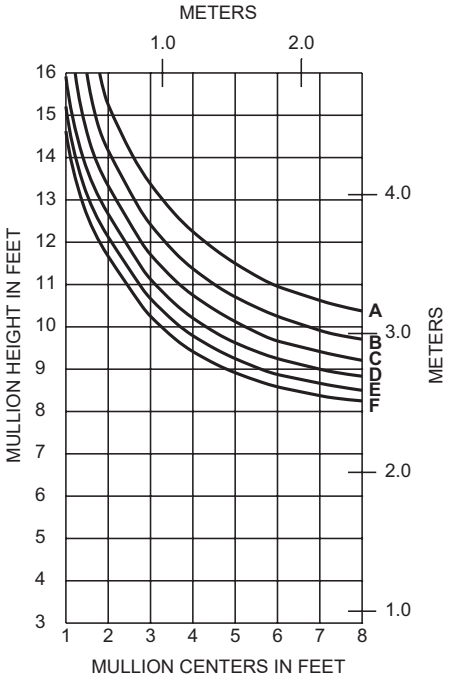




575117/575118

I_A = 9.285 in^4 (386.47 x 10^4 mm^4)
S_A = 3.704 in^3 (60.70 x 10^3 mm^3)

575117 & 575118
WITHOUT HORIZONTALS



Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

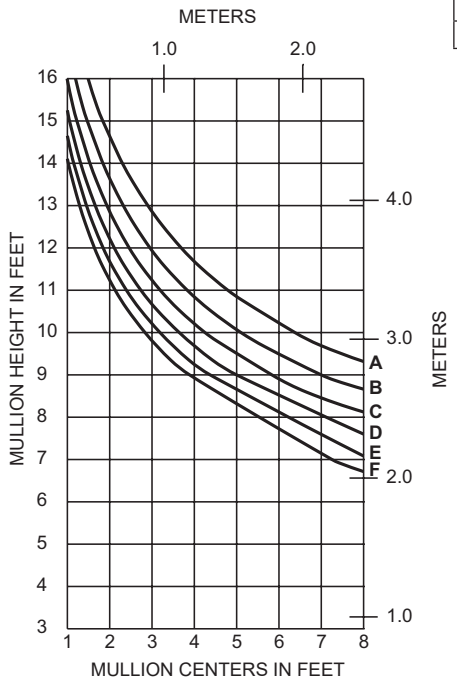
Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

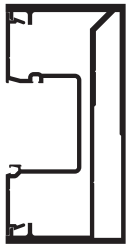
© 2012, Kawneer Company, Inc.

Hurricane Resistant Product

	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	40 PSF (1920)	67 PSF (3200)
B =	50 PSF (2400)	83 PSF (4000)
C =	60 PSF (2880)	100 PSF (4790)
D =	70 PSF (3360)	117 PSF (5600)
E =	80 PSF (3830)	133 PSF (6380)
F =	90 PSF (4310)	150 PSF (7200)

575050 & 575135 WITH HORIZONTALS

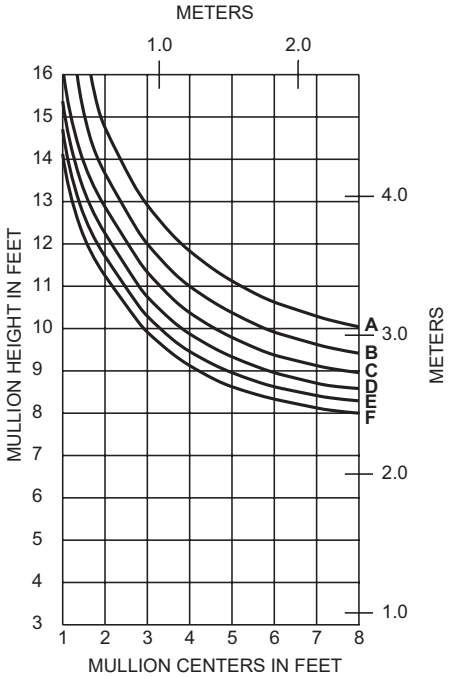




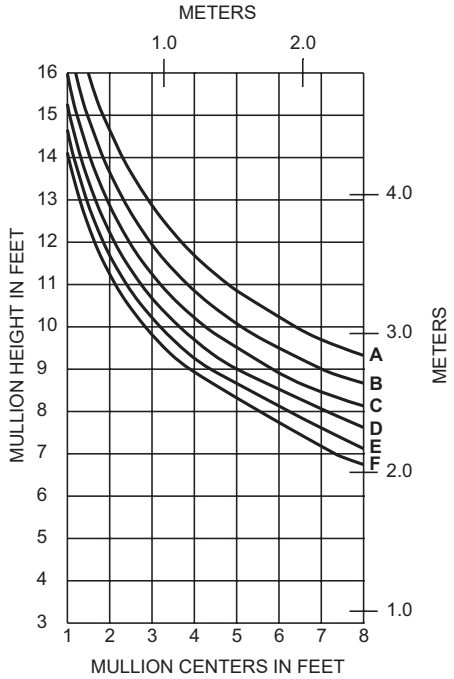
575050/575135

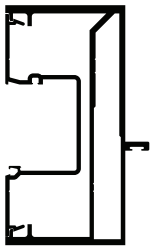
I_A = 8.371 in^4 (348.43 x 10^4 mm^4)
S_A = 3.166 in^3 (51.88 x 10^3 mm^3)

575050 & 575135 WITHOUT HORIZONTALS



575051 & 575135 WITH HORIZONTALS

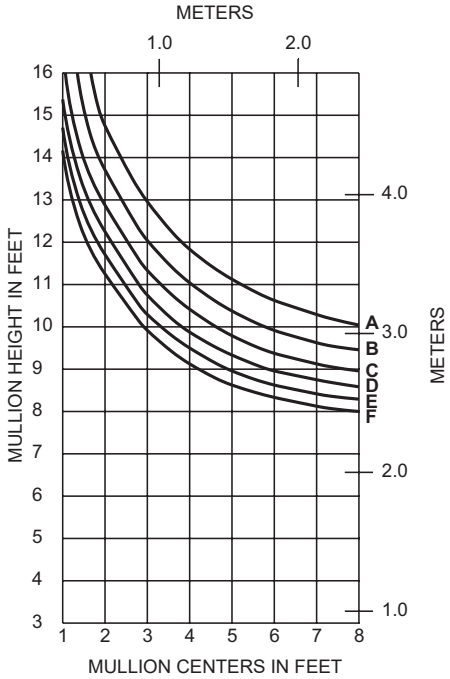




575051/575135

I_A = 8.393 in^4 (349.34 x 10^4 mm^4)
S_A = 3.200 in^3 (52.44 x 10^3 mm^3)

575051 & 575135 WITHOUT HORIZONTALS



Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

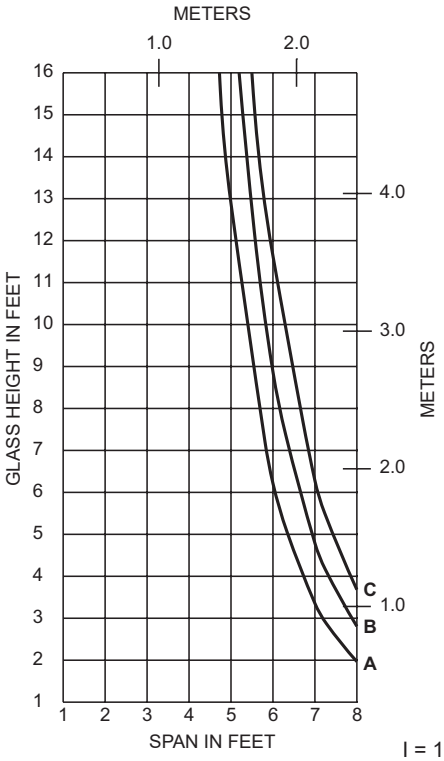
Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

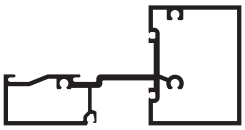
© 2012, Kawneer Company, Inc.

Hurricane Resistant Product

A = (1/4 POINT LOADING)
B = (1/6 POINT LOADING)
C = (1/8 POINT LOADING)

575011

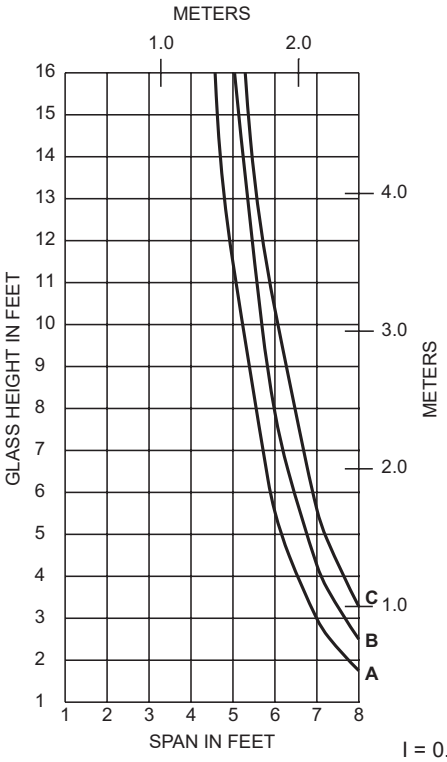


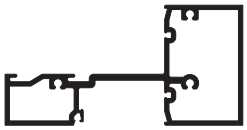


575011
(IR 500)

I = 1.043 in^4 (43.41 x 10^4 mm^4)
S = 0.697 in^3 (11.42 x 10^3 mm^3)

575115





575115
(IR 501)

I = 0.929 in^4 (38.67 x 10^4 mm^4)
S = 0.620 in^3 (10.16 x 10^3 mm^3)

Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

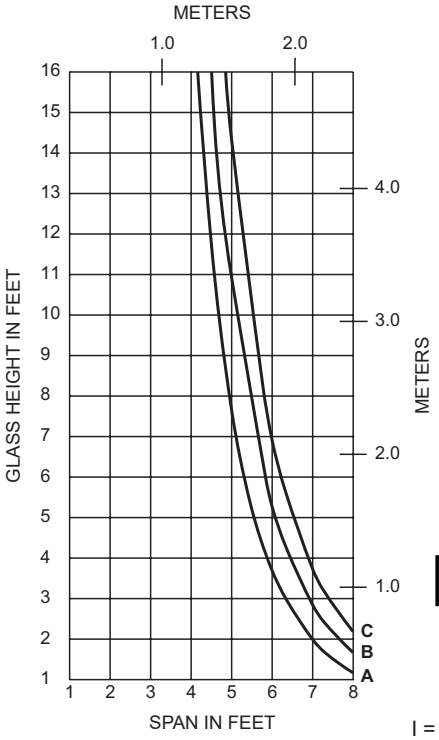
Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

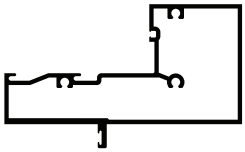
© 2012, Kawneer Company, Inc.

DEADLOADS ON ENTRANCE TRANSOM BARS

Height limitations for transom glass over a doorway are based on a 1/16" (1.6) maximum allowable deflection at the center of a transom bar. The accompanying chart is calculated for 9/16" or 5/8" thick impact resistant glass or 1-5/16" thick insulated impact resistant glass supported on two setting blocks placed at the loading points shown.

575022 HORIZONTAL

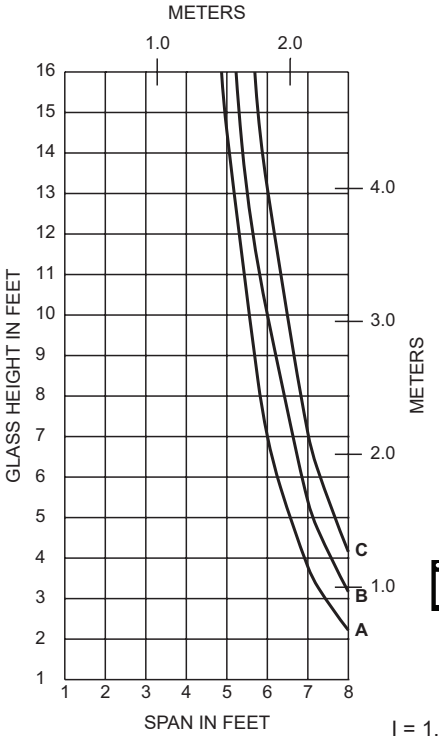


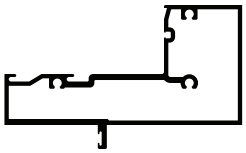


575022
(IR 500)

I = 1.248 in^4 (51.95 x 10^4 mm^4)
S = 0.777 in^3 (12.73 x 10^3 mm^3)

575122 HORIZONTAL

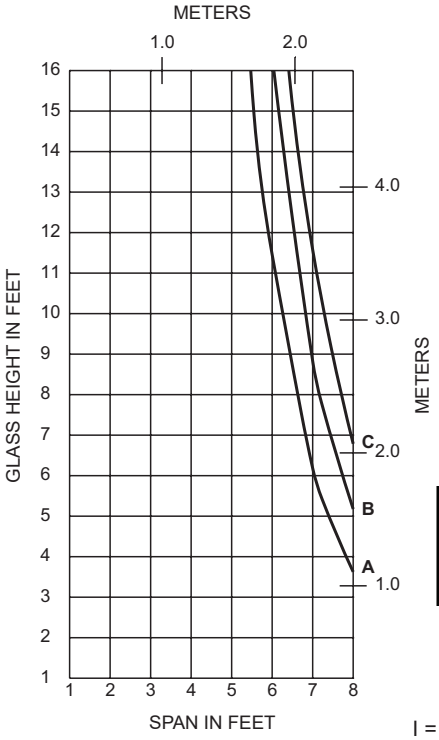


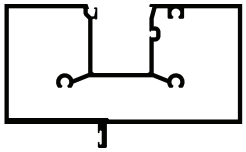


575122
(IR 501)

I = 1.177 in^4 (48.99 x 10^4 mm^4)
S = 0.722 in^3 (11.83 x 10^3 mm^3)

575023 HORIZONTAL





575023
(IR 500)

I = 1.764 in^4 (73.42 x 10^4 mm^4)
S = 1.081 in^3 (17.71 x 10^3 mm^3)

A = (1/4 POINT LOADING)
B = (1/6 POINT LOADING)
C = (1/8 POINT LOADING)

Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

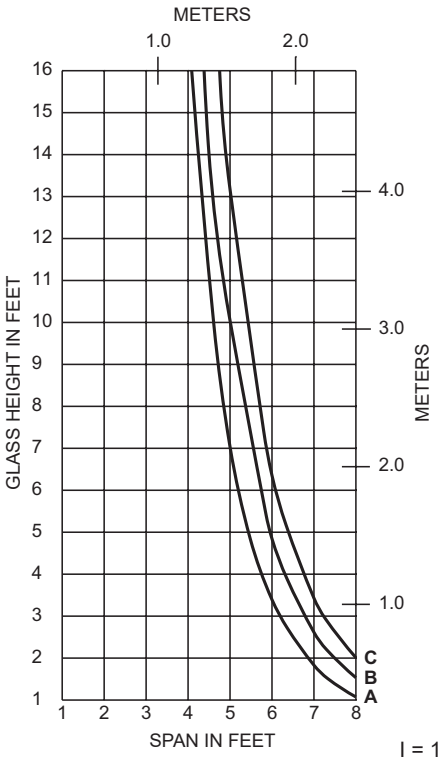
Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

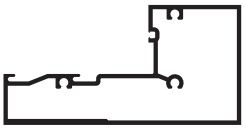
© 2012, Kawneer Company, Inc.

Hurricane Resistant Product

A = (1/4 POINT LOADING)
B = (1/6 POINT LOADING)
C = (1/8 POINT LOADING)

575020

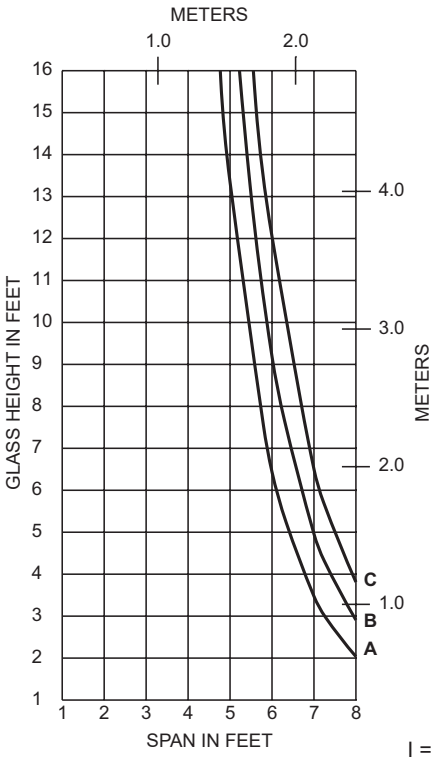




575020
(IR 500)

I = 1.148 in^4 (47.78 x 10^4 mm^4)
S = 0.751 in^3 (12.31 x 10^3 mm^3)

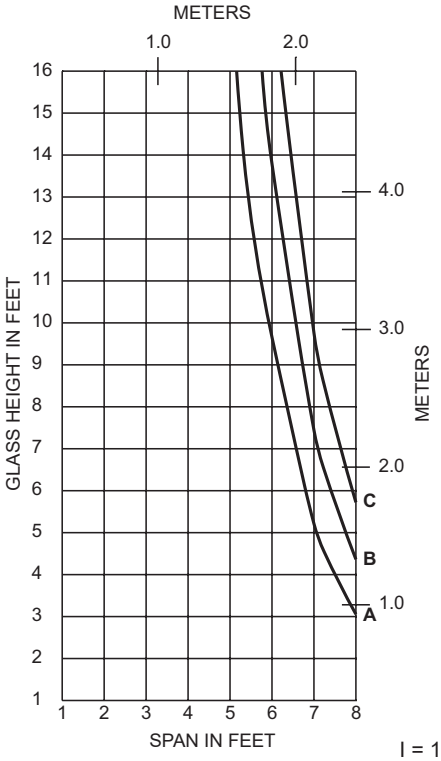
575120

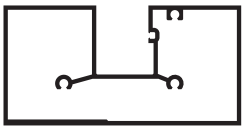


575120
(IR 501)

I = 1.080 in^4 (44.95 x 10^4 mm^4)
S = 0.683 in^3 (11.19 x 10^3 mm^3)

575021





575021
(IR 500)

I = 1.621 in^4 (67.47 x 10^4 mm^4)
S = 1.234 in^3 (20.22 x 10^3 mm^3)

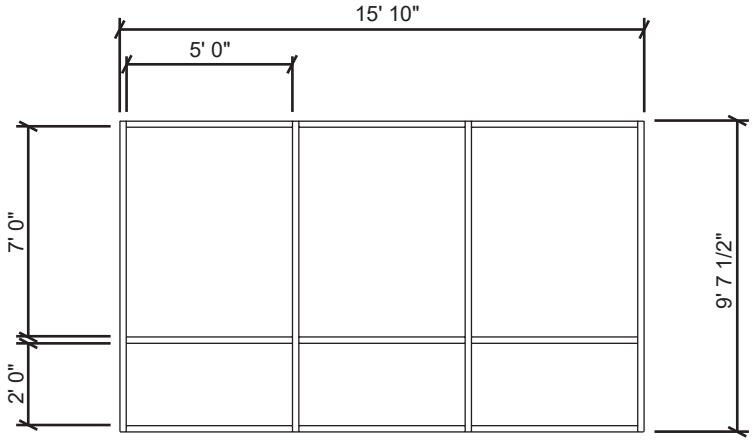
Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

© 2012, Kawneer Company, Inc.

Hurricane Resistant Product

Generic Project Specific U-factor Example Calculation
(Percent of Glass will vary on specific products depending on sitelines)



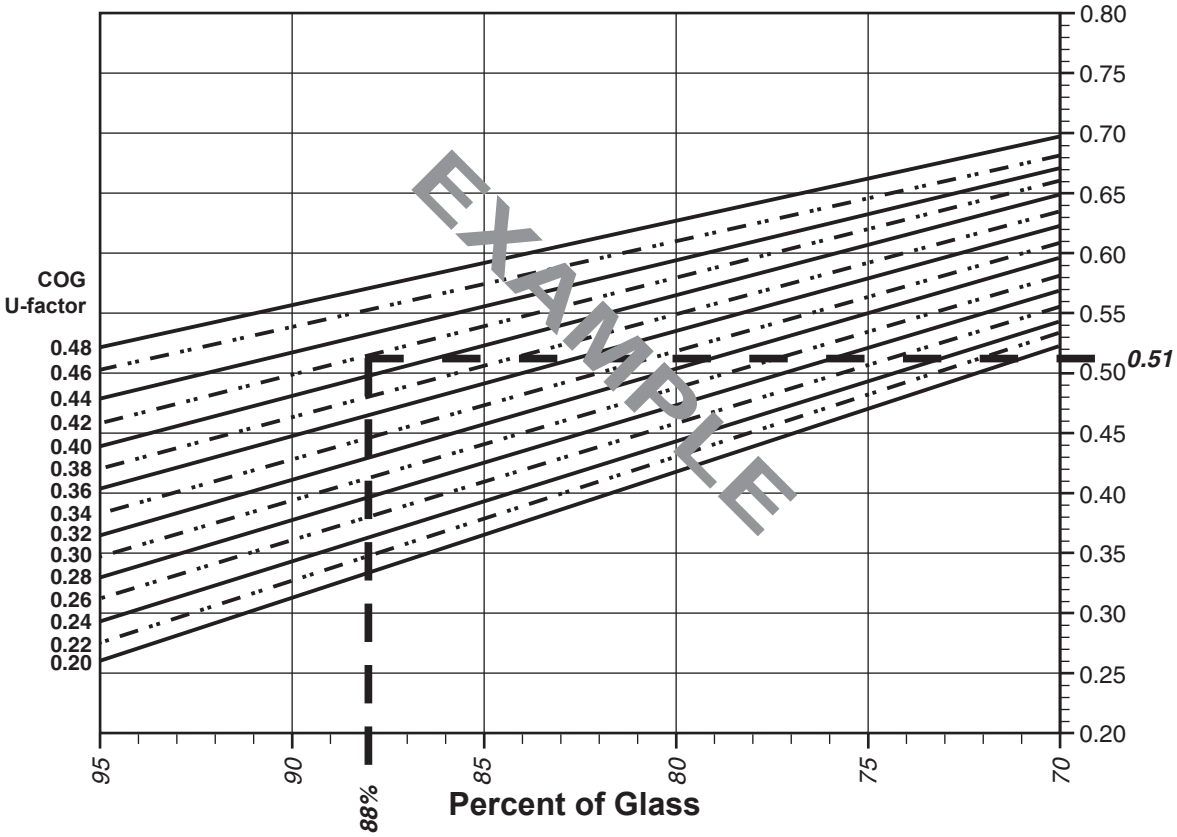
Example Glass U-factor = 0.42 Btu/hr·ft²·°F

Total Daylight Opening = 3(5' x 7') + 3(5' x 2') = 135ft²

Total Projected Area = (Total Daylight Opening + Total Area of Framing System)
= 15' 10" x 9' 7 1/2" = 152.39ft²

Percent of Glass = (Total Daylight Opening ÷ Total Projected Area)
= (135 ÷ 152.39)100 = 88%

System U-factor vs Percent of Glass Area



Based on 88% glass and center of glass (COG) U-factor of 0.42
System U-factor is equal to 0.51 Btu/hr x ft² x °F

Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

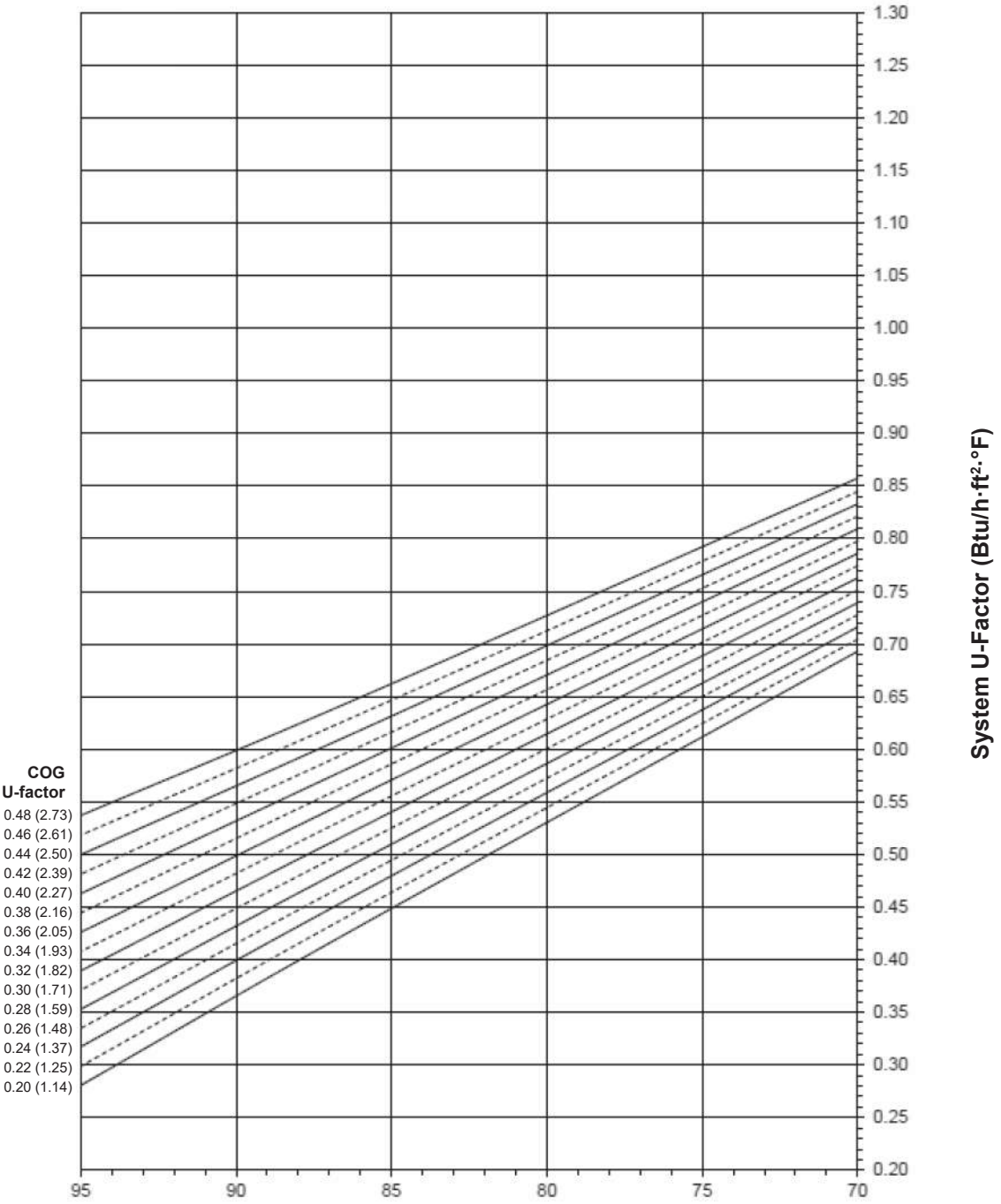
Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

© 2012, Kawneer Company, Inc.

Hurricane Resistant Product

Note:
Values in parentheses are metric.
COG=Center of Glass.
Charts are generated per AAMA 507.

System U-Factor for Vision Glass



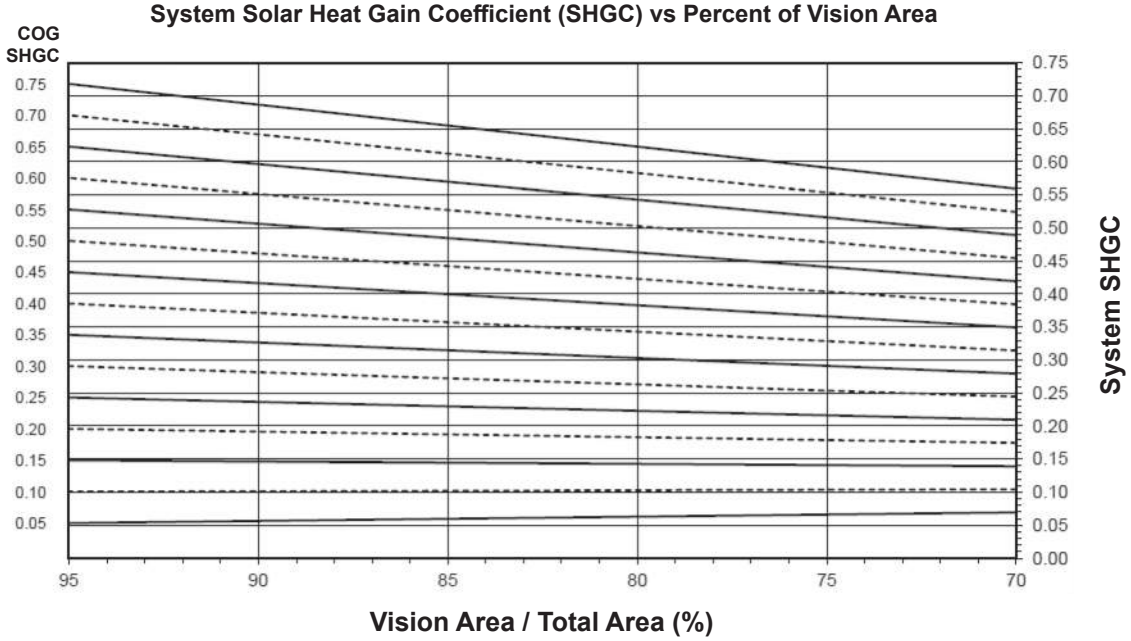
Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

© 2012, Kawneer Company, Inc.

Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

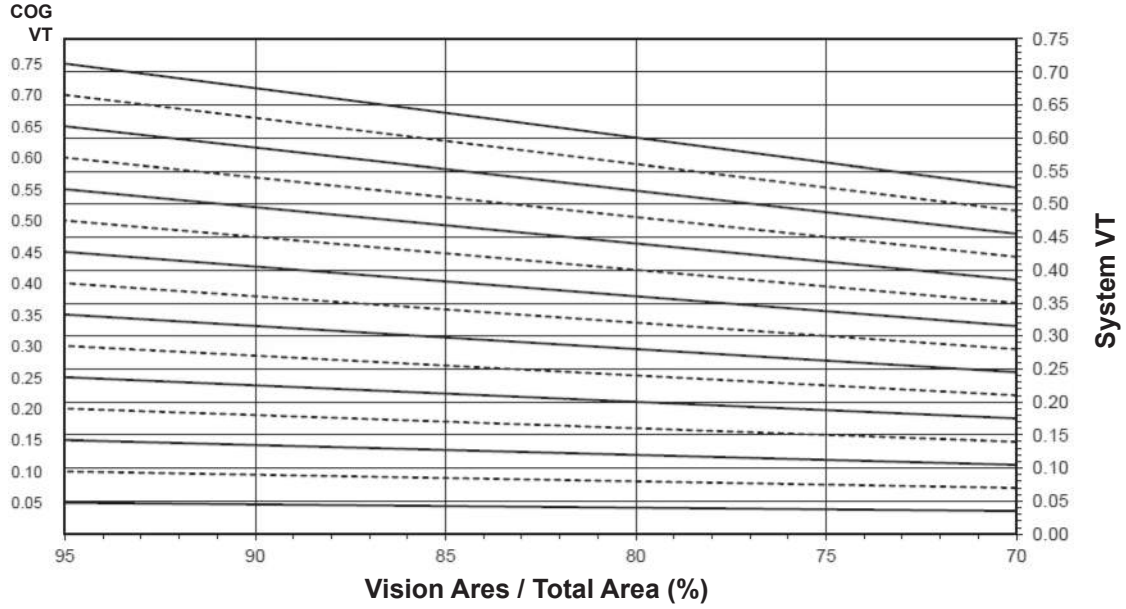
System Solar Heat Gain Coefficient (SHGC) vs Percent of Vision Area



Charts are generated per AAMA 507.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2012, Kawneer Company, Inc.

System Visible Transmittance (VT) vs Percent of Vision Area



Charts are generated per AAMA 507.

Hurricane Resistant Product

Thermal Transmittance [1] (BTU/hr • ft [2] • °F)

Glass U-Factor [3]	Overall U-Factor [4]
0.48	0.62
0.46	0.63
0.44	0.62
0.42	0.60
0.40	0.59
0.38	0.57
0.36	0.56
0.34	0.54
0.32	0.52
0.30	0.51
0.28	0.49
0.26	0.48
0.24	0.46
0.22	0.45
0.20	0.43

IR 501 Framing

NOTE: For glass values that are not listed, linear interpolation is permitted.

1. U-Factors are determined in accordance with NFRC 100.
2. SHGC and VT values are determined in accordance with NFRC 200.
3. Glass properties are based on center of glass values and are obtained from your glass supplier.
4. Overall U-Factor, SHGC, and VT Matricies are based on the standard NFRC specimen size of 2,000 mm wide by 2,000 mm high (78-3/4" by 78-3/4").

SHGC Matrix [2]

Glass SHGC [3]	Overall SHGC [4]
0.75	0.66
0.70	0.62
0.65	0.58
0.60	0.53
0.55	0.49
0.50	0.45
0.45	0.40
0.40	0.36
0.35	0.32
0.30	0.27
0.25	0.23
0.20	0.19
0.15	0.15
0.10	0.10
0.05	0.06

Visible Transmittance [2]

Glass VT [3]	Overall VT [4]
0.75	0.65
0.70	0.60
0.65	0.56
0.60	0.52
0.55	0.47
0.50	0.43
0.45	0.39
0.40	0.34
0.35	0.30
0.30	0.26
0.25	0.22
0.20	0.17
0.15	0.13
0.10	0.09
0.05	0.04

Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

© 2012, Kawneer Company, Inc.

NanaWall
Engineering the Exceptional

100 Meadowcreek Drive #250
Corte Madera , CA 94925
quotes@nanawall.com

800 873 5673
415 383 3148
Fax 415 383 0312

Custom Quote # 582103
Date: 2/15/2024

Project Information

Renovation to Building 217, VA Medical Center- Hines, IL

Customer:	Connor Rollins	Phone:	224-875-6873
	Bancroft A+E	Fax:	
Address:	700 Nicholas Blvd Ste 403	Email:	crollins@bancroft-ae.com
	Elk Grove Village, IL 60007		

NanaWall Contact Information

Local Sales:	Nick Wnenk	Phone:	(708) 385-4079
Representative:	Assured Corporation	Email:	nick.wnenk@nanawall.com
Location:	9951 W. 190 th Street, Ste K Mokena, Illinois 60448		

Shipping Information

Current Estimated Delivery: 9-11 weeks from order to jobsite in Illinois

Address: Hines,Illinois 60141

☐ To accept this quote and proceed with ordering, please scan and email your acceptance to orders@nanawall.com or contact your NanaWall sales representative. Order Agreement documents will then be sent to you.Order Agreement documents will then be sent to you.

We feel the NanaWall system was the single most important addition to our home. ?Ken and Dana Merritt, Homeowners

NanaWall
Engineering the Exceptional

100 Meadowcreek Drive #250
Corte Madera, CA 94925
quotes@nanawall.com

800 873 5673
415 383 0312
Fax 415 383 0312

Custom Quote # 582103
Date: 2/15/2024

Performance

NanaWall opening glass walls meet or exceed applicable industry standards for air infiltration, water penetration, structural performance, forced entry, and extreme weather protection.

A NanaWall system protects from water and air infiltration, provides sound attenuation, and is energy efficient when closed.

Aesthetics

NanaWall opening glass walls are available in over 25 different configurations with many choices of finishes.

All panels of the NanaWall opening glass walls are on the same plane with a single track and feature narrow stiles and rails. The concealed engineering hardware adds to the clean lines of the sophisticated and refined aesthetics.

Support

Your NanaWall system is covered by a 10 year warranty on the rollers and on seal failure of the insulated glass. 5 years on all other aspects of the product and 10 years if installed by a NanaWall Certified Installer (except screens which always have a 1 year warranty. See Limited Warranty for full details).

NanaWall Certified Installers ensure your custom-made NanaWall is properly installed. Our customer service representatives and technical design team will help guide and provide you with the answers you need.
Call (800) 873-5673.

30 YEARS OF INNOVATIONS
1986 30 YEARS 2016
NANAWALL SYSTEMS

Experience

The NanaWall team has over 30 years of experience solving challenging architectural and engineering issues in a wide variety of projects.

With over a million opening glass panels installed worldwide, rely on NanaWall's experience, unsurpassed durability, exceptional performance, and custom-tailored solutions for your project.

Images shown in this chart may or may not reflect the product within this quotation.

NanaWall
Engineering the Exceptional

100 Meadowcreek Drive #250
Corte Madera, CA 94925
quotes@nanawall.com

800 873 5673
415 383 0312
Fax 415 383 0312

Quote # 582103 Position 1
Date 2/15/2024

NWAluminum640L Product Details

Configuration 5L1R

Nbr of Units		1	Number of Panels		6	
Unit Width	feet	18'	inches	216	millimeters	5486
Unit Height	feet	8' 6"	inches	102	millimeters	2591
Keyed Alike		N/A				

Base Price/unit $27,610

Options	Selection		
Swing/Stacking Direction	Outward		
Active Opening Side	Primary Side Right		
Swing Panel Width	Standard		
Mounting	Floor Mounted with Stainless Steel Rollers		
Type of Sill	Thermally Broken Low Profile Saddle (For resistance against wind driven rain, weep holes and drain connections by others necessary.)		
Sill Finish	Black Anodized		
Glazing	Double Glazed Low E Insulated Tempered 70		
Lites	Horizontal Mullions/Bars: 1.0 Height(s) from panel bottom to centerline: (41.375)	**Upcharge/unit:**	$258
Glazing Designation	No Capillary Tubes		
Glass Spacer Bar Finish	Black		
Aluminum Profile Finish (Recyclable aluminum with recycled content)	NanaWall Standard Powder Coated Color: Choose from 50 Standard Colors		
Bottom Rail/Kickplate	Standard Bottom Rail		
Hardware on First Opening Panel(s)	No hardware or locking to be provided by the manufacturer, but with field installed panic device by others.		
Finish on Secondary Handles	Stainless Steel with Black Titanium Finish		
Hardware: Handle Height from Bottom of Panel	Standard at 41.375" (1050 mm)		
Hinge Finish	Black Anodized		
Cover Profile	Yes		

Total Weight: 920lbs Total weight is approximate and does not include packaging material.

Total Price/unit	$27,868
Number of units	1
Extended Subtotal	$27,868

Misc Items	Note	Units	Price	Total
	PRE-DRILLED TO RECEIVE VON DUPRIN 33/35 PANIC + HORIZONTAL MULLIOIN ON SWING PANEL ONLY AND INSIDE ONLY	1	$270.00	$270.00

Position 1 Subtotal: $28,138

NanaWall
Engineering the Exceptional

100 Meadowcreek Drive #250
Corte Madera, CA 94925
quotes@nanawall.com

800 873 5673
415 383 0312
Fax 415 383 0312

Quote # 582103 Position 2
Date 2/15/2024

NWAluminum640L Product Details

Configuration 1L5R

Nbr of Units		1	Number of Panels		6	
Unit Width	feet	18'	inches	216	millimeters	5486
Unit Height	feet	8' 6"	inches	102	millimeters	2591
Keyed Alike		N/A				

Base Price/unit $27,610

Options	Selection		
Swing/Stacking Direction	Outward		
Active Opening Side	Primary Side Left		
Swing Panel Width	Standard		
Mounting	Floor Mounted with Stainless Steel Rollers		
Type of Sill	Thermally Broken Low Profile Saddle (For resistance against wind driven rain, weep holes and drain connections by others necessary.)		
Sill Finish	Black Anodized		
Glazing	Double Glazed Low E Insulated Tempered 70		
Lites	Horizontal Mullions/Bars: 1.0 Height(s) from panel bottom to centerline: (41.375)	**Upcharge/unit:**	$258
Glazing Designation	No Capillary Tubes		
Glass Spacer Bar Finish	Black		
Aluminum Profile Finish (Recyclable aluminum with recycled content)	NanaWall Standard Powder Coated Color: Choose from 50 Standard Colors		
Bottom Rail/Kickplate	Standard Bottom Rail		
Hardware on First Opening Panel(s)	No hardware or locking to be provided by the manufacturer, but with field installed panic device by others.		
Finish on Secondary Handles	Stainless Steel with Black Titanium Finish		
Hardware: Handle Height from Bottom of Panel	Standard at 41.375" (1050 mm)		
Hinge Finish	Black Anodized		
Cover Profile	Yes		

Total Weight: 920lbs Total weight is approximate and does not include packaging material.

Total Price/unit	$27,868
Number of units	1
Extended Subtotal	$27,868

Misc Items	Note	Units	Price	Total
	PRE-DRILLED TO RECEIVE VON DUPRIN 33/35 PANIC + HORIZONTAL MULLIOIN ON SWING PANEL ONLY AND INSIDE ONLY	1	$270.00	$270.00

Position 2 Subtotal: $28,138

NanaWall
Engineering the Exceptional

100 Meadowcreek Drive #250
Corte Madera, CA 94925
quotes@nanawall.com

800 873 5673
415 383 0312
Fax 415 383 0312

Custom Quote # 582103
Date: 2/15/2024
Project Summary (in US Dollars)

Subtotal:		$56,276	
Shipping and Crating		$2,277	
Total, Supply Only:	US Dollars	**$58,553**	Plus Tax
Estimated Illinois Sales Tax If Applicable		$3,517.00	

Estimated Delivery Time	**Estimated delivery time from receipt of signed Order Agreement, initial payment and signed product drawings is 9-11 weeks to jobsite in Illinois.** Please discuss with NanaWall or your sales rep if a more definitive delivery date is needed within this time frame.
Questions	Please call NanaWall customer service at (800) 873-5673

Important Information

This Quote contains NanaWall's prices for products based on information, input and specifications provided by Buyer. The product details listed are based on NanaWall standard products and may not conform to project specifications in terms of requirements and/or product performance. NanaWall is not responsible for reviewing or confirming whether its product meets plans and specifications, applicable building codes, or regulations.

Review this Quote carefully to ensure all product details are accurate and correct. It is Buyer's responsibility to ensure all product details described in this Quote are as requested and appropriate for the project. For further information or assistance on product detail selection, please consult NanaWall's literature, website, local sales representative or customer service.

Drawings. Standard Product Drawings depicting the product quoted are attached.

Any changes in the dimensions, design or layout made after NanaWall's preparation of any drawings may result in extra charges at the NanaWall's discretion for preparation of revised drawings. Any additional charges must be paid before any drawings are revised.

Head Track & Sill Assembly. Head track and sill components may be shipped in segments that will need to be field joined. Contact NanaWall at (800) 873-5673 to request instructions for proper assembly.

Altitude. NanaWall assumes that the products will be installed at altitudes less than 2,500 feet. Notify NanaWall prior to placing your order if installing any products at a higher altitude so breather/capillary tubes can be installed in the glass. Argon is not available if breather or capillary tubes are installed.

PRICING & PAYMENT
The quoted price is valid only for the product details listed and only for 15 days from the date of the Quote. Prices are subject to change if any revisions are made, or if an order is not placed within 15 days from the date of the Quote.

Sales tax is an estimate only and any difference in actual sales tax to be collected will be reflected in the amount of final payment due. NanaWall must have a project tax exemption certificate, or in the case of a reseller a resale certificate, on file for resellers to

be exempt from tax collection by NanaWall.

An initial payment of 50% is due on order and must be received before NanaWall will process an order for production.

The balance of payment for all products shipped Standard Delivery is (1) wire transfer to NanaWall's bank account to be received by NanaWall before delivery or (2) personal, business or cashier's check on delivery to be handed over to the common carrier driver.
As products are made to order, Buyer may not cancel or change an order once the Order Agreement is signed by NanaWall and Buyer. In the event of Buyer's repudiation of the Order Agreement, NanaWall remains entitled to the full purchase price as stated in the Order Agreement.

Installation is not included in the above price. NanaWall does not provide installation services; however, installation may be available through independent Certified Installers who have received training on proper methods for installation of NanaWall product. Contact NanaWall or your local sales representative for more information.

SHIPPING & DELIVERY
Standard Delivery. The quoted freight amount is based on shipping to Buyer via NanaWall's standard shipping methods to tailgate/curbside only. Buyer is responsible for unloading the product from the delivery truck, and must plan to have sufficient manpower present for unloading. If the location is not easily accessible by common carrier, shipment will be made to the nearest freight terminal. Alternative shipping methods requested by Buyer may result in additional charges. Buyer can make its own transport arrangements from NanaWall production sites within the U.S., and in the case of international production sites Buyer can make its own transport arrangements from the domestic port of entry.

REVISIONS & SUBMISSION
Contact NanaWall to identify any changes or corrections to be made to the information contained in the Quote. NanaWall will review, make accepted changes, and submit a revised Quote.

IF THE QUOTE IS ACCEPTABLE AND BUYER WOULD LIKE TO PROCEED, CHECK THE BOX ON THE FIRST PAGE, AND SUBMIT TO NANAWALL: fax to (415) 383-0312, email to quotes@nanawall.com or send to your local sales representative. NanaWall will then provide the Order Agreement, a sample of which is available for review upon request. Once provided, the Order Agreement and applicable drawings will govern the sale.

Copyright 2020 Nana Wall Systems, Inc