RESIDENTIAL "A"

Preliminary Development Plan August 7, 2025





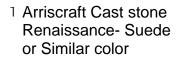


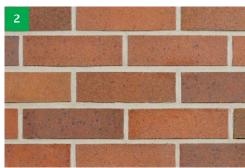












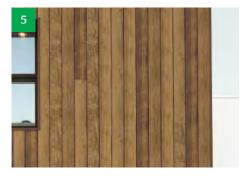
² Glen-Gery Autumn Harvest or Similar Color



3 PadClad Corrugated metal-highline B1 Graphite color or Similar Product



4 Equitone Natura Pro fiber cement or Similar product



5 Longboard wood looks metal panel Table Walnut or Similar Color





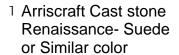


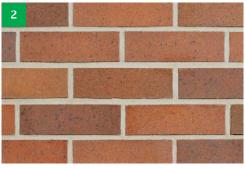












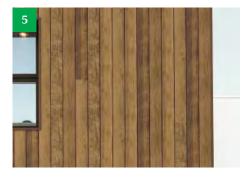
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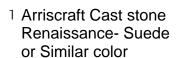


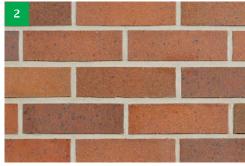












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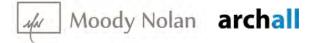
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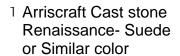


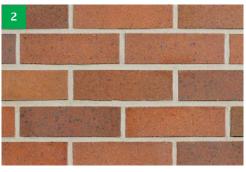












² Glen-Gery Autumn Harvest or Similar Color



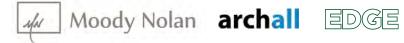
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5 Longboard wood looks metal panel Table Walnut or Similar Color



























Arriscraft Full Bed Products Guide Fort Valley, Georgia Plant



Georgia Citadel®















Realistic Profiles

Unlike most manufactured stone, Arriscraft products feature authentic profiles, whether it be the robust Matterhorn, or the tumbled elegance of Citadel[®].



Cumberland













The Arriscraft Advantage

Our unique Natural Process™ technology yields cement-free stone, boasting the aesthetic, durability and strength benefits of quarried stone with simpler, more cost effective installation.

Matterhorn









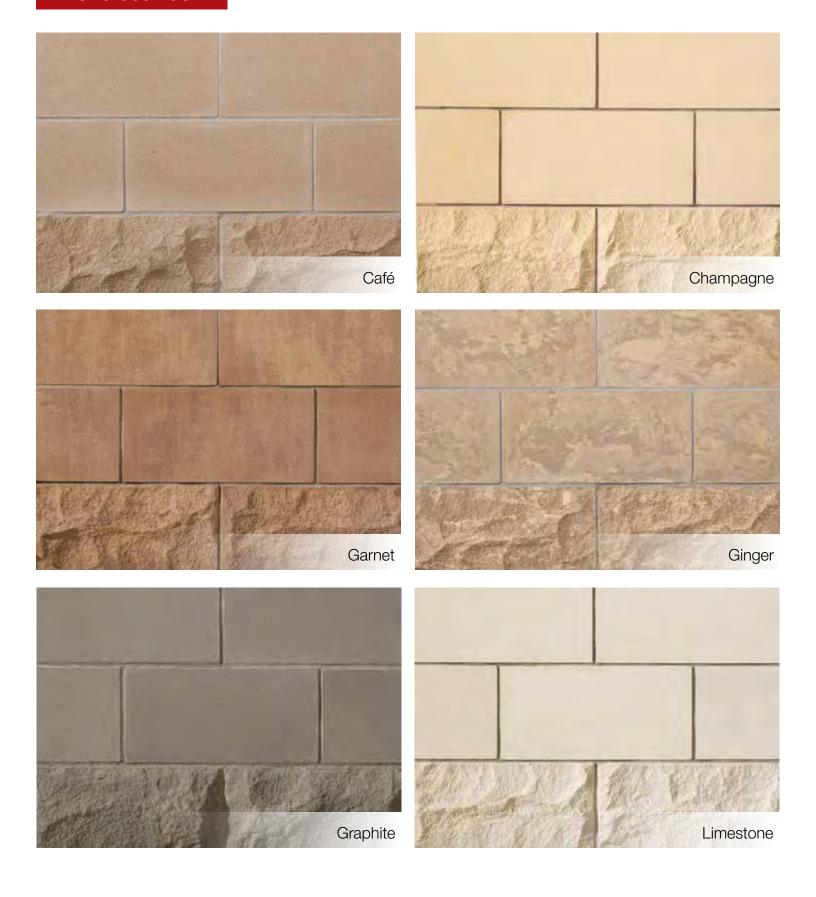


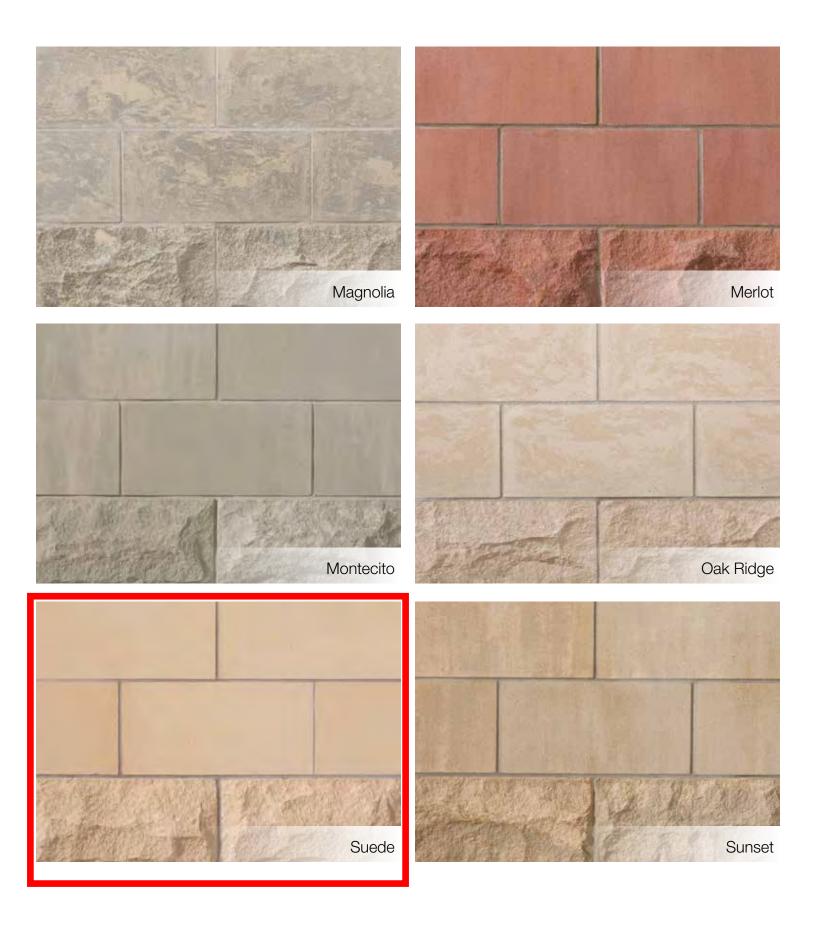


Old Country

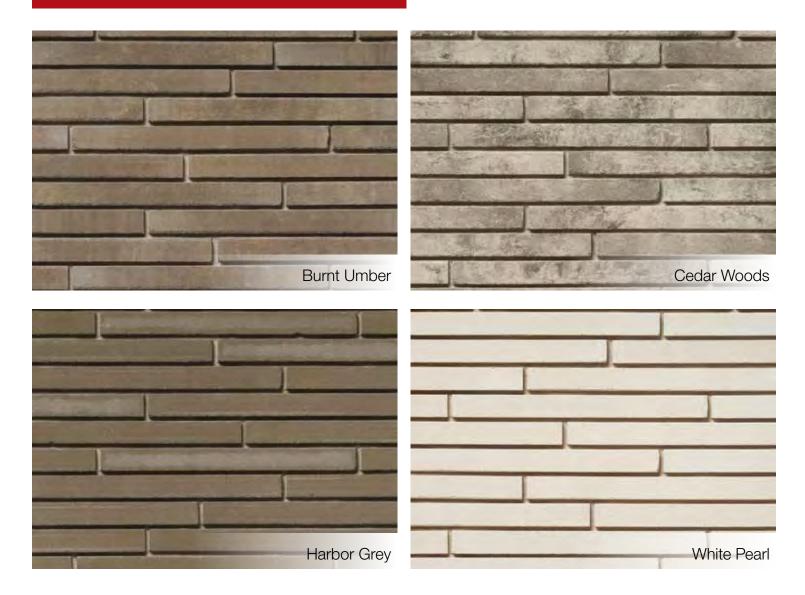


Renaissance®





Architectural Linear Series Brick



Our Architectural Linear Series Brick delivers a rugged, yet modern look in an elongated format.

As with our stone products, our brick is manufactured using the patented Natural Process $^{\text{TM}}$ technology, resulting in superb durability and aesthetics.







Arriscraft products are unique in the world, delivering the most authentic, most durable and most unique stone productsa. Our Natural ProcessTM technology combines natural materials (sand and lime), plus color pigments, to create products with the aesthetics and durability of quarried stone.

Explore our vast style selection in a broad array of natural colors, profiles and finishes. You can even combine color palettes and order unique colors through our customization options. Whatever your vision, we know you'll discover that it's possible with Arriscraft.





Central Georgia Technical College Health Sciences Building | Azar/Walsh Architects | Citadel® Cobble Hill

Arriscraft offers a truly comprehensive line of stone styles.

From impressive, old-world charm to cutting-edge contemporary, we have the style to bring every design to life. With an extensive and unique color palette, the possibilities are unlimited.

IMPORTANT NOTES

Colors and textures have been reproduced as closely as the printing process allows. Final selection should be made from actual samples.

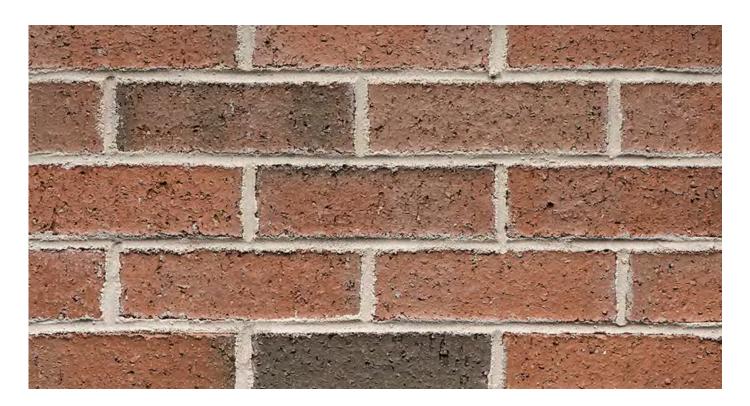
Arriscraft stone products must be installed using industry recommended materials and techniques and conform to all related building requirements. All masonry products are intended for above-grade installations. Proper care, installation and cleaning are required for warranty validation. Please refer to the DATA sheets and CARE sheets that can be found at www.arriscraft.com



Arriscraft is the stone products group of General Shale, the North American subsidiary of Wienerberger AG and a leading manufacturer of brick, one of the world's oldest green building materials.







Autumn Harvest Blend ♥ Save Product









(O) Where To Buy





Download seamless tileable image



See this brick on your house



Project Estimation Calculator

Enter wall area (ft²)

Quantity of brick

Full Calculator

Calculation is based on the Modular size brick, view full calculator to select a different size. View available sizes below for the product shown here.

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HIGHLINE B1

PRECISION SERIES WALL PANELS

MATERIALS

.032 aluminum 24 gauge steel .040 aluminum 22 gauge steel

.050 aluminum

SPECS

11.356" Wide 1-3/8" High





PRODUCT FEATURES

- No-clip panel, or clip installation for expansion/contraction
- Panel depth of 1-3/8"
- Cost-effective installation
- ▶ Horizontal or vertical installation
- Panel lengths:
 30' maximum for steel;
 22' maximum for aluminum on the thru-fastened leg; longer lengths available on clip panels

MATERIAL

- ▶ 48 stocked colors (24 gauge steel)
- ▶ 17 Stocked colors (22 gauge steel)
- > 34 stocked colors (.032 aluminum)
- ▶ 26 stocked colors (.040 aluminum)
- ▶ 21 stocked colors (.050 aluminum)
- Galvalume Plus available

TESTS

- ASTM E330
- ASTM E283
- ASTM E331
- AAMA 501.1-05-B1, B2, C2, S1
- ASTM 1592

FLORIDA BUILDING PRODUCT APPROVALS

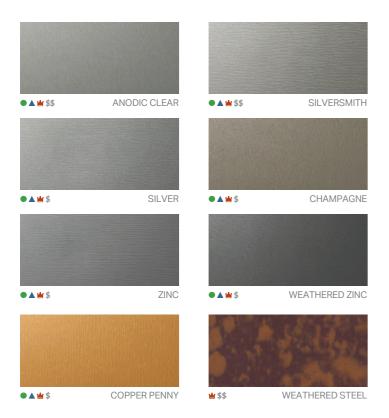
Please refer to pac-clad.com or your local factory for specific product approval numbers for Precision Series panels.

Note: Line drawings may not be to scale.



Premium Colors

Standard Colors



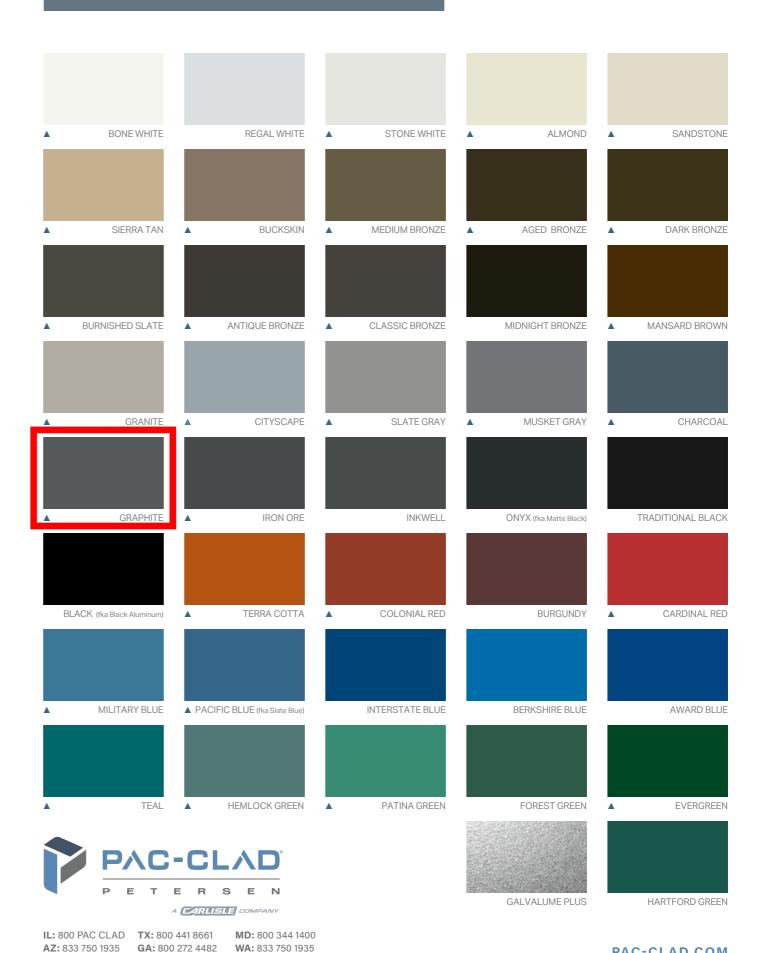
Timber Series Wood Grain

Available in 24 gauge steel and .032 aluminum.



70% polyvinylidene fluoride (PVDF) pre-finished steel and aluminum for all architectural cladding applications.

Metallic Colors \$ Pricing ▲ Cool Colors Premium Colors



Performance and Availability

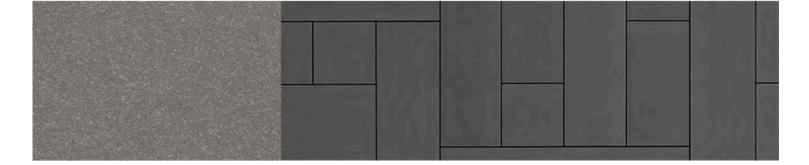
PAC-CLAD	REFLECTIVITY	EMISSIVITY	3 YEAR	SRI	21	EEL		ALUN	IINUM		2U-IN	I. COIL
STANDARD COLORS	KEILEGIIVIII	LMISSIVIII	EXPOSURE	JILI	24 GA.	22 GA.	.032	.040	.050	.063	24 GA.	.032
AGED BRONZE	0.29	0.87	0.27	29	~						~	
ALMOND	0.63	0.85	0.55	75	~	~	~	~	~			
ANTIQUE BRONZE NEW	0.28	0.86	N/A	27	~		~	~			~	~
AWARD BLUE†	0.25	0.86	0.23	24	~		~					
BERKSHIRE BLUE *	0.29	0.86	0.27	29	~							
BLACK (FKA BLACK ALUMINUM)	0.05	0.90	0.04	0	~	~	~	~	~	~	~	~
BONE WHITE	0.70	0.86	0.69	85	~	~	~	~	~	~	~	~
BUCKSKIN NEW	0.37	0.86	N/A	39	~		~				~	~
BURGUNDY	0.24	0.86	0.13	22	~						~	
BURNISHED SLATE	0.32	0.86	0.31	33	~						~	
CARDINAL RED†	0.44	0.86	0.44	49	~		~				~	~
CHARCOAL	0.30	0.87	0.30	31	~		~	~	~		~	~
CITYSCAPE	0.05	0.87	0.50	57	~	~	~	~	~		~	~
CLASSIC BRONZE * NEW	0.27	0.87	N/A	27	~						~	
COLONIAL RED	0.34	0.87	0.31	36	~		~	~	~		~	~
DARK BRONZE	0.27	0.86	0.29	26	~	~	~	~	~	~	~	~
EVERGREEN	0.10	0.86	0.26	4	~							
FOREST GREEN	0.10	0.88	0.10	5	~		~	~			~	_
GRANITE *	0.32	0.86	0.33	33	~	~	~	~	~			
GRAPHITE	0.25	0.86	0.28	24	~		-				~	i i
HARTFORD GREEN	0.08	0.88	0.08	3	~			~			~	
HEMLOCK GREEN	0.31	0.87	0.30	32	~		~				~	
NKWELL* NEW	0.27	0.86	N/A	26	~						~	_
NTERSTATE BLUE	0.27	0.87	0.15	12	~		~		_		~	-
RON ORE NEW	0.10	0.87	N/A	27	~		~	~	~		~	-
MANSARD BROWN	0.27	0.87	0.31	32	~	~	~	~	~		~	-
ONYX (fka MATTE BLACK STEEL)	0.26	0.85	0.25	24	~	~	_	_	_		~	_
MEDIUM BRONZE	0.30	0.88	0.29	31	-	~	~		~	~	~	~
MIDNIGHT BRONZE	0.06	0.88	0.29	1	~		_		_	_		_
				32				~			V	
MILITARY BLUE	0.31	0.87	0.30		~		•				~	~
MUSKET GRAY	0.32	0.87	0.31	33	~	~	· ·		~		Y	· ·
PACIFIC BLUE (fka SLATE BLUE)	0.28	0.87	0.27	28	~		~				~	~
PATINA GREEN	0.33	0.86	0.32	34	~							
REGAL WHITE NEW	0.66	0.86	N/A	79	~		~	~			~	~
SANDSTONE	0.48	0.87	0.48	55	~	~	~	~	~	~		-
SIERRA TAN	0.38	0.85	0.31	40	~	~	~	~	~		~	~
SLATE GRAY	0.41	0.87	0.37	45	~	~	~	~	~		~	~
STONE WHITE	0.69	0.86	0.67	84	~	~	~	~	~	~		-
TEAL	0.31	0.87	0.32	32	~		~					
TERRA COTTA	0.35	0.87	0.33	37	~		~		~		~	~
TRADITIONAL BLACK * NEW	0.28	0.87	N/A	28	~		~				~	~
PAC-CLAD PREMIUM COLI	DRS											
ANODIC CLEAR	0.53	0.81	0.31	60				~				
CHAMPAGNE	0.40	0.78	0.49	40	~		~	~	~			-
COPPER PENNY	0.50	0.86	0.52	57	~		~	~			~	~
SILVER	0.47	0.82	0.46	52	~	~	~	~	~		~	~
SILVERSMITH	0.54	0.81	0.32	61				~				
WEATHERED STEEL	0.26	0.86	N/A	25	~							
WEATHERED ZINC	0.24	0.83	0.46	21	~	~	~		~		~	~
ZINC	0.33	0.84	0.38	33	~		~	~				~
CLEAR-COAT ACRYLIC FIN	IISH (NON-PVDF))										
	0.68	0.14	0.55	57	~	~					~	

PAC-CLAD Premium finishes are available from stock at a moderate extra cost. PAC-CLAD Copper Penny is a Non-Weathering finish. Solar Reflectance Index calculated according to ASTM E-1980. Reflectivity and solar reflectance index (SRI) values are provided by Sherwin-Williams

* Low Gloss/Low Sheen, 70% PVDF finish † 10-year finish warranty

TECHNICAL DATA FOR 70% PVDF COATING:

- South Florida Exposure: Color (ASTM D 2244) No more than $5\Delta E$ Hunter units at 20 years; Chalk (ASTM D 4214) – Rating no less than 8 at 20 years; Film integrity – 20 years.
- Accelerated Weathering (ASTM D 4587, ASTM G 154): 5000 Hours; Chalk, per ASTM D 4214, rating of 6 or better; Color, per ASTM D 2244, < 5∆E (Hunter Units) color change.
- Chemical/Acid Pollution Resistance (ASTM D 1308): Pass
- T-Bend (ASTM D 4145): 1T 3T with no loss of adhesion
- Humidity Resistance (ASTM D 2247): Galvalume or HDG, 100% RH, 2000 hours - No field blisters; Aluminum, 100% RH, 3000 hours - No field blisters
- Salt Spray Resistance (ASTM B 117): Aluminum: 3000 hours, creep from scribe no more than 1/16" (2mm), no field blisters. Galvalume or HDG:2000 hours, creep from scribe no more than 1/8" (4mm), no field blisters
- ▶ Pencil hardness (ASTM D 3363): HB 2H
- Specular Gloss (ASTM D 523) @ 60 degrees: Typical 20 35
 Abrasion Resistance (ASTM D 968): 80 Liters/Mil +/- 5 Liters
- Cross Hatch Adhesion (ASTM D 3359): No loss of adhesion
- Reverse Impact (ASTM D 2794): Galvalume or HDG, 2x metal thickness inch-pounds, no loss of adhesion; Aluminum, 1.5x metal thickness inch-pounds, no loss of adhesion
- Flame Test (ASTM E 84): Class A Coating





EQUITONE [natura] PRO Material Information Sheet

1. Product Appearance

EQUITONE [natura]PRO is a high-densityfiber cement panel with a through-colored core and a colored semi-transparent double-layer acrylic finish which results in the structure (fibers) of the material shining through.

The surface finish is matt with a UV-hardened PU topcoat (front side), providing a hard, dirt-resistant surface finish with high abrasion resistance and permanent and durable graffiti protection.

Irregularities, differences in shade, and traces of the manufacturing process are part of the natural characteristics of the material. The rear receives a transparent back-sealing coating.

2. Color

EQUITONE [natura] PRO is available in a wide range of standard and special colors, manufactured based on various through-colored core/baseboards as shown on the color chart below.

Color variations are part of the natural characteristics of the material. The allowable tolerance of shade between the EQUITONE [natura] PRO materials is minimal and is measured according to the CIELAB color model. The allowable dry mean averages of three readings are ΔL (brightness) of ± 2.0 , Δa (+red/-green) of ± 1.0 , and Δb (+yellow/-blue) of ± 1.0 compared to the production benchmark sample and measured with the same device.

Available colors



Note: It is not possible to realistically show available colors in literature, therefore the final choice of colors should be made with samples. Please order your samples on the website www.equitone.com.



3. Product Composition

EQUITONE[natura]PRO panels consistofcement, water, mineral fillers, cellulose fibers, synthetic reinforcing fibers, inorganic color pigments (depending on the color), an acrylic coating, and a UV-cured functional top layer.

4. Production Method

EQUITONE [natura]PROisahighlycompressed, air-cured fiber cement material manufactured in Germany (Europe).



EQUITONE [natura] PRO panels are manufactured through the Hatschek process where the base materials which are mainly cement, fibers, cellulose, pigments, and water are first mixed together to form a slurry. This slurry is then pumped into several vats with rotating cylindrical sieves on the surface of which a film of fiber cement is formed through a sieving mechanism as they rotate, which is then transferred to a felt belt traveling overhead. This thin layer of fiber cement is then dewatered before being transferred via the felt belt to a forming drum on which several layers of fiber cement are collected and squeezed together until the required thickness is achieved. Once this occurs, this fresh sheet of fiber cement is cut by an automatic cutting knife. A conveyor then transports the sheet to where all the sheets are stacked with an interleaving steel plate. The stacked sheets are then highly compressed, resulting in a high-density material.

This is followed by a curing process where the panels harden under ambient temperature and without vapor pressure.

Subsequently EQUITONE [natura] PRO receives an industrially applied multiple-layer coating on the front face, and a physically equivalent sealing coating on the rear face. Finally, a UV-hardened PU topcoat is applied to the front side.

In case of factory-trimmed panels the edges are trimmed and additionally sealed with Luko edge sealer.

5. Dimensions and Tolerances (Imperial)

EQUITONE [natura] PRO isavailable in a standard thickness of 5/16" and in 15/32" thicknesses for specific applications or fixings. The panels are available in either untrimmed (production dimension) or trimmed (maximum usable size) formats.



The panel must not be installed with untrimmed edges. Approximately 19/32" needs to be trimmed from each of the untrimmed (raw) edges. Cut edges need to be sealed with Luko edge sealer.

Dimensions		
Thickness	5/16 in	15/32 in
Width		

Width	
Trimmed	49 in
Untrimmed	50 in

Length	
Trimmed	98 in or 122 in
Untrimmed	99 1/2 in or 123 in

Tolerances1 (for cut and trimmed panels)			
Thickness	± 0.0236 in	± 0.0354 in	
Width	± 0.0394 in		
Length	± 0.0394 in		
Squareness	± 0.0394 in/ft		

Tolerances1 (for untrimmed panels)			
Thickness	± 0.0236 in	± 0.0354 in	
Width	± 1/4 in		
Length	± 5/16 in		
Squareness	± 0.0394 in/ft		

Weight per m² (air dry)		
	3.15lb/ft²	4.67lb/ft²

Weight per panel (without pallet)		
98 x 49 in (trimmed)	106lb	157lb
122 x 49 in (trimmed)	132lb	195lb
99 1/2 x 50 in (untrimmed)	110lb	163lb
123 x 50 in (untrimmed)	136lb	202lb

Packaging		
Number of panels on a pallet	30	20

Usable surface per pallet		
98 x 49 in (trimmed)	1010 ft ²	673 ft ²
122 x 49 in (trimmed)	1250 ft ²	834 ft²

Color tolerance (CIELAB) 2	
ΔL*, brightness	± 2.0
Δa*, + red/ - green	± 1.0
Δb^* , + yellow/ - blue	± 1.0

¹ Factory tolerances for trimmed and untrimmed panels outperform the requirements of the EN 12467 Level I and II dimensional tolerances, respectively; as well as all criteria set forth on ASTM C1185.

² Color tolerance are only to be measured on dry surfaces.

³ Imperial values are approximate and are based on the metric values.

5.1 Dimensions and Tolerances (Metric)

EQUITONE [natura] PRO isavailable in a standard thickness of8mmand in 12 mm thicknesses for specific applications or fixings. The panels are available in either untrimmed (production dimension) or trimmed (maximum usable size) formats.



The panel must not be installed with untrimmed edges. Approximately 15 mm needs to be trimmed from each of the untrimmed (raw) edges. Cut edges need to be sealed with Luko edge sealer.

Dimensions		
Thickness	8 mm	12 mm

Width	
Trimmed	1250 mm
Untrimmed	1280 mm

Length	
Trimmed	2500 mm or 3100 mm
Untrimmed	2530 mm or 3130 mm

Tolerances1 (for cut and trimmed panels)				
Thickness	± 0.6 mm ± 0.9 mm			
Width	± 1 mm			
Length	± 1 mm			
Squareness	± 1.0 mm/m	± 1.0 mm/m		

Tolerances1 (for untrimmed panels)			
Thickness	± 0.6 mm ± 0.9 mm		
Width	± 6 mm		
Length	± 8 mm		
Squareness	± 1.0 mm/m		

Weight per m² (air dry)		
	15.4kg/m²	22.8kg/m²

Weight per panel (without pallet)		
2500 x 1250 mm (trimmed) 3100	48.1kg	71.3kg
x 1250 mm (trimmed) 2530 x	59.7kg	88.4kg
1280 mm (untrimmed) 3130 x	49.9kg	73.8kg
1280 mm (untrimmed)	61.7kg	91.4kg

Packaging		
Number of panels on a pallet	30	20

Usable surface per pallet		
2500 x 1250 mm (trimmed)	93.75 m²	62.5 m ²
3100 x 1250 mm (trimmed)	116.25 m²	77.5 m²

Color tolerance (CIELAB) 2	
ΔL*, brightness	± 2.0
Δa*, + red/ - green	± 1.0
Δb*, + yellow/ - blue	± 1.0

¹Factory tolerances for trimmed panels outperform the requirements of the EN 12467 Level I dimensional tolerances.

 $^{^{2}}$ Color tolerance are only to be measured on dry surfaces.

6. Material Properties (ASTM)

Flexural strength classification		ASTM	Grade III	
Dimensional tolerances for trimmed panels		C1186	Pass	
		ASTM		
Physical requirements and characteristics		C1186		
Mean density	dry	ASTM C1185	111.8	lb/ft³
Moisture movement	30-90 %	ASTM C1185	≤0.1	%
Flexural strength ultimate1	dry	ASTM C1185	3,358	psi
Flexural strength ultimate1	wet	ASTM C1185	2,160	psi
Water tightness		ASTM C1186	Pass	
Moisture content		ASTM C1185	3.9	%

Durability requirements			
Frost resistance (freeze/thaw)	ASTM C1186	Pass	
Warm water resistance test	ASTM C1186	Pass	
Mean water absorption	ASTM C1185	14.5	%

Fire and safety			
Material burning characteristics	ASTM E84	Class A	
Flame spread index		0	
Smoke development index		0	
Assembly fire resistance rating	ASTM E119	1	hr.
Hose stream test	ASTM E119	Pass	
Vertical tube furnace (B)	ASTM E136	Pass, Non-	-combustible

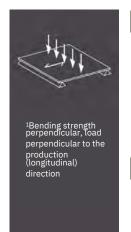
Other characteristics				
Thermal movement	α	-	5.5e-6	in/in°F
Thermal conductivity	λ	ASTM C518	0.236	BTU/h ft°F

Notes:

- 1. Appropriate safety factors should be applied to ultimate values.
- 2. EQUITONE [natura] PRO cladding panels strength classification conforms to the requirements of ASTM C1186 "Standard Specifications for Flat Fiber-Cement Panels."
- 3. EQUITONE [natura] PRO cladding panels have been evaluated per ICC acceptance criteria AC90 to meet the minimum requirements of the International Building Code (IBC).
- 4. Results are in accordance with the procedures defined in ASTM C1185 "Standard Test Methods for Sampling and Testing Non-Asbestos Fiber-Cement Flat Sheet, Roofing and Siding Shingles, and Clapboards."

6.1 Material Properties (EN)

EQUITONE [natura]PROcladdingpanels conformtothe requirements of EN 12467:2012+A1:2018 "Fiber cement flat sheets – Product specification and test methods." The results below are presented as defined by the standard.



Classification		
Type of product	EN 12467	NT
Durability classification	EN 12467	Category A
Strength classification	EN 12467	Class 4
Dimensional tolerances for trimmed panels	EN 12467	Level I
Dimensional tolerances for untrimmed panels	EN 12467	Level II

		EN 12467	No drops/Pass	
Water impermeability test	ambient	EN 12467	12,000	MPa
Mean module of elasticity	ambient	-	2.0	-
Partial safety factor ym³	ambient	EN 12467	18.5	MPa
Characteristic bending strength par.2	ambient	EN 12467	24.0	MPa
Characteristic bending strength perp.1	30-90 %	EN 12467	≤0.1	%
Moisture movement	-	-	0.26	kN/m2
Characteristic dead load gk (12 mm)	-	-	0.17	kN/m2
Characteristic dead load gk (8 mm)	dry	EN 12467	1750	kg/m³
Physical requirements and characteristi Mean density	CS			



Freaz-Pathawstest for Gategory A panel		
Warm water test Soak-dry test	EN 12467 Pass	
	EN 12467 Pass	
	EN 12467 Pass	

Fire and safety		
Material fire classification	EN 13501	A2-s1,d0
Flame spread rating	ULC S102	0
Smoke development classification	ULC S102	5
Material combustibility	ULC S114	Non-combustable

Other characteristics				
Thermal movement	α	-	0.01	mm/mK
Thermal conductivity	λ	ASTM C518	0.407	W/mK
Moisture content at 20°C, 65 % humidity		-	<6	M%
Brinell surface hardness (HBWmean)		ISO6506-1	75	N/mm2
Poisson's ratio		-	0.2	-

Note to the units: 1 K (degree Kelvin) = 1°C, 1 MPa (Mega Pascal) = 1 N/mm², M.-% = mass percentage Note: EQUITONE [natura] PRO panels also comply with the requirements of ISO8336:2017 "Fiber-cement flat sheets - Product specification and test methods." The EQUITONE [natura] PRO surface has the following properties: ☐ Oesterle scratch resistance 2.5 N ☐ Mohs hardness 4 ☐ Pencil hardness 4H ☐ Indentation test 6 N according to DIN 53153, EN ISO 2815 The UV-hardened surface coating is smooth and easy to clean. It offers high protection against normal and spray paints. The anti-graffiti coating satisfies the placement test requirements and those of Test Cycle 2 of the quality control association Gütegemeinschaft Anti-Graffiti e.V. for protective anti-graffiti surface systems (ILF test report 4-013/2006 of the Institut für Lacke und Farben e.V.). Graffiti can be removed with the usual graffiti cleaning agents available in the trade. 7. Advantages Providing the application guidelines are followed, EQUITONE [natura] PRO fiber-cement panels have the following superior mix of properties compared to other materials: ☐ Recyclable according to Environmental Product Declaration (EPD) ☐ Expected average reference service life of 50 years (based on EPD) ☐ Fire safe (no fire ignition, no spread of fire) ☐ Improved sound insulation of the facade □ UV-resistant ☐ Resistant to extreme temperatures and frost ☐ Weather resistant ☐ Resistant to many living organisms (fungi, bacteria, insects, vermin, etc.) ☐ Resistant to many chemicals ☐ Material appearance due to transparent coating ☐ Strong, rigid panels ☐ Hail impact tested ☐ Permanent and durable graffiti protection. Working with the material: ☐ The material is easy to drill, cut, and install with the proper tools □ Do not use adhesive, tapes, and/or sealants on the finished surfaces of the material 8. Applications EQUITONE [natura] PRO can be used in several ventilated applications, including, but not limited to: ☐ Ventilated facade / rainscreen cladding □ Window and door reveal ☐ Exterior ceiling: decorative cladding of ceiling

9/11

☐ Soffits, eaves, and verge boards

Interior wall and ceiling lining (subject to local regulations)Roof applications or inclined facades with panels facing up

For restrictions on the above-mentioned applications read the specific application guidelines.

The panels may be face or concealed-fixed with Etex proprietary or recommended fixing solutions.

EQUITONE [natura] PRO cannot be used in the following applications, but not limited to: Internal applications exposed to direct moisture e.g. wet areas, situations with direct contact with standing snow or ice, applications where exposed to long-term temperatures exceeding 80°C / 176°F.

9. Health and Safety Aspects

During the mechanical machining of panels, dust can be released which can irritate the airways and eyes. Depending on the working conditions, adequate machinery with dust extraction and/or ventilation should be foreseen. The inhalation of fine (respirable size) quartz-containing dust, particularly when in high concentrations or over prolonged periods of time can lead to lung disease and an increased risk of lung cancer. For more information, please visit www.equitone.com for the most recent Safety Information Sheet.

10. Maintenance and Cleaning

Refer to the relevant "EQUITONE Cleaning Information" Guide.

11. Certification











The manufacturer can - within the framework of the European Regulation N° 305/2011 (CPR) - present the Declaration of Performance (DOP) of the product such confirming that the product has a CE marking. The CE marking guarantees that the product is in accordance with the basic requirements determined by the harmonized European standard and applicable to the product. The Declaration of Performance is presented in accordance with the CPR and can be found at www.equitone.com.

EQUITONE [natura] PRO is certified with an Environmental Product Declaration according to ISO 14025 or EN 15804. The life cycle assessment includes raw material and energy production, the actual manufacturing phase, and the use phase of the fiber cement panels. More information is available in the Material Sustainability Datasheet.

EQUITONE fiber cement façade materials have also achieved a cradle-to-cradle bronze rating according to C2CPII version 3.1. The cradle-to-cradle product innovation institute evaluates products based on five categories: material health, product circularity, clean air and carbon, water and soil stewardship, and social fairness. More information can be found at www.equitone.com.

EQUITONE air-cured products are certified with an ESR report according to ICC AC90. AC90 evaluates the physical properties, weather resistance, wind load resistance, durability, and fire resistance of fiber cement products for use as exterior siding. More information is available in the ESR 3910 report.

The	manufactu	ring facility holds the latest versions of the following ISO certificates
	ISO 9001	Quality Management System
	ISO 14001	Environmental Management System
	ISO 45001	Occupational Health and Safety
	ISO 50001	Energy Management System

12. Information



Please visit www.equitone.com for contact details, further information, and technical documents.

Disclaimer

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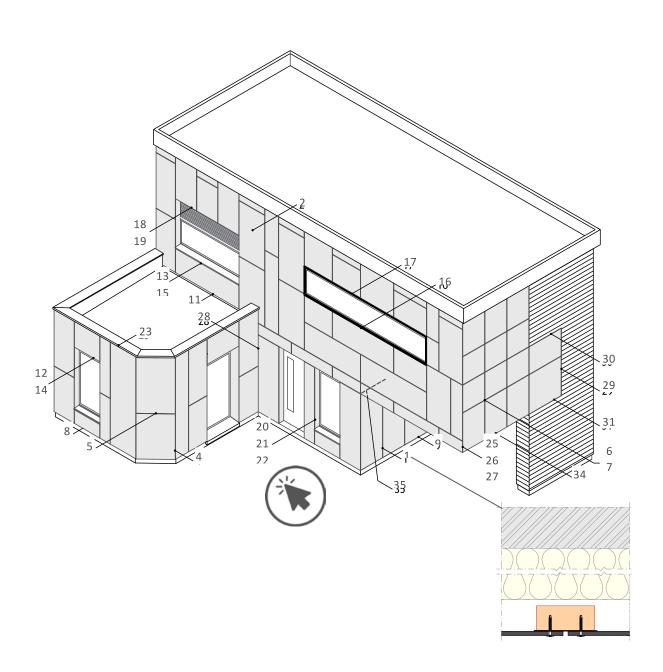
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Construction details
Face fixings on timber support frame





Go to Content

Content	Detail No.	Page
General information		<u>3</u>
Components		4
Support frame		7
Ventilation		<u>8</u>
Vertical joint	<u>1</u>	<u>10</u>
Intermediate support	<u>2</u>	<u>10</u>
Vertical control joint	<u>3</u>	<u>11</u>
Vertical joint at angle	<u>4</u>	<u>11</u>
Open horizontal joint junction with vertical joint	<u>5</u>	<u>12</u>
Open horizontal movement joint	<u>6</u>	<u>13</u>
Baffled horizontal movement joint	<u>7</u>	<u>13</u>
Base detail – Ground level	<u>8</u>	<u>14</u>
Base detail – Covered area (not exposed to direct precipitation)	<u>9</u>	<u>14</u>
Base detail – Balcony	<u>10</u>	<u>15</u>
Base detail – Flat roof / Parapet	<u>11</u>	<u>15</u>
Window head – Option 1	<u>12</u>	<u>16</u>
Window sill – Option 1	<u>13</u>	<u>16</u>
Window head – Option 2	<u>14</u>	<u>17</u>
Window sill – Option 2	<u>15</u>	<u>17</u>
Window head – Flush window	<u>16</u>	<u>18</u>
Window sill – Flush window	<u>17</u>	<u>18</u>
Window head – With sunscreen	<u>18</u>	<u>19</u>
Window head – With shutter	<u>19</u>	<u>20</u>
Window jamb – Option 1	<u>20</u>	21
Window jamb – Metal flashing	<u>21</u>	<u>21</u>
Window jamb – Option 2	<u>22</u>	22
Capping	<u>23</u>	<u>23</u>
External corner	<u>24</u>	<u>24</u>
External corner with wind barrier	<u>25</u>	<u>25</u>
Internal corner	<u>26</u>	<u>26</u>
Abutment	<u>27</u>	<u>26</u>
Junction with other facade material — Head detail	<u>28</u>	<u>27</u>
Junction with other facade material — Base	<u>29</u>	<u>27</u>
Segmented façade – Radius < 39 ft	<u>30</u>	<u>28</u>
Curved façade − Radius ≥ 39 ft	<u>31</u>	<u>28</u>
Soffit/ceiling-wall junction	<u>32</u>	<u>29</u>
Wall-soffit/ceiling junction	<u>33</u>	<u>30</u>
Junction with panels with concealed fixings	<u>34</u>	<u>31</u>

General information

This document provides generic construction details for EQUITONE façade systems with UNI Screw panel face fixings on timber batten support frame to assist with the design of EQUITONE façade.

This document is not designed to serve as an installation guide and is intended to be used in conjunction with EQUITONE Planning and Application Guide face fixings on metal support frame' and other relevant technical and installation documents.

The details included in this document only illustrate general principles for detailing of EQUITONE at different typical interfaces; and are not to be relied upon for weatherproofing and fire safety compliance with local regulations. The weatherproofing and fire performance of any project specific detail or application shall be evaluated by the project engineer or consultant.

Any components related to wind barriers, fire safety, moisture management and weather proofing including but not limited to membranes, flashings, water seals and sealants, airtightness tapes, horizontal and/or vertical fire barriers, etc, will need to be applied according to local regulations, project requirements and relevant standards.

The support frame, fixings, flashings, and the like shall be of adequate corrosion resistance appropriate to the corrosivity category of the project location.

All dimensions in this document are in inches [in] unless otherwise stated.

The information in this guide is comprehensive but not exhaustive, and the reader will need to satisfy themselves that the contents of this guide are suitable for their intended application. It is the responsibility of the project consultants (designer, architect, and engineers) to ensure that the information and details provided in this document are appropriate for the project.

The information in this document is correct at the time of issuing. However, due to our committed program of continuous material and system development we reserve the right to amend or alter the information contained in this document without prior notice. Please visit www.equitone.com to ensure you have the most current version.

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Please visit www.equitone.com for contact details and further information and technical documents.

Components

Materials













EQUITONE [linea]

EQUITONE [lunara]

EQUITONE [tectiva]

EQUITONE [natur [natura] PRO

EQUITONE [pictura]

EQUITONE [textura]

Maximum usable panel sizes (metric)

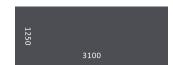
EQUITONE [linea] 10 mm
EQUITONE [lunara] 10 mm
EQUITONE [tectiva] 8 & 10 mm





EQUITONE [natura] 8 & 12 mm
EQUITONE [natura] PRO 8 & 12 mm
EQUITONE [pictura] 8 & 12 mm
EQUITONE [textura] 8 & 12 mm





Maximum usable panel sizes (imperial)

EQUITONE [linea] 10 mm
EQUITONE [lunara] 10 mm
EQUITONE [tectiva] 8 & 10 mm





 EQUITONE [natura]
 5/16 & 15/32 in

 EQUITONE [natura] PRO
 5/16 & 15/32 in

 EQUITONE [pictura]
 5/16 & 15/32 in

 EQUITONE [textura]
 5/16 & 15/32 in





Panel fixings: UNI-Screw

Color matched and available in the following materials and grades:

Stainless Steel A2 (304) - Material number 1.4567

Available with additional protective coating (C5 acc. ISO 12944-2) for use in e. g. $\,$

coastal areas

Stainless Steel A4 (316) - Material number 1.4403

Available with additional protective coating (C5 acc. ISO 12944-2) for use in e. g.

coastal areas

UNI-Screws have a drillpoint.

The screw has a Torx TTAP20 socket cap. Standard T20 bits can also be used.

Panel fixings: Screw collar

Stainless Steel 304 (A2) - Material number 1.4569

Must be used together with UNI-Screw when fixing EQUITONE [natura] PRO and EQUITONE [pictura].



Each panel thickness has its own corresponding UNI-Screw.

Panel type	Screw type
8 mm EQUITONE [natura]	
8 mm EQUITONE [natura] PRO	
8 mm EQUITONE [pictura]	
8 mm EQUITONE [textura]	5,5x40 DP K15 UNI-Screw
EQUITONE [tectiva]	
EQUITONE [linea]	
EQUITONE [lunara]	
12 mm EQUITONE [natura]	
12 mm EQUITONE [natura] PRO	5,5x50 DP K15 UNI-Screw
12 mm EQUITONE [pictura]	
12 mm EQUITONE [textura]	

Panel hole size is 7 mm, drilled with 7 mm EQUITONE drill bit.

UNI-Screw recommended panel edge distance:

From the edge parallel to support frame: 1-4 in (Bare minimum 3/4 in)

From the edge perpendicular to support frame: 2 3/4 - 4 in



EPDM tape

Black UV resistant EPDM used over timber battens Used to protect the timber against moisture ingress.

Available as flat tape or as tape with ridges in different widths to suit a range of support frame batten widths.

Flat tape: 2 3/4, 4, 5 in Ribbed tape: 1 3/4, 3 9/16 in

Thickness: ≥ 1/16 in

1/32 in thick EPDM- flat tape can only be used to cover the battens

behind corner profiles.



Perforated Closure

Aluminum perforated profile used to close the cavity entry and outlet to prevent the entry of birds and vermin.

Available in four different widths to suit a range of cavity thicknesses and two different colors: uncoated aluminum and black coated aluminum. The perforation rate is approximately 35 %.



Baffle

Black coated aluminum baffle used to close and form expressed panel horizontal joint.

The profile has a thickness of 1/32 in.



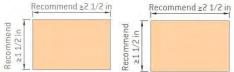
Support frame

Batten dimensions are valid only for Uni-screws with Drill-Point. For Uni-screws with Sharp-Point, batten widths need to be increased according to local regulations and relevant standards.

Timber battens

Minimum thickness: 1 1/4 in

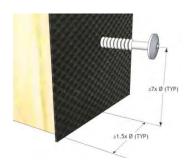
Minimum width for intermediate batten: 2 in



Minimum width for vertical joint support: 4 21/64 in or two 2 11/64 in studs







Edge distance from batten end: minimum of seven time the \emptyset of the fastener

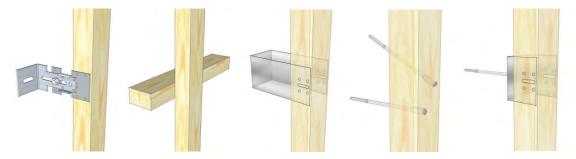
Note: The above values are recommended minimums and could be greater according to local regulations and standards, local standard sizes of battens and static calculation.

Timber batten fixings

The details in this document don't include batten fixings.

There are various number of fixings methods, very often based on local habits and construction methods:

- Adjustable brackets placed alternately to the left and the right of the vertical ba
- Construction with counter battens
- U-shaped batten holders
- Window frame dowel (distance screws)
- Batten holders with spacer



Notes

The cladding support frame and its connection to the substructure shall be designed and selected by the project engineer in accordance with the relevant standards. The support frame maximum deflection under the influence of load shall be limited to Span/300 with a maximum of 5/32 in, excluding the influence of creep. Timber framing must comply with local standards.

The minimum recommended grade of structural batten is Class C24 according to EN 14081-1 . Local specific requirements must be adhered to as well.

Timber batten must be sufficiently durable for the application in accordance with applicable local regulations. Timber shall be seasoned or have reached an equilibrium moisture content of 20% or less at the time of installation. Unseasoned timber is not recommended.

Ventilation

A ventilated façade is a kind of two stage construction, an inner structure with a protective outer skin, and the cladding panel or rainscreen. A ventilated façade consists of an insulated and weathertight structure, a ventilated cavity formed with a cladding support frame and the cladding panel.

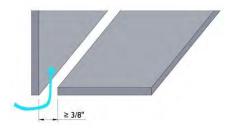
The bare minimum clear gap (cavity width) for ventilation behind the panels is 3/4 in and may need to be increased based on the vertical distance between ventilation inlet and outlet. Typical cavity width will be governed by the framing dimensions and be approximately $1 \, 3/16 - 2 \, 3/8$ in.

Air must be allowed to enter the cavity from bottom of the façade, window head, soffit, slab junctions, and the like, and exit from top of the façade, capping, window sill, slab and soffit interfaces, and the like.

The size of inlets and outlets should be executed as stipulated in this document and the Planning & Application Guide or according to local standards and building regulations. The following requirements are bare minimums.

Ventilation without perforated closure

The size of ventilation inlet and outlet should be a minimum of 3/8 in (\geq 4,75 in² / foot) and may need to be increased depending on local regulations and/or the vertical distance between inlets and outlets (cladding height).

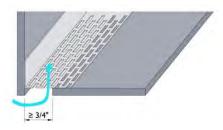


Ventilation with perforated closure

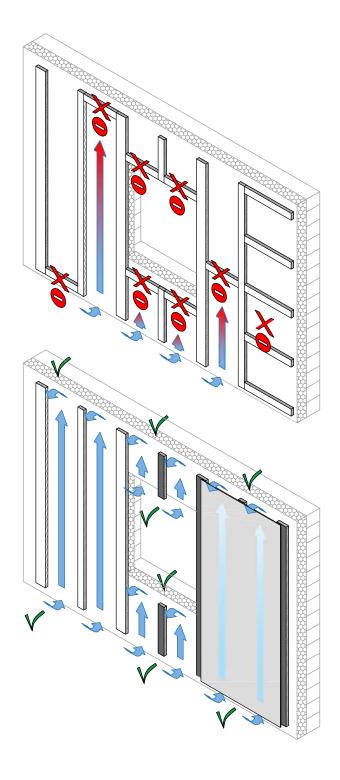
If by local regulations the use of a perforated closure is required e. g. to vermin proof the cavity then the size of the inlet and outlet must be increased depending on the open area percentage of the used profile to achieve a bare minimum open area of more than 4,75 in 2 / foot. E.g., in case of a 35 % perforated closure the minimum open gap should be minimum 1 3/16 in.

The minimum open area may need to be increased depending on local regulations and/or the vertical distance between the ventilation inlet and outlet (cladding height)

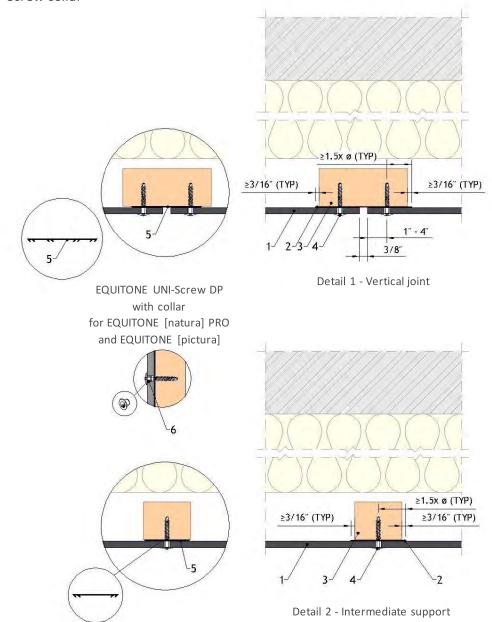
The perforated angle should be less than 1/32 in in thickness when placed between EQUITONE and the support frame



Important points to consider (Do's and Don'ts): Air flow

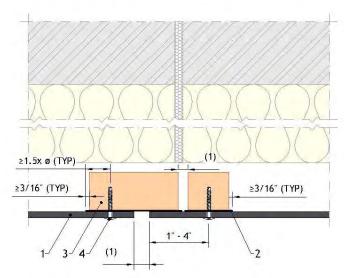


- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw
- 5. Alternative ribbed EPDM⁽²⁾
- 6. Screw collar

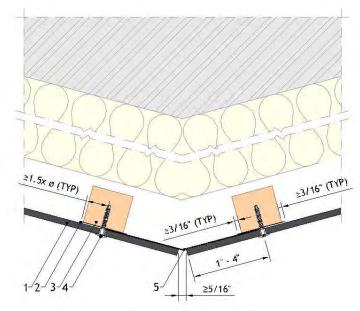


- 1) Flat EPDM should always overhang the batten by minimum 3/16" at each side.
- 2) In the case of open horizontal joints the ribbed EPDM should cover the batten completely and preferably overhang the batten by 3/16" at each side.
- 3) In case of ribbed EPDM the screw should be located between the ridges.

- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw
- 5. Optional EPDM or flashing



Detail 3 - Vertical control joint



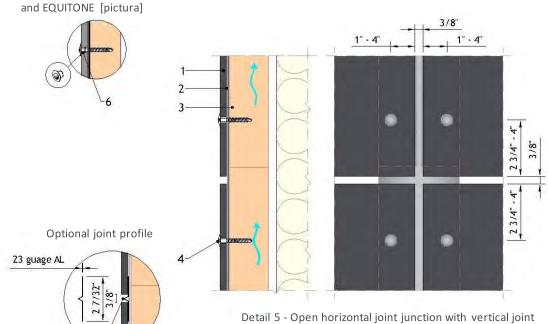
Detail 4 - Vertical joint at angle

- 1) The width of the the facade control joint should be equal or greater than the building control joint.
- 2) Flashings to close the joints may not be thicker as 1/32 in.
- 3) If an EPDM is used to close the joint, the battens must be close to the corner to provide a solid support.

- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw
- 5. Optional horizontal joint profile
- 6. Screw collar



EQUITONE UNI-Screw DP with collar for EQUITONE [natura] PRO

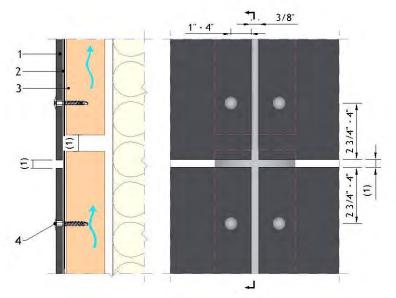


Notes:

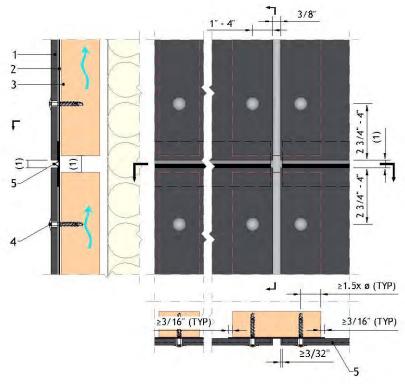
In the case of open horizontal joints the joint in the timber battens should be behind the upper panel.

- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw
- 5. Optional horizontal joint profile





Detail 6 - Open horizontal movement joint



Detail 7 - Baffled horizontal movement joint

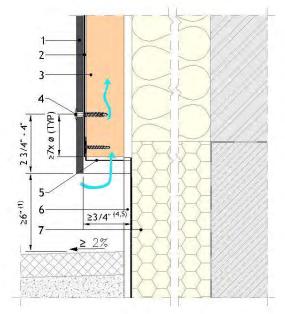
Note:

1) The width of the facade control joint should be equal or grater than the building movement joint

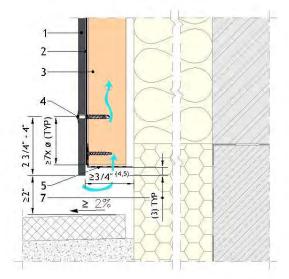
- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw
- 5. Perforated closure
- Skirting⁽²⁾ in EQUITONE [tectiva], EQUITONE [pictura], EQUITONE [textura]
- 7. Hard insulation suitable for use below ground level







Detail 8 - Base detail - Ground level

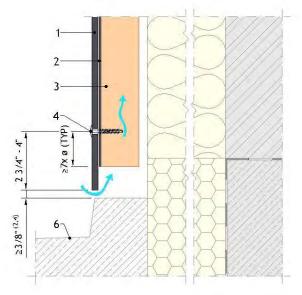


Detail 9 - Base detail – Covered area (not exposed to direct precipitation)

- 1) The distance to ground level is recommended to be, at minimu, 6 in. A smaller ground clearance is possible, bit it may increase the risk of water marks and panel staining caused by splash back.
- 2) The skirting board could be concrete, natural stone, render, metal flashing or EQUITONE.
- 3) The facade panel should preferably overhang more than 3/8 in below the ventilation profile to create a drip edge.
- 4) When the inlet/outlet is wider than 3/4 inch continuous, a perforated closure is recommended. Total perforation area should be a minimum of 4.75 in 2 per linear foot. This roughly equates to a minimum continuous opening of 3/8 inch.
- 5) Inlet/Outlet, air cavity, and closure perforation sizing should be increased, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide Face Fixing to Wood for additional information.

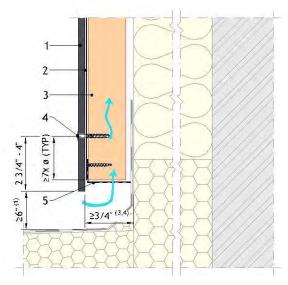
- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw
- 5. Perforated closure
- 6. Balcony floor





Detail 10 - Base detail - Balcony

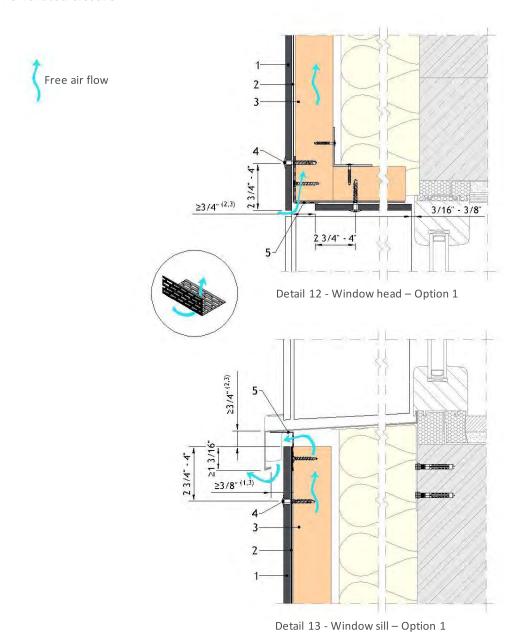




Detail 11 - Base detail - Flat roof / Parapet

- 1) The distance to the ground level is recommended to be, at minimum, 6 in. A smaller ground clearance is possible but it may increase the risk of water marks and panel staining caused by splash back.
- 2) Where a perforated closure is not obstructing the inlet/outlet, the opening should be a minimum of 3/8 inch continuous.
- 3) When the inlet/outlet is wider than 3/4 inch continuous, a perforated closure is recommended. Total perforation area should be a minimum of 4.75 in 2 per linear foot. This roughly equates to a minimum continuous opening of 3/8 inch.
- 4) Inlet/Outlet, air cavity, and closure perforation sizing should be increased, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide Face Fixing to Wood for additional information.

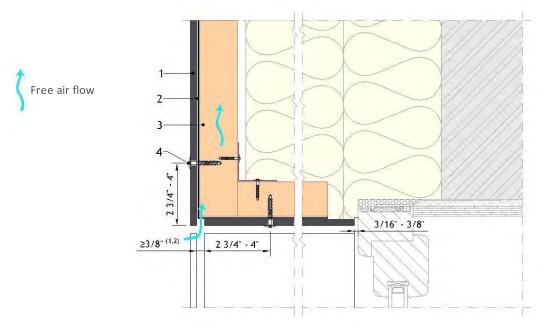
- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw
- 5. Perforated closure



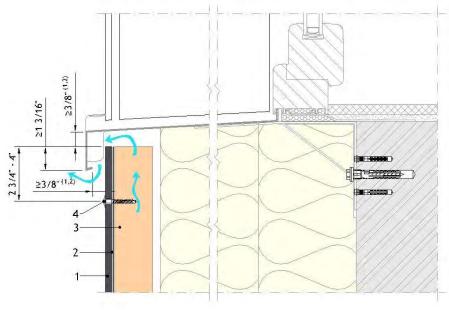
Notes:

- 1) Where a perforated closure is not obstructing the inlet/outlet, the opening should be a minimum of 3/8 inch continuous.
- 2) When the inlet/outlet is wider than 3/4 inch continuous, a perforated closure is recommended. Total perforation area should be a minimum of 4.75 in 2 per linear foot. This roughly equates to a minimum continuous opening of 3/8 inch.
- 3) Inlet/Outlet, air cavity, and closure perforation sizing should be increased, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide Face Fixing to Wood for additional information.

- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw



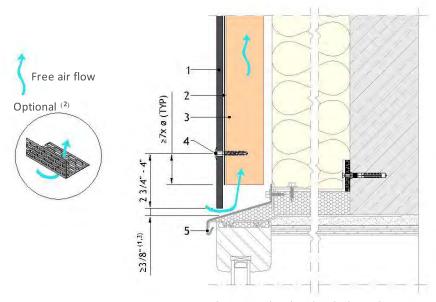
Detail 14 - Window head - Option 2



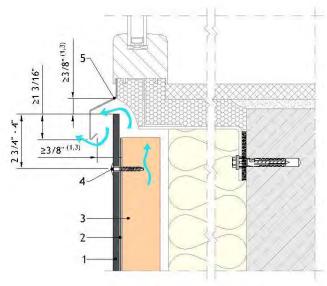
Detail 15 - Window sill - Option 2

- 1) Where a perforated closure is not obstructing the inlet/outlet, the opening should be a minimum of 3/8 inch continuous.
- 2) Inlet/Outlet, air cavity, and closure perforation sizing should be increased, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide Face Fixing to Wood for additional information.

- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw
- 5. Aluminum flashing



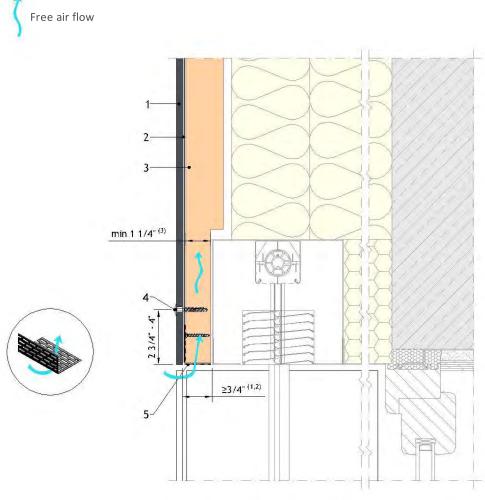
Detail 16 - Window head - Flush window



Detail 17 - Window sill - Flush window

- 1) Where a perforated closure is not obstructing the inlet/outlet, the opening should be a minimum of 3/8 inch continuous.
- 2) When the inlet/outlet is wider than 3/4 inch continuous, a perforated closure is recommended. Total perforation area should be a minimum of 4.75 in 2 per linear foot. This roughly equates to a minimum continuous opening of 3/8 inch.
- 3) Inlet/Outlet, air cavity, and closure perforation sizing should be increased, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide Face Fixing to Wood for additional information.

- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw
- 5. Perforated closure

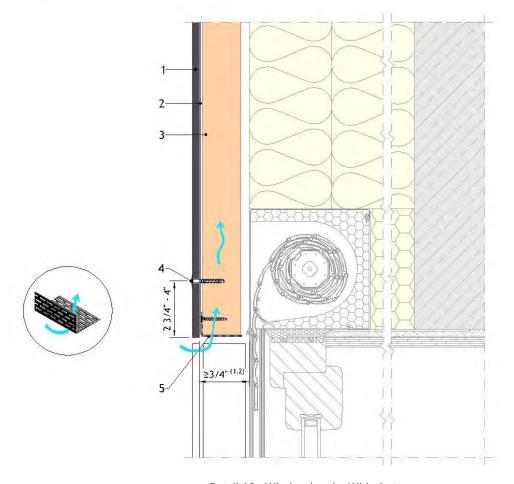


Detail 18 - Window head - With sunscreen

- 1) When the inlet/outlet is wider than 3/4 inch continuous, a perforated closure is recommended. Total perforation area should be a minimum of 4.75 in 2 per linear foot. This roughly equates to a minimum continuous opening of 3/8 inch.
- 2) Inlet/Outlet, air cavity, and closure perforation sizing should be increased, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide Face Fixing to Wood for additional information.
- 3) The reduced section of the support profiles must be taken into account during static calculations.

- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw
- 5. Perforated closure

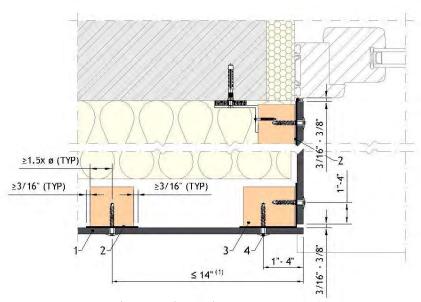




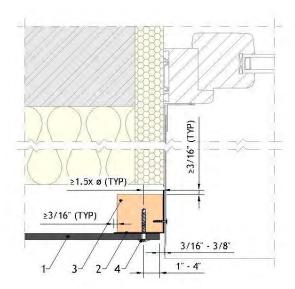
Detail 19 - Window head – With shutter

- 1) When the inlet/outlet is wider than 3/4 inch continuous, a perforated closure is recommended. Total perforation area should be a minimum of 4.75 in 2 per linear foot. This roughly equates to a minimum continuous opening of 3/8 inch.
- 2) Inlet/Outlet, air cavity, and closure perforation sizing should be increased, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide Face Fixing to Wood for additional information.

- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw



Detail 20 - Window jamb - Option 1

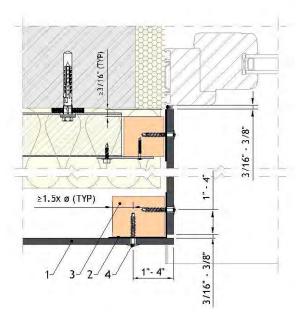


Detail 21 - Window jamb - Metal flashing

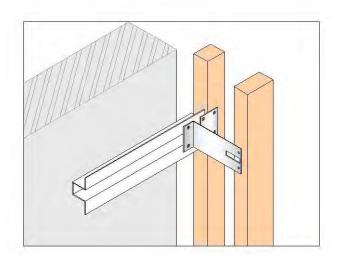
Note:

1) Panels with single span (panels with 2 columns of fixings) cannot be fixed to a floating angle like shown in the detail.

- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw



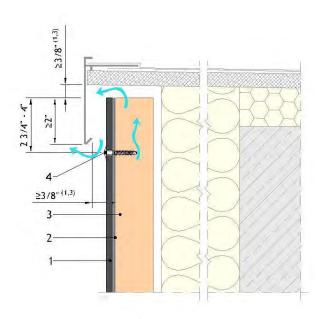
Detail 22 - Window jamb - Option 2



Isometric view of the support frame

- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw

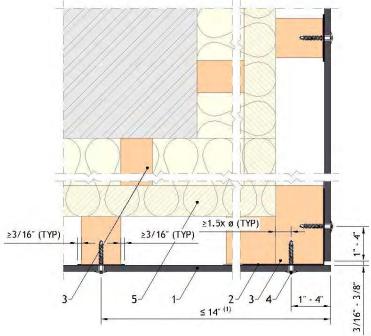




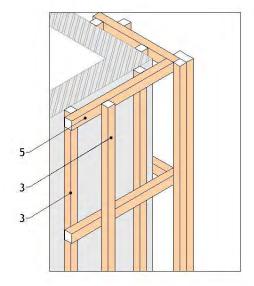
Detail 23 - Capping

- 1) Where a perforated closure is not obstructing the inlet/outlet, the opening should be a minimum of 3/8 inch continuous.
- 2) When perforated closures are used underneath the capping, the ventilation outlet opening between the panel and capping should be a minimum of 1 3/16 inch. Total perforation area should be a minimum of 4.75 in2 per linear foot. This roughly equates to a minimum continuous opening of 3/8 inch.
- 3) Inlet/Outlet, air cavity, and closure perforation sizing should be increased, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide Face Fixing to Wood for additional information.

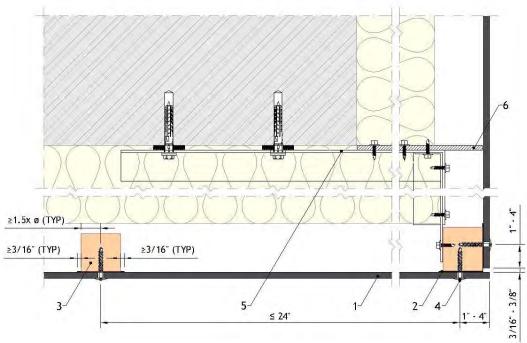
- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw
- 5. Counter batten



Detail 24 - External corner

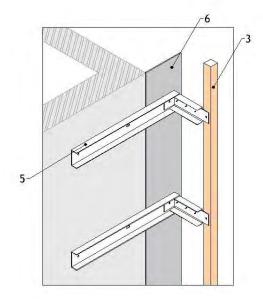


Isometric view of the support frame



Detail 25 - External corner with wind barrier

- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw
- 5. Metal bracket system
- 6. Wind barrier (metal or fibrecement)

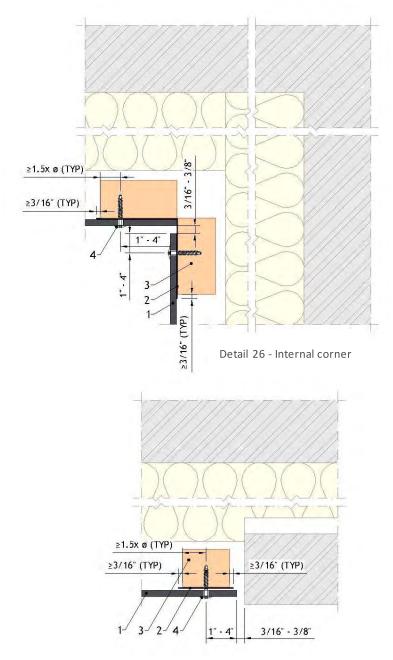


Isometric view of the support frame

Notes:

The installation of wind barrier is subject to local standards and building regulation.

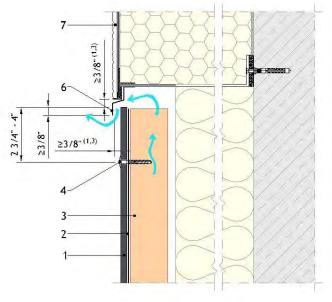
- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw



Detail 27 - Abutment

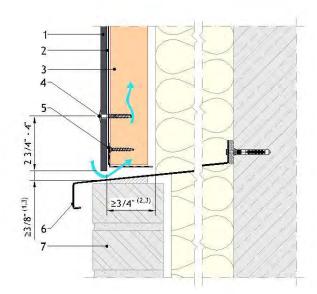
- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw
- 5. Perforated closure
- 6. Aluminum flashing
- 7. Adjacent facade system





Detail 28 - Junction with other facade material - Head detail

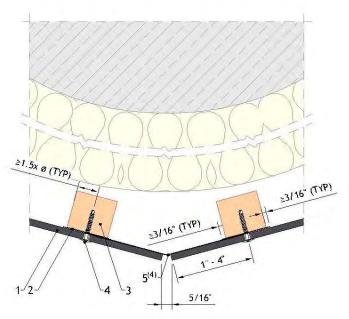




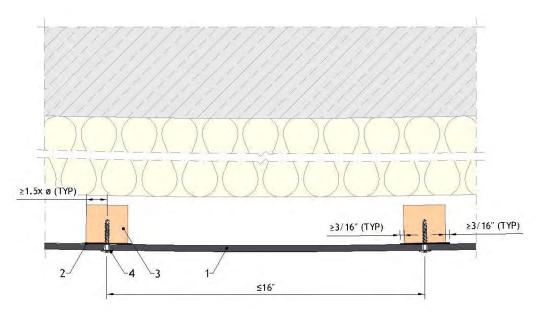
Detail 29 - Junction with other facade material - Base

- 1) When the inlet/outlet is wider than 3/4 inch continuous, a perforated closure is recommended. Total perforation area should be a minimum of 4.75 in 2 per linear foot. This roughly equates to a minimum continuous opening of 3/8 inch.
- 2) Inlet/Outlet, air cavity, and closure perforation sizing should be increased, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide Face Fixing to Wood for additional information.
- 3) The reduced section of the support profiles must be taken into account during static calculations.

- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw
- 5. Optional EPDM or flashing⁽³⁾



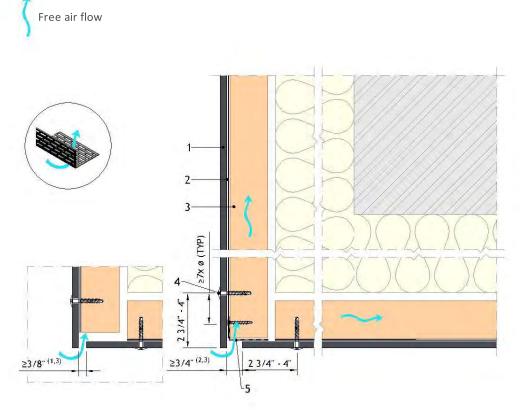
Detail 30 - Segmented façade - Radius < 39 ft



Detail 31 - Curved façade — Radius \geq 39 ft

- 1) The minimum radius for curved facade is 39 ft, the framing centers should be reduced to a maximum of 16 in.
- 2) For smaller radii the facade should be executed as segmented facade.
- 3) Flashings to close the joints may not be thicker then 1/32 in.
- 4) If an EPDM is used to close the joint, the battens must be close to the corner to provide a solid support.

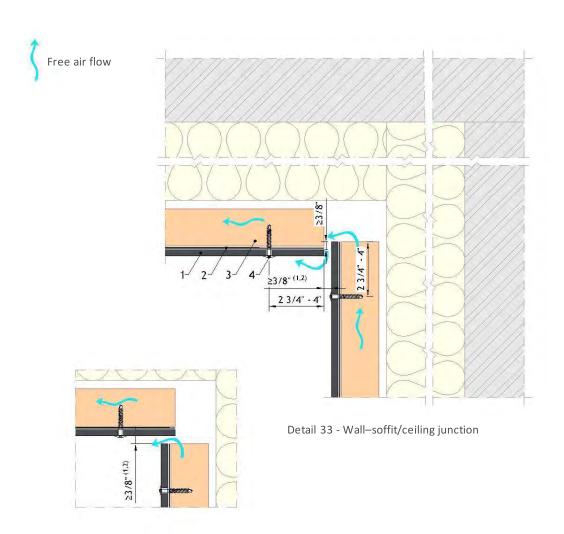
- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw
- 5. Perforated closure



Detail 32 - Soffit/ceiling-wall junction

- 1) Where a perforated closure is not obstructing the inlet/outlet, the opening should be a minimum of 3/8 inch continuous.
- 2) When the inlet/outlet is wider than 3/4 inch continuous, a perforated closure is recommended. Total perforation area should be a minimum of 4.75 in 2 per linear foot. This roughly equates to a minimum continuous opening of 3/8 inch.
- 3) Inlet/Outlet, air cavity, and closure perforation sizing should be increased, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide - Face Fixing to Wood for additional information.
- 4) The maximum center spacing between the UNI-rivets in a ceiling application is 16 inches.

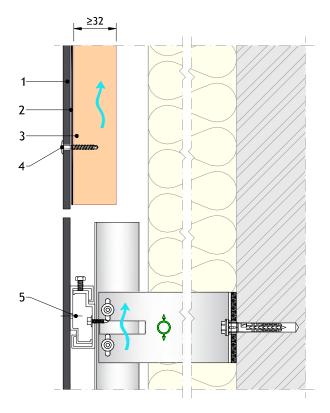
- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw



- 1) Where a perforated closure is not obstructing the inlet/outlet, the opening should be a minimum of 3/8 inch continuous.
- 2) Inlet/Outlet, air cavity, and closure perforation sizing should be increased, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide Face Fixing to Wood for additional information.
- 3) The maximum center spacing between the UNI-rivets in a ceiling application is 16 inches.

- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw
- 5. Concealed fixing system





Detail 34 - Junction with panels with concealed fixings

- 1) Check the construction details for concealed fixing for more information.
- 2) Depending on the specified concealed fixing system the minimum panel thickness could vary from 5/16 in to 15/32 in as applicable.
- 3) Special attention must be taken to the alignment of the panels with concealed fixing and the ones with face fixings.

Your detail was not included?

Are you looking for details in DXF, DWG format?

Contact:

EQUITONE USA 1731 Fred Lawson Rd. Maryville, TN 37801 Phone: 865-268-0654

Email: info.usa@equitone.com Website: www.equitone.com

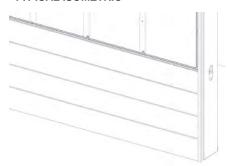
Disclaimer

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TYPICAL ISOMETRIC



PROFILES

V-Groove: 2-1/2", 4", 6"

Smooth: 6" Channel: 6"

Standard Lengths: 24', 2-1/2"(12')

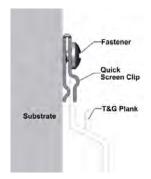
96 SQ FT/box

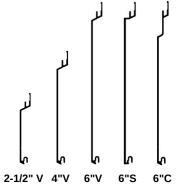
COMPONENTS - Standard Lengths: 12'

Traditional: Starter Strip, Back-to Back Starter Strip, 2" Corner Set, 1-3/8" Two Piece J-Track, 1-3/8" Termination Set, Compression Joint (24'), 1-1/2" Flat Reveal Set. 1-1/2" U-Reveal Set. 1-1/2" T&G U-Reveal, 2" Offset Flat Reveal

Craftsman: 7/8" J-Track, 3/4" Inside Corner, 1" Outside Corner, 3/4" U-Reveal Set, 3/4" T&G U-Reveal

Precision: 5/8" Starter J-Track, 3/16" Outside Corner, 5/8" J-Track, 5/8" Two Piece J-Track, 5/8" Termination Set, 1/2" Flat Reveal, 1/2" T&G Flat Reveal





FINISHES

Woodgrains, solid color, naturally aged metal, custom solid color matching (additional lead times apply)

ATTACHMENT

Planks: Quick-screen clips w. #10 Pan Head screws* @ 32" o.c. (standard).

• Quick-screen Clips: Included in order for 32" o.c. spacings, purchase extra for 16" o.c. spacings. For purchase (extra): 100 pcs/Bag, 1500 pcs/Box

Trims: Hard fasten w. #10 Pan Head screws* @ 16" o.c. *Screws not included.

BIM & CAD

RVT & DWG files available, see website for details

LEAD TIME

Most Popular Finishes -ready to ship within 1 week Additional Finishes

-ready to ship within 14 weeks



info@longboardproducts.com longboardproducts.com 800 604 0343

TECHNICAL SPECIFICATIONS

PHYSICAL DATA

6063-T5 Extruded Aluminum

100% Recyclable

Warranty: Finish:15 year (standard)/20 year* (ultra) (*10 week lead time);

Aluminum: 50 year Weight (lbs/sqft): ~1.5

TESTING

ICC-ESR 4182 Evaluation Report - Division: 07 00 00 Thermal and Moisture Protection Section: 07 46 00 - Siding

AAMA 509 Rainscreen: W1, V2

LARR - Los Angeles Department of Building Safety (LADBS) accepts ICC-ES reports as proof of compliance

Florida Product Code: FL41934

Miami Dade, Florida, Notice of Acceptance(NOA): NOA No. 22-0209.01 -Expiration Date: January 26, 2028

Impact testing: TAS 201

WUI (The Wildland-Urban Interface) – California Department of Forestry & Fire Protection Office of the State Fire Marshal Listing No. 8140-2286:0500



Fire Rating: Class A Non-Combustible by ASTM E136 & ASTM E84; A2-s1,d0 by EN 13501-1



Light Reflectance: 5% (Black) up to 73.2% (Ultra White)



Wind load: Up to 121 psf (5794 Pa) TAS 202, TAS 203

Woodgrains

Longboard's woodgrain finishes have a slight texture with a matte sheen.





EXTERIOR T&G TYPICAL DRAWINGS

TABLE OF CONTENT

(Click on the drawing name below to be directed to the right profile)

BOTTOM OF WALL DETAIL - HORIZONTAL T&G

BOTTOM OF WALL DETAIL - VERTICAL T&G

MIDDLE OF WALL DETAIL - HORIZONTAL T&G

MIDDLE OF WALL DETAIL - VERTICAL T&G

COMPRESSION JOINT DETAIL - HORIZONTAL T&G

THROUGH WALL FLASHING DETAIL - VERTICAL T&G

PARAPET DETAIL - HORIZONTAL T&G

PARAPET DETAIL - VERTICAL T&G

TOP OF WALL WITH TWO PIECE J-TRACK DETAIL - HORIZONTAL T&G

TOP OF WALL WITH TWO PIECE J-TRACK DETAIL - VERTICAL T&G

OUTSIDE CORNER SET DETAIL - HORIZONTAL T&G

OUTSIDE CORNER WITH CRAFTSMAN OUTSIDE CORNER DETAIL - HORIZONTAL T&G

OUTSIDE CORNER SET DETAIL - VERTICAL T&G

INSIDE CORNER SET DETAIL - HORIZONTAL T&G

INSIDE CORNER WITH CRAFTSMAN INSIDE CORNER DETAIL - HORIZONTAL T&G

INSIDE CORNER SET DETAIL - VERTICAL T&G

TRADITIONAL BACK-TO-BACK STARTER STRIP DETAIL - VERTICAL T&G

TRADITIONAL FLAT REVEAL SET DETAIL - HORIZONTAL T&G

WRAP AROUND COLUMN WITH REVEAL SET DETAIL - VERTICAL T&G

NON 90 DEGREE OUTSIDE CORNER DETAIL - HORIZONTAL T&G

NON 90 DEGREE OUTSIDE CORNER DETAIL - VERTICAL T&G

NON 90 DEGREE INSIDE CORNER DETAIL - HORIZONTAL T&G

NON 90 DEGREE INSIDE CORNER DETAIL - VERTICAL T&G

CLADDING TO PERPENDICULAR SOFFIT TRANSITION DETAIL - VERTICAL T&G

CLADDING TO PARALLEL SOFFIT TRANSITION DETAIL - HORIZONTAL T&G

SINGLE BUTT-JOINT DETAIL - HORIZONTAL T&G

MULTIPLE BUTT-JOINTS DETAIL - HORIZONTAL T&G

WINDOW DETAIL - HORIZONTAL T&G

WINDOW DETAIL - VERTICAL T&G

HARD FASTENING DETAIL - HORIZONTAL T&G

PARALLEL SOFFIT WITH OPENING DETAIL - HORIZONTAL T&G

PERPENDICULAR SOFFIT WITH OPENING DETAIL - VERTICAL T&G

PARALLEL SOFFIT WITH DRIP EDGE DETAIL - HORIZONTAL T&G

PERPENDICULAR SOFFIT WITH DRIP EDGE DETAIL - HORIZONTAL T&G

PARALLEL SOFFIT WITH LIGHT FIXTURE DETAIL - HORIZONTAL T&G

PERPENDICULAR SOFFIT WITH LIGHT FIXTURE DETAIL - VERTICAL T&G

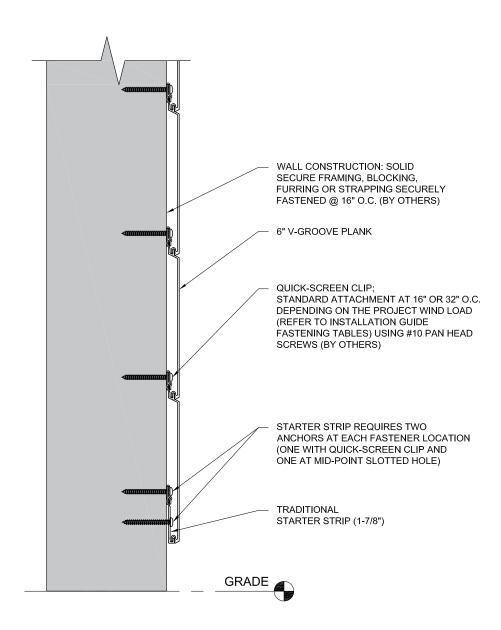
2.5 IN PERFORATED PLANK PARALLEL SOFFIT DETAIL - T&G

PARALLEL SOFFIT TO FASCIA TRANSITION DETAIL - T&G

PERPENDICULAR SOFFIT TO FASCIA TRANSITION DETAIL - T&G

SOFFIT ACCESS PANEL DETAIL - T&G

6 IN SMOOTH PLANKS (PANELBOARD™) DETAIL - HORIZONTAL T&G



SECTION VIEW

These drawings are published as an information guide only. These CAD drawings are intended as templates to assist the designer, they do not contain the full detail required for construction and must be read in conjunction with the installation instructions on www.newload.org/nct/stable-read-advice to assess the suitable of these drawings to the requirements of your particular project.

project.

Longboard Architectural Products accepts no liability in respect to the use of these drawings.

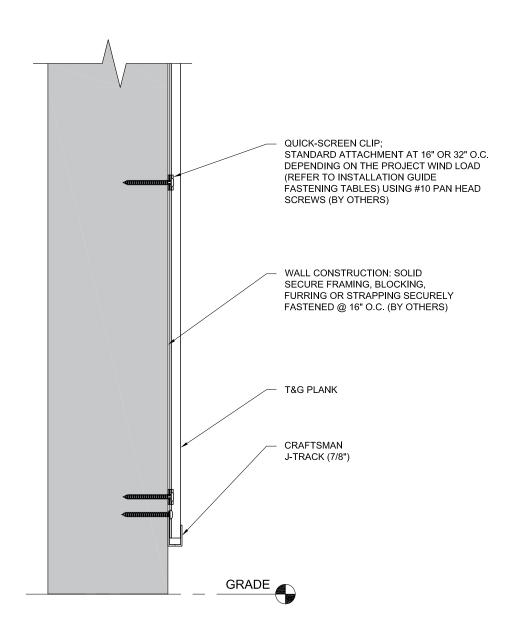
For complete installation instructions refer to the appropriate documentation here

www.longboardproducts.com/resources/technical-documentation/installation-guides

BOTTOM OF WALL DETAIL T&G HORIZONTAL

SCALE: 1:4





SECTION VIEW

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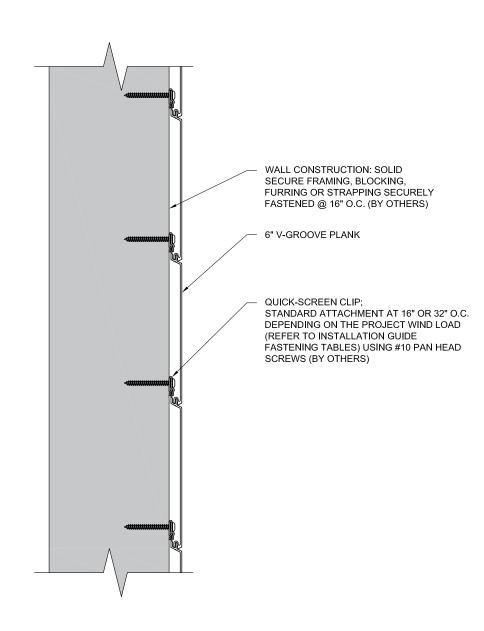
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BOTTOM OF WALL DETAIL T&G VERTICAL

SCALE: 1:4





SECTION VIEW

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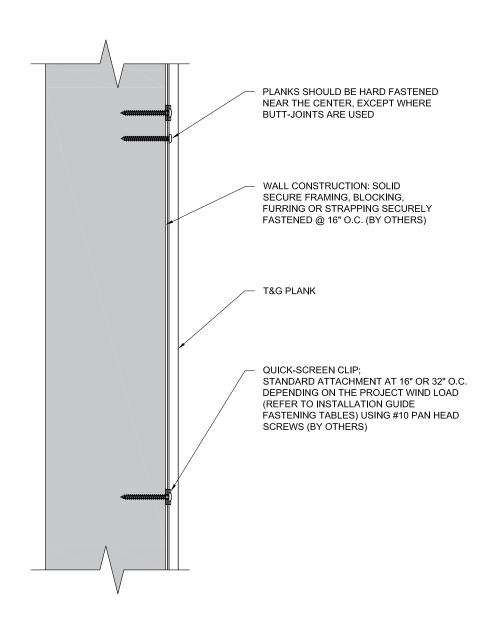
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MIDDLE OF WALL DETAIL T&G HORIZONTAL

SCALE: 1:4





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project.

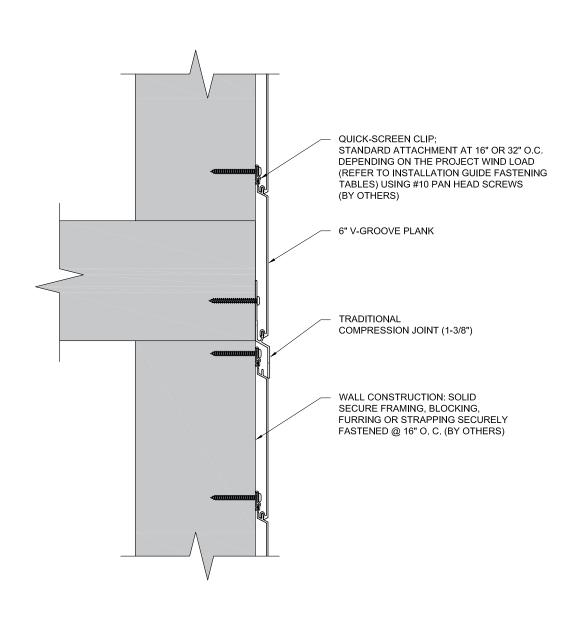
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www.longboardproducts.com/resources/technical-documentation/installation-guides

MIDDLE OF WALL DETAIL T&G VERTICAL





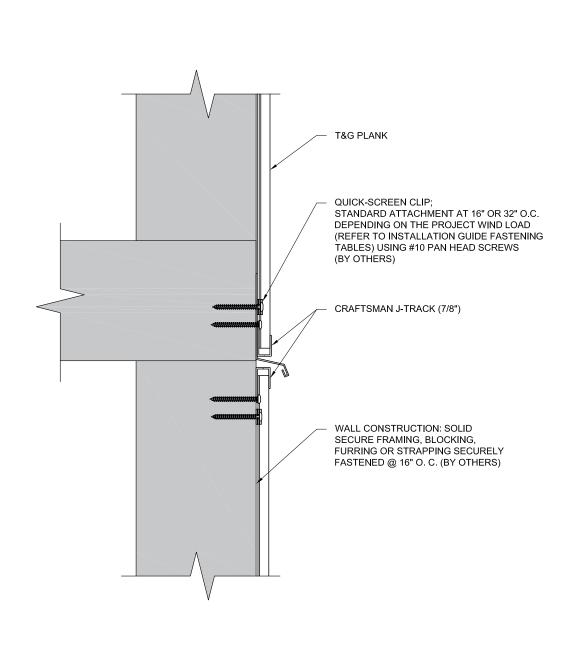
These drawings are published as an information guide only. These CAD drawings are intended as templates to assist the designer, they do not contain the full detail required for construction and must be read in conjunction with the installation instructions on www.newloaps.com.you.should.obtain.architectural, engineering or other technical advice to assess the suitability of these drawings to the requirements of your particular project.

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COMPRESSION JOINT DETAIL T&G HORIZONTAL





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project.

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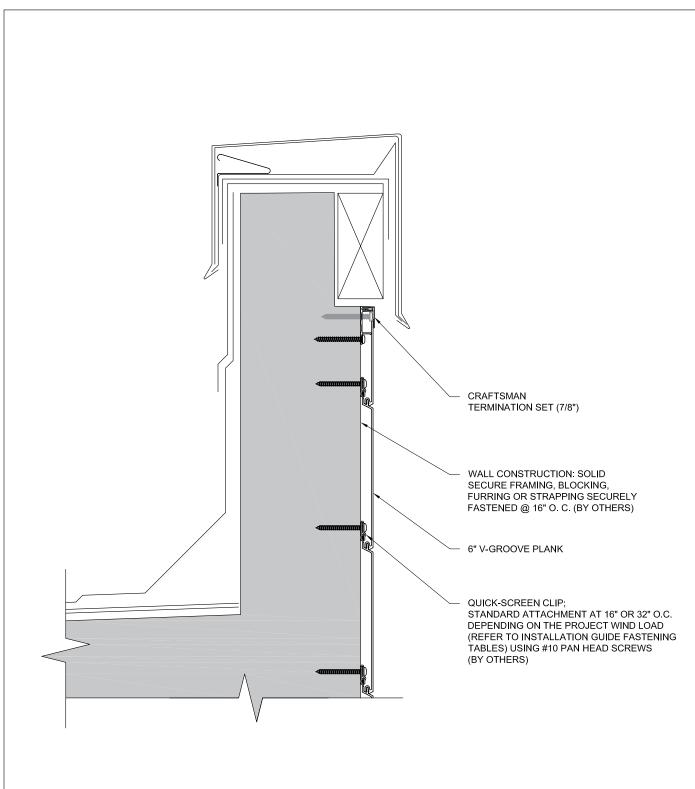
For complete installation instructions refer to the appropriate documentation here

www.longboardproducts.com/resources/technical-documentation/installation-guides

THROUGH WALL FLASHING DETAIL T&G VERTICAL

SCALE: 1.4





These drawings are published as an information guide only. These CAD drawings are intended as templates to assist the designer, they do not contain the full detail required for construction and must be read in conjunction with the installation instructions on www.newload.org/nct/stable-read-advice to assess the suitable of these drawings to the requirements of your particular project.

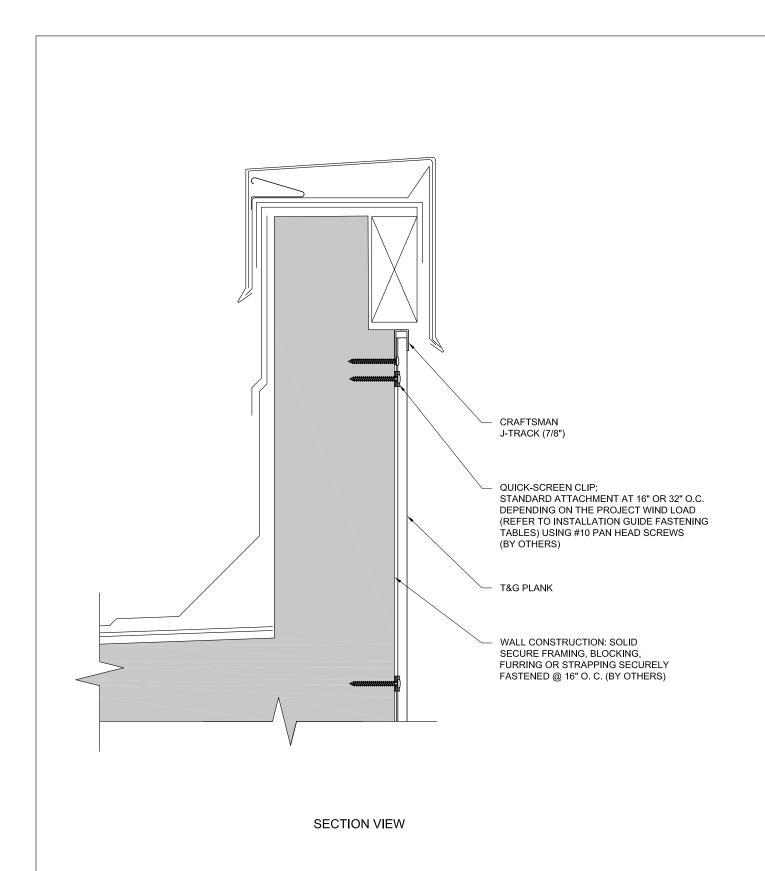
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For complete installation instructions refer to the appropriate documentation here www.longboardproducts.com/resources/technical-documentation/installation-guides

PARAPET DETAIL T&G HORIZONTAL





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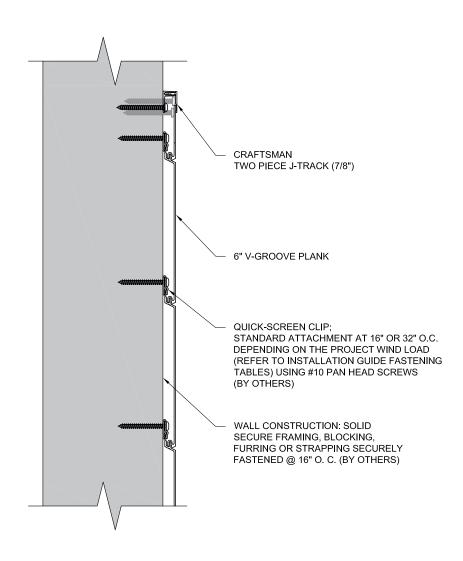
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PARAPET DETAIL T&G VERTICAL





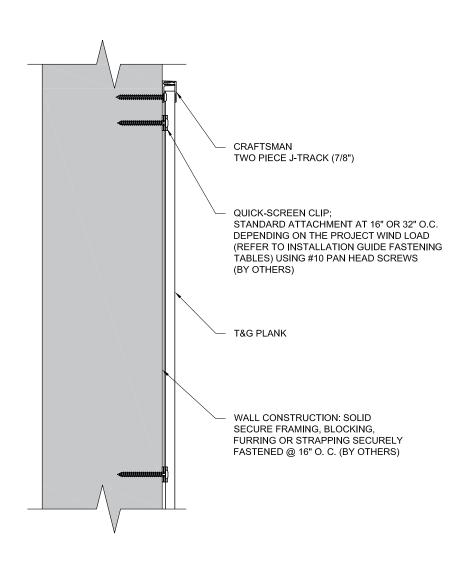
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TOP OF WALL WITH TWO PIECE J-TRACK DETAIL - T&G HORIZONTAL





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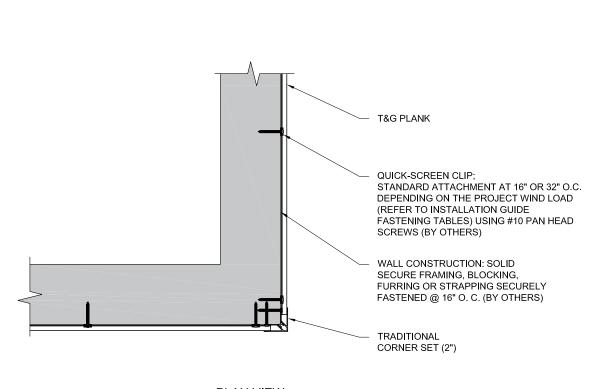
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TOP OF WALL WITH TWO PIECE J-TRACK DETAIL - T&G VERTICAL

SCALE 14



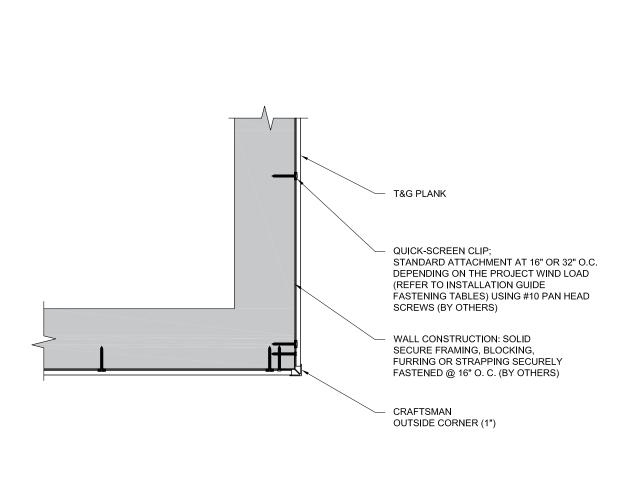


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OUTSIDE CORNER SET DETAIL T&G HORIZONTAL



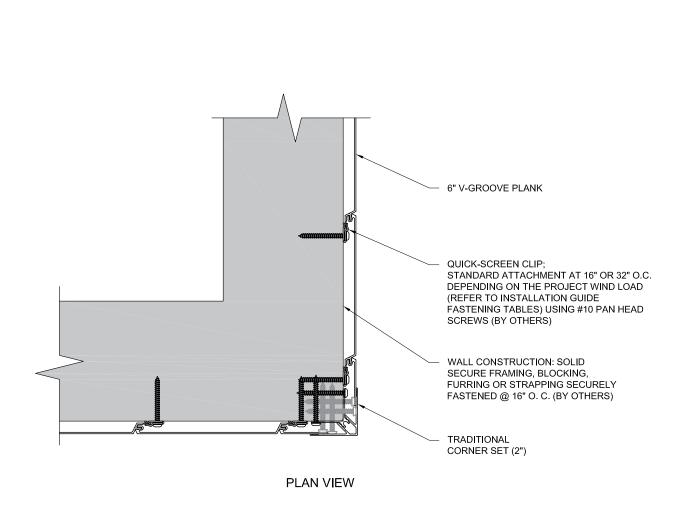


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OUTSIDE CORNER WITH CRAFTSMAN OUTSIDE CORNER DETAIL T&G HORIZONTAL





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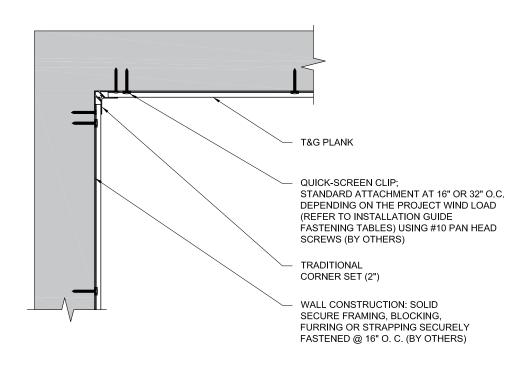
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OUTSIDE CORNER SET DETAIL T&G VERTICAL



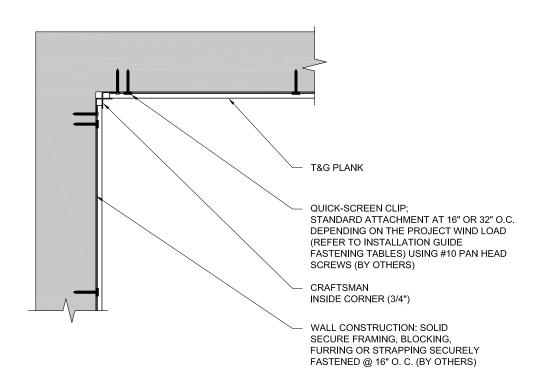


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INSIDE CORNER SET DETAIL T&G HORIZONTAL



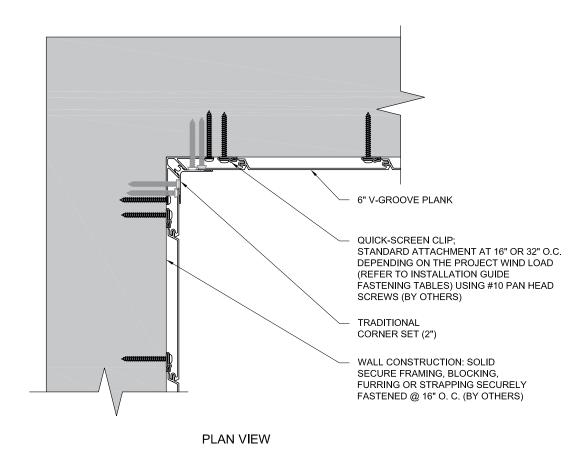


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INSIDE CORNER WITH CRAFTSMAN INSIDE CORNER DETAIL T&G HORIZONTAL





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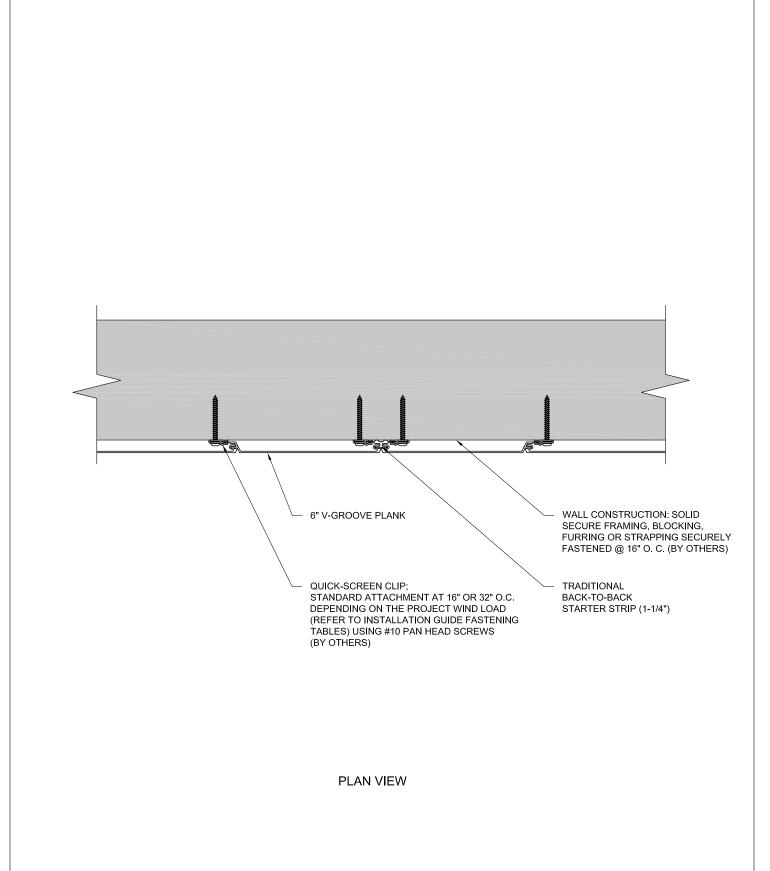
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INSIDE CORNER SET DETAIL T&G VERTICAL



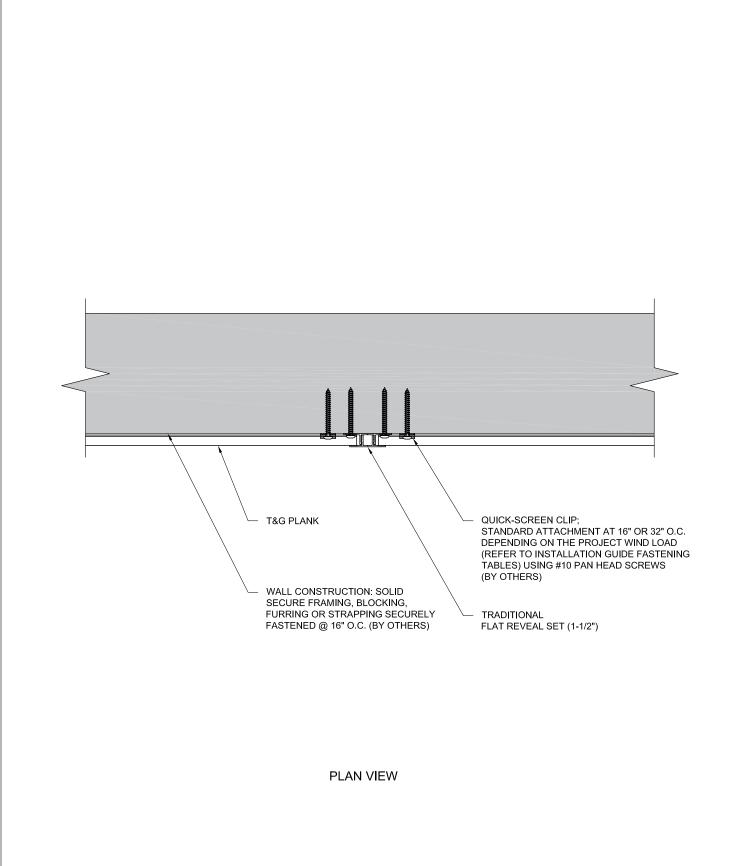


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TRADITIONAL BACK-TO-BACK STARTER STRIP DETAIL T&G VERTICAL





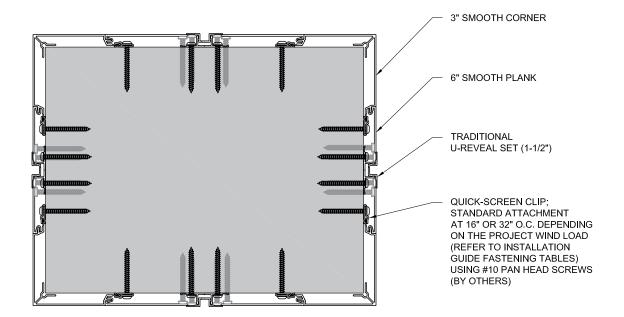
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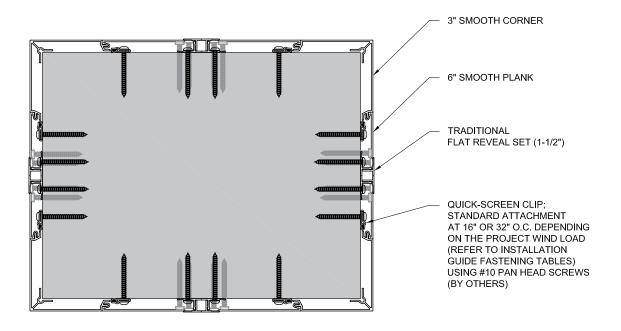
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TRADITIONAL FLAT REVEAL SET DETAIL - T&G HORIZONTAL







PLAN VIEW

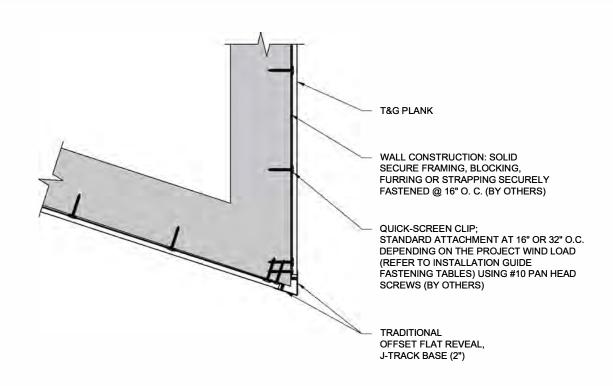
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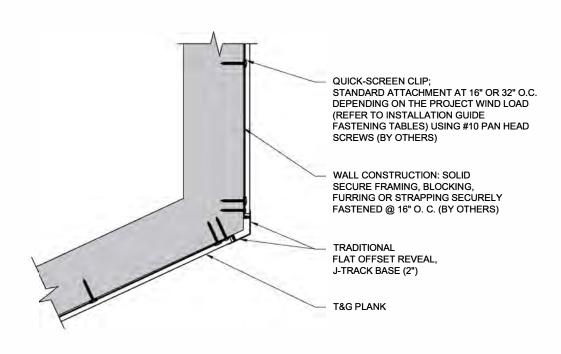
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WRAP AROUND A COLUMN WITH REVEAL SET DETAIL T&G VERTICAL

SCALE 14







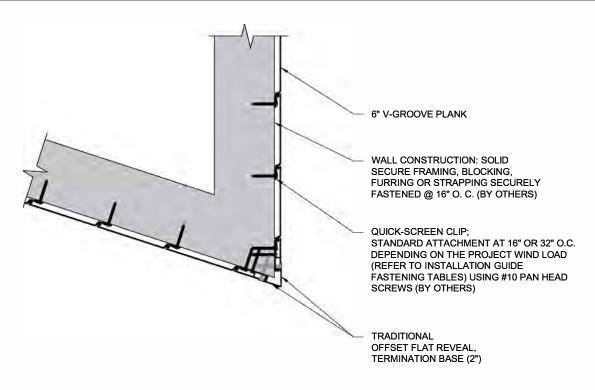
PLAN VIEW

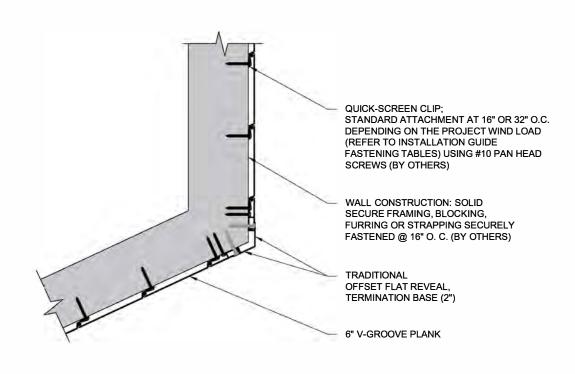
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NON 90 DEGREE OUTSIDE CORNER DETAIL T&G HORIZONTAL







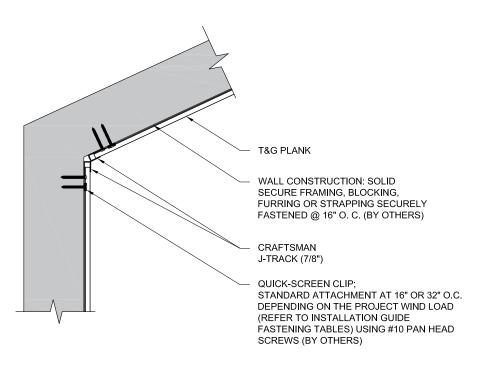
PLAN VIEW

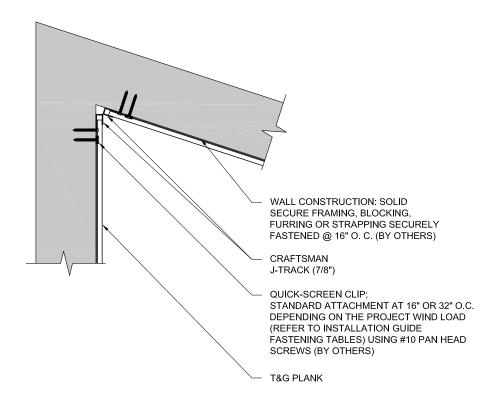
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NON 90 DEGREE OUTSIDE CORNER DETAIL T&G VERTICAL







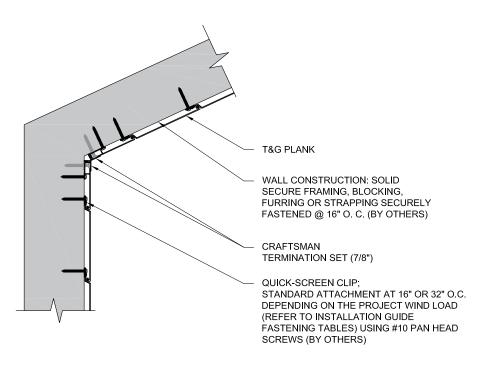
PLAN VIEW

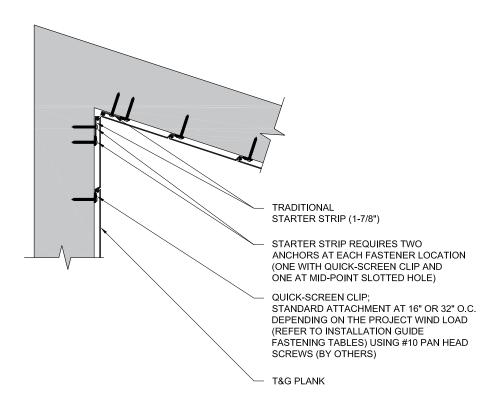
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NON 90 DEGREE INSIDE CORNER DETAIL T&G HORIZONTAL







PLAN VIEW

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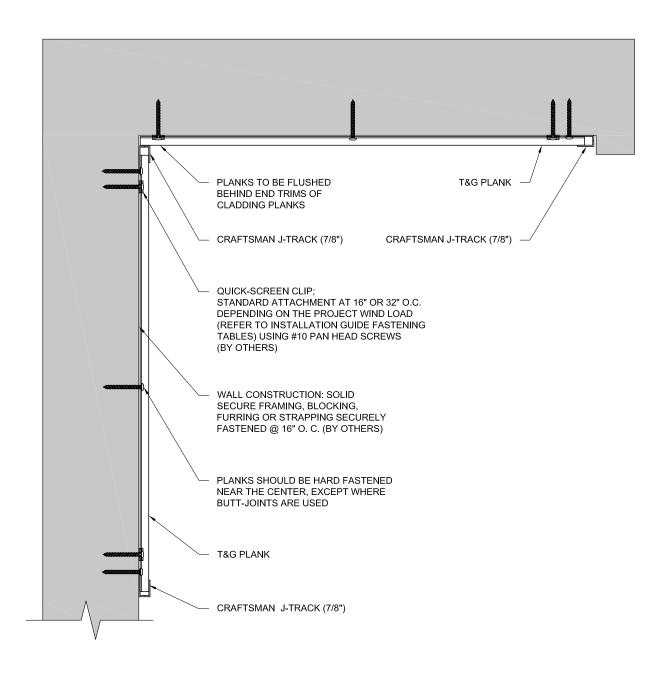
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NON 90 DEGREE INSIDE CORNER DETAIL T&G VERTICAL

SCALE 18





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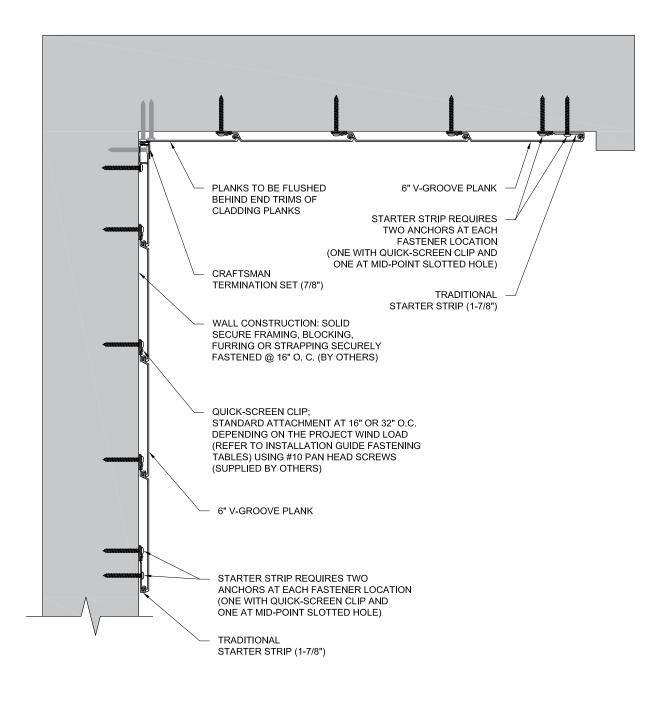
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CLADDING TO PERPENDICULAR SOFFIT TRANSITION DETAIL T&G VERTICAL

SCALE 15





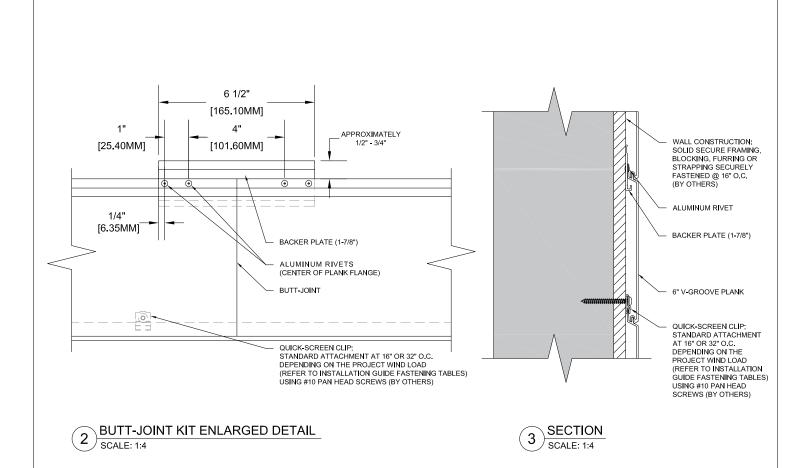
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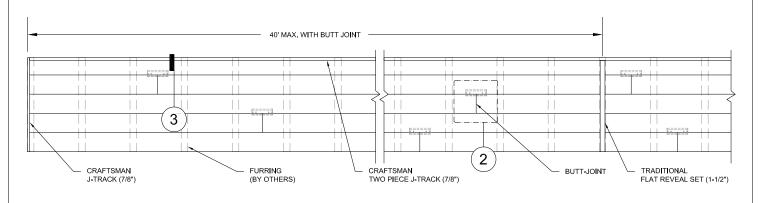
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CLADDING TO PARALLEL SOFFIT TRANSITION DETAIL T&G HORIZONTAL

SCALE: 1.5







1 ELEVATION WITH SINGLE BUTT-JOINTS SCALE: 1:30

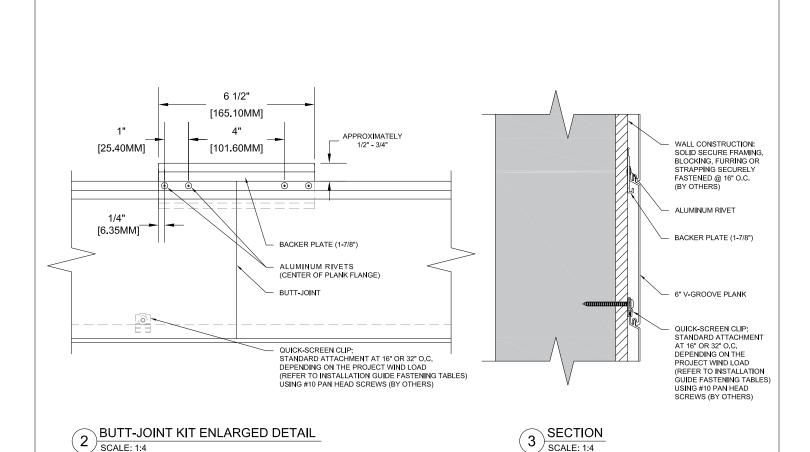
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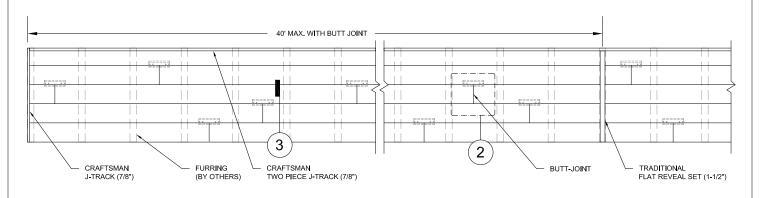
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SINGLE BUTT-JOINT DETAIL T&G HORIZONTAL







1 ELEVATION WITH MULTIPLE BUTT-JOINTS
SCALE: 1:30

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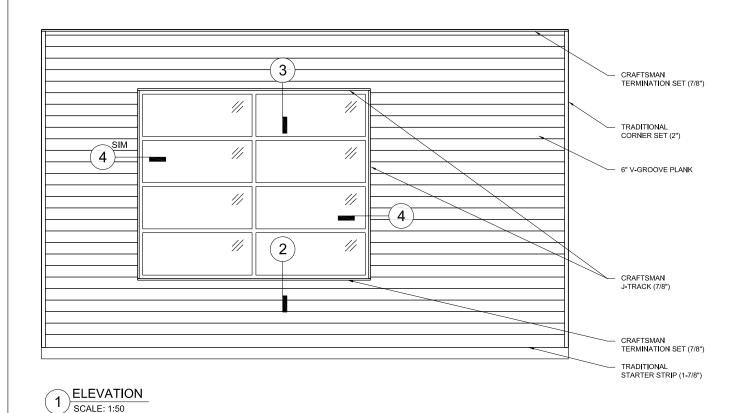
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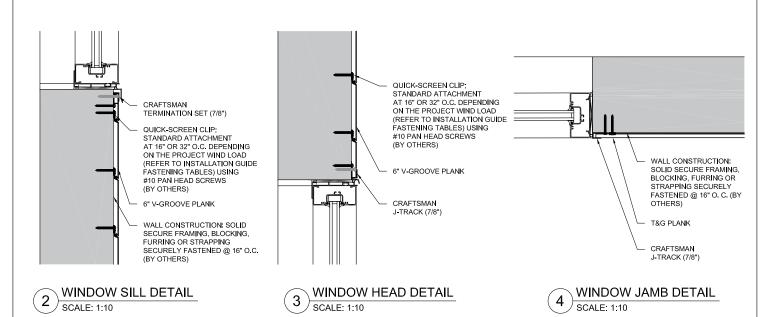
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MULTIPLE BUTT-JOINT DETAIL T&G HORIZONTAL





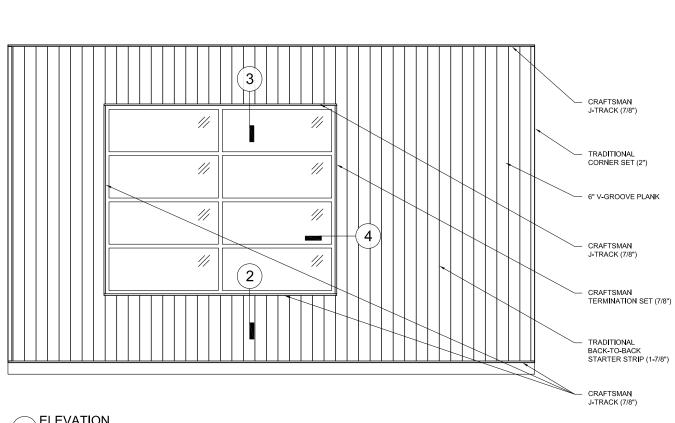


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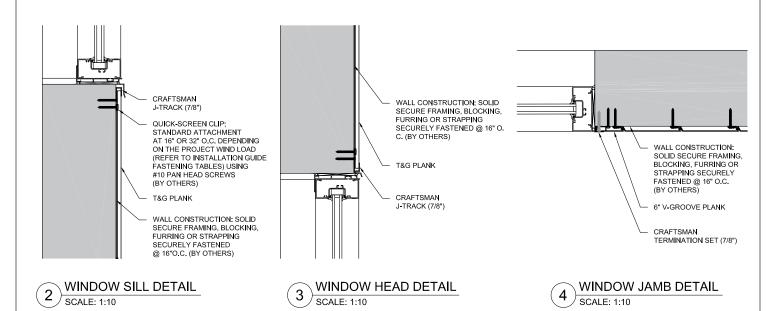
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WINDOW DETAIL T&G HORIZONTAL









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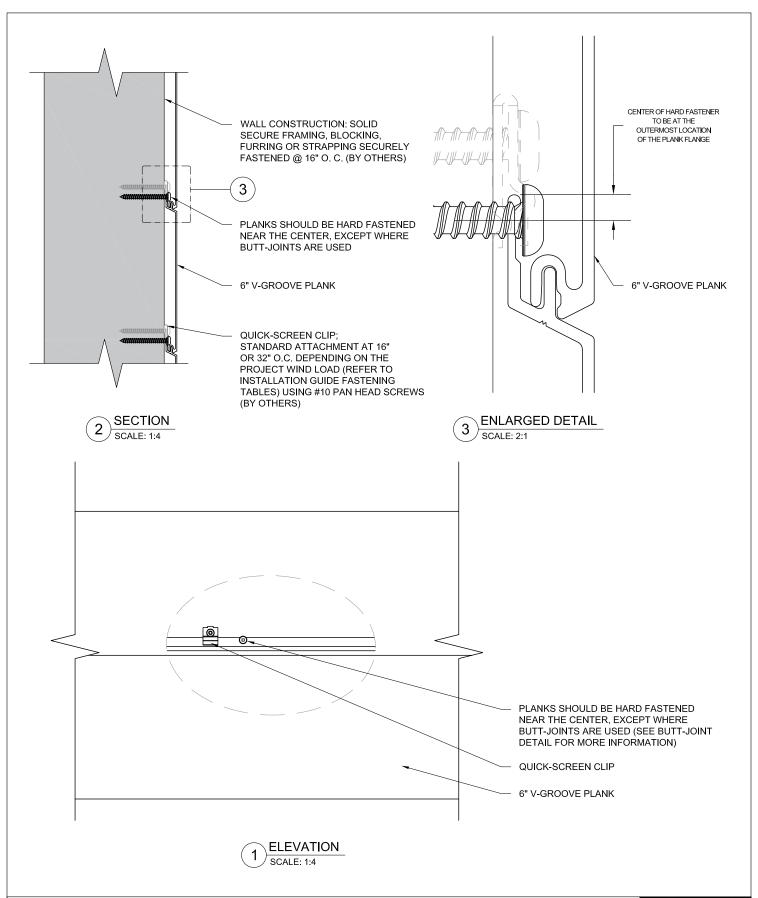
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WINDOW DETAIL T&G VERTICAL



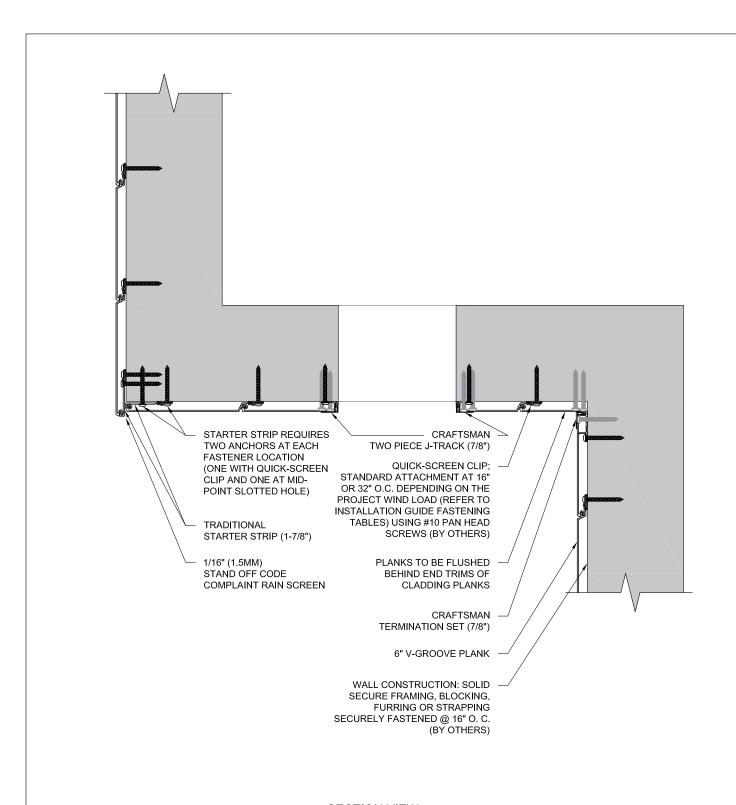


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HARD FASTENING DETAIL T&G HORIZONTAL



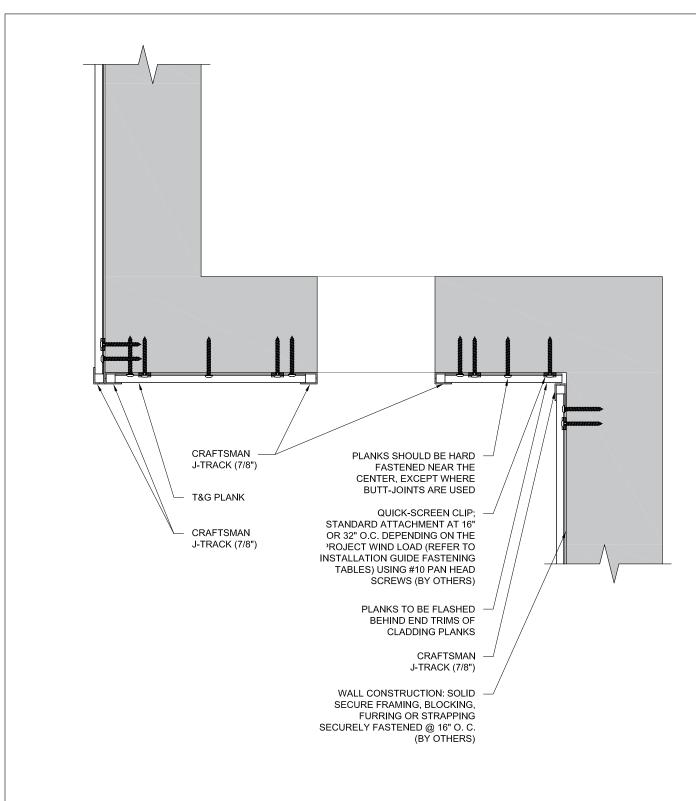


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PARALLEL SOFFIT WITH OPENING DETAIL T&G HORIZONTAL



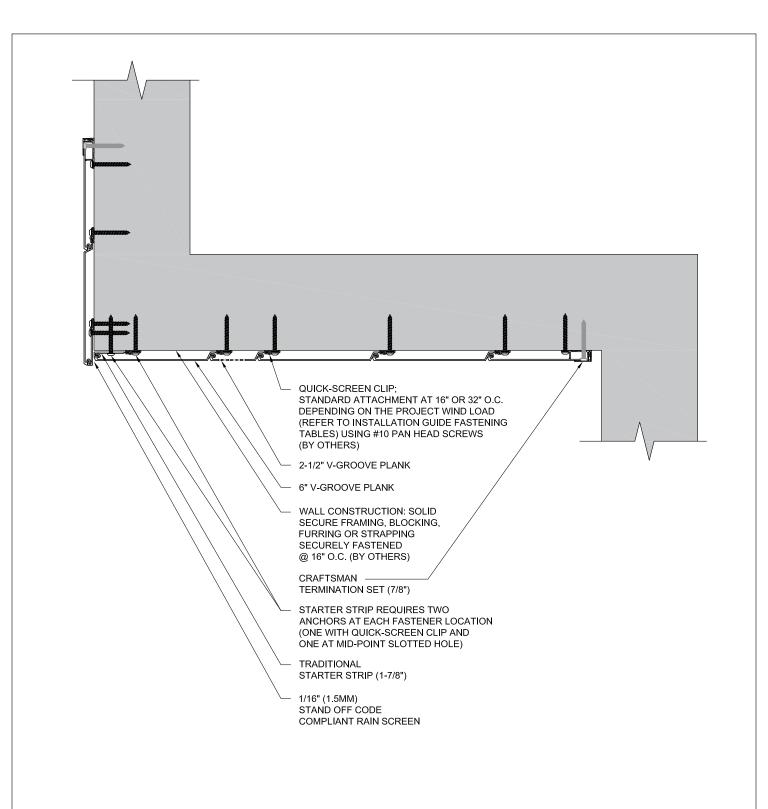


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PERPENDICULAR SOFFIT WITH OPENING DETAIL T&G VERTICAL





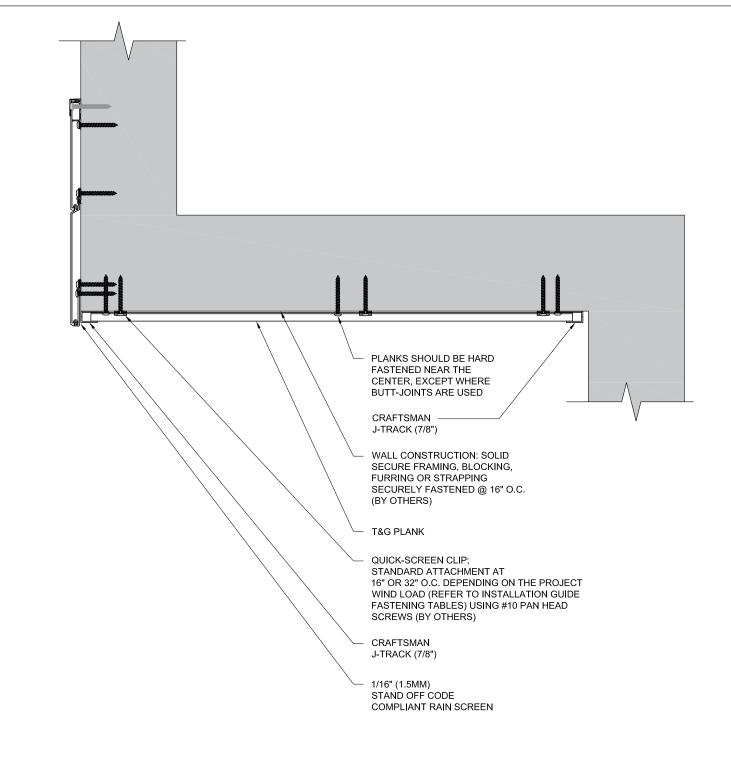
* FOR DRIP EDGE CONDITION: STARTER STRIP REQUIRES TWO ANCHORS AT EACH FASTENER LOCATION (ONE WITH QUICK-SCREEN CLIP AND ONE AT TOP-POINT SLOTTED HOLE)

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PARALLEL SOFFIT WITH DRIP EDGE DETAIL T&G HORIZONTAL





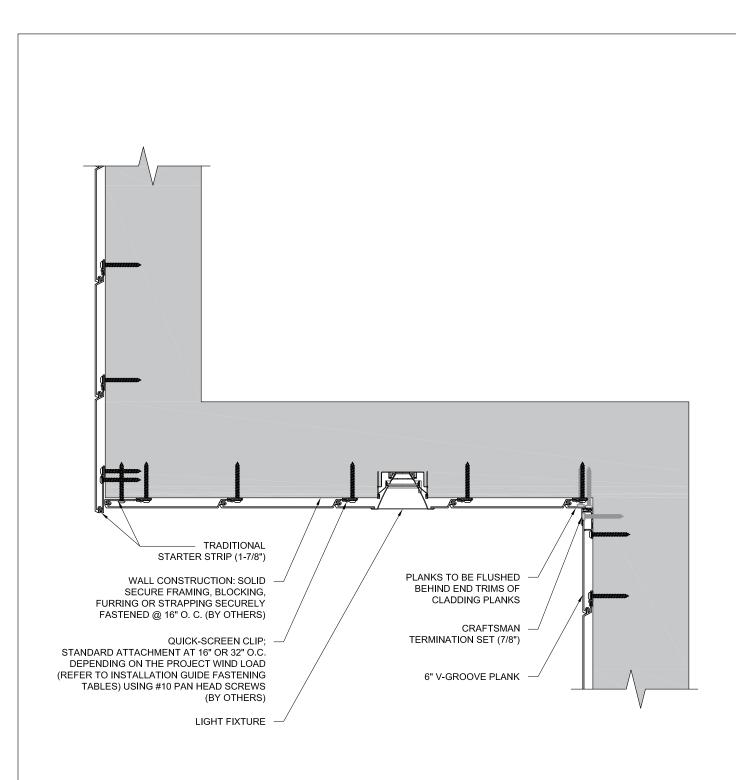
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PERPENDICULAR SOFFIT WITH DRIP EDGE DETAIL T&G HORIZONTAL



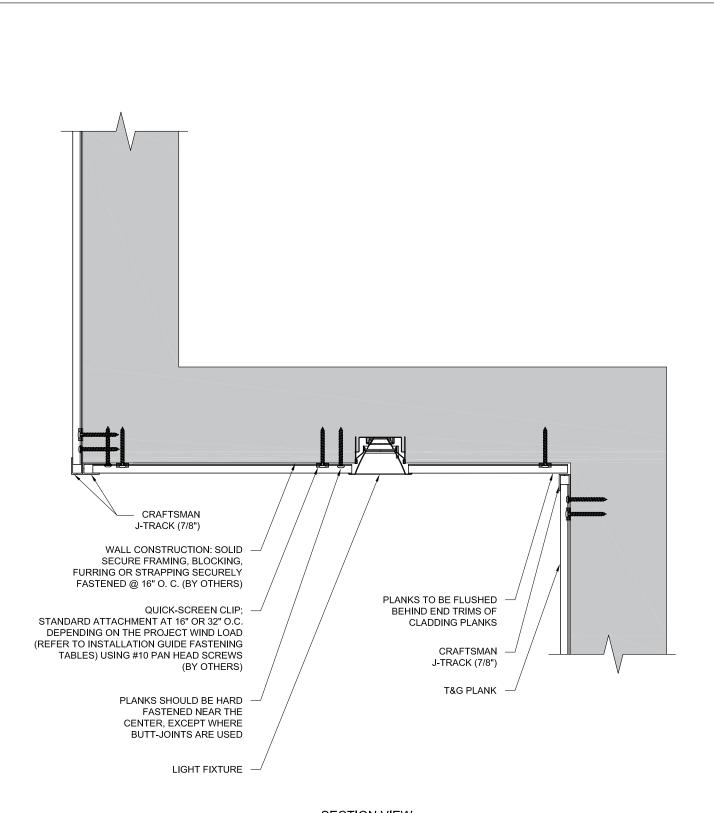


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PARALLEL SOFFIT WITH LIGHT FIXTURE DETAIL T&G HORIZONTAL



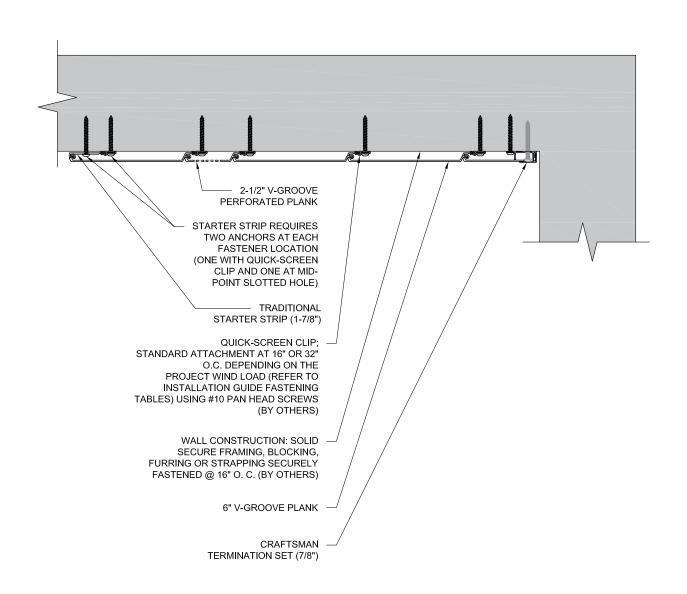


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PERPENDICULAR SOFFIT WITH LIGHT FIXTURE DETAIL T&G VERTICAL



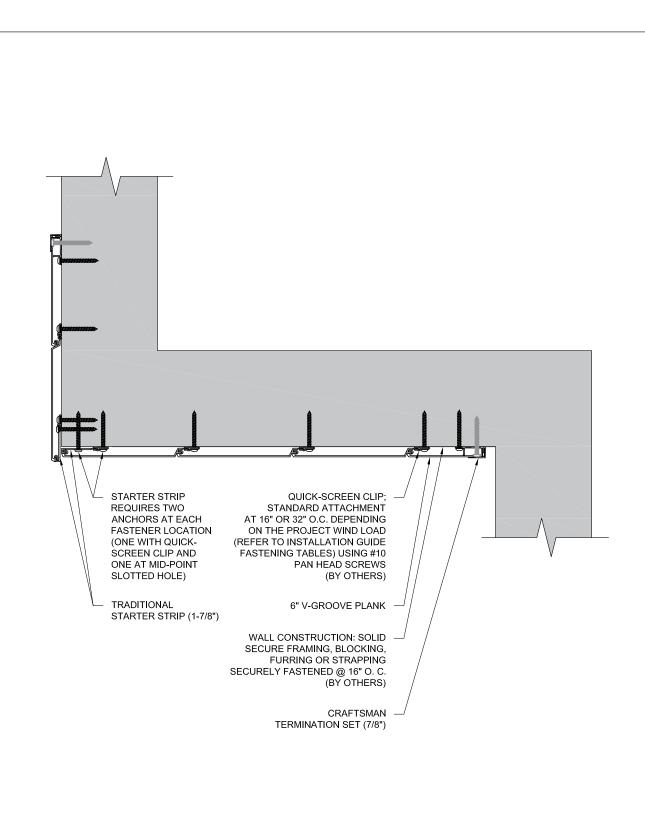


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2-1/2" PERFORATED PLANK PARALLEL SOFFIT DETAIL T&G



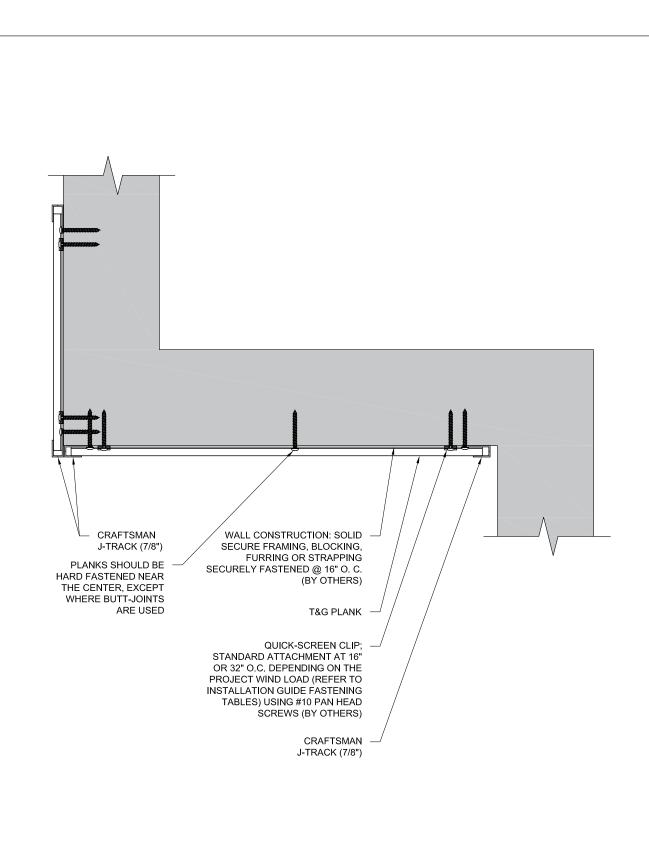


These drawings are published as an information guide only. These CAD drawings are intended as templates to assist the designer, they do not contain the full detail required for construction and must be read in conjunction with the installation instructions on www.newloaps.com.you.should.obtain.architectural, engineering or other technical advice to assess the suitability of these drawings to the requirements of your particular project.

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PARALLEL SOFFIT TO FASCIA TRANSITION DETAIL - T&G



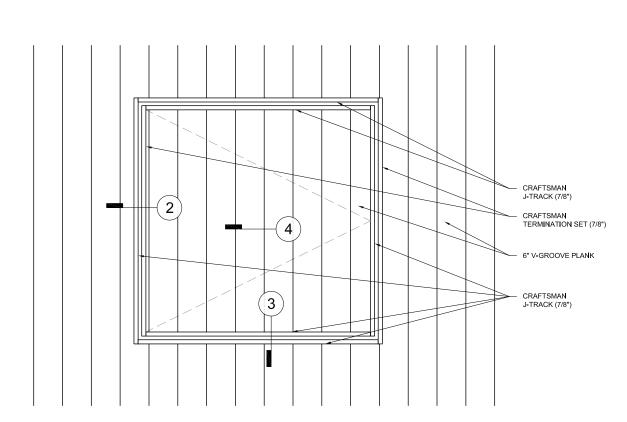


These drawings are published as an information guide only. These CAD drawings are intended as templates to assist the designer, they do not contain the full detail required for construction and must be read in conjunction with the installation instructions on www.newloaps.com.you.should.obtain.architectural, engineering or other technical advice to assess the suitability of these drawings to the requirements of your particular project.

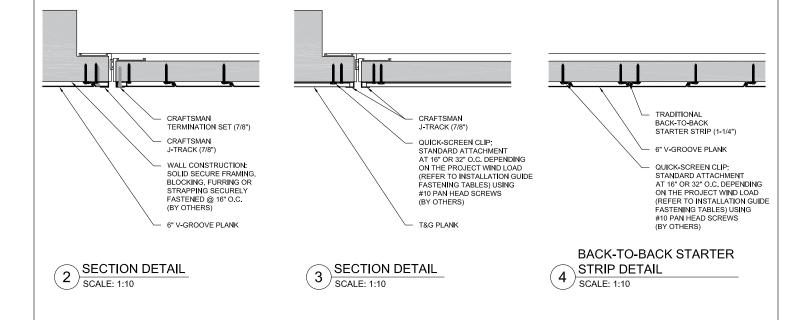
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PERPENDICULAR SOFFIT TO FASCIA TRANSITION DETAIL - T&G





1 SOFFIT ACCESS PANEL SCALE: 1:20



These drawings are published as an information guide only. These CAD drawings are intended as templates to assist the designer, they do not contain the full detail required for construction and must be read in conjunction with the installation instructions on www.newload.org/nct/stable-read-advice to assess the suitable of these drawings to the requirements of your particular project.

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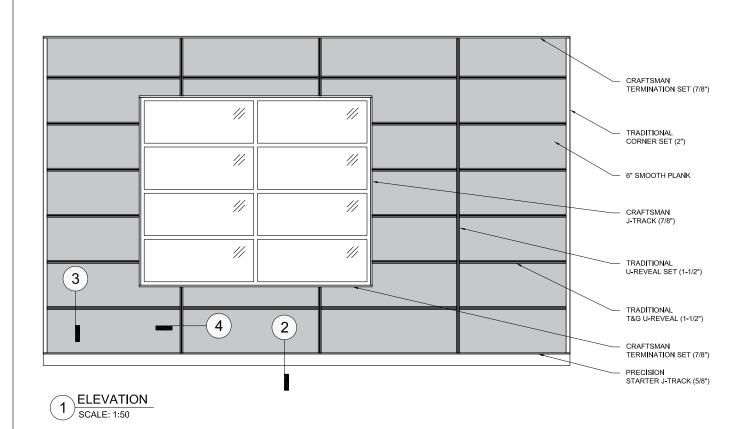
Longboard Architectural Products accepts no liability in respect to the use of these drawings.

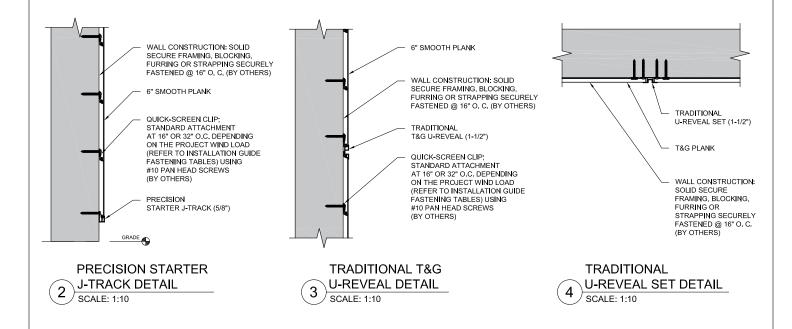
For complete installation instructions refer to the appropriate documentation here www.longboardproducts.com/resources/technical-documentation/installation-guides

SOFFIT ACCESS PANEL DETAIL - T&G

SCALE: AS INDICATED





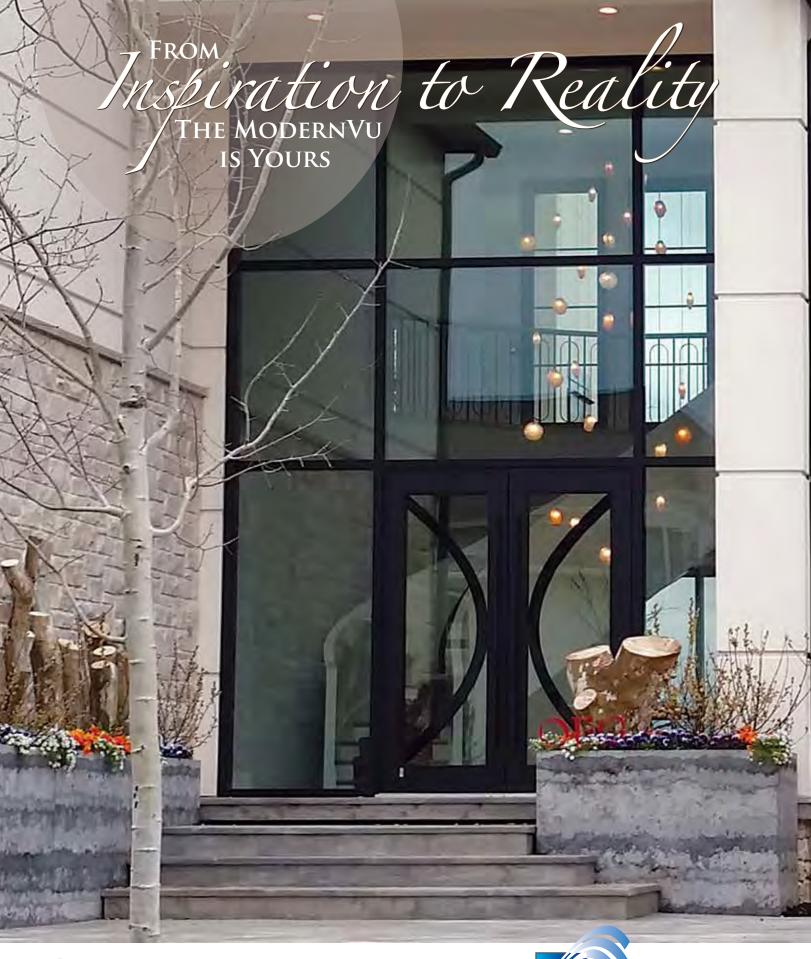


These drawings are published as an information guide only. These CAD drawings are intended as templates to assist the designer, they do not contain the full detail required for construction and must be read in conjunction with the installation instructions on www.longboardproducts.com. You should obtain architectural, engineering or other technical advice to assess the suitability of these drawings to the requirements of your particular project.

Longboard Architectural Products accepts no liability in respect to the use of these drawings. For complete installation instructions refer to the appropriate documentation here www.longboardproducts.com/resources/technical-documentation/installation-guides

6" SMOOTH PLANK
(PANELBOARDTM) DETAIL
T&G HORIZONTAL
SCALE: AS INDICATED









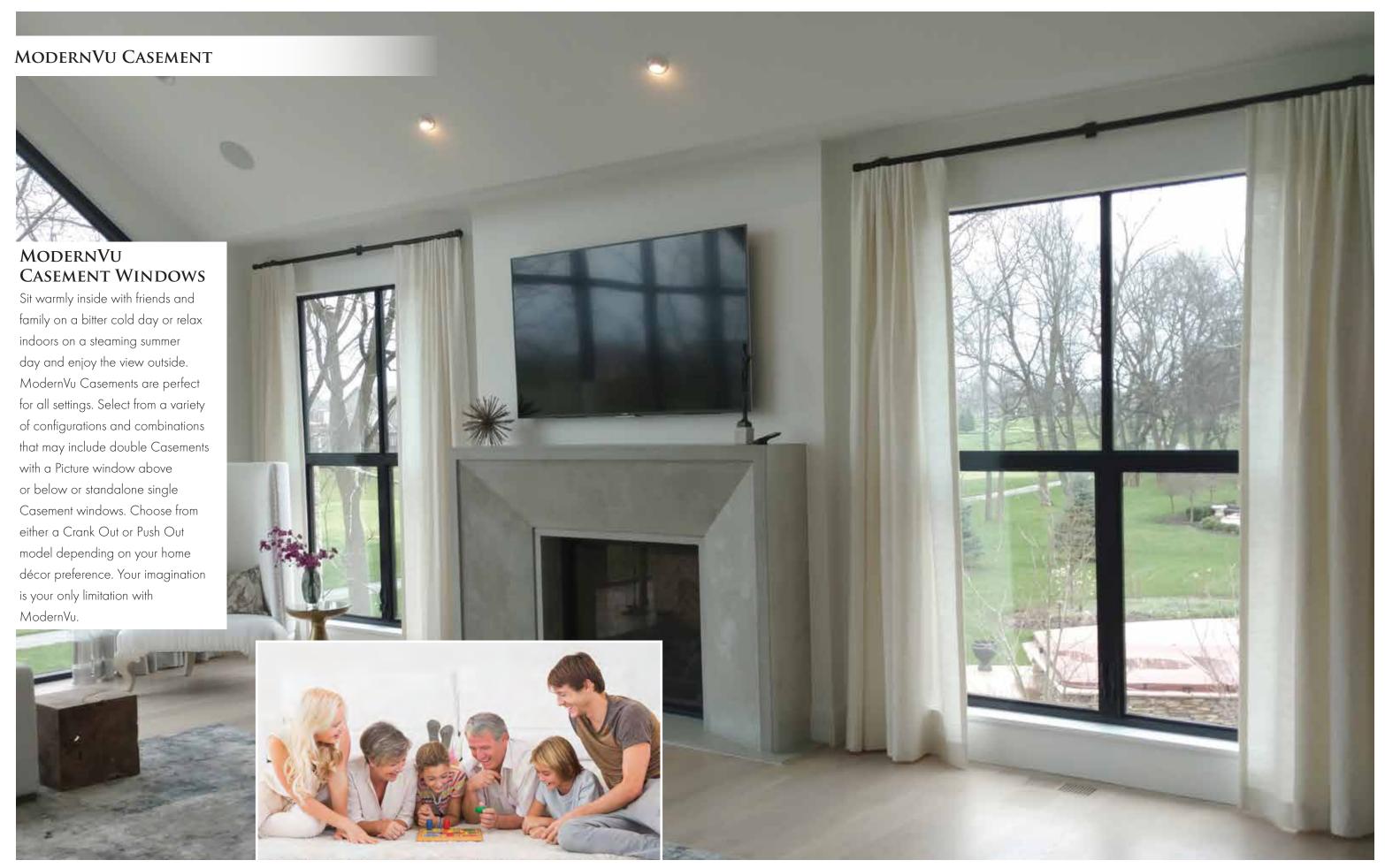


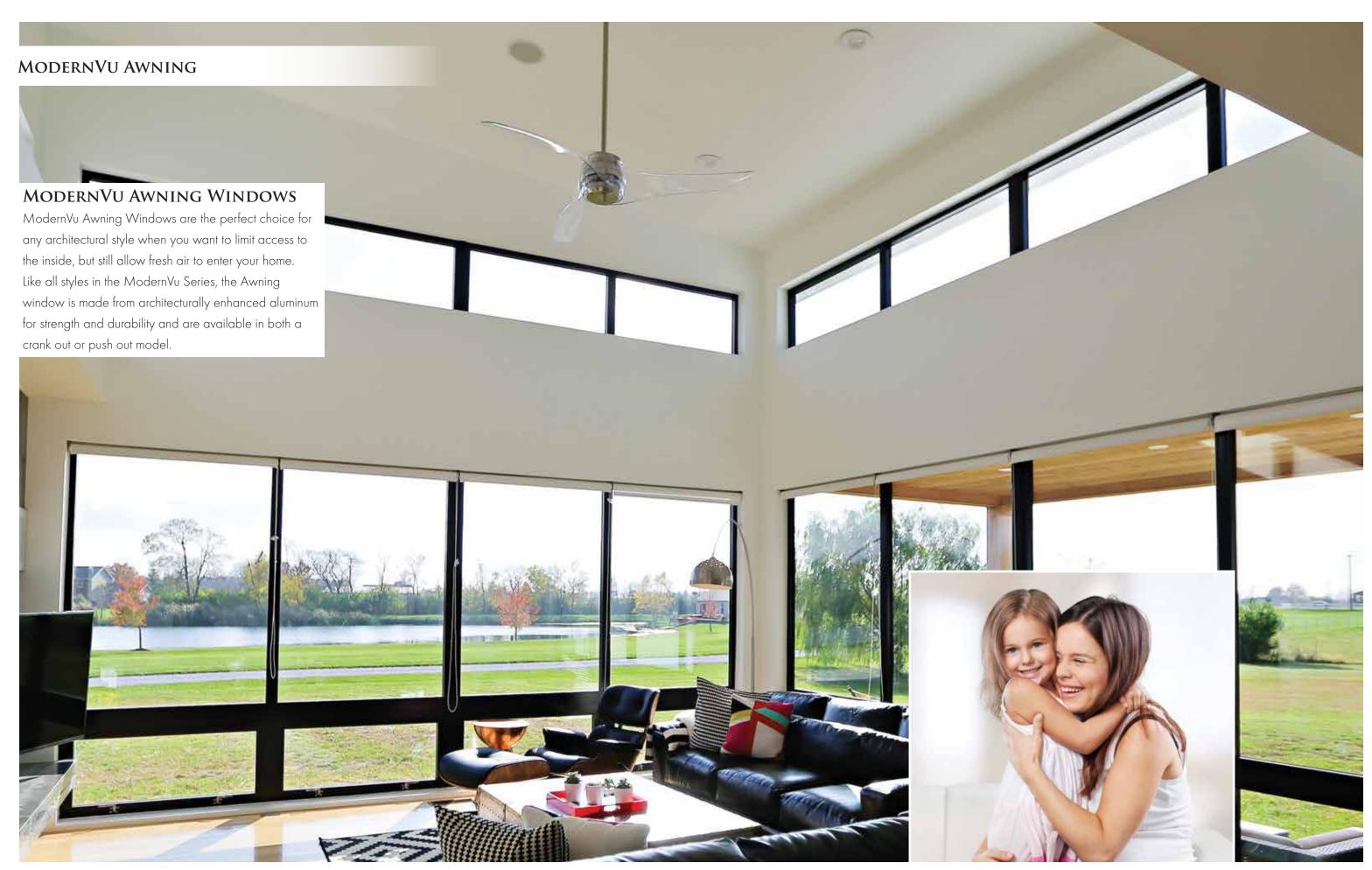
FROM INSPIRATION TO REALITY, THE MODERNVU IS YOURS.

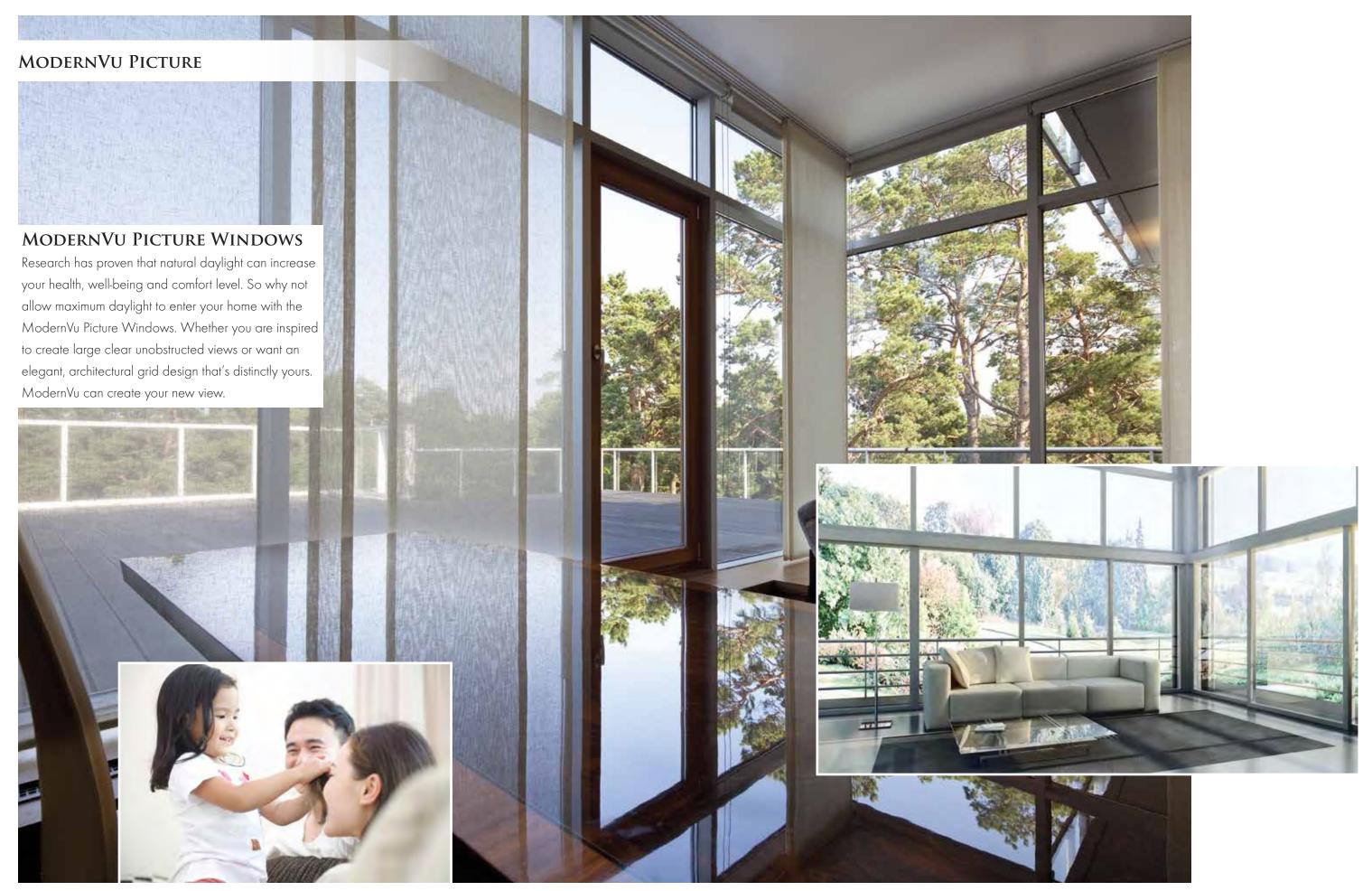
ModernVu windows allow you to expand the view of your world outside throughout the changing seasons.

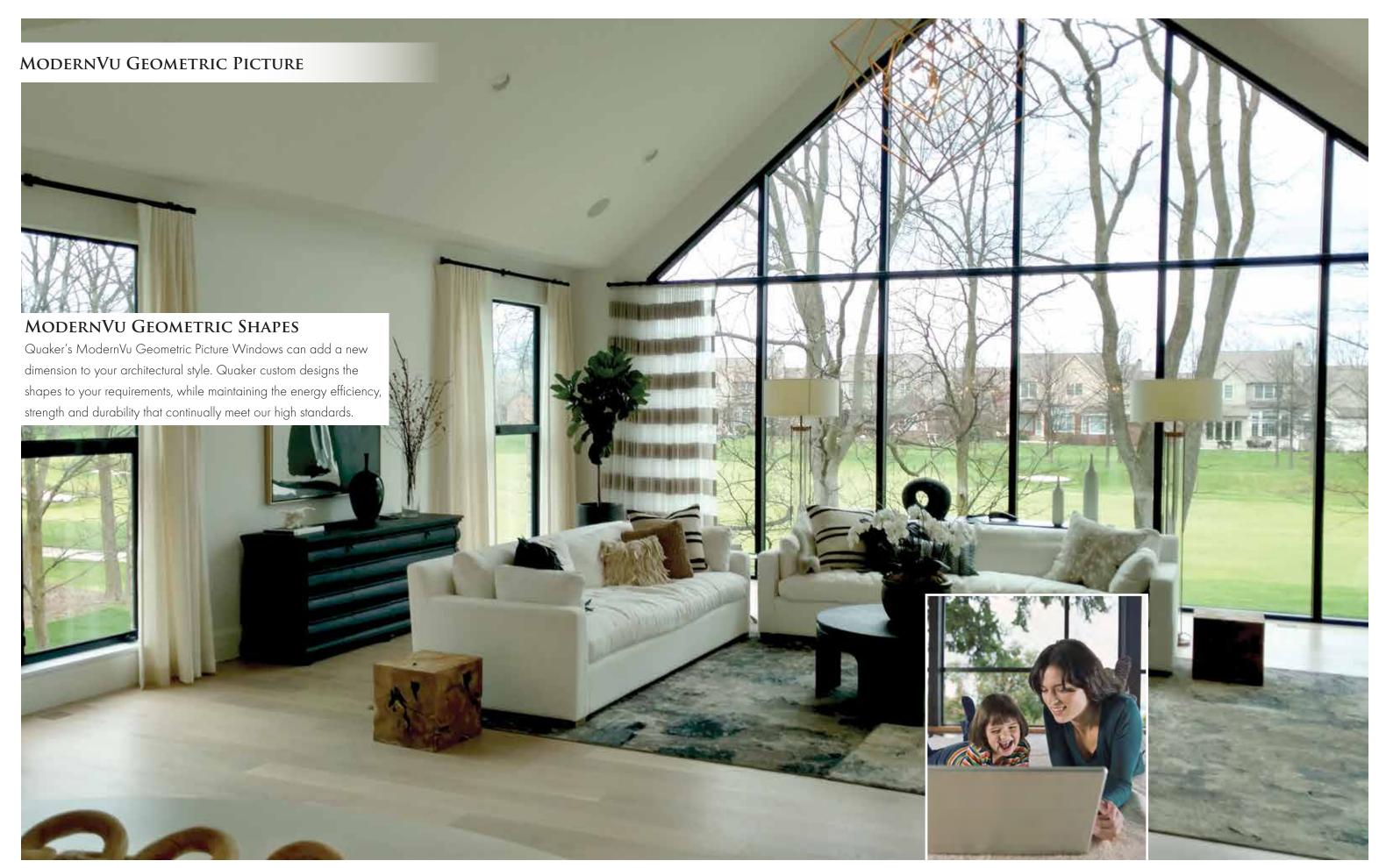
Engineered for strength and long-lasting performance against the harshest elements that may challenge your home. ModernVu is custom designed and crafted from architecturally enhanced Aluminum, offering both durability and sleek appearance that can be shaped and combined to meet your window needs and truly turn your Inspiration into Reality.

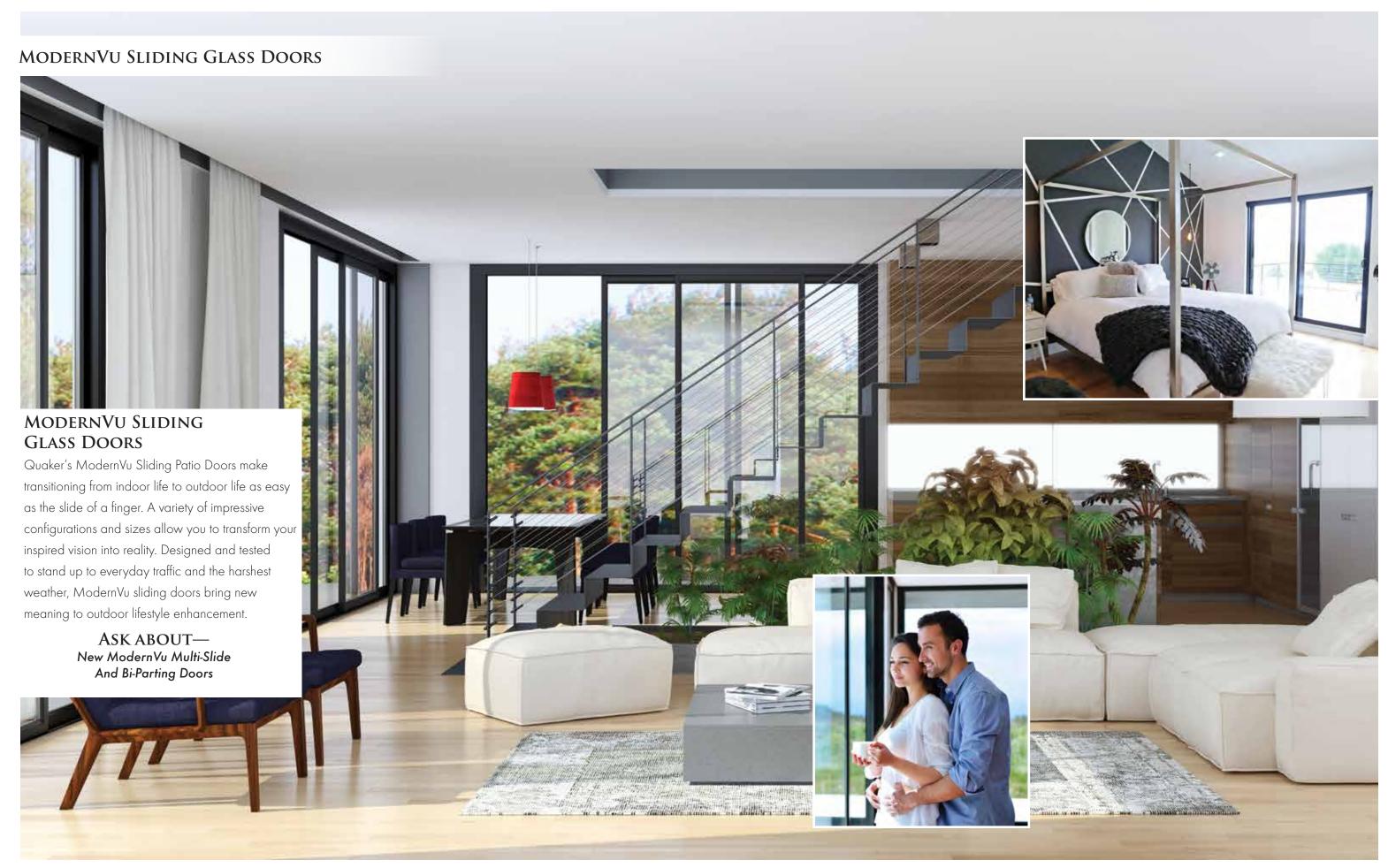


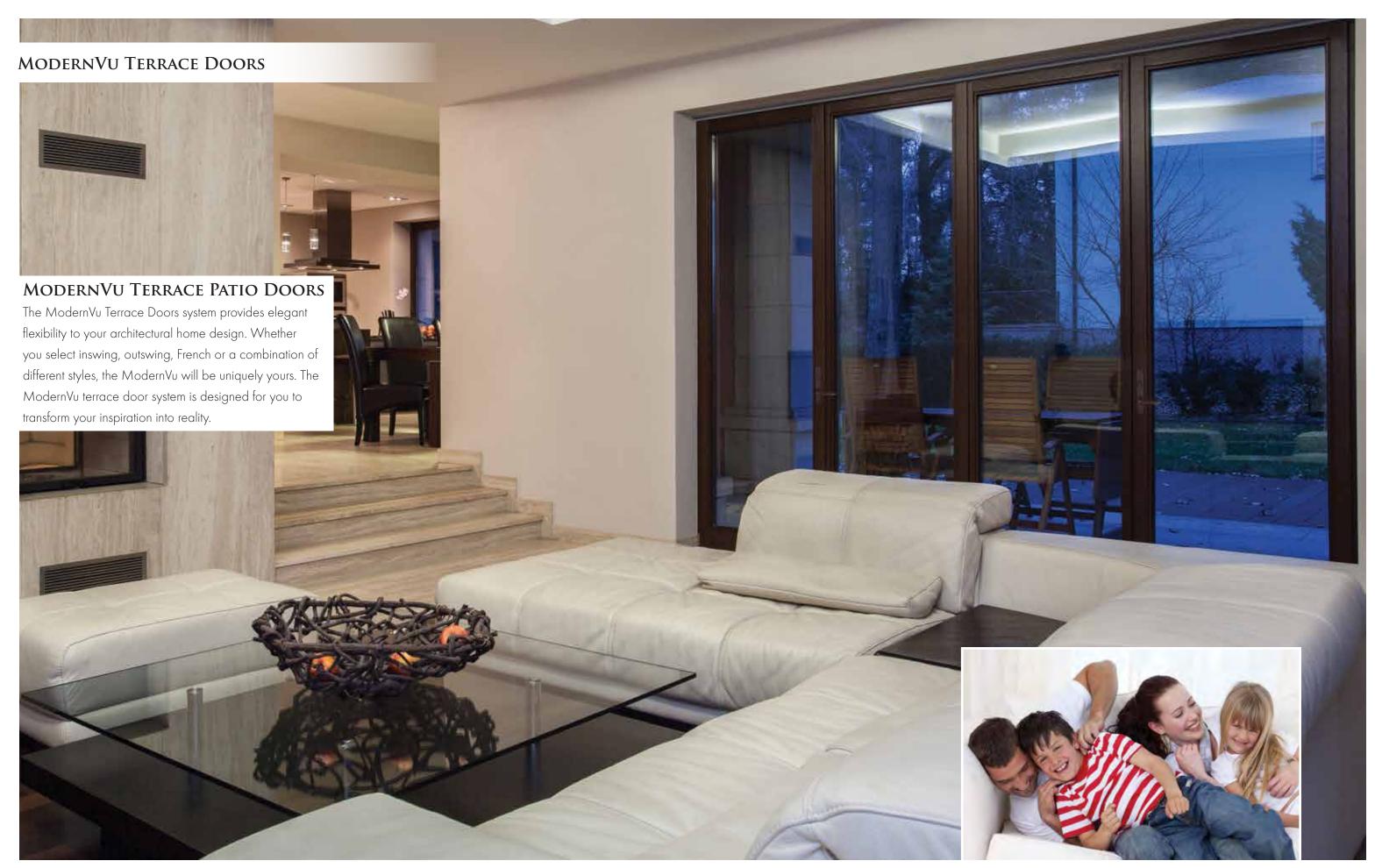












THE QUAKER DIFFERENCE



WHAT IS THE QUAKER DIFFERENCE?



It is a standard of quality, engineering, craftsmanship and innovation that Quaker builds into every window and door. It is that attention to detail and manufacturing excellence that distinguishes Quaker from all other window and door companies in America. It is providing more than windows and doors, it's providing the "Right Solution" to our customers. That's the "Quaker Difference".

SOME OF THE QUAKER DIFFERENCES INCLUDE...

Architectural Design – ModernVu windows have been designed and engineered to maximize superior performance of the aluminum. This means bigger, taller and stronger windows and doors that perform to rigid architectural standards allowing you to create the perfect look without compromising on performance.

Frame Construction – ModernVu has reset the standard when it comes to frame construction strength and durability. With a full 31/4" frame depth, ModernVu utilizes a mitered frame and corner key system that securely squares and locks the frame tight for unrivaled performance. Each corner is additionally injected with silicone creating a rigid water-tight seal.

New Construction Residential
Design — Builders and
Homeowners alike love that
ModernVu windows are
manufactured with an integral miter
cut nail fin that surrounds the entire
unit. This means no gaps or
uneven fins ensuring an installation
friendly, secure tight fit into each
window opening.

Water Management –

Channeling any encroaching water away from the inside and back out of the house is an essential part of any window system. The ModernVu series has been designed to incorporate an internal water management and weep system, which safely channels any water away from the unit and the interior of your home.

Color Flexibility and Paint
Performance – Quaker has one
of the largest state-of-the art
aluminum window powder paint
facilities in the United States. This
not only enables Quaker to offer
the ultimate in color flexibility (see
page 23), but also ensures each
window's finish is of the highest
quality and durability.

Thermal Performance –

Traditionally, aluminum windows and doors were not known for their thermal performance, but Quaker has changed all of that. With its architecturally enhanced aluminum frame design, ModernVu minimizes the effects of thermal transfer. Combine that with the optimal glass combination for your part of the country and you can see thermal performance results as much as 20% better than older generation aluminum windows.

Glass Combinations – Quaker offers a wide range of energyefficient glass packages (see page 21) to satisfy your requirements. The ModernVu design accommodates insulated glass from 1" to 1-3/8" thick. With a 1" glass system, the ModernVu ensures design flexibility and superior thermal performance. The 1-3/8" system, gives you all that performance, plus superior sound deadening qualities utilizing laminated glass and a larger air space cavity. No matter which glass thickness or options you select, you can be assured of the same uniform look throughout your home.



Roto Handles



Roto Finishes



Standard Satin/Brushed Nickel

Push Out Handles



Push Out Finishes



Black



Satin/Brushed

Standard Features and Benefits

- 3-1/4" architecturally enhanced aluminum frame
- 1" insulating glass for optimal energy efficiency
- Multi-point locking system for ease of operation, added safety and greater aesthetic appeal (Crank-Out style)
- Cam turn handle hardware (Push-out style)
- Adjustable roto crank-out hardware
- Integral Nailing Fin
- Full screen with BetterVue screen mesh standard for crank out models
- Wicket screen with aluminum screen wire standard for push out models

Options

- Structural Mullions
- Grids Internal or Simulated Divided Lites (SDL)
- Multiple glazing packages and Finish options
- 1-3/8" glazing pocket for enhanced sound attenuation
- Impact tested with special glazing

ModernVu (Minimum and Maximum) **Casement Thermal Aluminum Windows**

	Roto Model	Push Out Model
Maximum width	48"*	36"
Maximum height	96″*	72"
Minimum width	18"	14"
Minimum height	24"	18"

^{*} Maximum width and height cannot be used together. Width and height, when added together, cannot

Casement Energy performance

	U-Value	SHGC
EnergyBasic	0.43	0.29
Energy3S	0.42	0.20
EnergyPlus	0.39	0.29
EnergyMAX	0.39	0.19
EnergyEnhanced	Pending	Pending

ModernVu (Minimum and Maximum) Awning Thermal Aluminum Windows

	Roto Model	Push Out Model
Maximum width	72"*	72"
Maximum height	84"	48"
Minimum width	22-5/8"	14"
Minimum height	22"	14"

^{*} Maximum width and height cannot be used together. Width and height, when added together, cannot

Awning Energy performance

	U-Value	SHGC
EnergyBasic 0.43		0.29
Energy3S	0.42	0.20
EnergyPlus	0.40	0.29
EnergyMAX	0.39	0.19
EnergyEnhanced	Pending	Pending

Standard Features and Benefits

- 1" insulating glass for added energy efficiency
- Extended sizes allow for larger viewing areas
- Narrow sightlines for increased viewing area

Options

- Grids Internal or Simulated Divided Lites (SDL)
- Multiple glazing packages and Finish options
- 1-3/8" glazing pocket for enhanced sound attenuation
- Impact tested with special glazing

Picture Thermal Aluminum Windows

MODERNVU PICTURE WINDOWS FEATURES AND BENEFITS

Maximum width	120″*
Minimum height	120″*
Minimum width	12"
Minimum height	10"

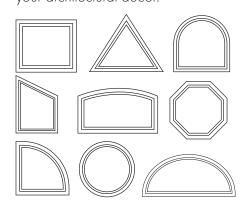
^{*} Maximum width and height cannot be used together. Width and height, when added together, cannot

Picture Window Energy performance

U-Value	SHGC
0.31	0.36
0.30	0.24
0.26	0.35
0.26	0.23
Pending	Pending
	0.31 0.30 0.26 0.26

GEOMETRIC PICTURE **WINDOWS**

ModernVu windows are made from extruded Aluminum with a high ratio of strength-to-weight allowing the material to be easily shaped to satisfy your architectural decor.



SLIDING GLASS DOORS AND FRENCH DOORS FEATURES

MODERNVU SLIDING GLASS PATIO DOORS



Available Color Finishes





Satin/Brushed

Standard Features and Benefits

- Panels 2, 3 and 4 panel configurations available
- Architecturally enhanced aluminum
- Steel rollers for ease of operation
- Internal weep system for effective water
- Anodized threshold with 1-9/16" sill
- D-loop handle set with thumb latch and
- Sliding screen with BetterVue mesh
- Available with or without Nailing Fin

Options

- Upgrade to premium 2" roller system for superior gliding operation
- ADA thumb latch hardware
- Flush handle hardware
- Impact glass where building codes necessitate
- Door and window combinations available for incomparable views
- Footbolt

ModernVu (Minimum and Maximum) Sliding Glass Patio Door Sizing

	2-Panel	3-Panel	4-Panel
Max. width	120″	180″	240"
Max. height	120″	120″	120"
Min. width	48"	76-3/8"	100-1/16"
Min. height	48"	48"	48"

Sliding Glass Patio Door Thermal Performance

	U-Value	SHGC
EnergyBasic	0.40	0.32
Energy3S	0.40	0.21
EnergyPlus	0.35	0.32
EnergyMAX	0.35	0.21
EnergyEnhanced	Pending	Pending

MODERNVU TERRACE PATIO DOORS

Standard Features and Benefits

• Inswing or Outswing models • Architecturally enhanced aluminum

• Adjustable hinge systems add to

• 5-point locking system for added security

• Door won't sag with heavy-duty corner

• Stylish lock and turn-key handle set

• Sidelites/transoms with matching

operational ease

• 2-way adjustable hinge

Hardware Choices



Available Color Finishes



Standard

Faux Oil Oil Rubbed Rubbed Bronze Bronze/Brass Rustic Umber



Brushed Nickel

ADA sill

sightlines

Options

key system

No Nailing Fin

- 10" kick plate
- Surface mounted closure
- 3-way adjustable hinge
- Impact glass where building codes necessitate
- Door and window combinations available for incomparable views
- Keyed alike hardware for multiple doors

ModernVu (Minimum and Maximum) Terrace Patio Door Sizing

	1-Panel	2-Panel
Maximum width	48"	84"
Maximum height	120″	120″
Minimum width	24"	48"
Minimum height	72"	72"

Terrace Patio Door Thermal Performance

	U-Value	SHGC
EnergyBasic	0.41	0.28
Energy3S	0.37	0.19
EnergyPlus	0.36	0.28
EnergyMAX	0.37	0.19
EnergyEnhanced	Pending	Pending

MODERNVU GLASS PACKAGES



Unrivaled Glass Performance

ModernVu windows and doors have an energy-efficient glass package to satisfy every home, in every city, every state - regardless of your climate challenges. Selecting the right glass package for your home will heighten energy-efficiency and provide you with a more consistent level of comfort throughout the year

The Energy Series Glass Packages include —

ENERGYBASIC

Our basic Low-E provides as much as 30% better U-Value and Solar Heat Gain coverage than clear glass.

Energy 3S

Comparable to our EnergyBasic, yet delivers Solar Heat Gains 25-30% better

ENERGY PLUS

An upgraded Low-E system that excels against U-V rays, and extends energy-efficiency up to 15%.

ENERGYMAX

If low U-Values and Solar Heat Gains are an absolute must, this glass system maximizes your coverage.

ENERGY Enhanced

Elevates both comfort and views. Special Low-E enhances energy-efficiency and reduces glare, presenting a near HD appearance. Plus, your glass is kept clean naturally with the addition of Neat+ Low Maintenance glass.

- EnergyObscure Designed for areas needing the utmost in privacy
- Tempered Glass for safety
- Laminated Glass for safety and sound attenuation
- Impact Glass for coastal areas that mandate paramount
- Bronze, Gray, Blue and Green Tinted Glass

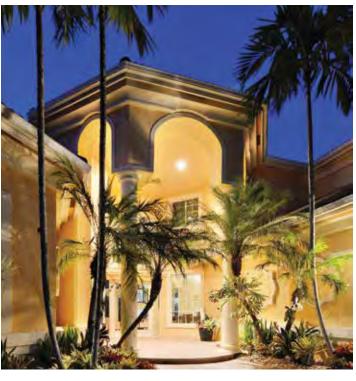
Or ask about other custom glass choices

Impact Protection

Quaker has designed our ModernVu Series to offer an Impact Window option to meet nationally recognized impact

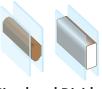
Impact products are specially glazed and structurally reinforced to meet or exceed codes mandated for areas where violent high wind conditions and wind-borne debris may occur.

All ModernVu windows and doors are certified to meet nationally recognized Impact standards.



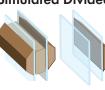
OPTIONAL GRID CHOICES

Grids Between the Glass

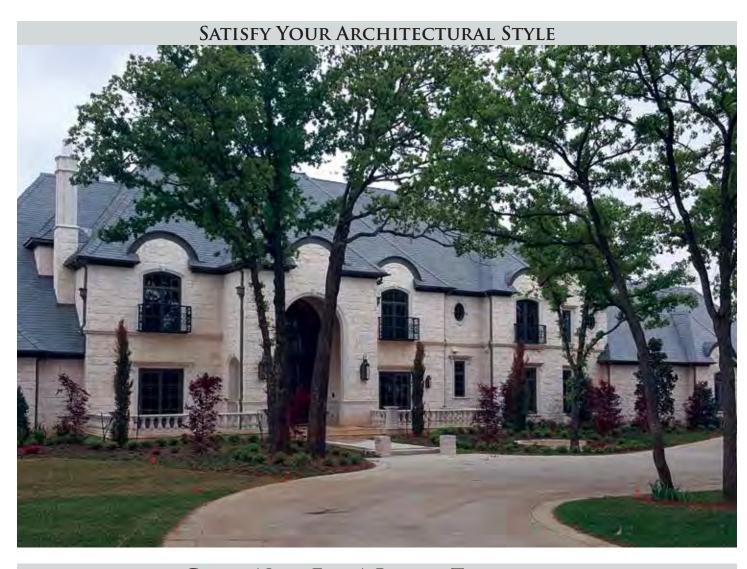


Decorative internal muntins add a distinct style to your windows. Because they are inside the glass, they are dust and maintenance free.

Simulated Divided Lites



Truly enhance your ModernVu windows with Simulated Divided Lites (SDL). SDL's, with their 3-dimensional feel, simulate individual glass panes (divided lites) for a decorative and distinct impression.



GREEN NOW FOR A BETTER TOMORROW

At Quaker Windows & Doors, thinking Green is nothing new to us. We're very proud to say we've been offering positive, environmental products for decades — including our recycling initiatives, our environmentally-safe powder paint and our innovative product designs that increase ventilation, thermal comfort, daylighting and energy performance levels.



THE VALUE OF ENERGY STAR® CERTIFIED PRODUCTS



As an Energy Star Partner, we offer all of the benefits that come with Energy Star qualified windows and doors – greater energy efficiency, lower fuel bills, improved home comfort, reduced condensation potential, decreased carbon footprints and protection against damaging

UV rays that affect interior fading of floors, carpets, and furniture.

While not all of our product/glass combinations meet Energy Star criteria, we're proud to assert that several do — a major feat for aluminum windows and doors and a great testimonial for our ModernVu Series.

A SPECTRUM OF COLOR



Rich Colors

When it comes to windows and doors, there is probably no feature more discussed than color.

The ModernVu Series of windows and doors removes that pressure by offering an unlimited selection of colors. Choose a deep rich hunter green, a soft charcoal

gray or a distinct Blue to enhance your home's design. Whatever you want - whatever your style - the ModernVu is the cure for the common color.

To help get you started, we have 38 "Quick Pick" colors from which to choose.

SolarLE

Keep your window and door exteriors cooler with optional SolarLE Paint, an additive that works much like Low-E in glass. SolarLE Paint is proven technology that has been adapted to work with windows. It diminishes surface temperatures as much as 15% by repelling excessive solar heat, reducing the possibility of thermal heat transfer through your windows and doors. Available with Textured Dark Espresso and Textured Black coatings.

The Environmental Choice

As part of our Green initiative, we employ only powder coat paint for our extruded aluminum exteriors. Powder-coatings emit nearly zero VOC's (Volatile Organic Compounds) into the air, and almost all of our over-spray is reclaimed thus eliminating waste. Powder Coat facilities are also more energy efficient, which contribute to the Department of Energy's Zero-Net Energy initiative.

IMPRESSIVES PALETTE OF COLORS



RESEMBLES COLORS



^{*} Note: Although every effort is made, printed colors may not accurately reflect the actual paint color. For an exact color match, please contact your Quaker dealer for an actual color sample. Quaker does not assume any responsibility for any misrepresentations of our colors.



MADE IN America

For more then 70 years, Quaker Windows & Doors has been manufacturing products in Freeburg, Missouri - right in the heartland of America. When it comes to windows and doors that truly set a home or building apart, Quaker has them. We offer that unique blend of design, quality craftsmanship, with state-of-the-art manufacturing technology to create the perfect solution for your home.









Learn More About Brighton Windows















www.QuakerResidentialWindows.com www.QuakerWindows.com 1-800-347-0438

Proudly made in America with Quaker Windows Innovation. Since 1949



Standard Size Booklet for

ModernWu

Aluminum Windows & Doors



Quaker Window Products Company makes every attempt to ensure the information contained in this booklet is accurate and up-to-date.

However, periodic changes may occur which may alter the product data thus we reserve the right to change or withdraw information at any time.

Casement (crank-out a.k.a. roto)



Callout	Actual	Rough
	Size	Opening
2020	24" x 24"	24 3/4" x 24 1/2"
2026	24" x 30"	24 3/4" x 30 1/2"
2030	24" x 36"	24 3/4" x 36 1/2"
2036	24" x 42"	24 3/4" x 42 1/2"
2040	24" x 48"	24 3/4" x 48 1/2"
2046	24" x 54"	24 3/4" x 54 1/2"
2050	24" x 60"	24 3/4" x 60 1/2"
2056	24" x 66"	24 3/4" x 66 1/2"
2060	24" x 72"	24 3/4" x 72 1/2"
2070	24" x 84"	24 3/4" x 84 1/2"
2080	24" x 96"	24 3/4" x 96 1/2"
2420	28" x 24"	28 3/4" x 24 1/2"
2426	28" x 30"	28 3/4" x 30 1/2"
2430	28" x 36"	28 3/4" x 36 1/2"
2436	28" x 42"	28 3/4" x 42 1/2"
2440	28" x 48"	28 3/4" x 48 1/2"
2446	28" x 54"	28 3/4" x 54 1/2"
2450	28" x 60"	28 3/4" x 60 1/2"
2456	28" x 66"	28 3/4" x 66 1/2"
2460	28" x 72"	28 3/4" x 72 1/2"
2470	28" x 84"	28 3/4" x 84 1/2"
2480	28" x 96"	28 3/4" x 96 1/2"

Callout	Actual Size	Rough Opening
2620	30" x 24"	30 3/4" x 24 1/2"
2626	30" x 30"	30 3/4" x 30 1/2"
2630	30" x 36"	30 3/4" x 36 1/2"
2636 ☆	30" x 42"	30 3/4" x 42 1/2"
2640 ☆ ◢	30" x 48"	30 3/4" x 48 1/2"
2646 ☆▲	30" x 54"	30 3/4" x 54 1/2"
2650 ☆ ◢	30" x 60"	30 3/4" x 60 1/2"
2656 ☆⊿	30" x 66"	30 3/4" x 66 1/2"
2660 ☆ ◢	30" x 72"	30 3/4" x 72 1/2"
2670 ☆ 🛦	30" x 84"	30 3/4" x 84 1/2"
2680 ☆ ◢	30" x 96"	30 3/4" x 30 1/2"
2820	32" x 24"	32 3/4" x 24 1/2"
2826	32" x 30"	32 3/4" x 30 1/2"
2830 ☆	32" x 36"	32 3/4" x 36 1/2"
2836 ☆ ◢	32" x 42"	32 3/4" x 42 1/2"
2840 ☆ ◢	32" x 48"	32 3/4" x 48 1/2"
2846 ☆ ◢	32" x 54"	32 3/4" x 54 1/2"
2850 ☆ 🛦	32" x 60"	32 3/4" x 60 1/2"
2856 ☆ ◢	32" x 66"	32 3/4" x 66 1/2"
2860 ☆ ◢	32" x 72"	32 3/4" x 72 1/2"
2870 ☆ ◢	32" x 84"	32 3/4" x 84 1/2"
2880 ☆ 🗸	32" x 96"	32 3/4" x 96 1/2"

Callout	Actual Size	Rough Opening
3020	36" x 24"	36 3/4" x 24 1/2"
3026	36" x 30"	36 3/4" x 30 1/2"
3030 ☆▲	36" x 36"	36 3/4" x 36 1/2"
3036 ☆▲	36" x 42"	36 3/4" x 42 1/2"
3040 ☆▲	36" x 48"	36 3/4" x 48 1/2"
3046 ☆▲	36" x 54"	36 3/4" x 54 1/2"
3050 ☆▲	36" x 60"	36 3/4" x 60 1/2"
3056 ☆⊿	36" x 66"	36 3/4" x 66 1/2"
3060 ☆▲	36" x 72"	36 3/4" x 72 1/2"
3070 ☆⊿	36" x 84"	36 3/4" x 84 1/2"
3080 ☆▲	36" x 96"	36 3/4" x 96 1/2"
4020	48" x 24"	48 3/4" x 24 1/2" ¹
4026 ☆	48" x 30"	48 3/4" x 30 1/2"
4030 ☆	48" x 36"	48 3/4" x 36 1/2"
4036 ☆	48" x 42"	48 3/4" x 42 1/2"
4040 ☆	48" x 48"	48 3/4" x 48 1/2"
4046 ☆	48" x 54"	48 3/4" x 54 1/2"
4050 ☆	48" x 60"	48 3/4" x 60 1/2"
4056 ☆	48" x 66"	48 3/4" x 66 1/2"
4060 ☆	48" x 72"	48 3/4" x 72 1/2"
4070 ☆	48" x 84"	48 3/4" x 84 1/2"

4' widths only available with butt hinge [4-bar n/a]

- ▲ = Meets egress minimum opening of 5.7 sq. ft., with a 20" minimum width and 24" minimum height using 4-bar hinging.
- 太 = Meets egress minimum opening of 5.7 sq. ft., with a 20" minimum width and 24" minimum height using butt hinge.

Casement (push out)



Callout	Actual Size	Rough Opening
2020	24" x 24"	24 3/4" x 24 1/2"
2030	24" x 36"	24 3/4" x 36 1/2"
2036	24" x 42"	24 3/4" x 42 1/2"
2040	24" x 48"	24 3/4" x 48 1/2"
2046	24" x 54"	24 3/4" x 54 1/2"
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2060	24" x 72"	24 3/4" x 72 1/2"
2420	28" x 24"	28 3/4" x 24 1/2"
2430	28" x 36"	28 3/4" x 36 1/2"
2436	28" x 42"	28 3/4" x 42 1/2"
2440	28" x 48"	28 3/4" x 48 1/2"
2446	28" x 54"	28 3/4" x 54 1/2"
2450	28" x 60"	28 3/4" x 60 1/2"
2456	28" x 66"	28 3/4" x 66 1/2"
2460	28" x 72"	28 3/4" x 72 1/2"

Callout	Actual Size	Rough Opening
2620	30" x 24"	30 3/4" x 24 1/2"
2630	30" x 36"	30 3/4" x 36 1/2"
2636	30" x 42"	30 3/4" x 42 1/2"
2640	30" x 48"	30 3/4" x 48 1/2"
2646 7	30" x 54"	30 3/4" x 54 1/2"
2650 7	30" x 60"	30 3/4" x 60 1/2"
2656 7	30" x 66"	30 3/4" x 66 1/2"
2660 7	30" x 72"	30 3/4" x 72 1/2"
2820	32" x 24"	32 3/4" x 24 1/2"
2830	32" x 36"	32 3/4" x 36 1/2"
2836	32" x 42"	32 3/4" x 42 1/2"
2840 7	32" x 48"	32 3/4" x 48 1/2"
2846 7	32" x 54"	32 3/4" x 54 1/2"
2850 7	32" x 60"	32 3/4" x 60 1/2"
2856 7	32" x 66"	32 3/4" x 66 1/2"
2860 7	32" x 72"	32 3/4" x 72 1/2"

Callout	Actual Size	Rough Opening
3020	36" x 24"	36 3/4" x 24 1/2"
3030	36" x 36"	36 3/4" x 36 1/2"
3036 47	36" x 42"	36 3/4" x 42 1/2"
3040 47	36" x 48"	36 3/4" x 48 1/2"
3046 47	36" x 54"	36 3/4" x 54 1/2"
3050 ⊿ 7	36" x 60"	36 3/4" x 60 1/2"
3056 47	36" x 66"	36 3/4" x 66 1/2"
3060 ⊿7	36" x 72"	36 3/4" x 72 1/2"

 Δ = Meets egress minimum opening of 5.7 sq. ft., with a 20" minimum width and 24" minimum height using Push-Out hardware.

7 = Meets egress minimum opening of 5.7 sq. ft., with a 20" minimum width and 24" minimum height using Push-Out hardware and Egress Hinge.

Awning (crank out a.k.a. roto or push-out)



All callout sizes shown are available with crank out a.k.a. roto hardware. Callout sizes shown with an asterisk are available with push out hardware also.

Called Dizes of CWIT Will all asserted are available with					
Callout	Actual Size	Rough Opening			
2016*	24" x 18"	24 3/4" x 18 1/2"			
2020*	24" x 24"	24 3/4" x 24 1/2"			
2026*	24" x 30"	24 3/4" x 30 1/2"			
2030*	24" x 36"	24 3/4" x 36 1/2"			
2040*	24" x 48"	24 3/4" x 48 1/2"			
2050	24" x 60"	24 3/4" x 60 1/2"			
2060	24" x 72"	24 3/4" x 72 1/2"			
2616*	30" x 18"	30 3/4" x 18 1/2"			
2620*	30" x 24"	30 3/4" x 24 1/2"			
2626*	30" x 30"	30 3/4" x 30 1/2"			
2630*	30" x 36"	30 3/4" x 36 1/2"			
2640*	30" x 48"	30 3/4" x 48 1/2"			
2650	30" x 60"	30 3/4" x 60 1/2"			
2660	30" x 72"	30 3/4" x 72 1/2"			

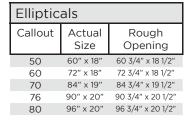
Callout	Actual Size	Rough Opening
3016*	36" x 18"	36 3/4" x 18 1/2"
3020*	36" x 24"	36 3/4" x 24 1/2"
3026*	36" x 30"	36 3/4" x 30 1/2"
3030*	36" x 36"	36 3/4" x 36 1/2"
3040*	36" x 48"	36 3/4" x 48 1/2"
3050	36" x 60"	36 3/4" x 60 1/2"
3060	36" x 72"	36 3/4" x 72 1/2"
3616*	42" x 18"	42 3/4" x 18 1/2"
3620*	42" x 24"	42 3/4" x 24 1/2"
3626*	42" x 30"	42 3/4" x 30 1/2"
3630*	42" X 36"	42 3/4" X 36 1/2"
3640*	42" x 48"	42 3/4" x 48 1/2"
3650	42" x 60"	42 3/4" x 60 1/2"
3660	42" x 72"	42 3/4" x 72 1/2"

Callout	Actual	Rough
	Size	Opening
4016*	48" x 18"	48 3/4" x 18 1/2"
4020*	48" x 24"	48 3/4" x 24 1/2"
4026*	48" x 30"	48 3/4" x 30 1/2"
4030*	48" x 36"	48 3/4" x 36 1/2"
4040*	48" x 48"	48 3/4" x 48 1/2"
4050	48" x 60"	48 3/4" x 60 1/2"
4060	48" x 72"	48 3/4" x 72 1/2"
5016*	60" x 18"	60 3/4" x 18 1/2"
5020*	60" x 24"	60 3/4" x 24 1/2"
5026*	60" x 30"	60 3/4" x 30 1/2"
5030*	60" x 36"	60 3/4" x 36 1/2"
5040*	60" x 48"	60 3/4" x 48 1/2"
5050	60" x 60"	60 3/4" x 60 1/2"
6016*	72" x 18"	72 3/4" x 18 1/2"
6020*	72" x 24"	72 3/4" x 24 1/2"
6026*	72" x 30"	72 3/4" x 30 1/2"
6030*	72" x 36"	72 3/4" x 36 1/2"
6040*	72" x 48"	72 3/4" x 48 1/2"

Direct Set Picture Windows

Callout	Actual	Rough									
	Size	Opening									
1610	18" x 12"	18 3/4" x 12 1/2"	2690	30" x 108"	30 3/4" x 108 1/2"	3680	42" x 96"	42 3/4" x 96 1/2"	5076	60" x 90"	60 3/4" x 90 1/2'
1612	18" x 14"	18 3/4" x 14 1/2"	26100	30" x 120"	30 3/4" x 120 1/2"	3690		42 3/4" x 108 1/2"	5080	60" x 96"	60 3/4" x 96 1/2"
1614	18" x 16"	18 3/4" x 16 1/2"	2810	32" x 12"	32 3/4" x 12 1/2"	36100	42" x 120"	42 3/4" x 120 1/2"	5090	60" x 108"	60 3/4" x 108 1/2"
1616	18" x 18"	18 3/4" x 18 1/2"	2812	32" x 14"	32 3/4" x 14 1/2"	3810	44" x 12"	44 3/4" x 12 1/2"	50100	60" x 120"	60 3/4" x 120 1/2"
1620	18" x 24"	18 3/4" x 24 1/2"	2814	32" x 16"	32 3/4" x 16 1/2"	3812	44" x 14"	44 3/4' x 14 1/2"	5410	64" x 12"	64 3/4" x 12 1/2"
1626	18" x 30"	18 3/4" x 30 1/2"	2816	32" x 18"	32 3/4" x 18 1/2"	3814	44" x 16"	44 3/4" x 16 1/2"	5412	64" x 14"	64 3/4' x 14 1/2"
1630	18" x 36"	18 3/4" x 36 1/2"	2820	32" x 24"	32 3/4" x 24 1/2"	3816	44" x 18"	44 3/4" x 18 1/2"	5414	64" x 16"	64 3/4" x 16 1/2"
1636	18" x 42"	18 3/4" x 42 1/2"	2826	32" x 30"	32 3/4" x 30 1/2"	3820	44" x 24"	44 3/4" x 24 1/2"	5416	64" x 18"	64 3/4" x 18 1/2"
1640	18" x 48"	18 3/4" x 48 1/2"	2830	32" x 36"	32 3/4" x 36 1/2"	3826	44" x 30"	44 3/4" x 30 1/2"	5420	64" x 24"	64 3/4" x 24 1/2"
1646	18" x 54"	18 3/4" x 54 1/2"	2836	32" x 42"	32 3/4" x 42 1/2"	3830	44" x 36"	44 3/4" x 36 1/2"	5426	64" x 30"	64 3/4" x 30 1/2"
1650	18" x 60"	18 3/4" x 60 1/2"	2840	32" x 48"	32 3/4" x 48 1/2"	3836	44" x 42"	44 3/4" x 42 1/2"	5430	64" x 36"	64 3/4" x 36 1/2"
1656	18" x 66"	18 3/4" x 66 1/2"	2846	32" x 54"	32 3/4" x 54 1/2"	3840	44" x 48"	44 3/4" x 48 1/2"	5436	64" x 42"	64 3/4" x 42 1/2"
1660	18" x 72"	18 3/4" x 72 1/2"	2850	32" x 60"	32 3/4" x 60 1/2"	3846	44" x 54"	44 3/4" x 54 1/2"	5440	64" x 48"	64 3/4" x 48 1/2"
1666	18" x 78"	18 3/4" x 78 1/2"	2856	32" x 66"	32 3/4" x 66 1/2"	3850	44" x 60"	44 3/4" x 60 1/2"	5446	64" x 54"	64 3/4" x 54 1/2"
1670	18" x 84"	18 3/4" x 84 1/2"	2860	32" x 72"	32 3/4" x 72 1/2"	3856	44" x 66"	44 3/4" x 66 1/2"	5450	64" x 60"	64 3/4" x 60 1/2"
1676	18" x 90"	18 3/4" x 90 1/2"	2866	32" x 78"	32 3/4" x 78 1/2"	3860	44" x 72"	44 3/4" x 72 1/2"	5456	64" x 66"	64 3/4" x 66 1/2"
1680	18" x 96"	18 3/4" x 96 1/2"	2870	32" x 84"	32 3/4" x 84 1/2"	3866	44" x 78"	44 3/4" x 78 1/2"	5460	64" x 72"	64 3/4" x 72 1/2"
1690	18" x 108"	18 3/4" x 108 1/2"	2876	32" x 90"	32 3/4" x 90 1/2"	3870	44" x 84"	44 3/4" x 84 1/2"	5466	64" x 78"	64 3/4" x 78 1/2"
16100	18" x 120"	18 3/4" x 120 1/2"	2880	32" x 96"	32 3/4" x 96 1/2"	3876	44" x 90"	44 3/4" x 90 1/2"	5470	64" x 84"	64 3/4" x 84 1/2"
2010	24" x 12"	24 3/4" x 12 1/2"	2890	32" x 108"	32 3/4" x 108 1/2"	3880	44" x 96"	44 3/4" x 96 1/2"	5476	64" x 90"	64 3/4" x 90 1/2"
2012	24" x 14"	24 3/4" x 14 1/2"	28100	32" x 120"	32 3/4" x 120 1/2"	3890	44" x 108"	44 3/4" x 108 1/2"	5480	64" x 96"	64 3/4" x 96 1/2"
2014	24" x 16"	24 3/4" x 16 1/2"	3010	36" x 12"	36 3/4" x 12 1/2"	38100		44 3/4" x 120 1/2"	5490	64" x 108"	64 3/4" x 108 1/2"
2016	24" x 18"	24 3/4" x 18 1/2"	3012	36" x 14"	36 3/4" x 14 1/2"	4010	48" x 12"	48 3/4" x 12 1/2"	54100	64" x 120"	64 3/4" x 120 1/2"
2020	24" x 24"	24 3/4" x 24 1/2"	3014	36" x 16"	36 3/4" x 16 1/2"	4012	48" x 14"	48 3/4" x 14 1/2"	6010	72" x 12"	72 3/4" x 12 1/2"
2026	24" x 30"	24 3/4" x 30 1/2"	3016	36" x 18"	36 3/4" x 18 1/2"	4014	48" x 16"	48 3/4" x 16 1/2"	6012	72" x 14"	72 3/4' x 14 1/2"
2030	24" x 36"	24 3/4" x 36 1/2"	3020	36" x 24"	36 3/4" x 24 1/2"	4016	48" x 18"	48 3/4" x 18 1/2"	6014	72" x 16"	72 3/4" x 16 1/2"
2036	24" x 42"	24 3/4" x 42 1/2"	3026	36" x 30"	36 3/4" x 30 1/2"	4020	48" x 24"	48 3/4" x 24 1/2"	6016	72" x 18"	72 3/4" x 18 1/2"
2040	24" x 48"	24 3/4" x 48 1/2"	3030	36" x 36"	36 3/4" x 36 1/2"	4026	48" x 30"	48 3/4" x 30 1/2"	6020	72" x 24"	72 3/4" x 24 1/2"
2046	24" x 54"	24 3/4" x 54 1/2"	3036	36" x 42"	36 3/4" x 42 1/2"	4030	48" x 36"	48 3/4" x 36 1/2"	6026	72" x 30"	72 3/4" x 30 1/2"
2050	24" x 60"	24 3/4" x 60 1/2"	3040	36" x 48"	36 3/4" x 48 1/2"	4036	48" x 42"	48 3/4" x 42 1/2"	6030	72" x 36"	72 3/4" x 36 1/2"
2056	24" x 66"	24 3/4" x 66 1/2"	3046	36" x 54"	36 3/4" x 54 1/2"	4040	48" x 48"	48 3/4" x 48 1/2"	6036	72" x 42"	72 3/4" x 42 1/2"
2060	24" x 72"	24 3/4" x 72 1/2"	3050	36" x 60"	36 3/4" x 60 1/2"	4046	48" x 54"	48 3/4" x 54 1/2"	6040	72" x 48"	72 3/4" x 48 1/2"
2066	24" x 78"	24 3/4" x 78 1/2"	3056	36" x 66"	36 3/4" x 66 1/2"	4050	48" x 60"	48 3/4" x 60 1/2"	6046	72" x 54"	72 3/4" x 54 1/2"
2070	24" x 84"	24 3/4" x 84 1/2"	3060	36" x 72"	36 3/4" x 72 1/2"	4056	48" x 66"	48 3/4" x 66 1/2"	6050	72" x 60"	72 3/4" x 60 1/2"
2076	24" x 90"	24 3/4" x 90 1/2"	3066	36" x 78"	36 3/4" x 78 1/2"	4060	48" x 72"	48 3/4" x 72 1/2"	6056	72" x 66"	72 3/4" x 66 1/2"
2080	24" x 96"	24 3/4" x 96 1/2"	3070	36" x 84"	36 3/4" x 84 1/2"	4066	48" x 78"	48 3/4" x 78 1/2"	6060	72" x 72"	72 3/4" x 72 1/2"
2090	24" x 108"	24 3/4" x 108 1/2"	3076	36" x 90"	36 3/4" x 90 1/2"	4070	48" x 84"	48 3/4" x 84 1/2"	6066	72" x 78"	72 3/4" x 78 1/2"
20100	24" x 120"	24 3/4" x 120 1/2"	3080	36" x 96"	36 3/4" x 96 1/2"	4076	48" x 90"	48 3/4" x 90 1/2"	6070	72" x 84"	72 3/4" x 84 1/2"
2410	28" x 12"	28 3/4" x 12 1/2"	3090	36" x 108"	36 3/4" x 108 1/2"	4080	48" x 96"	48 3/4" x 96 1/2"	6076	72" x 90"	72 3/4" x 90 1/2"
2412	28" x 14"	28 3/4" x 14 1/2"	30100	36" x 120"	36 3/4" x 120 1/2"	4090		48 3/4" x 108 1/2"	6080	72" x 96"	72 3/4" x 96 1/2"
2414	28" x 16"	28 3/4" x 16 1/2"	3410	40" x 12"	40 3/4" x 12 1/2"	40100	48" x 120"	48 3/4" x 120 1/2"	6090	72" x 108"	72 3/4" x 108 1/2"
2416	28" x 18"	28 3/4" x 18 1/2"	3412	40" x 14"	40 3/4" x 14 1/2"	4810	56" x 12"	56 3/4" x 12 1/2"	60100	72" x 120"	72 3/4" x 120 1/2"
2420	28" x 24"	28 3/4" x 24 1/2"	3414	40" x 16"	40 3/4" x 16 1/2"	4812	56" x 14"	56 3/4" x 14 1/2"	7012	84" x 14"	84 3/4' x 14 1/2"
2426	28" x 30"	28 3/4" x 30 1/2"	3416	40" x 18"	40 3/4" x 18 1/2"	4814	56" x 16"	56 3/4" x 16 1/2"	7014	84" x 16"	84 3/4" x 16 1/2"
2430	28" x 36"	28 3/4" x 36 1/2"	3420	40" x 24"	40 3/4" x 24 1/2"	4816	56" x 18"	56 3/4" x 18 1/2"	7016	84" x 18"	84 3/4" x 18 1/2"
2436	28" x 42"	28 3/4" x 42 1/2"	3426	40" x 30"	40 3/4" x 30 1/2"	4820	56" x 24"	56 3/4" x 24 1/2"	7020	84" x 24"	84 3/4" x 24 1/2"
2440	28" x 48"	28 3/4" x 48 1/2"	3430		40 3/4" x 36 1/2"	4826	56" x 30"	56 3/4" x 30 1/2"	7026	84" x 30"	84 3/4" x 30 1/2"
2446	28" x 54"	28 3/4" x 54 1/2"	3436	40" x 42"	40 3/4" x 42 1/2"	4830	56" x 36"	56 3/4" x 36 1/2"	7030	84" x 36"	84 3/4" x 36 1/2"
2450	28" x 60"	28 3/4" x 60 1/2"	3440	40" x 48"	40 3/4" x 48 1/2"	4836	56" x 42"	56 3/4" x 42 1/2"	7036	84" x 42"	84 3/4" x 42 1/2"
2456	28" x 66"	28 3/4" x 66 1/2"	3446	40" x 54"	40 3/4" x 54 1/2"	4840	56" x 48"	56 3/4" x 48 1/2"	7040	84" x 48"	84 3/4" x 48 1/2"
2460	28" x 72"	28 3/4" x 72 1/2"	3450	40" x 60"	40 3/4" x 60 1/2"	4846	56" x 54"	56 3/4" x 54 1/2"	7046	84" x 54"	84 3/4" x 54 1/2"
2466	28" x 78"	28 3/4" x 78 1/2"	3456	40" x 66"	40 3/4" x 66 1/2"	4850	56" x 60"	56 3/4" x 60 1/2"	7050	84" x 60"	84 3/4" x 60 1/2"
2470	28" x 84"	28 3/4" x 84 1/2"	3460	40" x 72"	40 3/4" x 72 1/2"	4856	56" x 66"	56 3/4" x 66 1/2"	7056	84" x 66"	84 3/4" x 66 1/2"
2476	28" x 90"	28 3/4" x 90 1/2"	3466	40" x 78"	40 3/4" x 78 1/2"	4860	56" x 72"	56 3/4" x 72 1/2"	7060	84" x 72"	84 3/4" x 72 1/2"
2480	28" x 96"	28 3/4" x 96 1/2"	3470	40" x 84"	40 3/4" x 84 1/2"	4866	56" x 78"	56 3/4" x 78 1/2"	7066	84" x 78"	84 3/4" x 78 1/2"
2490			3476	40" x 90"	40 3/4" x 90 1/2'	4870	56" x 84"	56 3/4" x 84 1/2"	7070	84" x 84"	84 3/4" x 84 1/2"
24100	28" x 120"	28 3/4" x 120 1/2"	3480	40" x 96"	40 3/4" x 96 1/2"	4876	56" x 90"	56 3/4" x 90 1/2"	7076	84" x 90"	84 3/4" x 90 1/2"
2610	30" x 12"	30 3/4" x 12 1/2"	3490		40 3/4" x 108 1/2"	4880	56" x 96"	56 3/4" x 96 1/2"	7080	84" x 96"	84 3/4" x 96 1/2"
2612	30" x 14"	30 3/4" x 14 1/2"	34100	40" x 120"	40 3/4" x 120 1/2"	4890	56" x 108"	56 3/4" x 108 1/2"	7090	84" x 108"	84 3/4" x 108 1/2"
2614	30" x 16"	30 3/4" x 16 1/2"	3610	42" x 12"	42 3/4" x 12 1/2"	48100	56" x 120"	56 3/4" x 120 1/2"	8010	96" x 12"	96 3/4" x 12 1/2"
2616	30" x 18"	30 3/4" x 18 1/2"	3612	42" x 14"	42 3/4" x 14 1/2"	5010	60" x 12"	60 3/4" x 12 1/2"	8012	96" x 14"	96 3/4' x 14 1/2"
2620	30" x 24"	30 3/4" x 24 1/2"	3614	42" x 16"	42 3/4" x 16 1/2"	5012	60" x 14"	60 3/4" x 14 1/2"	8014	96" x 16"	96 3/4" x 16 1/2"
2626	30" x 30"	30 3/4" x 30 1/2"	3616	42" x 18"	42 3/4" x 18 1/2"	5014	60" x 16"	60 3/4" x 16 1/2"	8016	96" x 18"	96 3/4" x 18 1/2"
2630	30" x 36"	30 3/4" x 36 1/2"	3620	42" x 24"	42 3/4" x 24 1/2"	5016	60" x 18"	60 3/4" x 18 1/2"	8020	96" x 24"	96 3/4" x 24 1/2"
2636	30" x 42"	30 3/4" x 42 1/2"	3626	42" x 30"	42 3/4" x 30 1/2"	5020	60" x 24"	60 3/4" x 24 1/2"	8026	96" x 30"	96 3/4" x 30 1/2"
2640	30" x 48"	30 3/4" x 48 1/2"	3630	42" x 36"	42 3/4" x 36 1/2"	5026	60" x 30"	60 3/4" x 30 1/2"	8030	96" x 36"	96 3/4" x 36 1/2"
2646	30" x 54"	30 3/4" x 54 1/2"	3636	42" x 42"	42 3/4" x 42 1/2"	5030	60" x 36"	60 3/4" x 36 1/2"	8036	96" x 42"	96 3/4" x 42 1/2"
2650	30" x 60"	30 3/4" x 60 1/2"	3640	42" x 48"	42 3/4" x 48 1/2"	5036	60" x 42"	60 3/4" x 42 1/2"	8040	96" x 48"	96 3/4" x 48 1/2"
2656	30" x 66"	30 3/4" x 66 1/2"	3646	42" x 54"	42 3/4" x 54 1/2"	5040	60" x 48"	60 3/4" x 48 1/2"	8046	96" x 54"	96 3/4" x 54 1/2"
2660	30" x 72"	30 3/4" x 72 1/2"	3650	42" x 60"	42 3/4" x 60 1/2"	5046	60" x 54"	60 3/4" x 54 1/2"	8050	96" x 60"	96 3/4" x 60 1/2"
2666	30" x 78"	30 3/4" x 78 1/2"	3656	42" x 66"	42 3/4" x 66 1/2"	5050	60" x 60"	60 3/4" x 60 1/2"	8056	96" x 66"	96 3/4" x 66 1/2"
2670	30" x 84"	30 3/4" x 84 1/2"	3660	42" x 72"	42 3/4" x 72 1/2"	5056	60" x 66"	60 3/4" x 66 1/2"	8060	96" x 72"	96 3/4" x 72 1/2"
2676	30" x 90"	30 3/4" x 90 1/2"	3666	42" x 78"	42 3/4" x 78 1/2"	5060	60" x 72"	60 3/4" x 72 1/2"	8066	96" x 78"	96 3/4" x 78 1/2"
2680	30" x 96"	30 3/4" x 96 1/2"	3670	42" x 84"	42 3/4" x 84 1/2"	5066	60" x 78"	60 3/4" x 78 1/2"	8070	96" x 84"	96 3/4" x 84 1/2"
QUAR	VED.		3676	42" x 90"	42 3/4" x 90 1/2'	5070	60" x 84"	60 3/4" x 84 1/2"	8076	96" x 90"	96 3/4" x 90 1/2"
UA.	CER									MANA GUOKO	rwindows com

Geometric Direct Set Picture Windows



Actual

Size

2030 24" x 36" 24 3/4" x 36 1/2" 24" x 54"

Rough

Opening

24 3/4" x 54 1/2"

36" x 48" 36 3/4" x 48 1/2"

36" x 54" 36 3/4" x 54 1/2" 36" x 72" 36 3/4" x 72 1/2"

48" x 72" 48 3/4" x 72 1/2"

Ovals Callout

2046

3040 3046

3060

4060

Octagons				
Callout	Actual Size	Rough Opening		
2020	24" x 24"	24 3/4" x 24 1/2"		
2424	28" x 48"	28 3/4" x 48 1/2"		
2626	30" x 30"	30 3/4" x 30 1/2"		
3030	36" x 36"	36 3/4" x 36 1/2"		
3636	42" x 42"	42 3/4" x 42 1/2"		
4040	48" x 48"	48 3/4" x 48 1/2"		
5050	60" x 60"	60 3/4" x 60 1/2"		
6060	72" x 72"	72 3/4" x 72 1/2"		
7070	84" x 84"	84 3/4" x 84 1/2"		

6060 7070	72" x 72" 84" x 84"	72 3/4" x 72 1/2" 84 3/4" x 84 1/2"
Extend	ed Oct	agons
Callout	Actual Size	Rough Opening
2030	24" x 36"	24 3/4" x 36 1/2"
2040	24" x 48"	0.4.7 /411 40.1 /011
	24 X 48	24 3/4" x 48 1/2"
2650	30" x 60"	30 3/4" x 48 1/2"
2650 3046		
	30" x 60"	30 3/4" x 60 1/2"
3046	30" x 60" 36" x 54"	30 3/4" x 60 1/2" 36 3/4" x 54 1/2"

Half Rounds				
Callout	Actual Size	Rough Opening		
20	24" x 12"	24 3/4" x 12 1/2"		
24	28" x 14"	28 3/4" x 14 1/2"		
26	30" x 15"	30 3/4" x 15 1/2"		
28	32" x 16"	32 3/4" x 16 1/2"		
30	36" x 18"	36 3/4" x 18 1/2"		
34	40" x 20"	40 3/4" x 20 1/2"		
36	42" x 21"	42 3/4" x 21 1/2"		
38	44" x 22"	44 3/4" x 22 1/2"		
40	48" x 24"	48 3/4" x 24 1/2"		
48	56" x 28"	56 3/4" x 28 1/2"		
50	60" x 30"	60 3/4" x 30 1/2"		
54	64" x 32"	64 3/4" x 32 1/2"		
60	72" x 36"	72 3/4" x 36 1/2"		
68	80" x 40"	80 3/4" x 40 1/2"		
74	88" x 44"	88 3/4" x 44 1/2"		
76	90" x 45"	90 3/4" x 45 1/2"		
80	96" x 48"	96 3/4" x 48 1/2"		
90	108" x 54"	108 3/4" x 54 1/2"		

Quarter Rounds						
Callout	Actual Size	Rough Opening				
20	24" x 24"	24 3/4" x 24 1/2"				
24	28" x 48"	28 3/4" x 48 1/2"				
26	30" x 30"	30 3/4" x 30 1/2"				
30	36" x 36"	36 3/4" x 36 1/2"				
36	42" x 42"	42 3/4" x 42 1/2"				
40	48" x 48"	48 3/4" x 48 1/2"				
46	54" x 54"	54 3/4" x 54 1/2"				
50	60" x 60"	60 3/4" x 60 1/2"				
60	72" x 72"	72 3/4" x 72 1/2"				

Circles								
Callout	Actual Size	Rough Opening						
24	28" x 28"	28 3/4" x 28 1/2"						
26	30" x 30"	30 3/4" x 30 1/2"						
30	36" x 36"	36 3/4" x 36 1/2"						
40	48" x 48"	48 3/4" x 48 1/2"						
50	60" x 60"	60 3/4" x 60 1/2"						
60	72" x 72"	72 3/4" x 72 1/2"						

Additional geometric shapes are available.

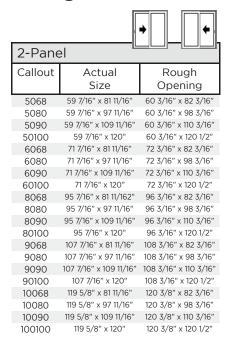
Arch Head Direct Set Picture Windows



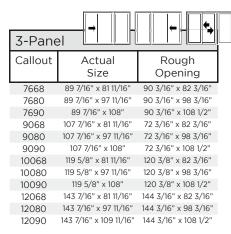
Callout	Short	Actual	Rough	Callout	Short	Actual	Rough	Callout	Short	Actual	Rough
Callout			-	Callout	I .			Callout			
	Height	Size	Opening		Height	Size	Opening		Height	Size	Opening
2010	24" x 12"	24" x 15 3/16"	24 3/4" x 15 11/16"	2836	32" x 42"	32" x 46 5/16"	32 3/4" x 46 13/16"	5056	60" x 66"	60" x 74 1/16"	60 3/4" x 74 9/16"
2016	24" x 18"	24" x 21 3/16"	24 3/4" x 21 11/16"	2840	32" x 48"	32" x 52 5/16"	32 3/4" x 52 13/16"	5060	60" x 72"	60" x 80 1/16"	60 3/4" x 80 9/16"
2020	24" x 24"	24" x 27 3/16"	24 3/4" x 27 11/16"	2846	32" x 54"	32" x 58 5/16"	32 3/4" x 58 13/16"	5070	60" x 84"	60" x 92 1/16"	60 3/4" x 92 9/16"
2030	24" x 36"	24" x 39 3/16"	24 3/4" x 39 11/16"	2850	32" x 60"	32" x 64 5/16"	32 3/4" x 64 13/16"	5080	60" x 96"	60" x 104 1/16"	60 3/4" x 104 9/16"
2036	24" x 42"	24" x 45 3/16"	24 3/4" x 45 11/16"	2856	32" x 66"	32" x 70 5/16"	32 3/4" x 70 13/16"	6010	72" x 12"	72" x 21 5/8"	72 3/4" x 22 1/8"
2040	24" x 48"	24" x 51 3/16"	24 3/4" x 51 11/16"	2860	32" x 72"	32" x 76 5/16"	32 3/4" x 76 13/16"	6016	72" x 18"	72" x 27 5/8"	72 3/4" x 28 1/8"
2046	24" x 54"	24" x 57 3/16"	24 3/4" x 57 11/16"	2870	32" x 84"	32" x 88 5/16"	32 3/4" x 88 13/16"	6020	72" x 24"	72" x 33 5/8"	72 3/4" x 34 1/8"
2050	24" x 60"	24" x 63 3/16"	24 3/4" x 63 11/16"	2880	32" x 96"	32" x 100 5/16"	32 3/4" x 100 13/16"	6030	72" x 36"	72" x 45 5/8"	72 3/4" x 46 1/8"
2056	24" x 66"	24" x 69 3/16"	24 3/4" x 69 11/16"	3010	36" x 12"	36" x 16 13/16"	36 3/4" x 17 5/16"	6036	72" x 42"	72" x 51 5/8"	72 3/4" x 52 1/8"
2060	24" x 72"	24" x 75 3/16"	24 3/4" x 75 11/16"	3016	36" x 18"	36" x 22 13/16"	36 3/4" x 23 5/16"	6040	72" x 48"	72" x 57 5/8"	72 3/4" x 58 1/8"
2070	24" x 84"	24" x 87 3/16"	24 3/4" x 87 11/16"	3020	36" x 24"	36" x 28 13/16"	36 3/4" x 29 5/16"	6046	72" x 54"	72" x 63 5/8"	72 3/4" x 64 1/8"
2080	24" x 96'	24" x 99 3/16"	24 3/4" x 99 11/16"	3030	36" x 36"	36" x 40 13/16"	36 3/4" x 41 5/16"	6050	72" x 60"	72" x 69 5/8"	72 3/4" x 70 1/8"
2410	28" x 12"	28" x 15 3/4"	28 3/4" x 16 1/4"	3036	36" x 42"	36" x 46 13/16"	36 3/4" x 47 5/16"	6056	72" x 66"	72" x 75 5/8"	72 3/4" x 76 1/8"
2416	28" x 18"	28" x 21 3/4"	28 3/4" x 22 1/4"	3040	36" x 48"	36" x 52 13/16"	36 3/4" x 53 5/16"	6060	72" x 72"	72" x 81 5/8"	72 3/4" x 82 1/8"
2420	28" x 24"	28" x 27 3/4"	28 3/4" x 28 1/4"	3046	36" x 54"	36" x 58 13/16"	36 3/4" x 59 5/16"	6070	72" x 84"	72" x 93 5/8"	72 3/4" x 94 1/8"
2430	28" x 36"	28" x 39 3/4"	28 3/4" x 40 1/4"	3050	36" x 60"	36" x 64 13/16"	36 3/4" x 65 5/16"	6080	72" x 96"	72" x 105 5/8"	72 3/4" x 106 1/8"
2436	28" x 42"	28" x 45 3/4"	28 3/4" x 46 1/4"	3056	36" x 66"	36" x 70 13/16"	36 3/4" x 71 5/16"	7010	84" x 12"	84" x 23 1/4"	84 3/4" x 23 3/4"
2440	28" x 48"	28" x 51 3/4"	28 3/4" x 52 1/4"	3060	36" x 72"	36" x 76 13/16"	36 3/4" x 77 5/16"	7016	84" x 18"	84" x 29 1/4"	84 3/4" x 29 3/4"
2446	28" x 54"	28" x 57 3/4"	28 3/4" x 58 1/4"	3070	36" x 84"	36" x 88 13/16"	36 3/4" x 89 5/16"	7020	84" x 24"	84" x 35 1/4"	84 3/4" x 35 3/4"
2450	28" x 60"	28" x 63 3/4"	28 3/4" x 63 1/4"	3080	36" x 96"	36" x 100 13/16"	36 3/4" x 101 5/16"	7030	84" x 36"	84" x 47 1/4"	84 3/4" x 47 3/4"
2456	28" x 66"	28" x 69 3/4"	28 3/4" x 70 1/4"	4010	48" x 12"	48" x 18 7/16"	48 3/4" x 18 15/16"	7036	84" x 42"	84" x 53 1/4"	84 3/4" x 53 3/4"
2460	28" x 72"	28" x 75 3/4"	28 3/4" x 76 1/4"	4016	48" x 18"	48" x 24 7/16"	48 3/4" x 24 15/16"	7040	84" x 48"	84" x 59 1/4"	84 3/4" x 59 3/4"
2470	28" x 84"	28" x 87 3/4"	28 3/4" x 76 1/4"	4020	48" x 24"	48" x 30 7/16"	48 3/4" x 30 15/16"	7046	84" x 54"	84" x 65 1/4"	84 3/4" x 65 3/4"
2480	28" x 96"	28" x 99 3/4"	28 3/4" x 99 3/4"	4030	48" x 36"	48" x 42 7/16"	48 3/4" x 42 15/16"	7050	84" x 60"	84" x 71 1/4"	84 3/4" x 71 3/4"
2610	30" x 12"	30" x 16"	30 3/4" x 16 1/2"	4036	48" x 42"	48" x 48 7/16"	48 3/4" x 48 15/16"	7060	84" x 72"	84" x 83 1/4"	84 3/4 x 83 3/4'
2616	30" x 18"	30" x 22"	30 3/4" x 22 1/2"	4040	48" x 48"	48" x 54 7/16"	48 3/4" x 54 15/16"	7070	84" x 84"	84" x 95 1/4"	84 3/4" x 95 3/4"
2620	30" x 24"	30" x 28"	30 3/4" x 28 1/2"	4046	48" x 54"	48" x 60 7/16"	48 3/4" x 60 15/16"	8010	96" x 12"	96" x 24 7/8"	96 3/4" x 25 3/8"
2630	30" x 36"	30" x 40"	30 3/4" x 40 1/2"	4050	48" x 60"	48" x 66 7/16"	48 3/4" x 66 15/16"	8016	96" x 18"	96" x 30 7/8"	96 3/4" x 31 3/8"
2636	30" x 42"	30" x 46"	30 3/4" x 46 1/2"	4056	48" x 66"	48" x 72 7/16"	48 3/4" x 72 15/16"	8020	96" x 24"	96" x 36 7/8"	96 3/4" x 31 3/8"
2640	30" x 48"	30" x 52"	30 3/4" x 52 1/2"	4060	48" x 72"	48" x 78 7/16"	48 3/4" x 78 15/16"	8030	96" x 36"	96" x 48 7/8"	96 3/4" x 49 3/8"
2646	30" x 54"	30" x 58"	30 3/4" x 58 1/2"	4070	48" x 84"	48" x 90 7/16"	48 3/4" x 90 15/16"	8036	96" x 42"	96" x 54 7/8"	96 3/4" x 55 3/8"
2650	30" x 60"	30" x 64"	30 3/4" x 64 1/2"	4080	48" x 96"	48" x 102 7/16"	48 3/4" x 102 15/16"	8040	96" x 48"	96" x 60 7/8"	96 3/4" x 61 3/8"
2656	30" x 66"	30" x 70"	30 3/4" x 70 1/2"	5010	60" x 12"	60" x 20 1/16"	60 3/4" x 20 9/16"	8050	96" x 60"	96" x 72 7/8"	96 3/4" x 73 3/8"
2660	30" x 72"	30" x 76"	30 3/4" x 76 1/2"	5016	60" x 18"	60" x 26 1/16"	60 3/4" x 26 9/16"	9010	108" x 12"	108" x 26 1/2"	108 3/4" x 27"
2670	30" x 84"	30" x 88"	30 3/4" x 88 1/2"	5020	60" x 24"	60" x 32 1/16"	60 3/4" x 32 9/16"	9016	108" x 18"	108" x 32 1/2"	108 3/4" x 33"
2680	30" x 96"	30" x 100"	30 3/4" x 100 1/2"	5030	60" x 36"	60" x 44 1/16"	60 3/4" x 44 9/16"	9020	108" x 24"	108" x 38 1/2"	108 3/4" x 39"
2810	32" x 12"	32" x 16 5/16"	32 3/4" x 16 13/16"	5036	60" x 42"	60" x 50 1/16"	60 3/4" x 50 9/16"	9030	108" x 36"	108" x 50 1/2"	108 3/4" x 51"
2816	32" x 18"	32" x 22 5/16"	32 3/4" x 22 13/16"	5040	60" x 48"	60" x 56 1/16"	60 3/4" x 56 9/16"	9036	108" x 42"	108" x 56 1/2"	108 3/4" x 57"
2820	32" x 24"	32" x 28 5/16"	32 3/4" x 28 13/16"	5046	60" x 54"	60" x 62 1/16"	60 3/4" x 62 9/16"	9040	108" x 48"	108" x 62 1/2"	108 3/4" x 63"
2830	32" x 36"	32" x 40 5/16"	32 3/4" x 40 13/16"	5050	60" x 60"	60" x 68 1/16"	60 3/4" x 68 9/16"				

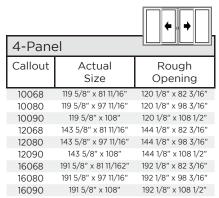


Sliding Patio Doors



Sidelite for 2-Panel Sliding Door						
Callout	Actual Size	Rough Opening				
2668	30 1/2" x 81 11/16"	31 1/4" x 82 3/16"				
2680	30 1/2" x 97 11/16"	31 1/4" x 98 3/16"				
2690	30 1/2" x 109 11/16"	31 1/4" x 110 3/16"				
26100	30 1/2" x 120"	31 1/4" x 120 1/2"				
3068	36 1/2" x 81 11/16"	37 1/4" x 82 3/16"				
3080	36 1/2" x 97 11/16"	37 1/4" x 98 3/16"				
3090	36 1/2" x 109 11/16"	37 1/4" x 110 3/16"				
30100	36 1/2" x 120"	37 1/4" x 120 1/2"				
4068	48 1/2" x 81 11/16"	49 1/4" x 82 3/16"				
4080	48 1/2" x 97 11/16"	49 1/4" x 98 3/16"				
4090	48 1/2" x 109 11/16"	49 1/4" x 110 3/16"				
40100	48 1/2" x 120"	49 1/4" x 120 1/2"				





Sidelite for 3- & 4-Panel Sliding Door							
Callout	Actual Size	Rough Opening					
2668	30 1/2" x 81 11/16"	31 1/4" x 82 3/16"					
2680	30 1/2" x 97 11/16"	31 1/4" x 98 3/16"					
2690	30 1/2" x 108"	31 1/4" x 108 1/2"					
3068	36 1/2" x 81 11/16"	37 1/4" x 82 3/16"					
3080	36 1/2" x 97 11/16"	37 1/4" x 98 3/16"					
3090	36 1/2" x 108"	37 1/4" x 108 1/2"					
4068	48 1/2" x 81 11/16"	49 1/4" x 82 3/16"					
4080	48 1/2" x 97 11/16"	49 1/4" x 98 3/16"					
4090	48 1/2" x 108"	49 1/4" x 108 1/2"					

Transo	m	
Callout	Actual	Rough
Canout	Size	Opening
5010	59 7/16" x 12"	60 3/16" x 12 1/2"
5012	59 7/16" x 14"	60 3/16" x 14 1/2"
5014	59 7/16" x 16"	60 3/16" x 16 1/2"
5016	59 7/16" x 18"	60 3/16" x 18 1/2"
5020	59 7/16" x 24"	60 3/16" x 24 1/2"
5026	59 7/16" x 30"	60 3/16" x 30 1/2"
5028	59 7/16" x 32"	60 3/16" x 32 1/2"
5030	59 7/16" x 36"	60 3/16" x 36 1/2"
5034	59 7/16" x 40"	60 3/16" x 40 1/2"
5036	59 7/16" x 42"	60 3/16" x 42 1/2"
5040	59 7/16" x 48"	60 3/16" x 48 1/2"
6010 6012	71 7/16" x 12" 71 7/16" x 14"	72 3/16" x 12 1/2" 72 3/16" x 14 1/2"
6012	71 7/16" x 14"	72 3/16" x 14 1/2"
6016	71 7/16" x 18"	72 3/16" x 18 1/2"
6020	71 7/16" x 24"	72 3/16" x 24 1/2"
6026	71 7/16" × 30"	72 3/16" x 30 1/2"
6028	71 7/16" x 32"	72 3/16" x 32 1/2"
6030	71 7/16" x 36"	72 3/16" x 36 1/2"
6034	71 7/16" x 40"	72 3/16" x 40 1/2"
6036	71 7/16" x 42"	72 3/16" x 42 1/2"
6040	71 7/16" x 48"	72 3/16" x 48 1/2"
7610	89 7/16" x 12"	90 3/16" x 12 1/2"
7612	89 7/16" x 14"	90 3/16" x 14 1/2"
7614	89 7/16" x 16"	90 3/16" x 16 1/2"
7616	89 7/16" x 18"	90 3/16" x 18 1/2"
7620	89 7/16" x 24" 89 7/16" x 30"	90 3/16" x 24 1/2"
7626 7628	89 7/16 × 30 89 7/16" × 32"	90 3/16" x 30 1/2" 90 3/16" x 32 1/2"
7630	89 7/16" x 36"	90 3/16" x 36 1/2"
7634	89 7/16" x 40"	90 3/16" x 40 1/2"
7636	89 7/16" x 42"	90 3/16" x 42 1/2"
7640	89 7/16" x 48"	90 3/16" x 48 1/2"
8010	95 7/16" x 12"	96 3/16" x 12 1/2"
8012	95 7/16" x 14"	96 3/16" x 14 1/2"
8014	95 7/16" x 16"	96 3/16" x 16 1/2"
8016	95 7/16" x 18"	96 3/16" x 18 1/2"
8020	95 7/16" x 24"	96 3/16" x 24 1/2"
8026	95 7/16" x 30"	96 3/16" x 30 1/2"
8028	95 7/16" x 32"	96 3/16" x 32 1/2"
8030	95 7/16" x 36"	96 3/16" x 36 1/2"
8034	95 7/16" x 40" 95 7/16" x 42"	96 3/16" x 40 1/2" 96 3/16" x 42 1/2"
8036 8040	95 7/16 × 42 95 7/16" × 48"	96 3/16" x 42 1/2" 96 3/16" x 48 1/2"
9010	107 7/16" x 12"	108 3/16" x 12 1/2"
9012	107 7/16" x 12"	108 3/16" x 14 1/2"
9014	107 7/16" x 16"	108 3/16" x 16 1/2"
9016	107 7/16" x 18"	108 3/16" x 18 1/2"
9020	107 7/16" x 24"	108 3/16" x 24 1/2"
9026	107 7/16" x 30"	108 3/16" x 30 1/2"
9028	107 7/16" x 32"	108 3/16" x 32 1/2"
9030	107 7/16" x 36"	108 3/16" x 36 1/2"
9034	107 7/16" x 40"	108 3/16" x 40 1/2"
9036	107 7/16" x 42" 107 7/16" x 48"	108 3/16" x 42 1/2"
9040	107 //16" x 48" 119 5/8" x 12"	108 3/16" x 48 1/2" 120 3/8" x 12 1/2"
10010	119 5/8" x 12 119 5/8" x 14"	120 3/8" x 12 1/2"
10012	119 5/8" x 14"	120 3/8" x 16 1/2"
10014	119 5/8" x 18"	120 3/8" x 18 1/2"
10010	119 5/8" x 24"	120 3/8" x 24 1/2"
10026	119 5/8" x 30"	120 3/8" x 30 1/2"
10028	119 5/8" x 32"	120 3/8" x 32 1/2"
10030	119 5/8" x 36"	120 3/8" x 36 1/2"
10034	119 5/8" x 40"	120 3/8" x 40 1/2"
10036	119 5/8" x 42"	120 3/8" x 42 1/2"
10040	119 5/8" x 48"	120 3/8" x 48 1/2"



Inswing & Outswing Patio Doors

2-Panel								
Callout	Actual Size	Rough Opening						
5068	59 1/8" x 79 1/2"	59 7/8" x 80"						
50610	59 1/8" x 82 3/8"	59 7/8" x 82 7/8"						
5080	59 1/8" x 95 3/8"	59 7/8" x 95 7/8"						
5090	59 1/8" x 107 3/8"	59 7/8" x 107 7/8"						
5468	63 1/8" x 79 1/2"	63 7/8" x 80"						
54610	63 1/8" x 82 3/8"	63 7/8" x 82 7/8"						
5480	63 1/8" x 95 3/8"	63 7/8" x 95 7/8"						
5490	63 1/8" x 107 3/8"	63 7/8" x 107 7/8"						
6068	71 1/8" x 79 1/2"	71 7/8" x 80"						
60610	71 1/8" x 82 3/8"	71 7/8" x 82 7/8"						
6080	71 1/8" x 95 3/8"	71 7/8" x 95 7/8"						
6090	71 1/8" x 107 3/8"	71 7/8" x 107 7/8"						
6468	76 3/8" x 79 1/2"	77 1/8" x 80"						
64610	76 3/8" x 82 3/8"	77 1/8" x 82 7/8"						
6480	76 3/8" x 95 3/8"	77 1/8" x 95 7/8"						
6490	76 3/8" x 107 3/8"	77 1/8" x 107 3/8"						

Additional sizes with ADA sills may
be available on some inswing and
outswing doors

1-Panel							
Callout	Actual Size	Rough Opening					
2668	30 1/4" x 79 1/2"	31" x 80"					
26610	30 1/4" x 82 3/8"	31" x 82 7/8"					
2680	30 1/4" x 95 3/8"	31" x 95 7/8"					
2690*	30 1/4" x 107 3/8"	31" x 107 7/8"					
2868	32 1/4" x 79 1/2"	33" x 80"					
28610	32 1/4" x 82 3/8"	33" x 82 7/8"					
2880	32 1/4" x 95 3/8"	33" x 95 7/8"					
2890*	32 1/4" x 107 3/8"	33" x 107 7/8"					
3068	36 1/4" x 79 1/2"	37" x 80"					
30610	36 1/4" x 82 3/8"	37" x 82 7/8"					
3080	36 1/4" x 95 3/8"	37" x 95 7/8"					
3090*	36 1/4" x 107 3/8"	37" x 107 7/8"					
3268	38 7/8" x 79 1/2"	39 5/8" x 80"					
32610	38 7/8" x 82 3/8"	39 5/8" x 82 7/8"					
3280	38 7/8" x 95 3/8"	39 5/8" x 95 7/8"					
3290*	38 7/8" x 107 3/8"	39 5/8" x 107 7/8"					

^{* =} Contains 32" Clear Opening

Sidelite								
Callout	Actual Size	Rough Opening						
2668	30 1/4" x 79 1/2"	31" x 80"						
26610	30 1/4" x 82 3/8"	31" x 82 7/8"						
2680	30 1/4" x 95 3/8"	31" x 95 7/8"						
2690	30 1/4" x 107 3/8"	31" x 107 7/8"						
2868	32 1/4" x 79 1/2"	33" x 80"						
28610	32 1/4" x 82 3/8"	33" x 82 7/8"						
2880	32 1/4" x 95 3/8"	33" x 95 7/8"						
2890	32 1/4" x 107 3/8"	33" x 107 7/8"						
3068	36 1/4" x 79 1/2"	37" x 80"						
30610	36 1/4" x 82 3/8"	37" x 82 7/8"						
3080	36 1/4" x 95 3/8"	37" x 95 7/8"						
3090	36 1/4" x 107 3/8"	37" x 107 7/8"						
3268	38 7/8" x 79 1/2"	39 5/8" x 80"						
32610	38 7/8" x 82 3/8"	39 5/8" x 82 7/8"						
3280	38 7/8" x 95 3/8"	39 5/8" x 95 7/8"						
3290	38 7/8" x 107 3/8"	39 5/8" x 107 7/8"						

Transo	m										
Callout	Actual Size	Rough Opening	Callout	Actual Size	Rough Opening	Callout	Actual Size	Rough Opening	Callout	Actual Size	Rough Opening
2612	30 1/4" x 14"	31" x 14 1/2"	3012	36 1/4" x 14"	37" x 14 1/2"	5012	59 1/8" x 14"	59 7/8" x 14 1/2"	6012	71 1/8" x 14"	71 7/8" x 14 1/2"
2614	30 1/4" x 16"	31" x 16 1/2"	3014	36 1/4" x 16"	37" x 16 1/2"	5014	59 1/8" x 16"	59 7/8" x 16 1/2"	6014	71 1/8" x 16"	71 7/8" x 16 1/2"
2616	30 1/4" x 18"	31" x 18 1/2"	3016	36 1/4" x 18"	37" x 18 1/2"	5016	59 1/8" x 18"	59 7/8" x 18 1/2"	6016	71 1/8" x 18"	71 7/8" x 18 1/2"
2620	30 1/4" x 24"	31" x 24 1/2"	3020	36 1/4" x 24"	37" x 24 1/2"	5020	59 1/8" x 24"	59 7/8" x 24 1/2"	6020	71 1/8" x 24"	71 7/8" x 24 1/2"
2626	30 1/4" x 30"	31" x 30 1/2"	3026	36 1/4" x 30"	37" x 30 1/2"	5026	59 1/8" x 30"	59 7/8" x 30 1/2"	6026	71 1/8" x 30"	71 7/8" x 30 1/2"
2812	32 1/4" x 14"	33" x 14 1/2"	3212	38 7/8" x 14"	39 5/8" x 14 1/2"	5412	63 1/8" x 14"	63 7/8" x 14 1/2"	6412	77 1/8" x 14"	77 7/8" x 14 1/2"
2814	32 1/4" x 16"	33" x 16 1/2"	3214	38 7/8" x 16"	39 5/8" x 16 1/2"	5414	63 1/8" x 16"	63 7/8" x 16 1/2"	6414	77 1/8" x 16"	77 7/8" x 16 1/2"
2816	32 1/4" x 18"	33" x 18 1/2"	3216	38 7/8" x 18"	39 5/8" x 18 1/2"	5416	63 1/8" x 18"	63 7/8" x 18 1/2"	6416	77 1/8" x 18"	77 7/8" x 18 1/2"
2820	32 1/4" x 24"	33" x 24 1/2"	3220	38 7/8" x 24"	39 5/8" x 24 1/2"	5420	63 1/8" x 24"	63 7/8" x 24 1/2"	6420	77 1/8" x 24"	77 7/8" x 24 1/2"
2826	32 1/4" x 30"	33" x 30 1/2"	3226	38 7/8" x 30"	39 5/8" x 30 1/2"	5426	63 1/8" x 30"	63 7/8" x 30 1/2"	6426	77 1/8" x 30"	77 7/8" x 30 1/2"

Size Limitations	Additional parameters concerning sizes, glass limitations, united inch limitations, radius minimums and hardware restrictions may apply. Quaker Window Products reserves the right to change above information without notice.							
Product	Minimum Width	Minimum Height	Maximum Width	Maximum Height	Maximum United Inch			
Casement (Crank Out)	24"	18"	48" (36"/4-bar hdwe.)	96"	132"			
Casement (Push Out)	14"	18"	36"	72"	*			
Awning (Crank Out)	22 5/8"	22"	72"	84"	120"			
Awning (Push Out)	14"	14"	72"	48"	*			
Picture Window (Direct Set)	12"	10"	120"	120"	205"			
Arch Head Picture Window (Direct Set)	10"	12" (short height)	120"	120" (overall height)	192"			
Circle (Direct Set)	30"	30"	72"	72"	*			
Oval (Direct Set)	24"	24"	72"	72"	*			
Elliptical (Direct Set)	36"	18"	120"	59"	*			
Octagon (Direct Set)	18"	18"	96"	96"	*			
Extended Octagon (Direct Set)	18"	18"	84"	84"	*			
Quarter Round (Direct Set)	9"	9"	74"	74"	*			
Half Round (Direct Set)	18"	9"	108"	54"	*			
Hinged Patio Door (1-Panel)	24"	72"	48"	120"	*			
Hinged Patio Door (2-Panel)	48"	72"	84"	120"	*			
Sliding Patio Door (2-Panel)	48"	48"	120"	120"	*			
Sliding Patio Door (3-Panel)	76 3/8"	48"	180"	120"	*			
Sliding Patio Door (4-Panel)	100 1/16"	48"	240"	120"	*			
Patio Door Sidelite	22"	24"	96"	120"	*			
Patio Door Transom (Direct Set)	16"	12"	120"	98"	*			





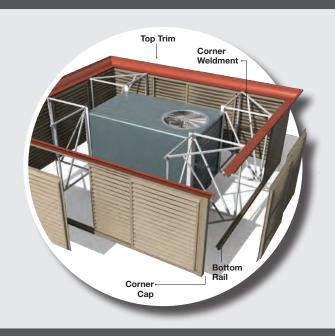




Innovative Rooftop Screens

Attractive, code-compliant and long lasting, Envisor equipment screens offer affordable, elegant, customized screening solutions that blend into the overall design, all with no rooftop penetration. Our patented roof screen system provides practical solutions for municipal screening requirements of HVAC units, chillers, air handlers, power exhausts, roof stacks and communication equipment. You name it, we can screen it!

- Zero Rooftop Penetration
- ABS or Metal
- Sliding Panels for Easy Service Access





THE LEADING ROOF SCREEN CHOICE OF ARCHITECTS, BUILDING OWNERS AND CONTRACTORS FOR MORE THAN 20 YEARS.







DESIGN OPTIONS

Envisor screens are the perfect alternative to parapet walls and they satisfy even the strictest screening code requirements. Both styles feature our patented attachment method, which secures our screens directly to the equipment with no rooftop penetration. Post mounted option is also available. Screen heights are available to shield virtually anything you desire.



PANEL STYLES

Panels are available in ten standard styles, allowing you to match or coordinate with the building design. The panels are constructed of thermoformed, high-impact ABS with a co-extruded UV protective layer on both sides or choose one of our metal series options in a variety of thicknesses and finishes. The panels are held firmly in place using a rust-free, double tracked aluminum rail system. This enables the panels to slide side-to-side for easy access to the unit during servicing and maintenance.

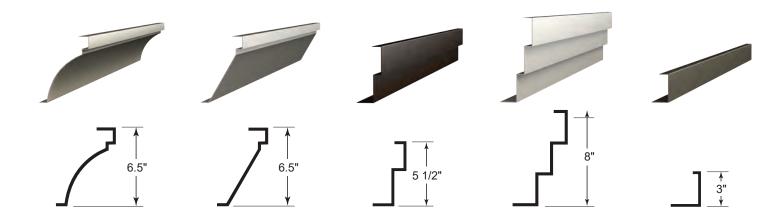
PAN



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TOP TRIM STYLES

OPTIONAL — Decorative top trim options offer the flexibility to further customize the elegant appearance of the screens by picking up building design elements and incorporating those details into the screen. Although optional, they offer one more way to make screens part of the design, not part of the problem. *Prices vary by style*.



COLORS

Our designer colors complement most architectural applications, but don't let standard colors limit your creativity. We have the ability to match any cross-referenced color specifications. Send us samples to match. We've even matched a color to a rock! Colors are approximations. Please call for actual samples.

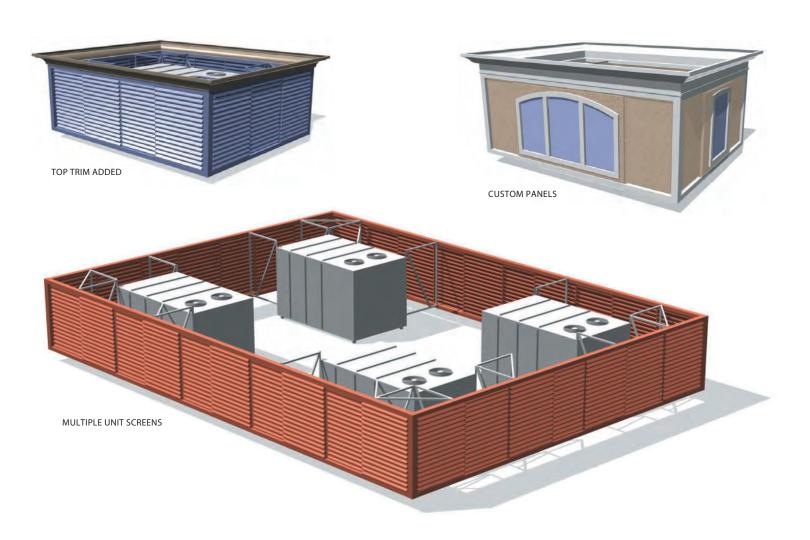


Need a custom color? Provide a Sherwin Williams or PMS code and we can color match.



CUSTOM SOLUTIONS

Envisor equipment screens can be manufactured in a limitless combination of shapes and configurations to help reduce cost, add to the aesthetics of a building or both. Let us design one for you! Just tell us the equipment manufacturer, the model numbers and any special requirements you might have. *Additional costs may apply.



Call **(877) 727-3367** today or visit our website at **cityscapesinc.com**.











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We get it. You're busy. We want you to be able to focus on the parts of your project that matter most to you. That's why we provide each customer with a project manager — a single point of contact. Tell us what you need and we'll coordinate everything from design and engineering to manufacturing and installation so you can spend your time on more important things.



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RESIDENTIAL "B"

Preliminary Development Plan August 7, 2025

























1 Arriscraft Cast stone Renaissance-Suede or Similar color

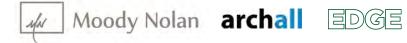
2. Glen Gery Light Buff Matt or Similar Color

3 Glen Gery Canyon Blend or Similar color

4 Equitone Natura Pro fiber cement or Similar product

5 Millennium Tile Cupped Tile Bronze Gold Mill Finish

6 Centria Formawall Dark Bronze





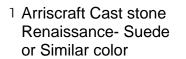






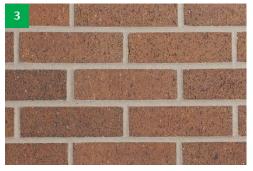








Glen Gery Light Buff Matt or Similar Color



3 Glen Gery Canyon Blend or Similar color



4 Equitone Natura Pro fiber cement or Similar product



5 Millennium Tile Cupped Tile Bronze Gold Mill Finish



6 Centria Formawall Dark Bronze





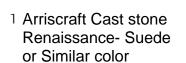






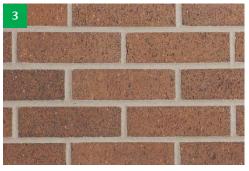








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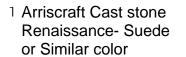














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6 Centria Formawall Dark Bronze or Similar Product



























Arriscraft Full Bed Products Guide Fort Valley, Georgia Plant



Georgia Citadel®















Realistic Profiles

Unlike most manufactured stone, Arriscraft products feature authentic profiles, whether it be the robust Matterhorn, or the tumbled elegance of Citadel[®].



Cumberland













The Arriscraft Advantage

Our unique Natural Process™ technology yields cement-free stone, boasting the aesthetic, durability and strength benefits of quarried stone with simpler, more cost effective installation.

Matterhorn









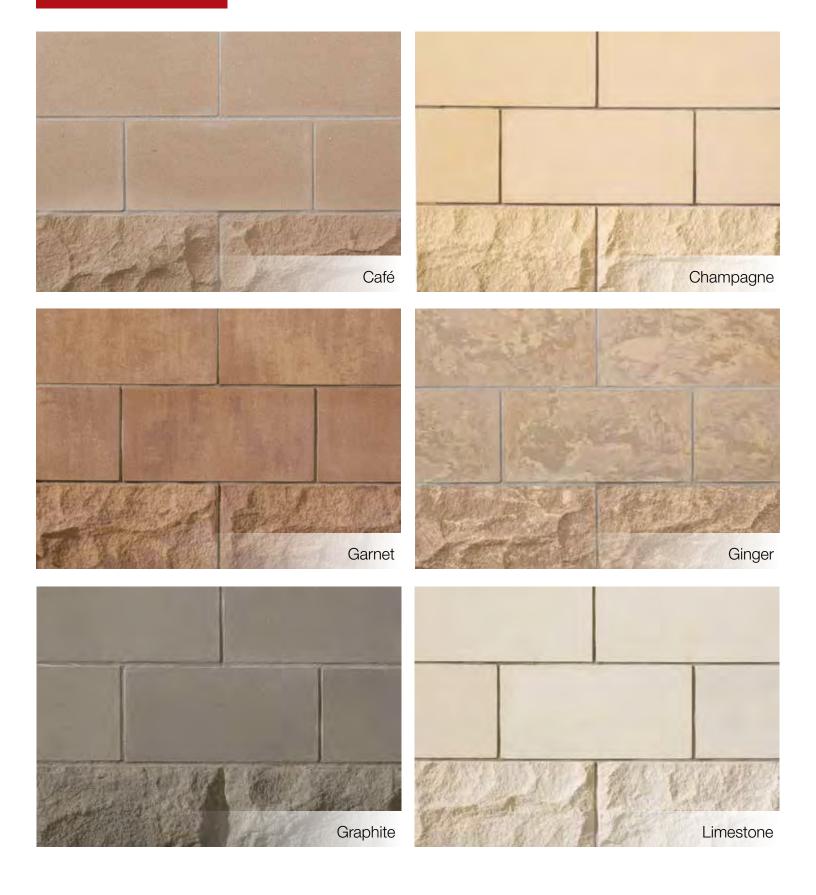


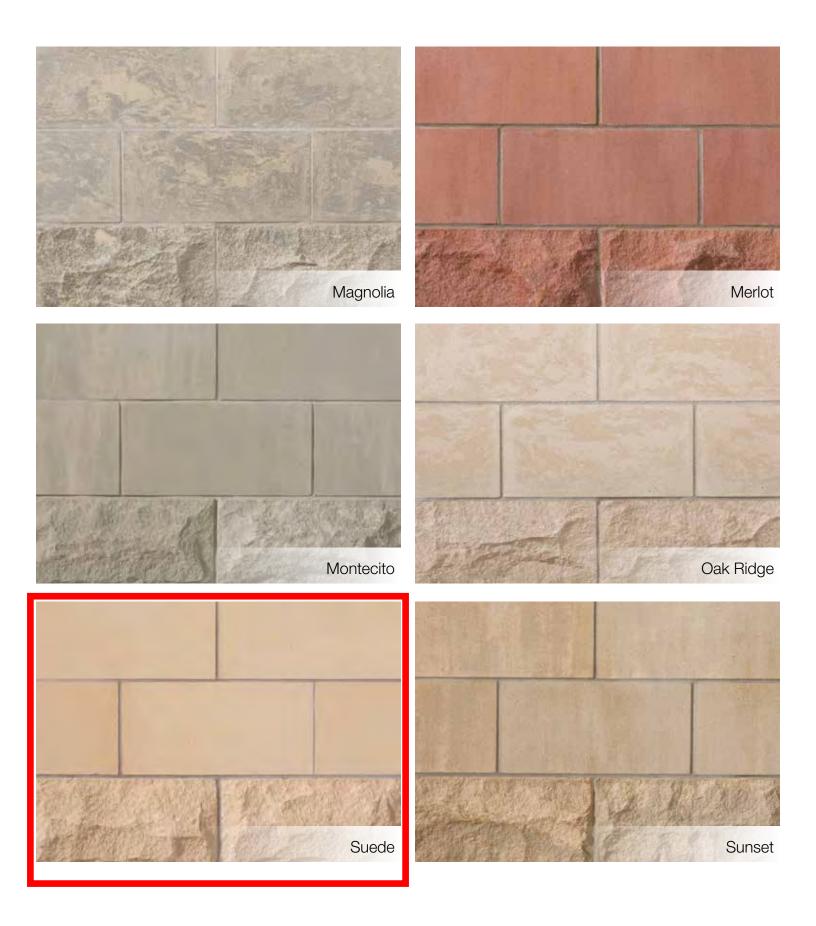


Old Country

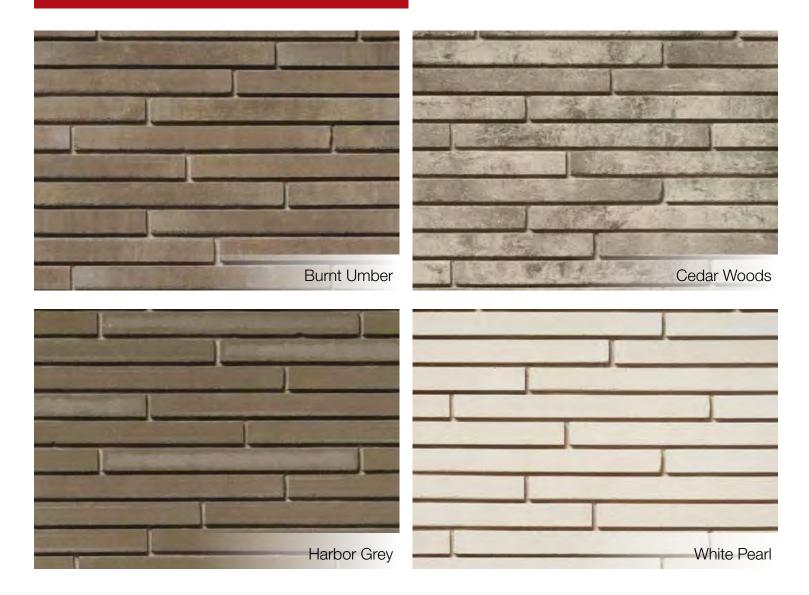


Renaissance®





Architectural Linear Series Brick



Our Architectural Linear Series Brick delivers a rugged, yet modern look in an elongated format.

As with our stone products, our brick is manufactured using the patented Natural Process $^{\text{TM}}$ technology, resulting in superb durability and aesthetics.







Arriscraft products are unique in the world, delivering the most authentic, most durable and most unique stone productsa. Our Natural ProcessTM technology combines natural materials (sand and lime), plus color pigments, to create products with the aesthetics and durability of quarried stone.

Explore our vast style selection in a broad array of natural colors, profiles and finishes. You can even combine color palettes and order unique colors through our customization options. Whatever your vision, we know you'll discover that it's possible with Arriscraft.





Central Georgia Technical College Health Sciences Building | Azar/Walsh Architects | Citadel® Cobble Hill

Arriscraft offers a truly comprehensive line of stone styles.

From impressive, old-world charm to cutting-edge contemporary, we have the style to bring every design to life. With an extensive and unique color palette, the possibilities are unlimited.

IMPORTANT NOTES

Colors and textures have been reproduced as closely as the printing process allows. Final selection should be made from actual samples.

Arriscraft stone products must be installed using industry recommended materials and techniques and conform to all related building requirements. All masonry products are intended for above-grade installations. Proper care, installation and cleaning are required for warranty validation. Please refer to the DATA sheets and CARE sheets that can be found at www.arriscraft.com



Arriscraft is the stone products group of General Shale, the North American subsidiary of Wienerberger AG and a leading manufacturer of brick, one of the world's oldest green building materials.





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Light Buff Matt

Unveil the artistry of Glen-Gery Pittsburgh Plant bricks. With both full and thin brick manufacturing, their palette of traditional colors meets contemporary demands, all without compromising on value.

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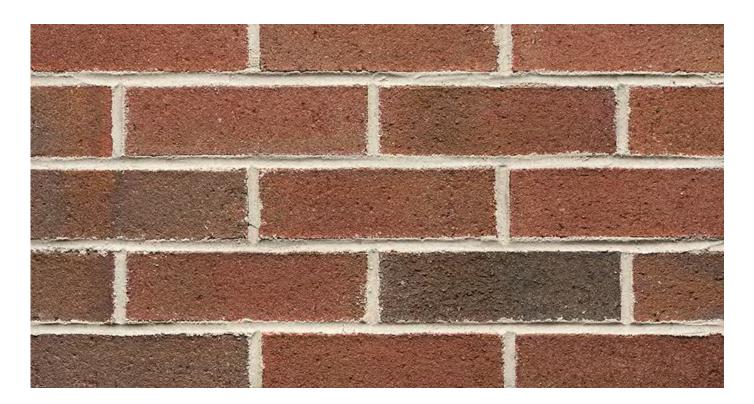
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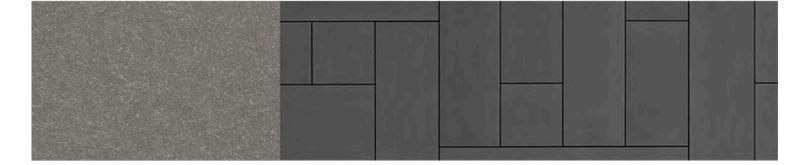
Quantity of brick

Full Calculator

Calculation is based on the Modular size brick, view full calculator to select a different size. View available sizes below for the product shown here.

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EQUITONE [natura] PRO Material Information Sheet

1. Product Appearance

EQUITONE [natura]PRO is a high-densityfiber cement panel with a through-colored core and a colored semi-transparent double-layer acrylic finish which results in the structure (fibers) of the material shining through.

The surface finish is matt with a UV-hardened PU topcoat (front side), providing a hard, dirt-resistant surface finish with high abrasion resistance and permanent and durable graffiti protection.

Irregularities, differences in shade, and traces of the manufacturing process are part of the natural characteristics of the material. The rear receives a transparent back-sealing coating.

2. Color

EQUITONE [natura] PRO is available in a wide range of standard and special colors, manufactured based on various through-colored core/baseboards as shown on the color chart below.

Color variations are part of the natural characteristics of the material. The allowable tolerance of shade between the EQUITONE [natura] PRO materials is minimal and is measured according to the CIELAB color model. The allowable dry mean averages of three readings are ΔL (brightness) of ± 2.0 , Δa (+red/-green) of ± 1.0 , and Δb (+yellow/-blue) of ± 1.0 compared to the production benchmark sample and measured with the same device.

Available colors



Note: It is not possible to realistically show available colors in literature, therefore the final choice of colors should be made with samples. Please order your samples on the website www.equitone.com.



3. Product Composition

EQUITONE[natura]PRO panels consistofcement, water, mineral fillers, cellulose fibers, synthetic reinforcing fibers, inorganic color pigments (depending on the color), an acrylic coating, and a UV-cured functional top layer.

4. Production Method

EQUITONE [natura]PROisahighlycompressed, air-cured fiber cement material manufactured in Germany (Europe).



EQUITONE [natura] PRO panels are manufactured through the Hatschek process where the base materials which are mainly cement, fibers, cellulose, pigments, and water are first mixed together to form a slurry. This slurry is then pumped into several vats with rotating cylindrical sieves on the surface of which a film of fiber cement is formed through a sieving mechanism as they rotate, which is then transferred to a felt belt traveling overhead. This thin layer of fiber cement is then dewatered before being transferred via the felt belt to a forming drum on which several layers of fiber cement are collected and squeezed together until the required thickness is achieved. Once this occurs, this fresh sheet of fiber cement is cut by an automatic cutting knife. A conveyor then transports the sheet to where all the sheets are stacked with an interleaving steel plate. The stacked sheets are then highly compressed, resulting in a high-density material.

This is followed by a curing process where the panels harden under ambient temperature and without vapor pressure.

Subsequently EQUITONE [natura] PRO receives an industrially applied multiple-layer coating on the front face, and a physically equivalent sealing coating on the rear face. Finally, a UV-hardened PU topcoat is applied to the front side.

In case of factory-trimmed panels the edges are trimmed and additionally sealed with Luko edge sealer.

5. Dimensions and Tolerances (Imperial)

EQUITONE [natura] PRO isavailable in a standard thickness of 5/16" and in 15/32" thicknesses for specific applications or fixings. The panels are available in either untrimmed (production dimension) or trimmed (maximum usable size) formats.



The panel must not be installed with untrimmed edges. Approximately 19/32" needs to be trimmed from each of the untrimmed (raw) edges. Cut edges need to be sealed with Luko edge sealer.

Dimensions		
Thickness	5/16 in	15/32 in
Width		

Width	
Trimmed	49 in
Untrimmed	50 in

Length	
Trimmed	98 in or 122 in
Untrimmed	99 1/2 in or 123 in

Tolerances1 (for cut and trimmed panels)		
Thickness	± 0.0236 in	± 0.0354 in
Width	± 0.03	394 in
Length	± 0.03	394 in
Squareness	± 0.039	94 in/ft

Tolerances1 (for untrimmed panels)		
Thickness	± 0.0236 in	± 0.0354 in
Width	± 1/	4 in
Length	± 5/2	L6 in
Squareness	± 0.039	94 in/ft

Weight per m² (air dry)		
	3.15lb/ft²	4.67lb/ft²

Weight per panel (without pallet)		
98 x 49 in (trimmed)	106lb	157lb
122 x 49 in (trimmed)	132lb	195lb
99 1/2 x 50 in (untrimmed)	110lb	163lb
123 x 50 in (untrimmed)	136lb	202lb

Packaging		
Number of panels on a pallet	30	20

Usable surface per pallet		
98 x 49 in (trimmed)	1010 ft ²	673 ft ²
122 x 49 in (trimmed)	1250 ft ²	834 ft²

Color tolerance (CIELAB) 2	
ΔL*, brightness	± 2.0
Δa*, + red/ - green	± 1.0
Δb^* , + yellow/ - blue	± 1.0

¹ Factory tolerances for trimmed and untrimmed panels outperform the requirements of the EN 12467 Level I and II dimensional tolerances, respectively; as well as all criteria set forth on ASTM C1185.

² Color tolerance are only to be measured on dry surfaces.

³ Imperial values are approximate and are based on the metric values.

5.1 Dimensions and Tolerances (Metric)

EQUITONE [natura] PRO isavailable in a standard thickness of8mmand in 12 mm thicknesses for specific applications or fixings. The panels are available in either untrimmed (production dimension) or trimmed (maximum usable size) formats.



The panel must not be installed with untrimmed edges. Approximately 15 mm needs to be trimmed from each of the untrimmed (raw) edges. Cut edges need to be sealed with Luko edge sealer.

Dimensions		
Thickness	8 mm	12 mm

Width	
Trimmed	1250 mm
Untrimmed	1280 mm

Length	
Trimmed	2500 mm or 3100 mm
Untrimmed	2530 mm or 3130 mm

Tolerances1 (for cut and trimmed panels)			
Thickness	± 0.6 mm ± 0.9 mm		
Width	± 1 mm		
Length	± 1 mm		
Squareness	± 1.0 mm/m		

Tolerances1 (for untrimmed panels)			
Thickness	± 0.6 mm	± 0.9 mm	
Width	± 6 mm		
Length	± 8 mn	า	
Squareness	± 1.0 mm	n/m	

Weight per m² (air dry)		
	15.4kg/m²	22.8kg/m²

Weight per panel (without pallet)		
2500 x 1250 mm (trimmed) 3100	48.1kg	71.3kg
x 1250 mm (trimmed) 2530 x	59.7kg	88.4kg
1280 mm (untrimmed) 3130 x	49.9kg	73.8kg
1280 mm (untrimmed)	61.7kg	91.4kg

Packaging		
Number of panels on a pallet	30	20

Usable surface per pallet		
2500 x 1250 mm (trimmed)	93.75 m²	62.5 m ²
3100 x 1250 mm (trimmed)	116.25 m²	77.5 m²

Color tolerance (CIELAB) 2	
ΔL*, brightness	± 2.0
Δa*, + red/ - green	± 1.0
Δb*, + yellow/ - blue	± 1.0

¹Factory tolerances for trimmed panels outperform the requirements of the EN 12467 Level I dimensional tolerances.

 $^{^{2}}$ Color tolerance are only to be measured on dry surfaces.

6. Material Properties (ASTM)

Flexural strength classification		ASTM	Grade III	
Dimensional tolerances for trimmed panels		C1186	Pass	
		ASTM		
Physical requirements and characteristics		C1186		
Mean density	dry	ASTM C1185	111.8	lb/ft³
Moisture movement	30-90 %	ASTM C1185	≤0.1	%
Flexural strength ultimate1	dry	ASTM C1185	3,358	psi
Flexural strength ultimate1	wet	ASTM C1185	2,160	psi
Water tightness		ASTM C1186	Pass	
Moisture content		ASTM C1185	3.9	%

Durability requirements			
Frost resistance (freeze/thaw)	ASTM C1186	Pass	
Warm water resistance test	ASTM C1186	Pass	
Mean water absorption	ASTM C1185	14.5	%

Fire and safety			
Material burning characteristics	ASTM E84	Class A	
Flame spread index		0	
Smoke development index		0	
Assembly fire resistance rating	ASTM E119	1	hr.
Hose stream test	ASTM E119	Pass	
Vertical tube furnace (B)	ASTM E136	Pass, Non-	-combustible

Other characteristics				
Thermal movement	α	-	5.5e-6	in/in°F
Thermal conductivity	λ	ASTM C518	0.236	BTU/h ft°F

Notes:

- 1. Appropriate safety factors should be applied to ultimate values.
- 2. EQUITONE [natura] PRO cladding panels strength classification conforms to the requirements of ASTM C1186 "Standard Specifications for Flat Fiber-Cement Panels."
- 3. EQUITONE [natura] PRO cladding panels have been evaluated per ICC acceptance criteria AC90 to meet the minimum requirements of the International Building Code (IBC).
- 4. Results are in accordance with the procedures defined in ASTM C1185 "Standard Test Methods for Sampling and Testing Non-Asbestos Fiber-Cement Flat Sheet, Roofing and Siding Shingles, and Clapboards."

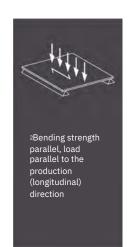
6.1 Material Properties (EN)

EQUITONE [natura]PROcladdingpanels conformtothe requirements of EN 12467:2012+A1:2018 "Fiber cement flat sheets – Product specification and test methods." The results below are presented as defined by the standard.



Classification		
Type of product	EN 12467	NT
Durability classification	EN 12467	Category A
Strength classification	EN 12467	Class 4
Dimensional tolerances for trimmed panels	EN 12467	Level I
Dimensional tolerances for untrimmed panels	EN 12467	Level II

		EN 12467	No drop	s/Pass
Water impermeability test	ambient	EN 12467	12,000	MPa
Mean module of elasticity	ambient	-	2.0	-
Partial safety factor ym³	ambient	EN 12467	18.5	MPa
Characteristic bending strength par.2	ambient	EN 12467	24.0	MPa
Characteristic bending strength perp.1	30-90 %	EN 12467	≤0.1	%
Moisture movement	-	-	0.26	kN/m2
Characteristic dead load gk (12 mm)	-	-	0.17	kN/m2
Characteristic dead load gk (8 mm)	dry	EN 12467	1750	kg/m³
Physical requirements and characteristi Mean density	CS			



Freaz-Pathawstest for Gategory A panel		
Warm water test	EN 12467 Pass	
Soak-dry test	EN 12467 Pass	
	EN 12467 Pass	

Fire and safety		
Material fire classification	EN 13501	A2-s1,d0
Flame spread rating	ULC S102	0
Smoke development classification	ULC S102	5
Material combustibility	ULC S114	Non-combustable

Other characteristics				
Thermal movement	α	-	0.01	mm/mK
Thermal conductivity	λ	ASTM C518	0.407	W/mK
Moisture content at 20°C, 65 % humidity		-	<6	M%
Brinell surface hardness (HBWmean)		ISO6506-1	75	N/mm2
Poisson's ratio		-	0.2	-

Note to the units: 1 K (degree Kelvin) = 1°C, 1 MPa (Mega Pascal) = 1 N/mm², M.-% = mass percentage Note: EQUITONE [natura] PRO panels also comply with the requirements of ISO8336:2017 "Fiber-cement flat sheets - Product specification and test methods." The EQUITONE [natura] PRO surface has the following properties: ☐ Oesterle scratch resistance 2.5 N ☐ Mohs hardness 4 ☐ Pencil hardness 4H ☐ Indentation test 6 N according to DIN 53153, EN ISO 2815 The UV-hardened surface coating is smooth and easy to clean. It offers high protection against normal and spray paints. The anti-graffiti coating satisfies the placement test requirements and those of Test Cycle 2 of the quality control association Gütegemeinschaft Anti-Graffiti e.V. for protective anti-graffiti surface systems (ILF test report 4-013/2006 of the Institut für Lacke und Farben e.V.). Graffiti can be removed with the usual graffiti cleaning agents available in the trade. 7. Advantages Providing the application guidelines are followed, EQUITONE [natura] PRO fiber-cement panels have the following superior mix of properties compared to other materials: ☐ Recyclable according to Environmental Product Declaration (EPD) ☐ Expected average reference service life of 50 years (based on EPD) ☐ Fire safe (no fire ignition, no spread of fire) ☐ Improved sound insulation of the facade □ UV-resistant ☐ Resistant to extreme temperatures and frost ☐ Weather resistant ☐ Resistant to many living organisms (fungi, bacteria, insects, vermin, etc.) ☐ Resistant to many chemicals ☐ Material appearance due to transparent coating ☐ Strong, rigid panels ☐ Hail impact tested ☐ Permanent and durable graffiti protection. Working with the material: ☐ The material is easy to drill, cut, and install with the proper tools □ Do not use adhesive, tapes, and/or sealants on the finished surfaces of the material 8. Applications EQUITONE [natura] PRO can be used in several ventilated applications, including, but not limited to: ☐ Ventilated facade / rainscreen cladding □ Window and door reveal ☐ Exterior ceiling: decorative cladding of ceiling

9/11

☐ Soffits, eaves, and verge boards

Interior wall and ceiling lining (subject to local regulations)Roof applications or inclined facades with panels facing up

For restrictions on the above-mentioned applications read the specific application guidelines.

The panels may be face or concealed-fixed with Etex proprietary or recommended fixing solutions.

EQUITONE [natura] PRO cannot be used in the following applications, but not limited to: Internal applications exposed to direct moisture e.g. wet areas, situations with direct contact with standing snow or ice, applications where exposed to long-term temperatures exceeding 80°C / 176°F.

9. Health and Safety Aspects

During the mechanical machining of panels, dust can be released which can irritate the airways and eyes. Depending on the working conditions, adequate machinery with dust extraction and/or ventilation should be foreseen. The inhalation of fine (respirable size) quartz-containing dust, particularly when in high concentrations or over prolonged periods of time can lead to lung disease and an increased risk of lung cancer. For more information, please visit www.equitone.com for the most recent Safety Information Sheet.

10. Maintenance and Cleaning

Refer to the relevant "EQUITONE Cleaning Information" Guide.

11. Certification











The manufacturer can - within the framework of the European Regulation N° 305/2011 (CPR) - present the Declaration of Performance (DOP) of the product such confirming that the product has a CE marking. The CE marking guarantees that the product is in accordance with the basic requirements determined by the harmonized European standard and applicable to the product. The Declaration of Performance is presented in accordance with the CPR and can be found at www.equitone.com.

EQUITONE [natura] PRO is certified with an Environmental Product Declaration according to ISO 14025 or EN 15804. The life cycle assessment includes raw material and energy production, the actual manufacturing phase, and the use phase of the fiber cement panels. More information is available in the Material Sustainability Datasheet.

EQUITONE fiber cement façade materials have also achieved a cradle-to-cradle bronze rating according to C2CPII version 3.1. The cradle-to-cradle product innovation institute evaluates products based on five categories: material health, product circularity, clean air and carbon, water and soil stewardship, and social fairness. More information can be found at www.equitone.com.

EQUITONE air-cured products are certified with an ESR report according to ICC AC90. AC90 evaluates the physical properties, weather resistance, wind load resistance, durability, and fire resistance of fiber cement products for use as exterior siding. More information is available in the ESR 3910 report.

The	manufactu	ring facility holds the latest versions of the following ISO certificates
	ISO 9001	Quality Management System
	ISO 14001	Environmental Management System
	ISO 45001	Occupational Health and Safety
	ISO 50001	Energy Management System

12. Information



Please visit www.equitone.com for contact details, further information, and technical documents.

Disclaimer

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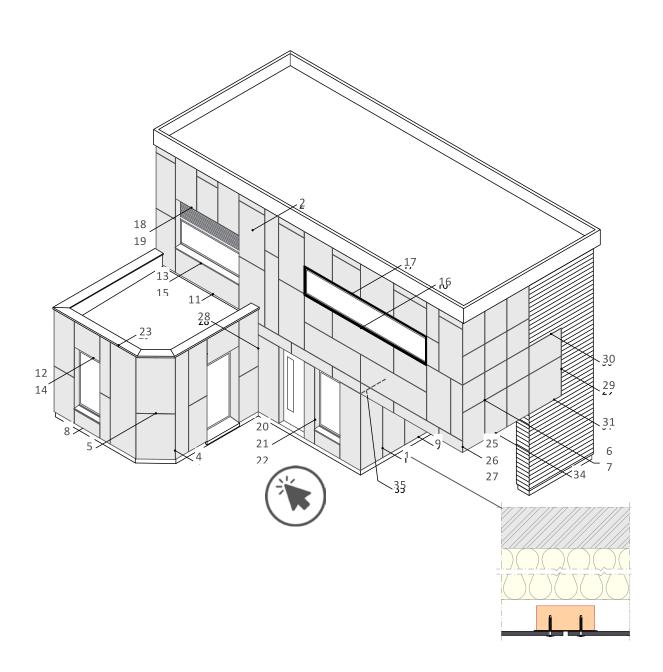
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Construction details
Face fixings on timber support frame





Content	Detail No.	Page
General information		<u>3</u>
Components		4
Support frame		7
Ventilation		<u>8</u>
Vertical joint	<u>1</u>	<u>10</u>
Intermediate support	<u>2</u>	<u>10</u>
Vertical control joint	<u>3</u>	<u>11</u>
Vertical joint at angle	<u>4</u>	<u>11</u>
Open horizontal joint junction with vertical joint	<u>5</u>	<u>12</u>
Open horizontal movement joint	<u>6</u>	<u>13</u>
Baffled horizontal movement joint	<u>7</u>	<u>13</u>
Base detail – Ground level	<u>8</u>	<u>14</u>
Base detail – Covered area (not exposed to direct precipitation)	<u>9</u>	<u>14</u>
Base detail – Balcony	<u>10</u>	<u>15</u>
Base detail – Flat roof / Parapet	<u>11</u>	<u>15</u>
Window head – Option 1	<u>12</u>	<u>16</u>
Window sill – Option 1	<u>13</u>	<u>16</u>
Window head – Option 2	<u>14</u>	<u>17</u>
Window sill – Option 2	<u>15</u>	<u>17</u>
Window head – Flush window	<u>16</u>	<u>18</u>
Window sill – Flush window	<u>17</u>	<u>18</u>
Window head – With sunscreen	<u>18</u>	<u>19</u>
Window head – With shutter	<u>19</u>	<u>20</u>
Window jamb – Option 1	<u>20</u>	21
Window jamb – Metal flashing	<u>21</u>	<u>21</u>
Window jamb – Option 2	<u>22</u>	22
Capping	<u>23</u>	<u>23</u>
External corner	<u>24</u>	<u>24</u>
External corner with wind barrier	<u>25</u>	<u>25</u>
Internal corner	<u>26</u>	<u>26</u>
Abutment	<u>27</u>	<u>26</u>
Junction with other facade material — Head detail	<u>28</u>	<u>27</u>
Junction with other facade material — Base	<u>29</u>	<u>27</u>
Segmented façade – Radius < 39 ft	<u>30</u>	<u>28</u>
Curved façade − Radius ≥ 39 ft	<u>31</u>	<u>28</u>
Soffit/ceiling-wall junction	<u>32</u>	<u>29</u>
Wall-soffit/ceiling junction	<u>33</u>	<u>30</u>
Junction with panels with concealed fixings	<u>34</u>	<u>31</u>

General information

This document provides generic construction details for EQUITONE façade systems with UNI Screw panel face fixings on timber batten support frame to assist with the design of EQUITONE façade.

This document is not designed to serve as an installation guide and is intended to be used in conjunction with EQUITONE Planning and Application Guide face fixings on metal support frame' and other relevant technical and installation documents.

The details included in this document only illustrate general principles for detailing of EQUITONE at different typical interfaces; and are not to be relied upon for weatherproofing and fire safety compliance with local regulations. The weatherproofing and fire performance of any project specific detail or application shall be evaluated by the project engineer or consultant.

Any components related to wind barriers, fire safety, moisture management and weather proofing including but not limited to membranes, flashings, water seals and sealants, airtightness tapes, horizontal and/or vertical fire barriers, etc, will need to be applied according to local regulations, project requirements and relevant standards.

The support frame, fixings, flashings, and the like shall be of adequate corrosion resistance appropriate to the corrosivity category of the project location.

All dimensions in this document are in inches [in] unless otherwise stated.

The information in this guide is comprehensive but not exhaustive, and the reader will need to satisfy themselves that the contents of this guide are suitable for their intended application. It is the responsibility of the project consultants (designer, architect, and engineers) to ensure that the information and details provided in this document are appropriate for the project.

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EQUITONE [textura]

Components

Materials



Maximum usable panel sizes (metric)

EQUITONE [linea] EQUITONE [lunara] EQUITONE [tectiva]	10 mm 10 mm 8 & 10 mm	12 2500	1220	3050
EQUITONE [natura]	8 & 12 mm			
EQUITONE [natura] PRO	8 & 12 mm	1250	1250	
EQUITONE [pictura]	8 & 12 mm		50	3100
EQUITONE [textura]	8 & 12 mm	2500		3100

Maximum usable panel sizes (imperial)

EQUITONE [linea] EQUITONE [lunara] EQUITONE [tectiva]	10 mm 10 mm 8 & 10 mm	122 2500	1220 3050
EQUITONE [natura] EQUITONE [natura] PRO EQUITONE [pictura]	5/16 & 15/32 in 5/16 & 15/32 in 5/16 & 15/32 in	4' - 1"	$4^{\prime}-1^{\prime\prime}$
EQUITONE [textura]	5/16 & 15/32 in	8' – 2"	10' – 2"

Panel fixings: UNI-Screw

Color matched and available in the following materials and grades:

Stainless Steel A2 (304) - Material number 1.4567

Available with additional protective coating (C5 acc. ISO 12944-2) for use in e. g. $\,$

coastal areas

Stainless Steel A4 (316) - Material number 1.4403

Available with additional protective coating (C5 acc. ISO 12944-2) for use in e.g.

coastal areas

UNI-Screws have a drillpoint.

The screw has a Torx TTAP20 socket cap. Standard T20 bits can also be used.

Panel fixings: Screw collar

Stainless Steel 304 (A2) - Material number 1.4569

Must be used together with UNI-Screw when fixing EQUITONE [natura] PRO and EQUITONE [pictura].



Each panel thickness has its own corresponding UNI-Screw.

Panel type	Screw type
8 mm EQUITONE [natura]	
8 mm EQUITONE [natura] PRO	
8 mm EQUITONE [pictura]	
8 mm EQUITONE [textura]	5,5x40 DP K15 UNI-Screw
EQUITONE [tectiva]	
EQUITONE [linea]	
EQUITONE [lunara]	
12 mm EQUITONE [natura]	
12 mm EQUITONE [natura] PRO	E EVEO DD KAE HAN COVER
12 mm EQUITONE [pictura]	5,5x50 DP K15 UNI-Screw
12 mm EQUITONE [textura]	

Panel hole size is 7 mm, drilled with 7 mm EQUITONE drill bit.

UNI-Screw recommended panel edge distance:

From the edge parallel to support frame: 1-4 in (Bare minimum 3/4 in)

From the edge perpendicular to support frame: 2 3/4 - 4 in



EPDM tape

Black UV resistant EPDM used over timber battens Used to protect the timber against moisture ingress.

Available as flat tape or as tape with ridges in different widths to suit a range of support frame batten widths.

Flat tape: 2 3/4, 4, 5 in Ribbed tape: 1 3/4, 3 9/16 in

Thickness: $\geq 1/16$ in

1/32 in thick EPDM- flat tape can only be used to cover the battens

behind corner profiles.



Perforated Closure

Aluminum perforated profile used to close the cavity entry and outlet to prevent the entry of birds and vermin.

Available in four different widths to suit a range of cavity thicknesses and two different colors: uncoated aluminum and black coated aluminum. The perforation rate is approximately 35 %.



Baffle

Black coated aluminum baffle used to close and form expressed panel horizontal joint.

The profile has a thickness of 1/32 in.



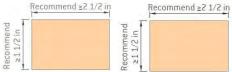
Support frame

Batten dimensions are valid only for Uni-screws with Drill-Point. For Uni-screws with Sharp-Point, batten widths need to be increased according to local regulations and relevant standards.

Timber battens

Minimum thickness: 1 1/4 in

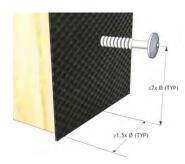
Minimum width for intermediate batten: 2 in



Minimum width for vertical joint support: 4 21/64 in or two 2 11/64 in studs







Edge distance from batten end: minimum of seven time the \emptyset of the fastener

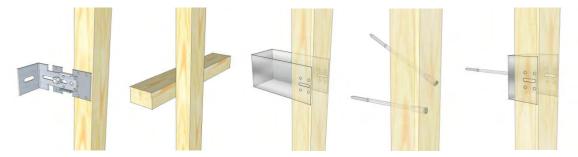
Note: The above values are recommended minimums and could be greater according to local regulations and standards, local standard sizes of battens and static calculation.

Timber batten fixings

The details in this document don't include batten fixings.

There are various number of fixings methods, very often based on local habits and construction methods:

- Adjustable brackets placed alternately to the left and the right of the vertical ba
- Construction with counter battens
- U-shaped batten holders
- Window frame dowel (distance screws)
- Batten holders with spacer



Notes

The cladding support frame and its connection to the substructure shall be designed and selected by the project engineer in accordance with the relevant standards. The support frame maximum deflection under the influence of load shall be limited to Span/300 with a maximum of 5/32 in, excluding the influence of creep. Timber framing must comply with local standards.

The minimum recommended grade of structural batten is Class C24 according to EN 14081-1 . Local specific requirements must be adhered to as well.

Timber batten must be sufficiently durable for the application in accordance with applicable local regulations. Timber shall be seasoned or have reached an equilibrium moisture content of 20% or less at the time of installation. Unseasoned timber is not recommended.

Ventilation

A ventilated façade is a kind of two stage construction, an inner structure with a protective outer skin, and the cladding panel or rainscreen. A ventilated façade consists of an insulated and weathertight structure, a ventilated cavity formed with a cladding support frame and the cladding panel.

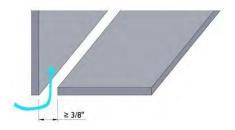
The bare minimum clear gap (cavity width) for ventilation behind the panels is 3/4 in and may need to be increased based on the vertical distance between ventilation inlet and outlet. Typical cavity width will be governed by the framing dimensions and be approximately $1 \, 3/16 - 2 \, 3/8$ in.

Air must be allowed to enter the cavity from bottom of the façade, window head, soffit, slab junctions, and the like, and exit from top of the façade, capping, window sill, slab and soffit interfaces, and the like.

The size of inlets and outlets should be executed as stipulated in this document and the Planning & Application Guide or according to local standards and building regulations. The following requirements are bare minimums.

Ventilation without perforated closure

The size of ventilation inlet and outlet should be a minimum of 3/8 in (\geq 4,75 in² / foot) and may need to be increased depending on local regulations and/or the vertical distance between inlets and outlets (cladding height).

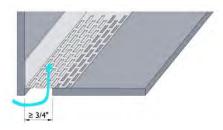


Ventilation with perforated closure

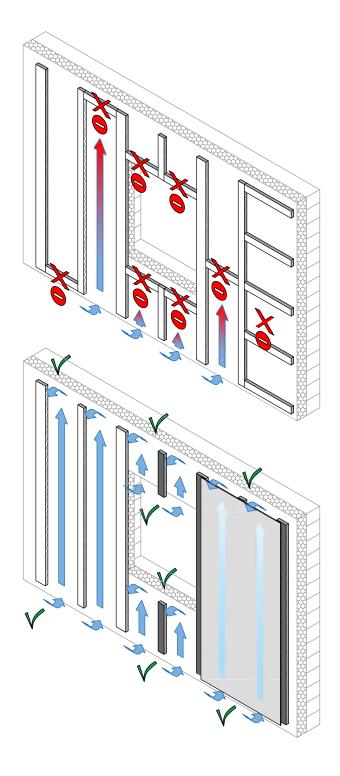
If by local regulations the use of a perforated closure is required e. g. to vermin proof the cavity then the size of the inlet and outlet must be increased depending on the open area percentage of the used profile to achieve a bare minimum open area of more than 4,75 in 2 / foot. E.g., in case of a 35 % perforated closure the minimum open gap should be minimum 1 3/16 in.

The minimum open area may need to be increased depending on local regulations and/or the vertical distance between the ventilation inlet and outlet (cladding height)

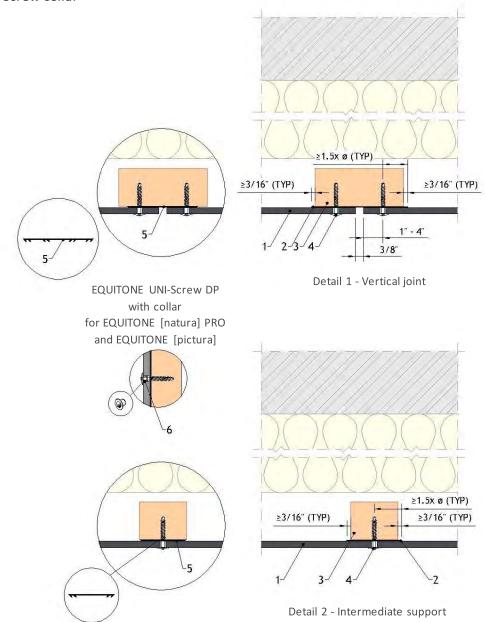
The perforated angle should be less than 1/32 in in thickness when placed between EQUITONE and the support frame



Important points to consider (Do's and Don'ts): Air flow

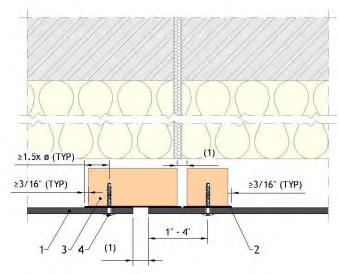


- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw
- 5. Alternative ribbed EPDM⁽²⁾
- 6. Screw collar

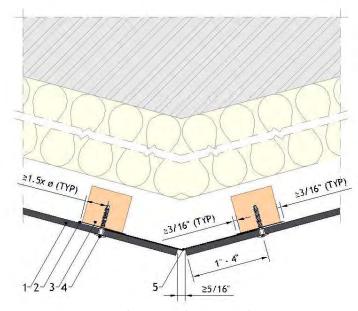


- 1) Flat EPDM should always overhang the batten by minimum 3/16" at each side.
- 2) In the case of open horizontal joints the ribbed EPDM should cover the batten completely and preferably overhang the batten by 3/16" at each side.
- 3) In case of ribbed EPDM the screw should be located between the ridges.

- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw
- 5. Optional EPDM or flashing



Detail 3 - Vertical control joint



Detail 4 - Vertical joint at angle

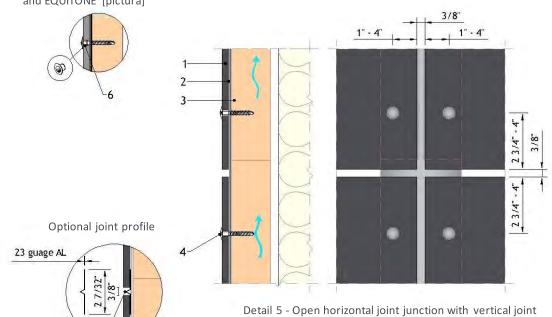
Notes:

- 1) The width of the the facade control joint should be equal or greater than the building control joint.
- 2) Flashings to close the joints may not be thicker as 1/32 in.
- 3) If an EPDM is used to close the joint, the battens must be close to the corner to provide a solid support.

- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw
- 5. Optional horizontal joint profile
- 6. Screw collar



EQUITONE UNI-Screw DP with collar for EQUITONE [natura] PRO and EQUITONE [pictura]

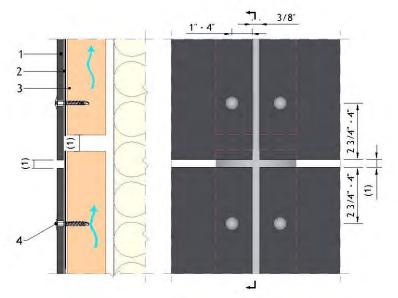


Notes:

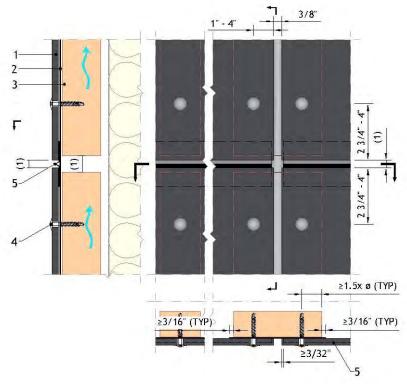
In the case of open horizontal joints the joint in the timber battens should be behind the upper panel.

- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw
- 5. Optional horizontal joint profile





Detail 6 - Open horizontal movement joint



Detail 7 - Baffled horizontal movement joint

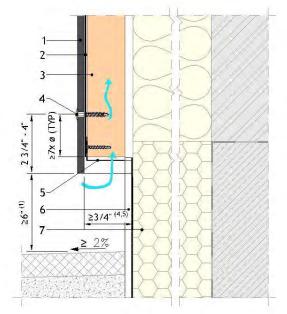
Note:

1) The width of the facade control joint should be equal or grater than the building movement joint

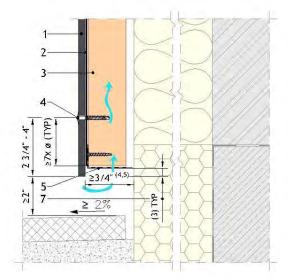
- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw
- 5. Perforated closure
- Skirting⁽²⁾ in EQUITONE [tectiva], EQUITONE [pictura], EQUITONE [textura]
- 7. Hard insulation suitable for use below ground level







Detail 8 - Base detail - Ground level



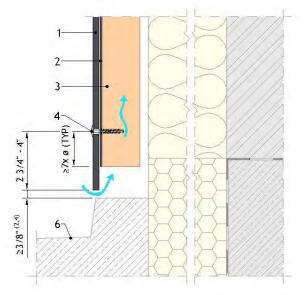
Detail 9 - Base detail – Covered area (not exposed to direct precipitation)

Notes:

- 1) The distance to ground level is recommended to be, at minimu, 6 in. A smaller ground clearance is possible, bit it may increase the risk of water marks and panel staining caused by splash back.
- 2) The skirting board could be concrete, natural stone, render, metal flashing or EQUITONE.
- 3) The facade panel should preferably overhang more than 3/8 in below the ventilation profile to create a drip edge.
- 4) When the inlet/outlet is wider than 3/4 inch continuous, a perforated closure is recommended. Total perforation area should be a minimum of 4.75 in 2 per linear foot. This roughly equates to a minimum continuous opening of 3/8 inch.
- 5) Inlet/Outlet, air cavity, and closure perforation sizing should be increased, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide Face Fixing to Wood for additional information.

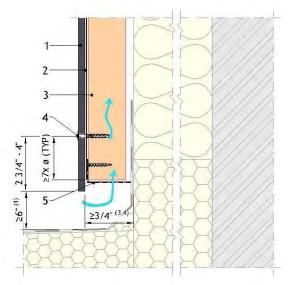
- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw
- 5. Perforated closure
- 6. Balcony floor





Detail 10 - Base detail - Balcony

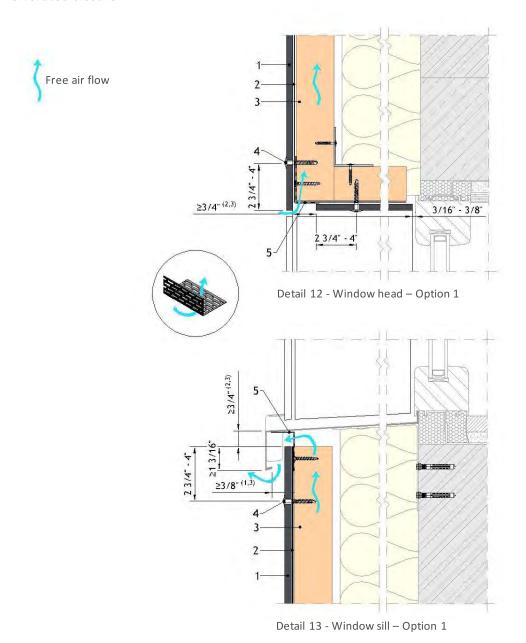




Detail 11 - Base detail - Flat roof / Parapet

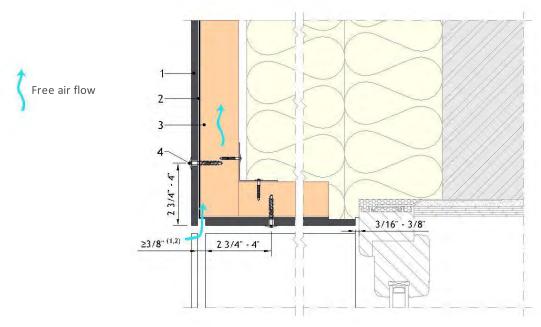
- 1) The distance to the ground level is recommended to be, at minimum, 6 in. A smaller ground clearance is possible but it may increase the risk of water marks and panel staining caused by splash back.
- 2) Where a perforated closure is not obstructing the inlet/outlet, the opening should be a minimum of 3/8 inch continuous.
- 3) When the inlet/outlet is wider than 3/4 inch continuous, a perforated closure is recommended. Total perforation area should be a minimum of 4.75 in 2 per linear foot. This roughly equates to a minimum continuous opening of 3/8 inch.
- 4) Inlet/Outlet, air cavity, and closure perforation sizing should be increased, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide Face Fixing to Wood for additional information.

- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw
- 5. Perforated closure

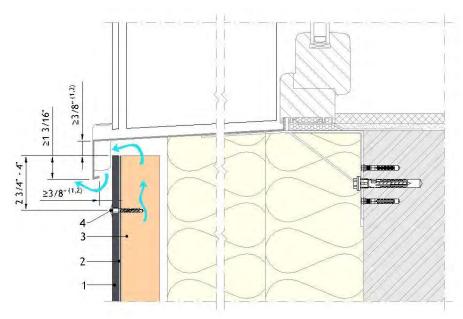


- 1) Where a perforated closure is not obstructing the inlet/outlet, the opening should be a minimum of 3/8 inch continuous.
- 2) When the inlet/outlet is wider than 3/4 inch continuous, a perforated closure is recommended. Total perforation area should be a minimum of 4.75 in 2 per linear foot. This roughly equates to a minimum continuous opening of 3/8 inch.
- 3) Inlet/Outlet, air cavity, and closure perforation sizing should be increased, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide Face Fixing to Wood for additional information.

- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw



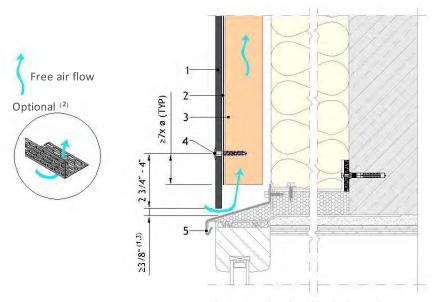
Detail 14 - Window head - Option 2



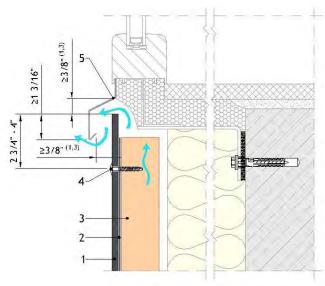
Detail 15 - Window sill - Option 2

- 1) Where a perforated closure is not obstructing the inlet/outlet, the opening should be a minimum of 3/8 inch continuous.
- 2) Inlet/Outlet, air cavity, and closure perforation sizing should be increased, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide Face Fixing to Wood for additional information.

- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw
- 5. Aluminum flashing



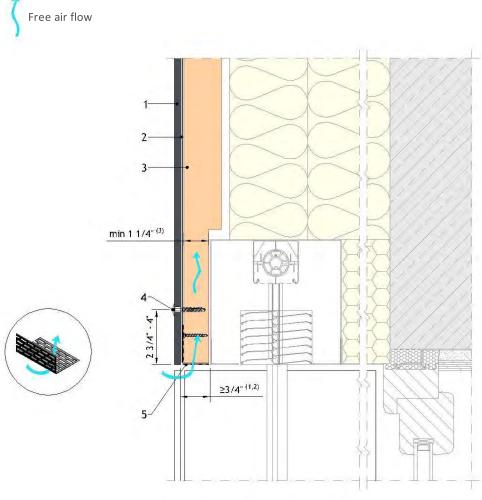
Detail 16 - Window head - Flush window



Detail 17 - Window sill - Flush window

- 1) Where a perforated closure is not obstructing the inlet/outlet, the opening should be a minimum of 3/8 inch continuous.
- 2) When the inlet/outlet is wider than 3/4 inch continuous, a perforated closure is recommended. Total perforation area should be a minimum of 4.75 in 2 per linear foot. This roughly equates to a minimum continuous opening of 3/8 inch.
- 3) Inlet/Outlet, air cavity, and closure perforation sizing should be increased, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide Face Fixing to Wood for additional information.

- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw
- 5. Perforated closure

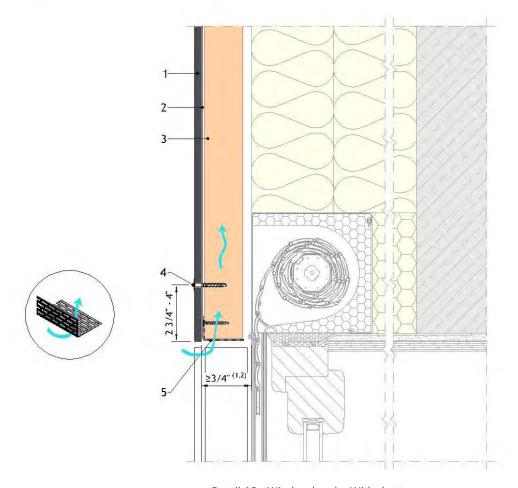


Detail 18 - Window head - With sunscreen

- 1) When the inlet/outlet is wider than 3/4 inch continuous, a perforated closure is recommended. Total perforation area should be a minimum of 4.75 in 2 per linear foot. This roughly equates to a minimum continuous opening of 3/8 inch.
- 2) Inlet/Outlet, air cavity, and closure perforation sizing should be increased, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide Face Fixing to Wood for additional information.
- 3) The reduced section of the support profiles must be taken into account during static calculations.

- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw
- 5. Perforated closure

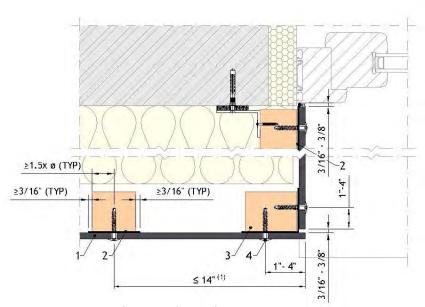




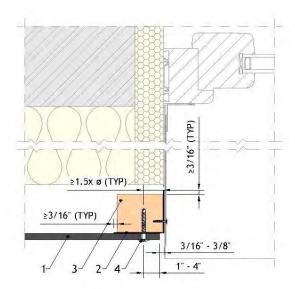
Detail 19 - Window head – With shutter

- 1) When the inlet/outlet is wider than 3/4 inch continuous, a perforated closure is recommended. Total perforation area should be a minimum of 4.75 in 2 per linear foot. This roughly equates to a minimum continuous opening of 3/8 inch.
- 2) Inlet/Outlet, air cavity, and closure perforation sizing should be increased, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide Face Fixing to Wood for additional information.

- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw



Detail 20 - Window jamb - Option 1

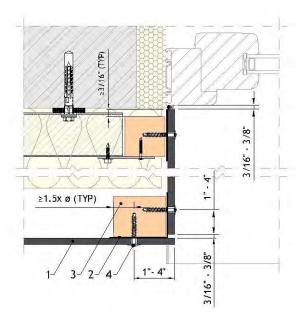


Detail 21 - Window jamb - Metal flashing

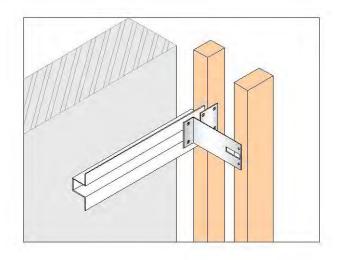
Note:

1) Panels with single span (panels with 2 columns of fixings) cannot be fixed to a floating angle like shown in the detail.

- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw



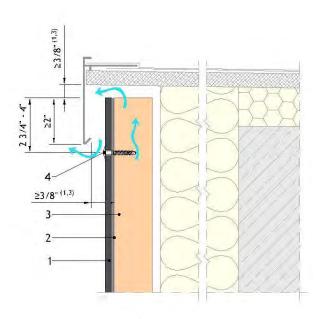
Detail 22 - Window jamb - Option 2



Isometric view of the support frame

- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw

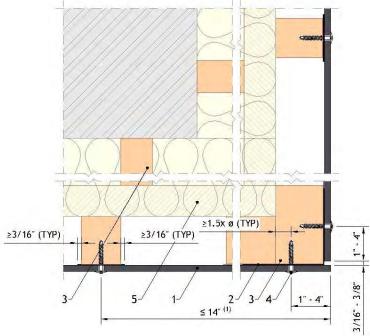




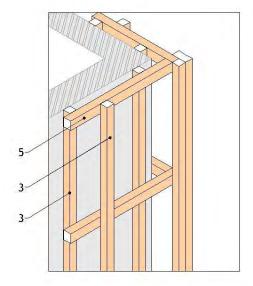
Detail 23 - Capping

- 1) Where a perforated closure is not obstructing the inlet/outlet, the opening should be a minimum of 3/8 inch continuous.
- 2) When perforated closures are used underneath the capping, the ventilation outlet opening between the panel and capping should be a minimum of 1 3/16 inch. Total perforation area should be a minimum of 4.75 in2 per linear foot. This roughly equates to a minimum continuous opening of 3/8 inch.
- 3) Inlet/Outlet, air cavity, and closure perforation sizing should be increased, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide Face Fixing to Wood for additional information.

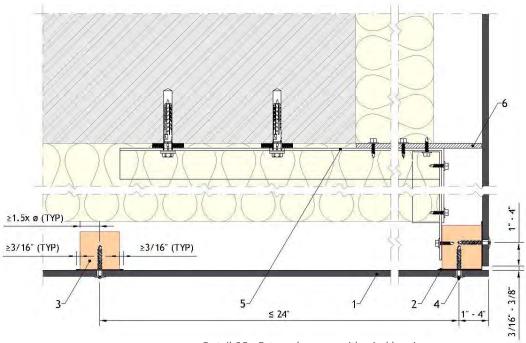
- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw
- 5. Counter batten



Detail 24 - External corner

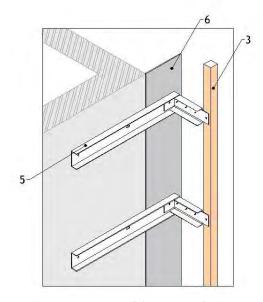


Isometric view of the support frame



Detail 25 - External corner with wind barrier

- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw
- 5. Metal bracket system
- 6. Wind barrier (metal or fibrecement)

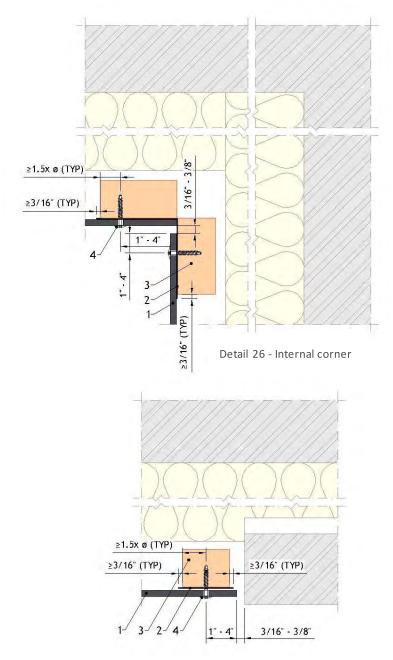


Isometric view of the support frame

Notes:

The installation of wind barrier is subject to local standards and building regulation.

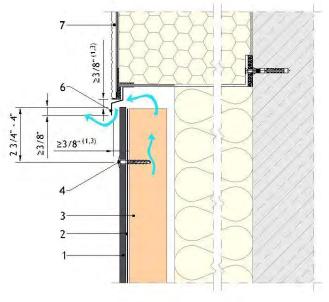
- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw



Detail 27 - Abutment

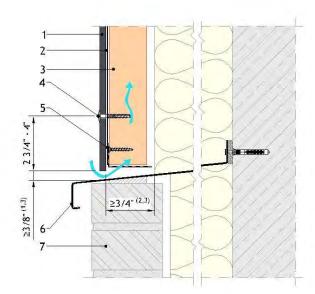
- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw
- 5. Perforated closure
- 6. Aluminum flashing
- 7. Adjacent facade system





Detail 28 - Junction with other facade material - Head detail

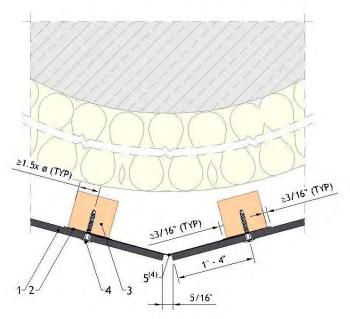




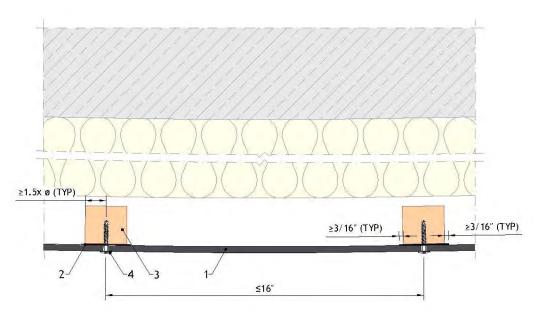
Detail 29 - Junction with other facade material - Base

- 1) When the inlet/outlet is wider than 3/4 inch continuous, a perforated closure is recommended. Total perforation area should be a minimum of 4.75 in 2 per linear foot. This roughly equates to a minimum continuous opening of 3/8 inch.
- 2) Inlet/Outlet, air cavity, and closure perforation sizing should be increased, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide Face Fixing to Wood for additional information.
- 3) The reduced section of the support profiles must be taken into account during static calculations.

- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw
- 5. Optional EPDM or flashing⁽³⁾



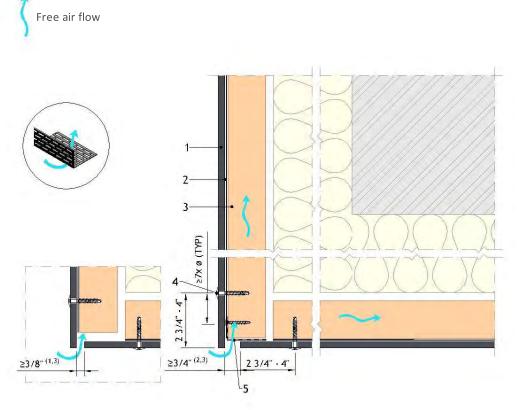
Detail 30 - Segmented façade - Radius < 39 ft



Detail 31 - Curved façade — Radius \geq 39 ft

- 1) The minimum radius for curved facade is 39 ft, the framing centers should be reduced to a maximum of 16 in.
- 2) For smaller radii the facade should be executed as segmented facade.
- 3) Flashings to close the joints may not be thicker then 1/32 in.
- 4) If an EPDM is used to close the joint, the battens must be close to the corner to provide a solid support.

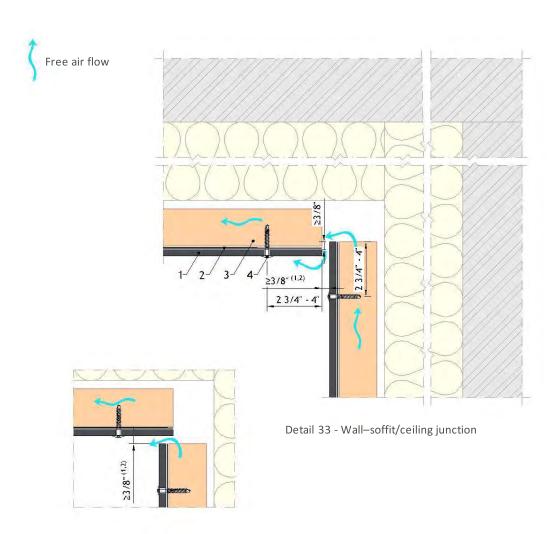
- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw
- 5. Perforated closure



Detail 32 - Soffit/ceiling-wall junction

- 1) Where a perforated closure is not obstructing the inlet/outlet, the opening should be a minimum of 3/8 inch continuous.
- 2) When the inlet/outlet is wider than 3/4 inch continuous, a perforated closure is recommended. Total perforation area should be a minimum of 4.75 in 2 per linear foot. This roughly equates to a minimum continuous opening of 3/8 inch.
- 3) Inlet/Outlet, air cavity, and closure perforation sizing should be increased, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide - Face Fixing to Wood for additional information.
- 4) The maximum center spacing between the UNI-rivets in a ceiling application is 16 inches.

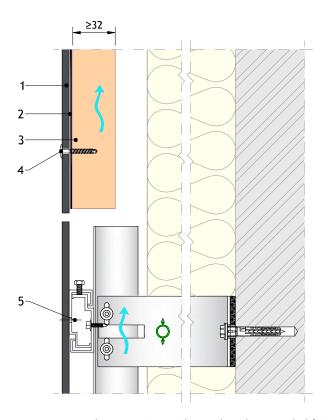
- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw



- 1) Where a perforated closure is not obstructing the inlet/outlet, the opening should be a minimum of 3/8 inch continuous.
- 2) Inlet/Outlet, air cavity, and closure perforation sizing should be increased, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide Face Fixing to Wood for additional information.
- 3) The maximum center spacing between the UNI-rivets in a ceiling application is 16 inches.

- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw
- 5. Concealed fixing system





Detail 34 - Junction with panels with concealed fixings

- 1) Check the construction details for concealed fixing for more information.
- 2) Depending on the specified concealed fixing system the minimum panel thickness could vary from 5/16 in to 15/32 in as applicable.
- 3) Special attention must be taken to the alignment of the panels with concealed fixing and the ones with face fixings.

Your detail was not included?

Are you looking for details in DXF, DWG format?

Contact:

EQUITONE USA 1731 Fred Lawson Rd. Maryville, TN 37801 Phone: 865-268-0654

Email: info.usa@equitone.com Website: www.equitone.com

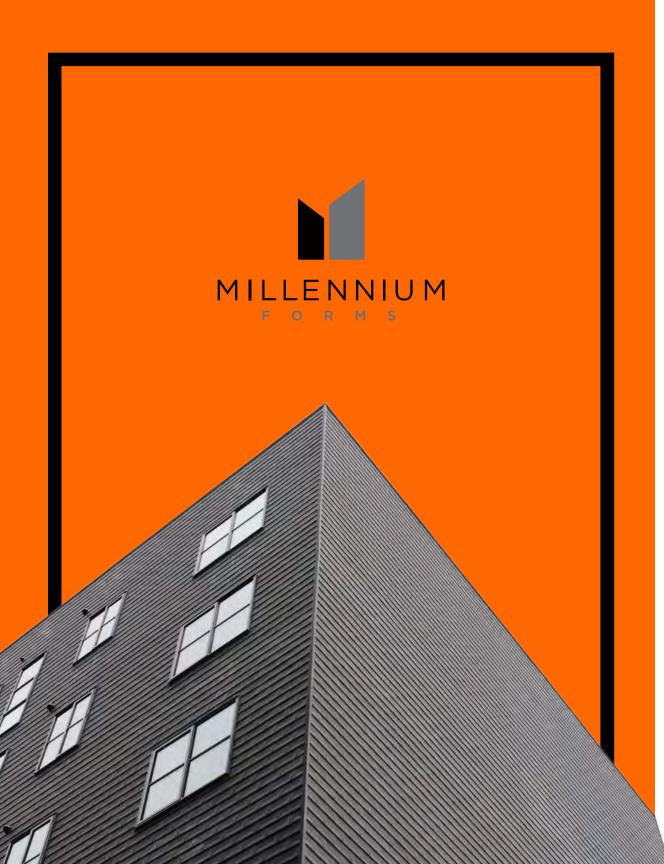
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BOLDNESS THAT INSPIRES. BRILLIANCE THAT ENDURES.





OVERVIEW

You need a building form product that expresses the vision, energy, and purpose of your space – and one that creates an impactful experience. The good news is that you don't have to settle for ordinary. At Millennium Forms, we help you deliver the extraordinary – with vibrant, dimensional, and captivating building forms. In fact, our forms are highly sought after and utilized worldwide because they're built differently, and we're built differently. Our team of Color Masters create one-of-a-kind colors for your building forms that not only look spectacular, but enable your space to provoke an emotional response. Plus, we take the guess work out of bringing your forms to life by ensuring there are minimal parts and pieces, and no complex equipment needed, to complete installation. Bottom line: no matter the specific goals or needs for your custom environment, we partner with you to ensure you can deliver boldness that inspires, and brilliance that endures. Millennium Forms – Saving the World from Boring Buildings Since 2001.

OUR VISION

To create a point of pride in every community.

OUR MISSION

We craft vibrant, dimensional, and captivating building forms that create extraordinary experiences.

THE MILLENNIUM FORMS DIFFERENCE

NOT JUST A VENDOR

We partner with your design / build and install teams throughout the process to ensure you know exactly how to leverage our products in your custom environment.

MADE BY ARTISTS

Our team of Color Masters create one-of-a-kind colors for your building forms that not only look spectacular, but enable your space to provoke an emotional response.

EASY TO INSTALL

We take the guesswork out of bringing your forms to life by ensuring there are minimal parts and pieces, and no complex equipment needed, to complete installation.

BE BOLD. BE BRILLIANT.

DO YOU WANT TO MAKE A UNIQUE, DYNAMIC AND ENDURING STATEMENT ON YOUR BUILDING FAÇADE?
MILLENNIUM FORMS IS PROUD TO OFFER BOLD ARCHITECTURAL MATERIALS LIKE NO OTHER – ZALMAG® AND LIC.





LIGHT INTERFERENCE COLOR

LIC is a revolutionary electrochemical process to color stainless steel without the use of dyes or pigments.

Stainless steel is a material renowned for its elegance and durability. At Millennium Forms, we pride ourselves on using only the highest quality 304 and 316 stainless steel, containing 75-85% post-consumer and post-industrial recycled material, and 100% recyclable itself.

Our proprietary LIC process creates a stunning layer on top of stainless steel that behaves like a prism. This creates the changing color that we see on the surface of the metal that is sure to make your building façade truly unique. Whether it's a light or dark shade you're after, our LIC process offers a brilliant range of colors, all of which are influenced by the environment, light, weather, and the angle at which you observe. Experience the beauty and durability of LIC-enhanced stainless steel with Millennium Forms.











Zinc – Heals the material's scratches & edges
Aluminum – Increases corrosion resistance
Magnesium – Renders the material impenetrable

Starting with a carbon steel base, the coating is forged from an arduous melding process of zinc, aluminum and magnesium. Not only does ZALMAG® give you one-of-a-kind beauty, but it has incomparable tensile strength and wind load capabilities so your design will last a lifetime.

Above the impressive performance characteristics, architects and visionaries choose ZALMAG® for its unique patina aging process, which provides an extraordinary, ever-changing appearance to add visual interest to any structure.

ZALMAG® is a highly corrosion - resistant, hot dip coated steel that has a coating layer of Zinc, Aluminum, and Magnesium. Additionally, ZALMAG® has superior scratch resistance with unique self-healing characteristics that make it the perfect material for perforating and a great solution for all environments.



COLORING PROCESS

Our Light Interference Color (LIC) process produces variations in color on natural material, EVERY TIME. Each one of our colors is produced in a range, light through dark.

With every color we produce on stainless steel tiles and panels, the appearance will differ due to the base material, finish, even the light available, height, and angle you observe it from. The color you experience is altered by environmental factors and all surrounding materials. Later, when your Submittals are sent for approval, you will see the hue your project-specific material will exhibit.

BRILLIANT ADVANTAGES OF LIC

One brilliant advantage of LIC is that the surface of the material is not affected by UV rays. Nor will it fade, whereas painted, pigmented, or dyed products tend to. The boldest advantage of LIC is the artistic styles that our colors and finishes provide, unlike painted or anodized products. Due to the nature of the LIC process, our products will always have natural variants in color to provide you with an exuberant design.

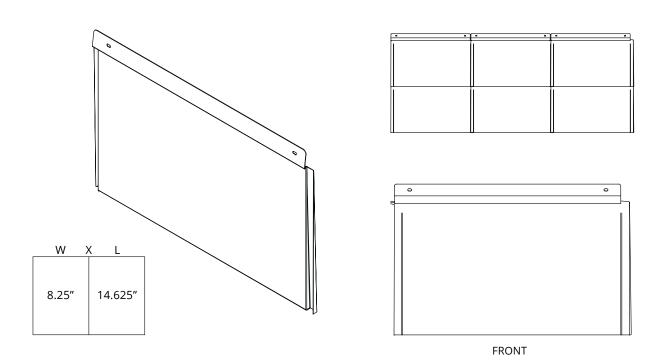


TILES



FLAT TILE

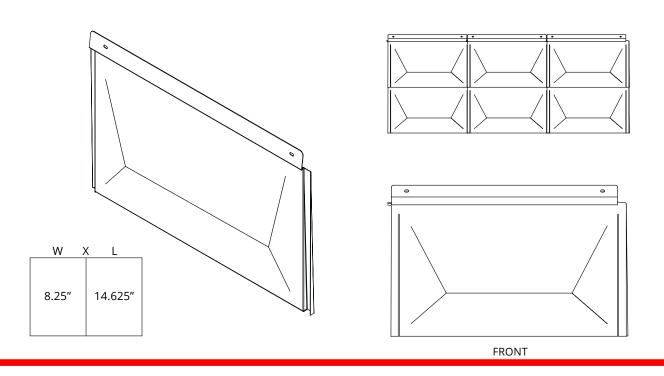
Millennium Flat Tiles were introduced as an alternative to conventional wall cladding systems. The Flat Tile has the flexibility to accommodate both modern and traditional themes with a unique interlocking design.



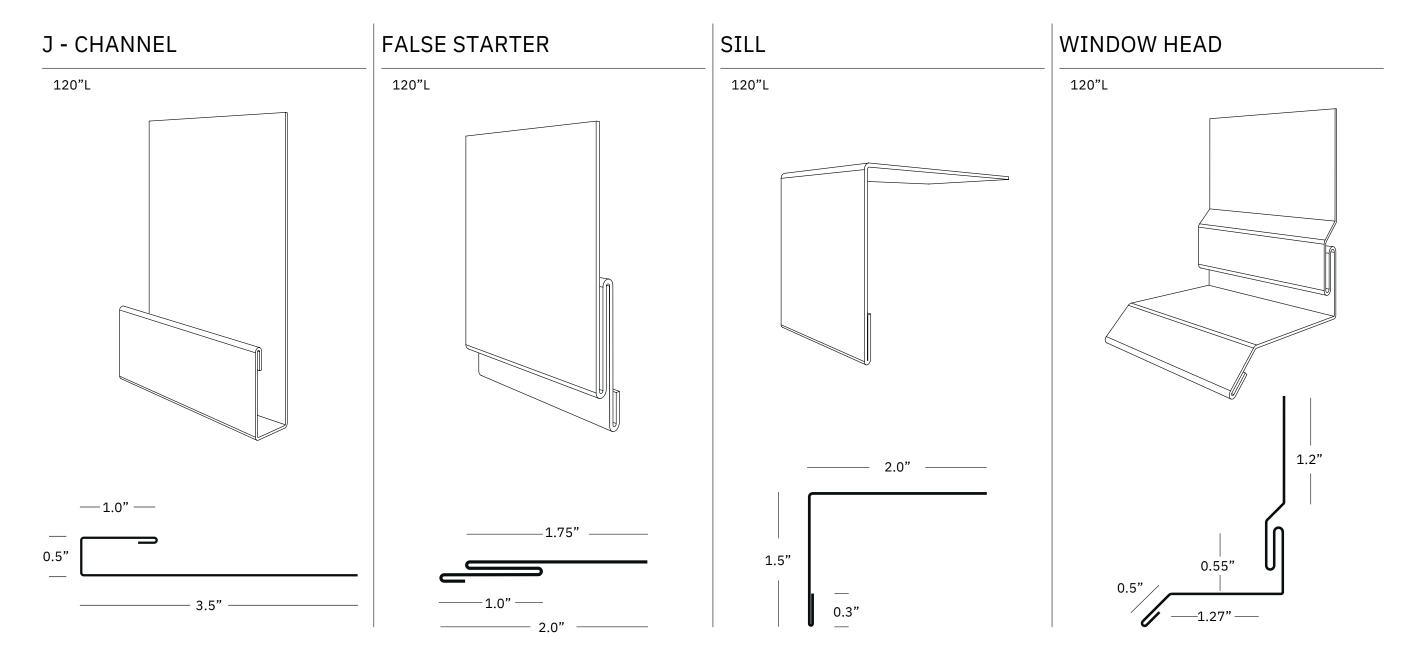


CUPPED TILE

Utilizing the same dimensions as the Flat Tile, the Cupped Tile has an indentation in the center of the tile creating a unique angular shadow effect. The cupped design is ideal for both wall and roof applications allowing the installer to step in the center portion of the tile without damaging the material.



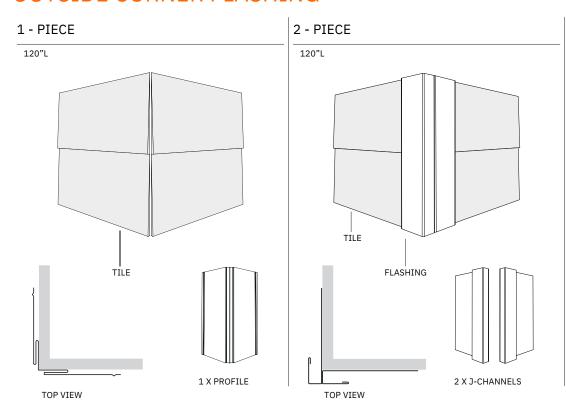
STANDARD WALL FLASHING



CORNER OPTIONS



OUTSIDE CORNER FLASHING



INSIDE CORNER FLASHING

120"L

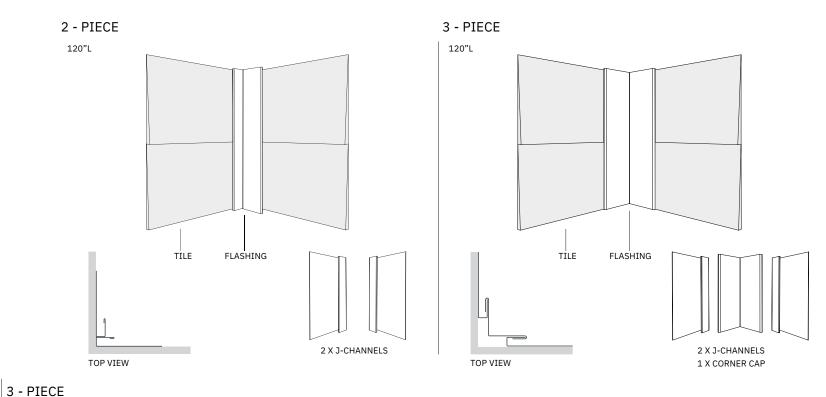
TİLE

TOP VIEW

FLASHING

2 X J-CHANNELS

1 X CORNER CAP



It's all about the finishing touches. We believe a successful project is supported by the execution of its details.

We offer flashing in prefabricated and custom dimensions to give your project a seamless finish.



PRODUCT CHART

MATERIAL	ALLOY	FINISH	COLOR	FORM	GAUGE	TEXTURE
LIC STAINLESS STEEL	304 - 316	MILL BRIGHT #4 POLISH* (CHARCOAL ONLY)	PEWTER BRONZE CHARCOAL* BLUE	TILE CUPPED FLAT	26	N/A
			SLATE BRONZE GOLD BURGUNDY PURPLE BLUE PEACOCK BLUE GREEN	PANEL LAY - FLAT FLAT LOCK FLUSH REVEAL (BUTT JOINT) FLUSH REVEAL (CASSETTE JOINT) TONGUE & GROOVE	18 - 24 TONGUE & GROOVE ONLY AVAILABLE IN 24 GA IN STAINLESS AND 22/24 GA IN ZALMAG®	2WL, 2FL, 6WL, 5WL, LINEN,
ZALMAG®	N/A	NATURAL PRE-PATINA II BLACK	N/A	SHEET 48"W x 120"L		SHARKSKIN, BEAD BLAST
				FLASHING MAX 120"L	24	

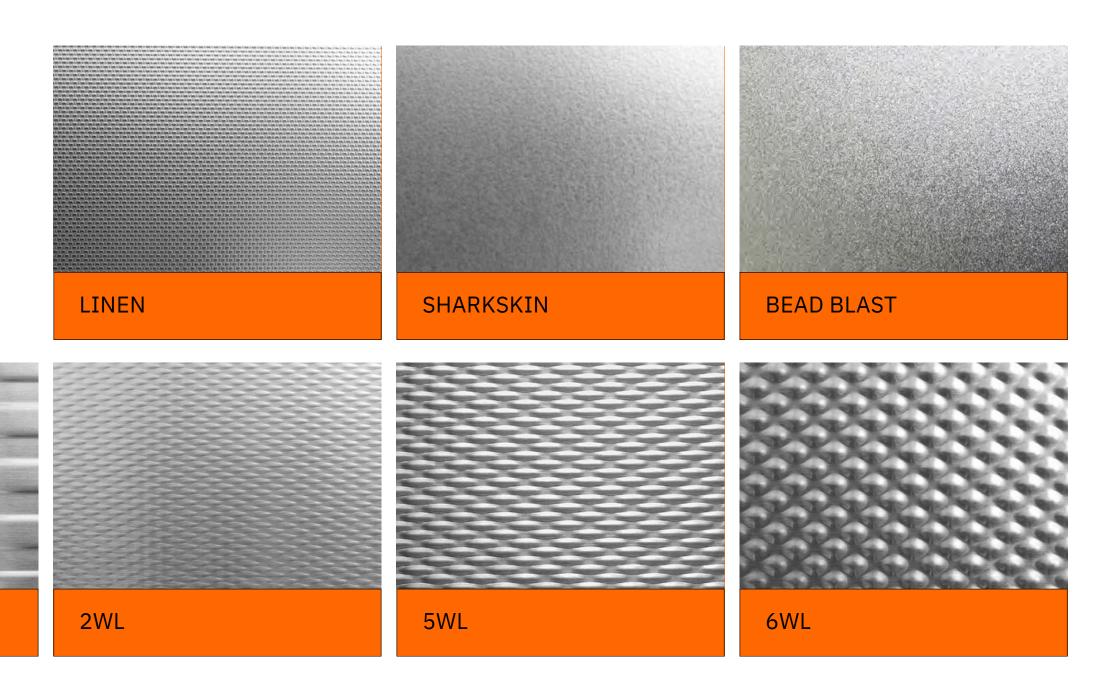
^{*}Not all textures are available in ALL materials and gauges. Minimum order quantities may apply.

TEXTURES

2FL

Textures can be used to enhance your design, whether you want to diffuse light, introduce depth to your façade or reduce finger-printing. Textures are only available in panels or sheets.

*Not all textures available in ALL materials and gauges. Minimum order quantities may apply.





GET IN TOUCH

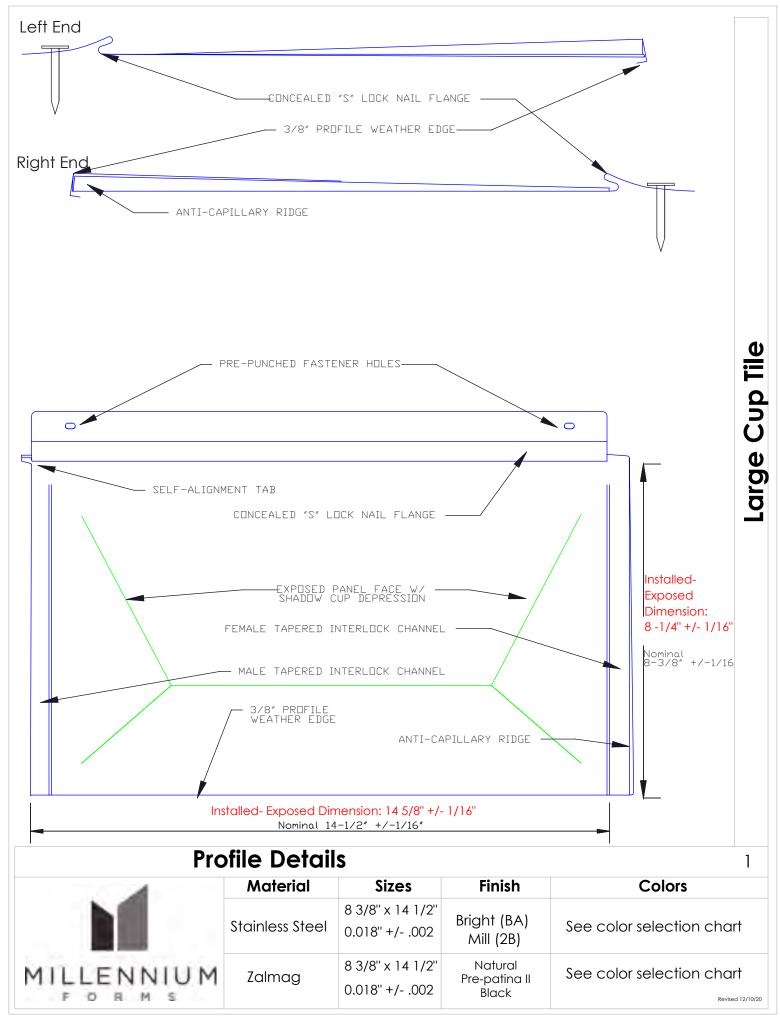
Millennium Forms LLC 550 East Centralia Street Elkhorn, WI 53121 U.S.A.

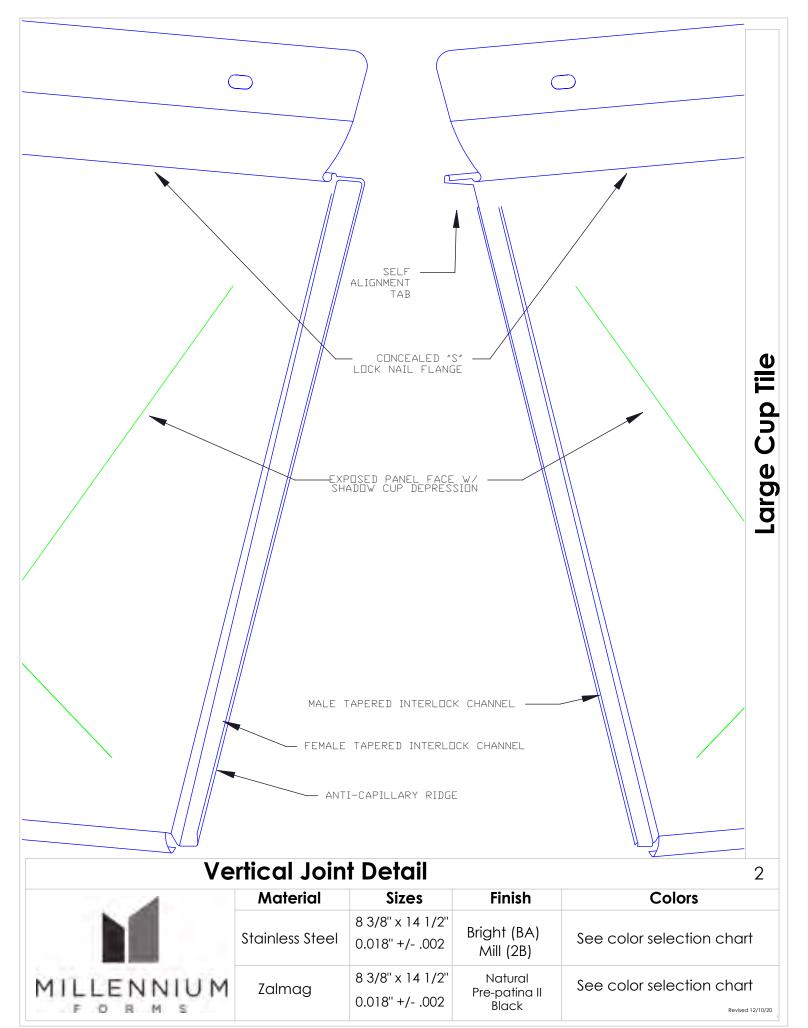
P. 262.723.7778

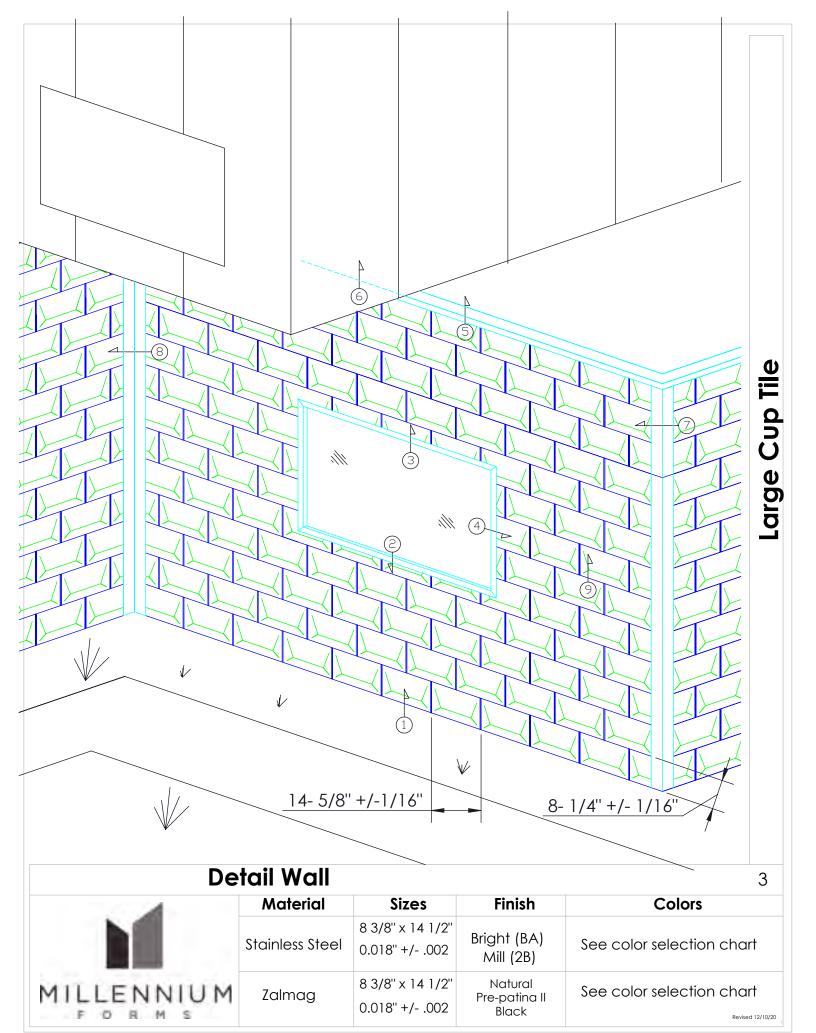
info@millenniumforms.com

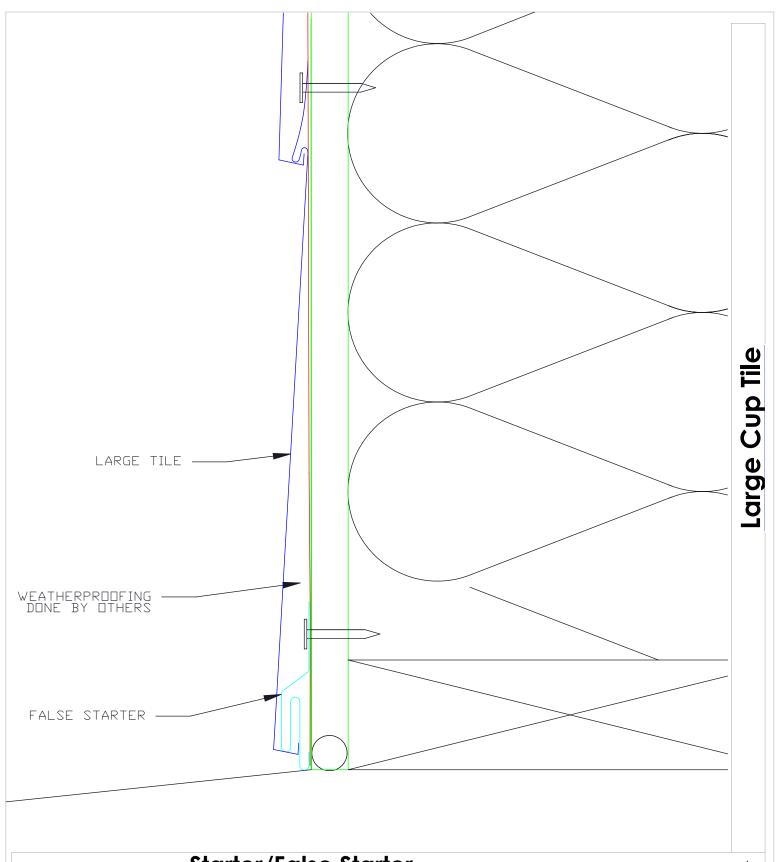
millenniumforms.com



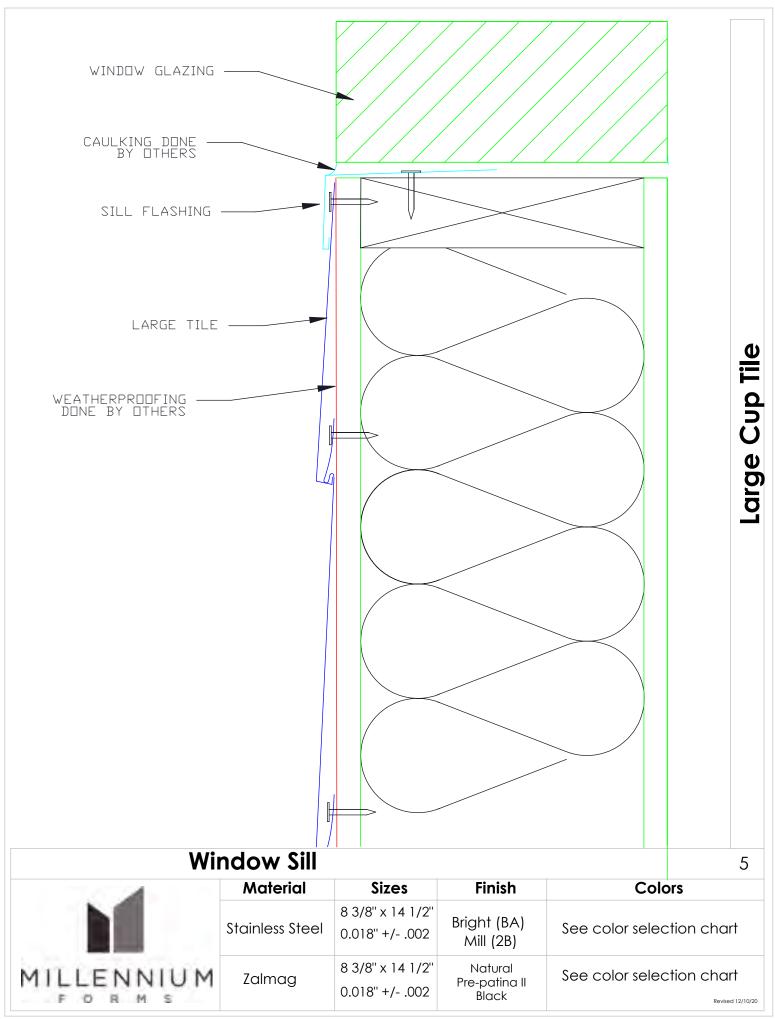


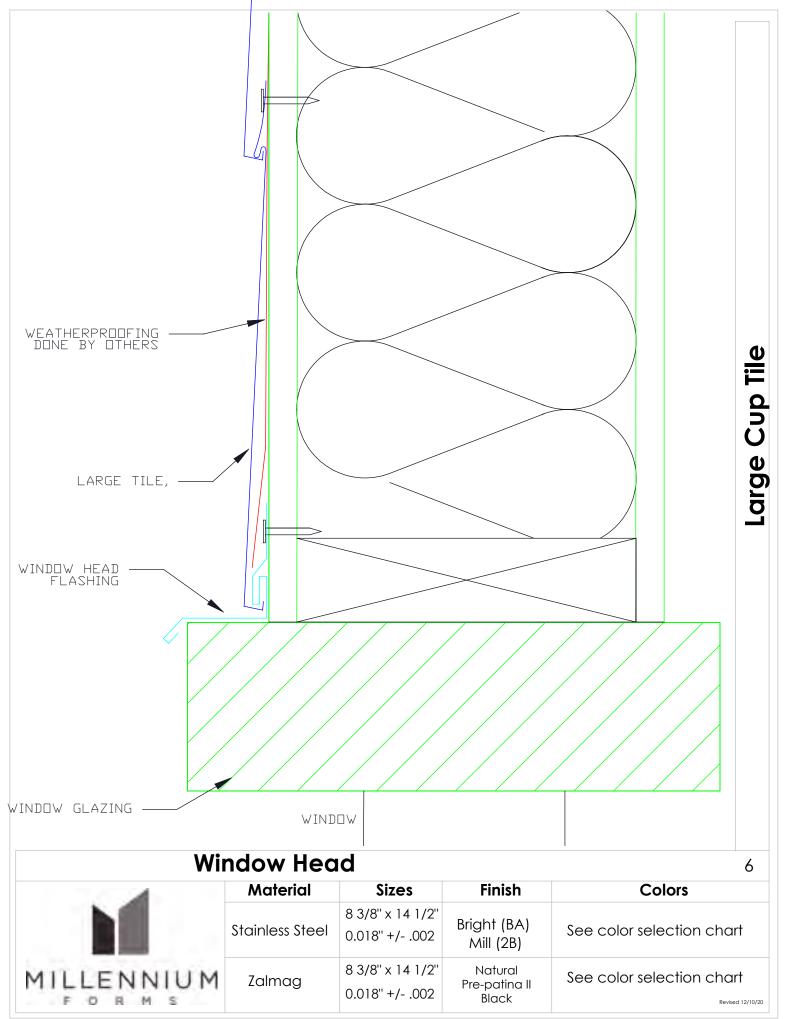


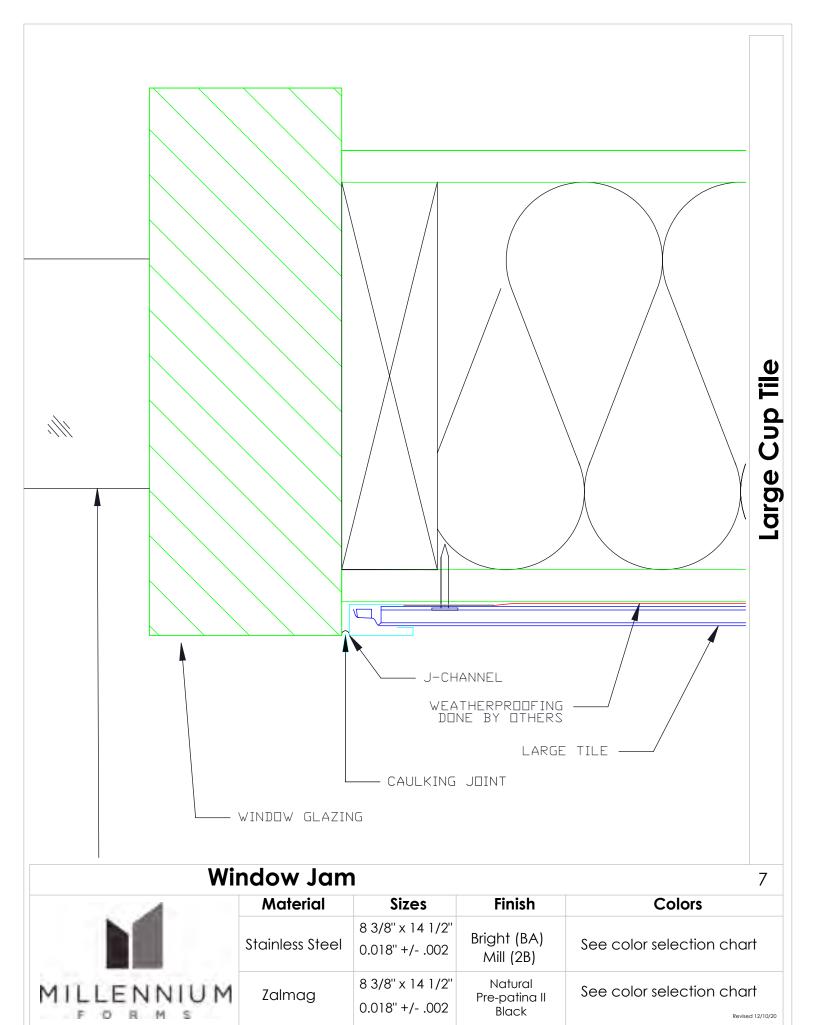


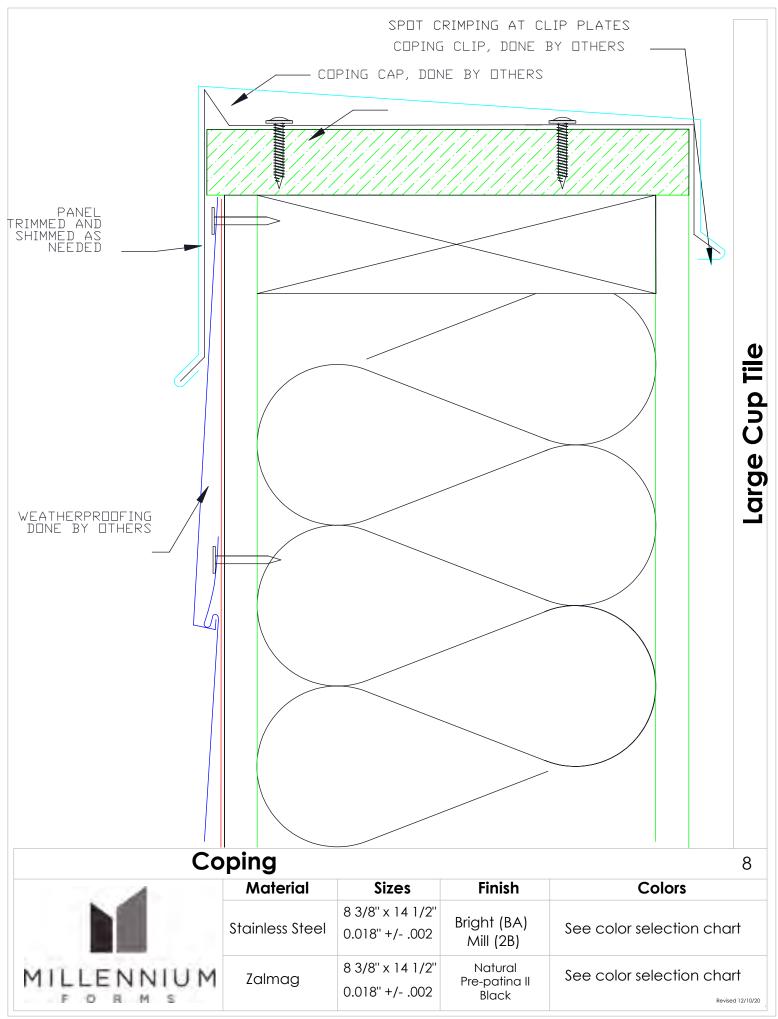


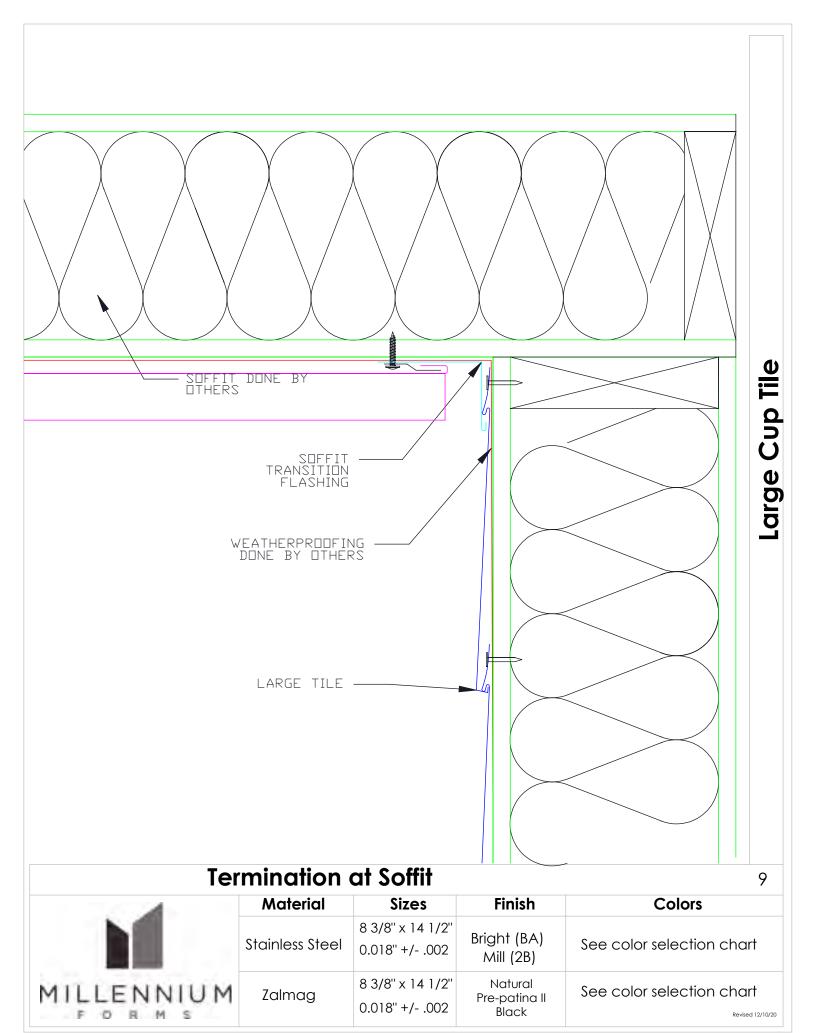
Stc	irter/False	Starter		4	
70.24	Material	Sizes	Finish	Colors	
	Stainless Steel	8 3/8" x 14 1/2" 0.018" +/002	Bright (BA) Mill (2B)	See color selection chart	
MILLENNIUM	Zalmag	8 3/8" x 14 1/2" 0.018" +/002	Natural Pre-patina II Black	See color selection chart	

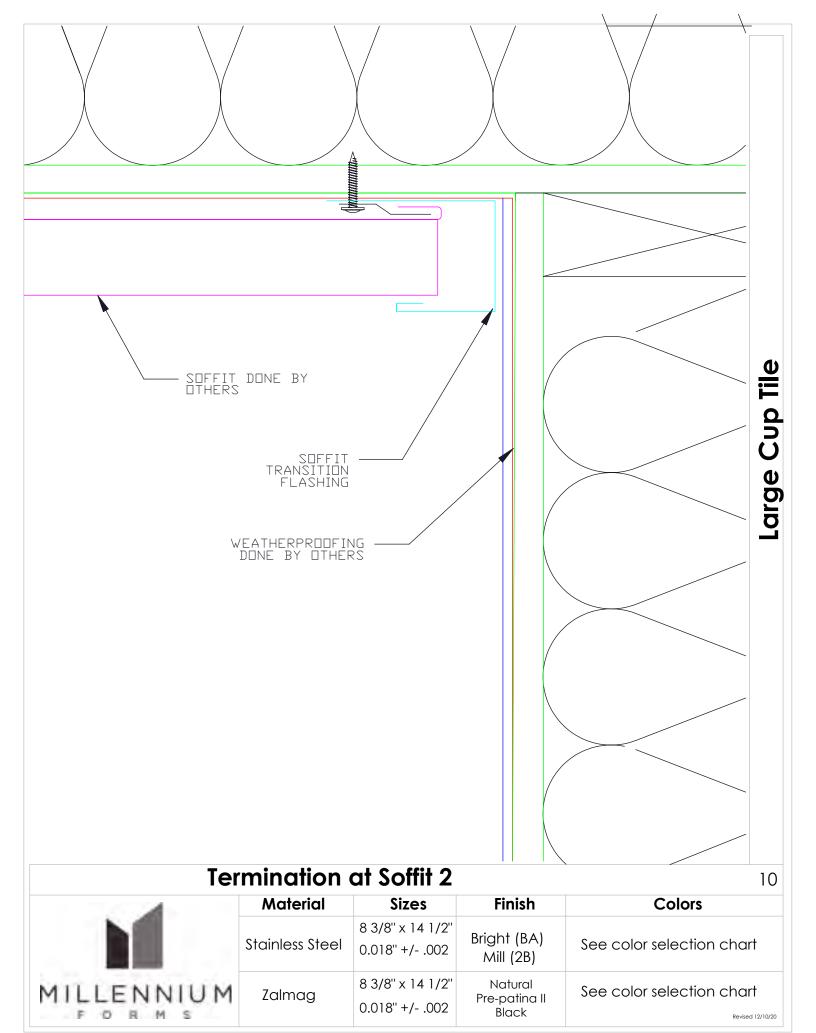


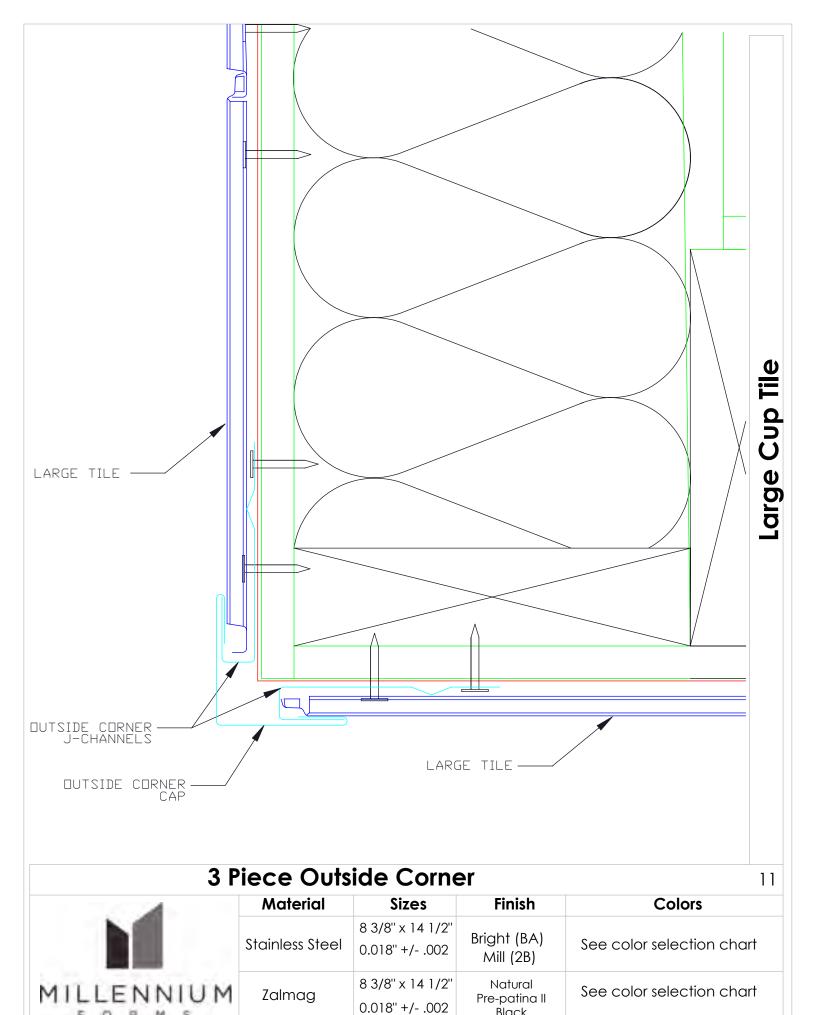




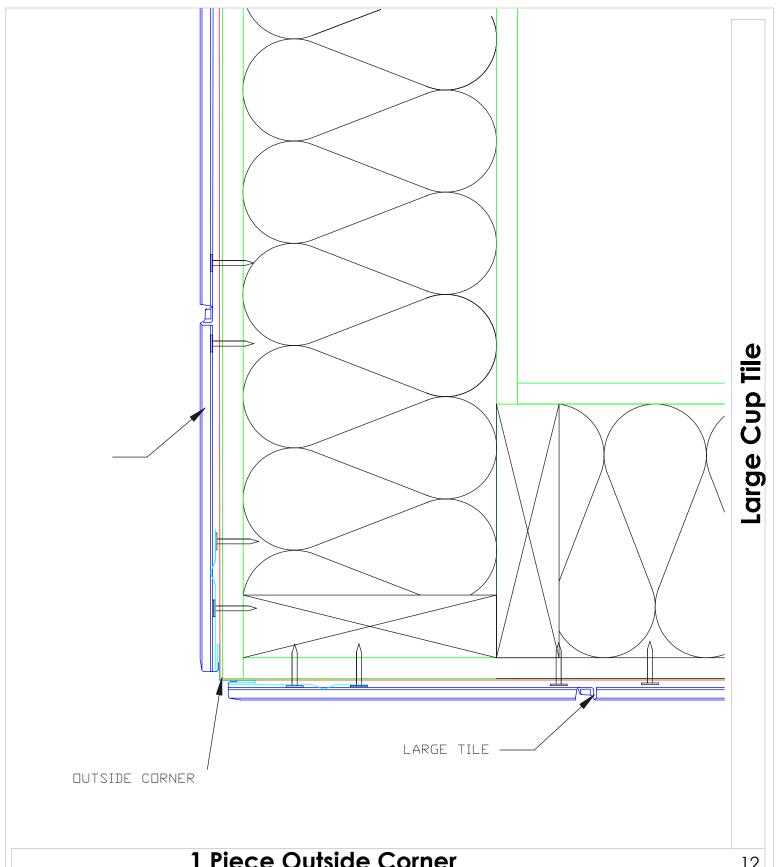




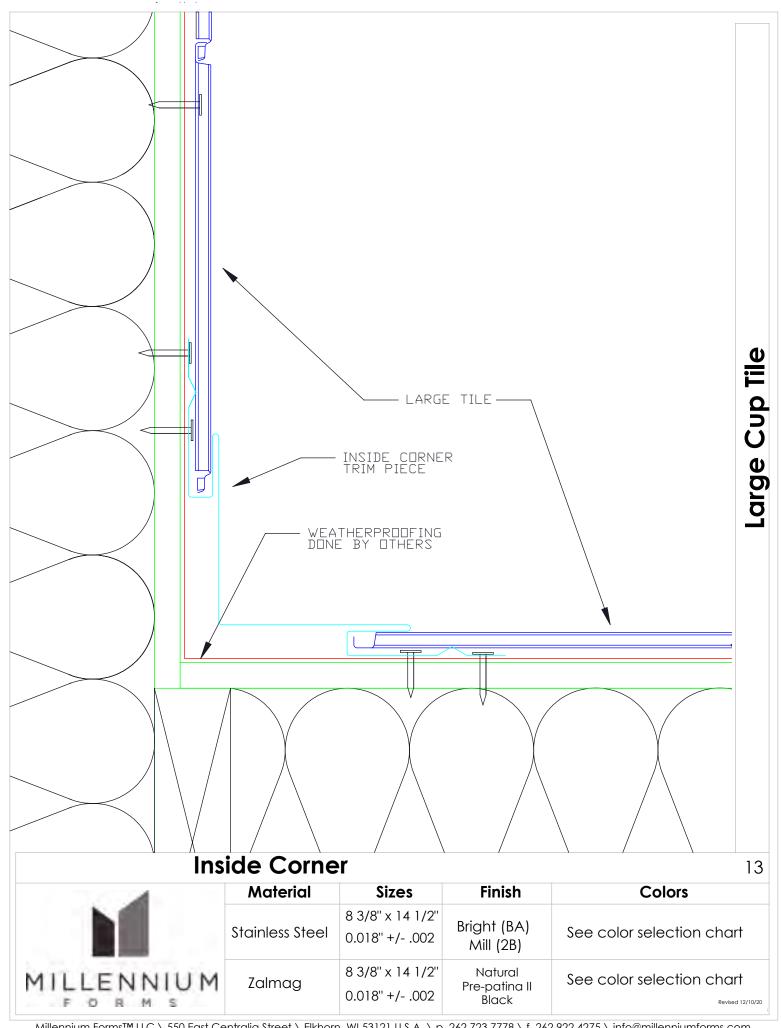


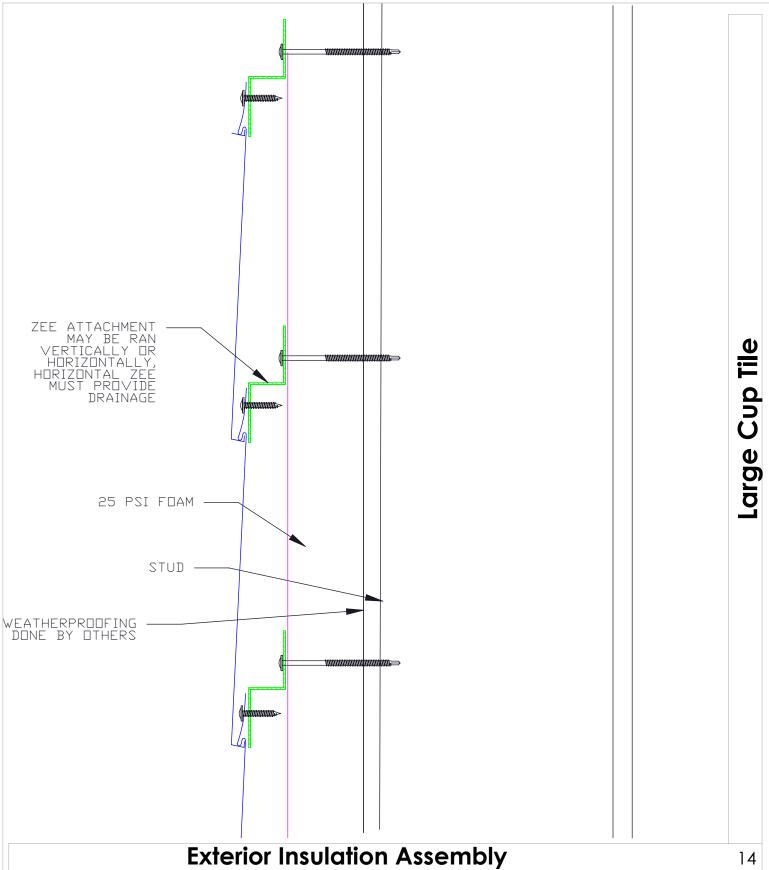


Black

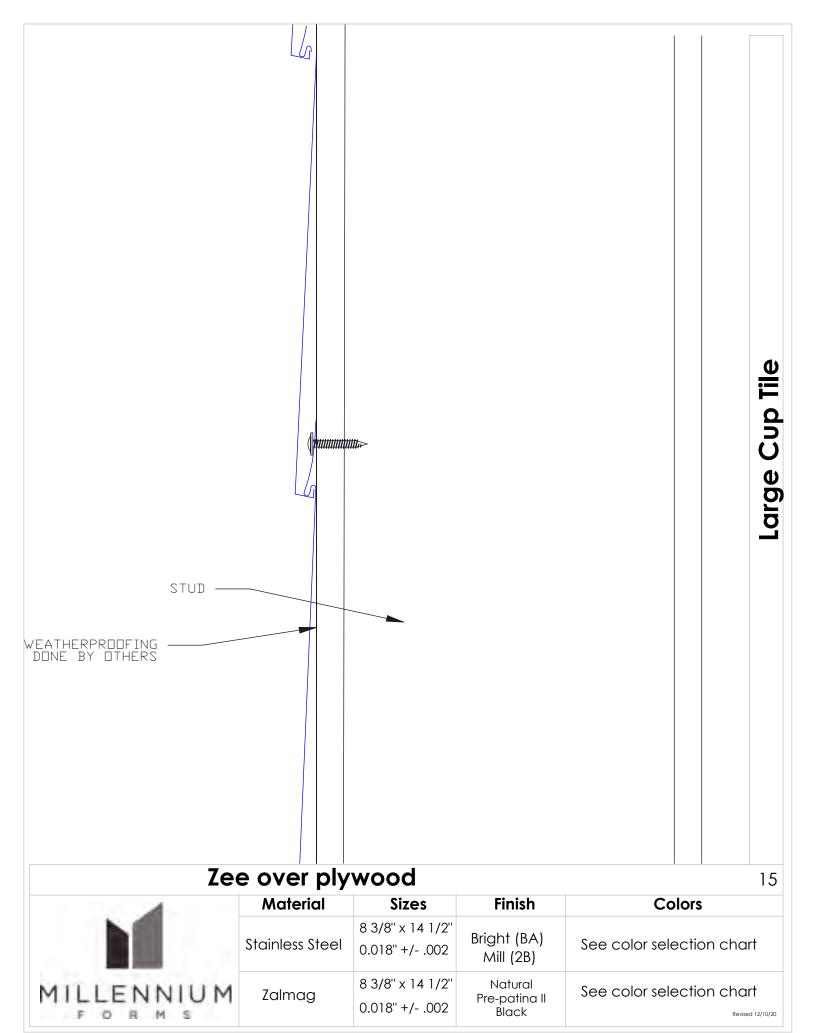


i riece ouiside comer						
24	Material	Sizes	Finish	Colors		
	Stainless Steel	8 3/8" x 14 1/2" 0.018" +/002	Bright (BA) Mill (2B)	See color selection chart		
MILLENNIUM	Zalmag	8 3/8" x 14 1/2" 0.018" +/002	Natural Pre-patina II Black	See color selection chart		





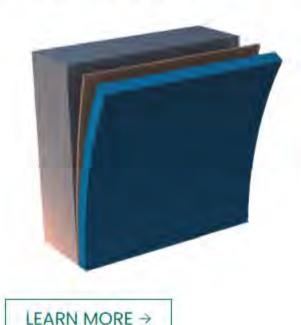
Exterior Insulation Assembly					
4	Material	Sizes	Finish	Colors	
	Stainless Steel	8 3/8" x 14 1/2" 0.018" +/002	Bright (BA) Mill (2B)	See color selection chart	
MILLENNIUM	Zalmag	8 3/8" x 14 1/2" 0.018" +/002	Natural Pre-patina II Black	See color selection chart	

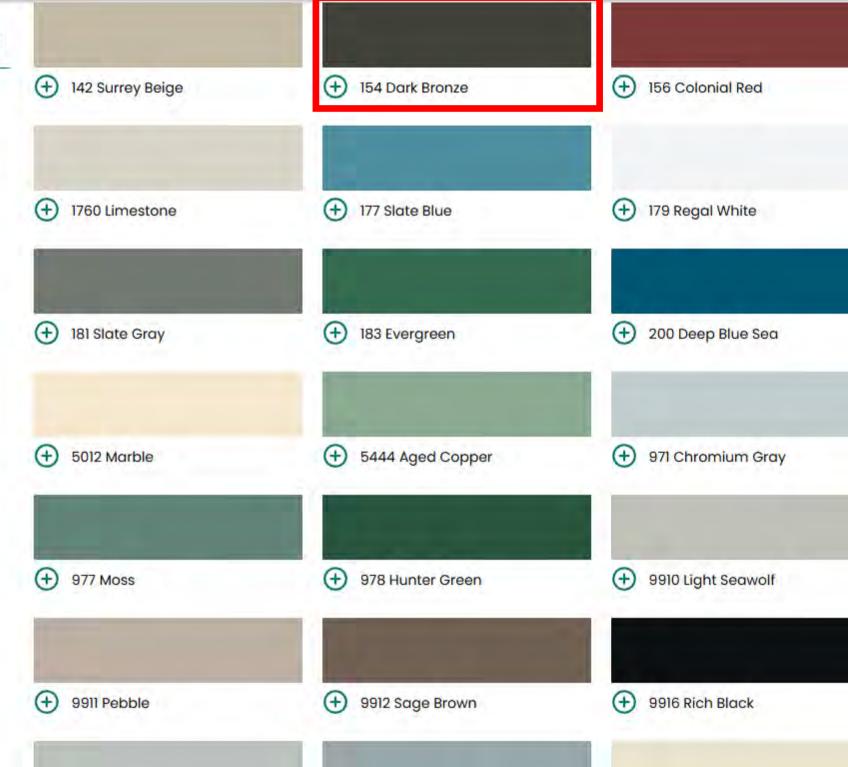


PRISMATIC™ SOLID COLOR SERIES

CENTRIA offers a popular line of durable, solid-color coatings made to last. Premium high-build architectural finishes deliver reliable color retention and fade resistance. Prismatic Series is available in a wide range of standard colors in Fluorofinish® color systems.

Note: Prismatic in Duragard®, Duragard® Plus, and Fluorofinish® Coastal color systems may be subject to a *minimum quantity fee*. Contact your sales representative for details.





9918 Dove Gray

9917 Light Gray

992 Lee Ivory



FORMAWALL DIMENSION SERIES® **TECHNICAL DATA SHEET**





2" [51]

DESCRIPTION

Formawall Dimension Series panels provide a modern, monolithic appearance to the building façade. This system works as a single component to provide all necessary building control layers along with an outstanding aesthetic. Formawall Dimension Series panels integrate easily with our window, louver and sunshade systems to provide a complete building envelope system. This system provides an uninterrupted appearance in horizontal and vertical applications with concealed clips, fasteners, sealants, and the optional Insulated Metal Vertical (IMV) joint.

GENERAL DESIGN OPTIONS

	FORMAWALL	DIMENSIOI	N SE	RIES		
PANEL THICKNESS	2" [51mm], 2½" [64mm], 3"-T [76mm]					
PANEL MODULE	24" [610mm], 30" [762mm], 36" [914mm] Custom Modules: 10" [254mm] - 40" [1016mm]					
PANEL CORE	Red List-free, Foamed-in-placed polyisocyanurate (PIR)					
		U Factor BTU/hr•ft²•°F		R Value hr•ft²•°F/BTU		
THERMAL VALUES +	2"	0.069		16.0		
	2½"	0.056		20.1		
	3"-T	0.045		24.1		
END JOINT	5/8" Insulated Metal Vertical (IMV) Joint (Optional: 1", 2", 3" IMV or 5/8" Gasket)					
SIDE LAP	Double tongue and groove; pressure equalized					
SIDE LAP REVEAL	½" Horizontal ½" Vertical					
	Optional Reveal: ¼", 1" to 6" in ½" increments					
	Embossed		Flat - 5' [1.52m] - 37' [11.3m]			
	Lilibossed	Striated - 5' [1.52m] - 37' [11				
STANDARD PANEL LENGTHS °	Smooth	Flat - 5' [1.52m] - 16' [4.9m]				
	304 Stainless		Striated - 5' [1.52m] - 20' [6.1m]			
	(Exterior only)		Flat - 5' [1.52m] - 16' [4.9m]			
STANDARD EXTERIOR FACE & GAUGE	22 ga. Embossed, Flat					
OPTIONAL EXTERIOR FACE & GAUGE	20 ga. Embossed, Flat, 20, 22, 24 ga. Embossed, Striated, 20, 22 ga. Smooth, Flat or Striated					
STANDARD INTERIOR LINER & GAUGE	26 ga. Embossed*, Planked					
OPTIONAL INTERIOR LINER & GAUGE	20, 22 ga. Embossed, Planked 20, 22 ga. Embossed, Flat 20, 22 ga. Smooth, Planked					
	2"		2.	2.72-4.57 lbs./sq. ft.		
WEIGHTS	2½"		_	2.88-4.81 lbs./sq. ft.		
	3"-T		3.	3.03-5.06 lbs./sq. ft.		

CENTRIA.COM

^{* 2&}quot; smooth exterior panels require 22 ga. non-planked/flat liner + U-Factor & R-Value per ASTM C1363/simulation & ASTM C518 and based on a mean temperature of 35° F; Standard I-P unit convention shown. ° Panel lengths may be limited from standard offerings based on color & thermal movement; contact CENTRIA for assistance.

FORMAWALL DIMENSION SERIES DESIGN FEATURES & BENEFITS

- May be installed horizontally or vertically and is available in a variety of reveals, thicknesses and profiles
- Concealed clips, fasteners and sealants, combined with optional Insulated Metal Vertical (IMV)
 joints, provide an uninterrupted appearance in horizontal applications
- Pressure-equalized side joint to help prevent water infiltration
- Pressure-equalized end joint available with optional Seal Plate
- Unlike laminated insulated metal panels, Formawall Dimension Series is factory foamed inplace, minimizing the potential for gaps within the panel
- Can be integrated with other Formawall profiles to create unique looks



FORMAWALL DIMENSION SERIES TESTING

TEST	EST TEST METHOD		TEST TITLE	RESULTS			
DDD FIRE L		ASTM E84	Surface Burning Characteristics of Building Materials	Flame Spread <20 Smoke Development <250			
		ASTM E119/UL 263	Fire Tests of Building Construction and Materials	See UL Fire Resistance Directory for tested assemblies			
		NFPA 259	Standard Test Method for Potential Heat of Building Materials		Potential heat of foam plastic insulation contain in the assembly tested in accordance with NFP, 285		
	FIRE US	NFPA 285	Evaluation of Fire Propagation Characteristics of Exterior Non-Load Bearing Wall Assemblies		Various tested assemblies meet the requirements of the standard		
		NFPA 286	Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth	Test spec 803.1.2.1	Test specimen met the criteria of the IBC Section 803.1.2.1		
		FM 4880	Class 1 Fire Rating of Insulated Wall, Ceiling and Roof Panels	See FM /	See FM Approval Listings		
		FM 4882	Class 1 Interior Wall and Ceiling Materials for Smoke Sensitive Occupancies	See FM A	See FM Approval Listings		
STRUCTURAL		ASTM E72/E330	Standard Test Methods of Conducting Strength Tests of Panels for Building Construction	See Span Tables			
		FM 4881	Class 1 Exterior Wall Structural Performance	See FM Approval Listings (VSH Rating)			
	THERMAL PERFORMANCE	ASTM C518	Steady-State Thermal Transmission Properties by Means of the Heat-Flow Meter Apparatus*		U-Factor BTU/hr•ft²•°F	R-Value hr•ft²•°F/BTU	
			by Means of the Heat-Flow Meter Apparatus	2"	0.069	16.0	
		ASTM C1363	Thermal Performance of Building Materials and	2½"	0.056	20.1	
			Envelope Assemblies*	3"	0.045	24.1	
		ASTM E283	Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors	< 0.01 cfm/ft² air infiltration rate at stati differential of 6.24 psf		rate at static pressure	
AIR INFILTRATION		ASTM E2357	Air Leakage of Air Barrier Assemblies	<0.04 cfm/ft2 air infiltration rate at static pressul differential of 1.57 psf, after 2,000 cycles at +/- 16 psf Vertical or Horizontal installation; with and without penetrations		2,000 cycles at +/- 16.71	
WATER INFILTRATION	ASTM E331	Water Penetration of Exterior Windows, Skylights, Doors and Curtain Walls by Uniform Static Air Pressure Difference	No uncontrolled water penetration at static pressure differential of 6.24 psf for 2 hours (IBC Section 1402) and 15 psf for 15 minutes		osf for 2 hours (IBC		
	INFILTRATION	AAMA 501.1	Standard Test Method for Water Penetration of Exterior Walls Using Dynamic Pressure	No leakage at a dynamic pressure of 15 psf for 15 minutes		ssure of 15 psf for 15	
	ACOUSTICAL	ASTM E 90 & ASTM	Airborne Sound Transmission Loss of Building Partitions	Assemblies available ranging from STC= 23 to 45 & OITC= 23 to 34; Contact CENTRIA for assistance			
		E 413	Classification for Rating Sound Insulation				

^{*}U-Factor per ASTM C1363/Simulation & ASTM C518 and based on a mean temperature of 35° F; Standard I-P unit convention shown.

SPECIAL APPROVALS

- CCRR Intertek Code Compliance Research Report (Intertek CCRR-0276)
- Florida Product Approval HVHZ (Miami-Dade NOA) (Approval No. FL20381 and FL31378)
- Florida Product Approval non-HVHZ (Approval No. FL31378)

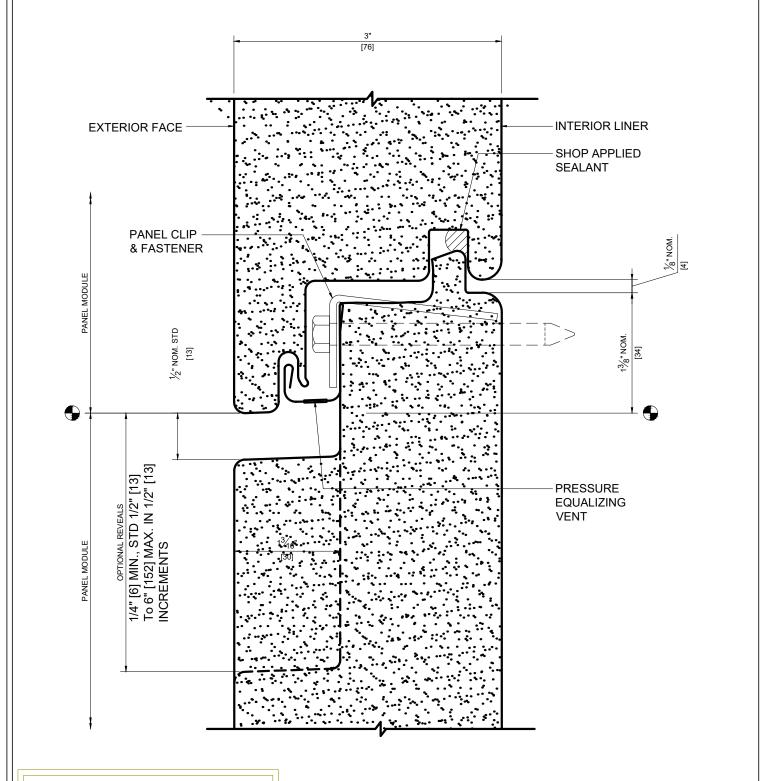
NOTES

- A. For information on special applications, contact your local CENTRIA Sales Representative.
- B. Maximum support spacing and panel length may be limited for medium and dark colors due to thermal stress, consult CENTRIA.
- C. Length limitations may vary based on color. Contact CENTRIA for details.

DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 1



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USED FOR CONSTRUCTION PURPOSES.

HORIZONTAL IMV APPLICATION

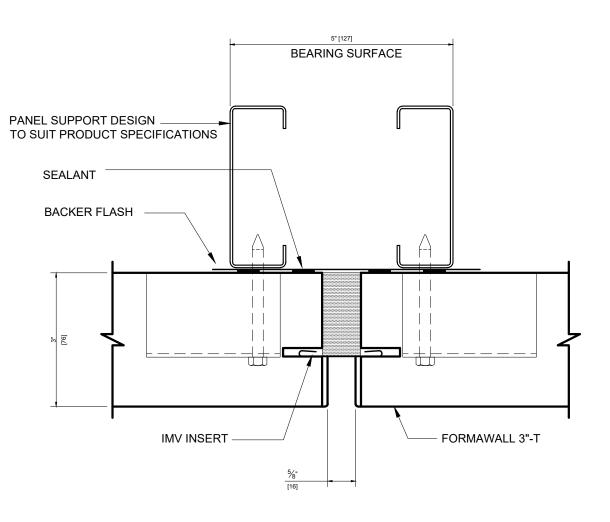
HORIZONTAL JOINT DIMENSION SERIES 3" (76mm)- T



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 2



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USED FOR CONSTRUCTION PURPOSES.

HORIZONTAL IMV APPLICATION

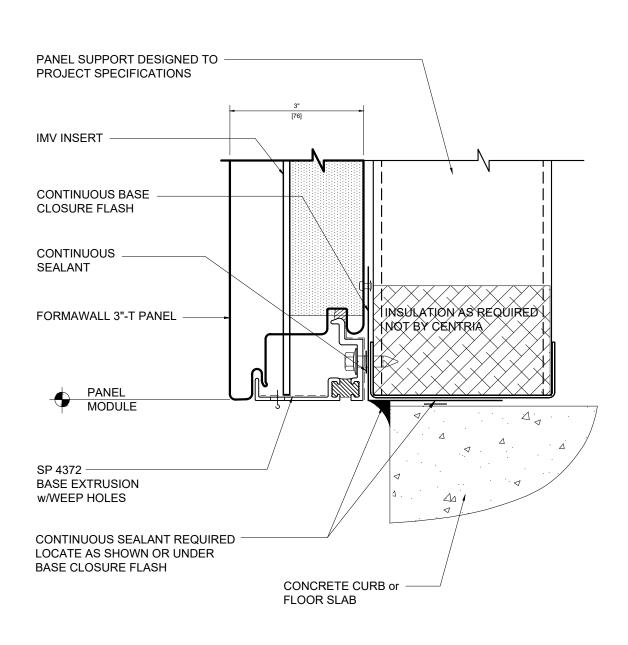
3" T IMV VERTICAL JOINT



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 3



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HORIZONTAL IMV APPLICATION

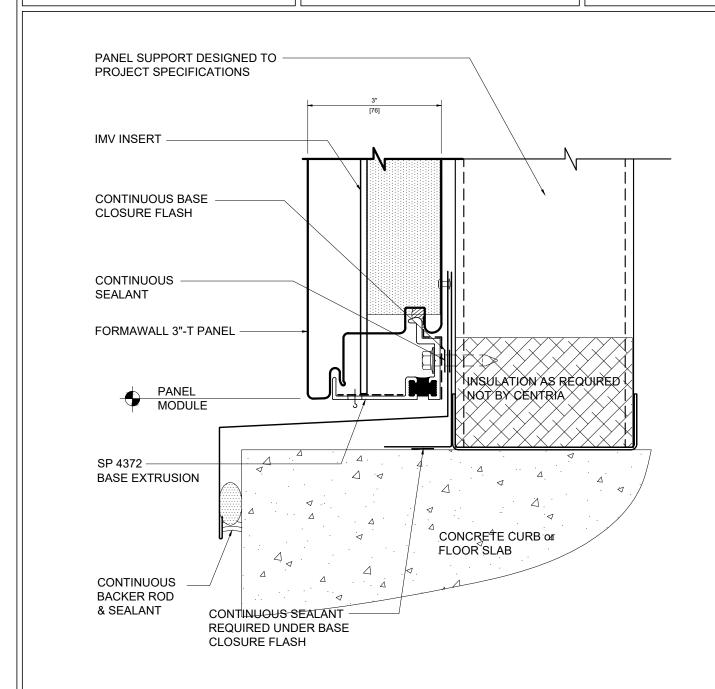
3" T IMV BASE - AT SLAB - ON MODULE



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 3A



*DETAILS SHOWN ARE FOR PROMOTIONAL USE <u>ONLY</u>. THESE DETAILS SHOULD NOT FOR ANY REASON BE USED FOR CONSTRUCTION PURPOSES.

HORIZONTAL IMV APPLICATION

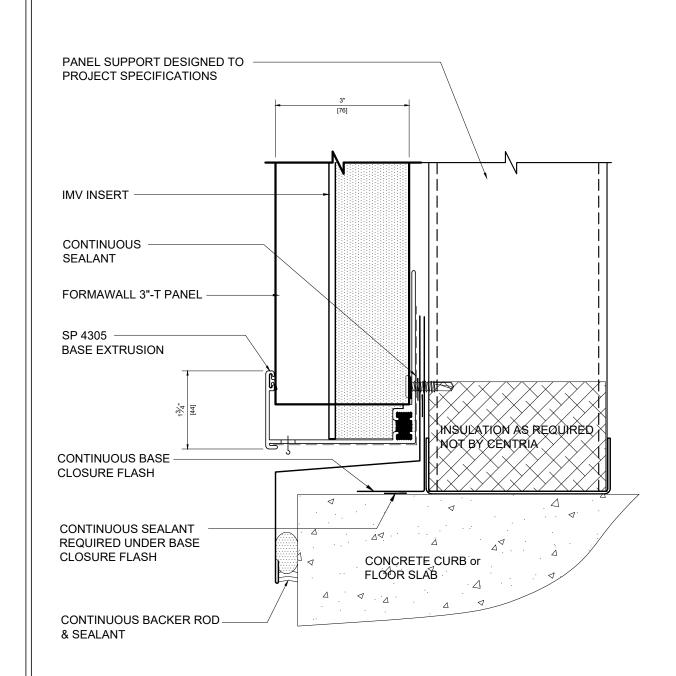
3" - T IMV BASE - AT CURB -ON MODULE



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 3B



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HORIZONTAL IMV APPLICATION

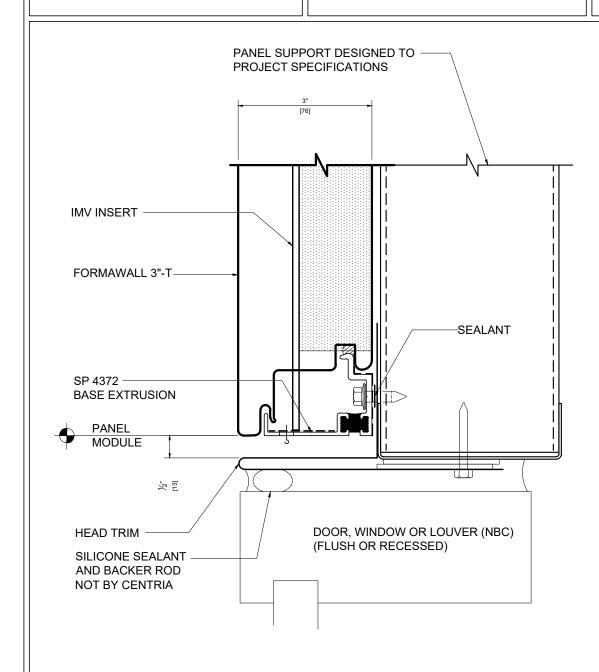
3" - T IMV BASE - AT SLAB -OFF MODULE



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 4



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USED FOR CONSTRUCTION PURPOSES.

NOTE: SEE CENTRIA INTEGRATED WINDOW AND LOUVER DETAIL FOR "TRIMLESS" OPTION.

HORIZONTAL IMV APPLICATION

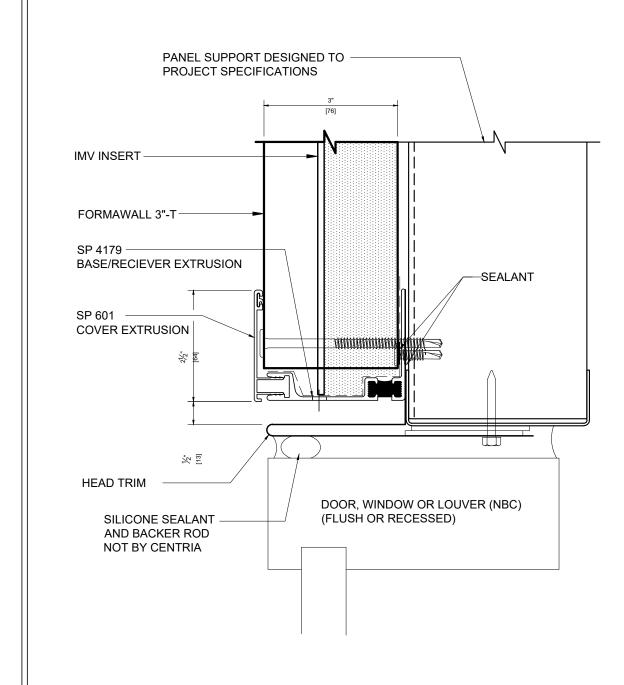
3" - T IMV HEAD ON MODULE



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 4A



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NOTE: SEE CENTRIA INTEGRATED WINDOW AND LOUVER DETAIL FOR "TRIMLESS" OPTION.

HORIZONTAL IMV APPLICATION

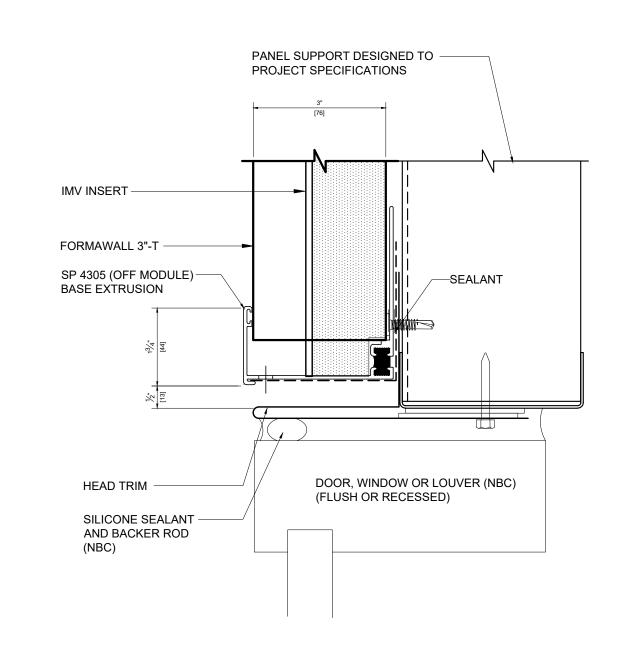
3" - T IMV HEAD - OUT PANEL



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 4B



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USED FOR CONSTRUCTION PURPOSES.

HORIZONTAL IMV APPLICATION

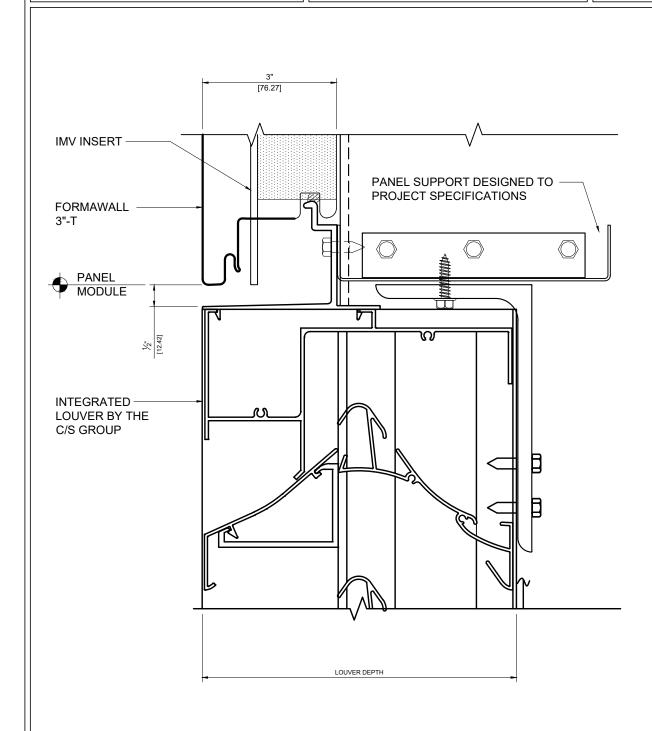
3" - T IMV HEAD - OUTPANEL



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 4C



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NOTE:

CONTACT CENTRIA FOR INTEGRATED LOUVER OPTIONS, DESIGN MAY CHANGE ON JOB TO JOB BASIS.

HORIZONTAL IMV APPLICATION

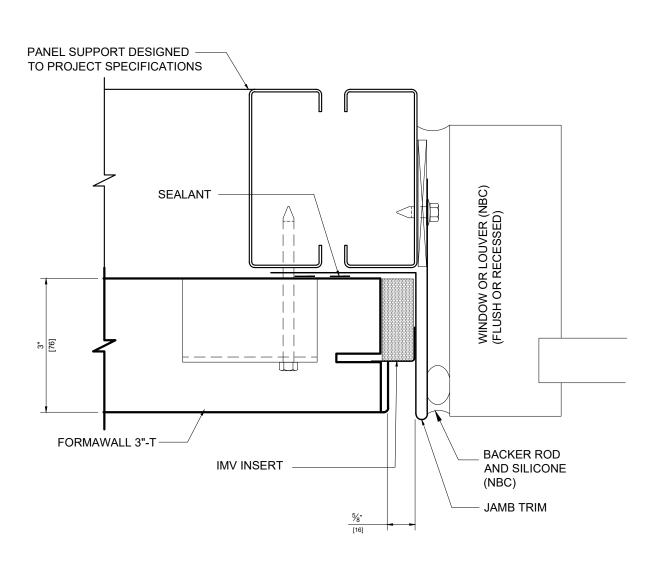
3" - T IMV LOUVER HEAD



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 5



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HORIZONTAL IMV APPLICATION

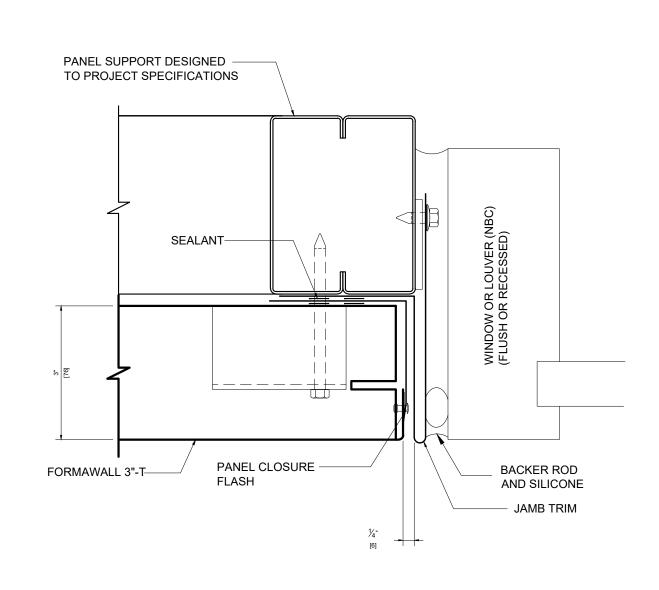
3" - T IMV JAMB



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 5A



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USED FOR CONSTRUCTION PURPOSES.

NOTE: SEE CENTRIA INTEGRATED WINDOW AND LOUVER DETAIL FOR "TRIMLESS" OPTION.

HORIZONTAL IMV APPLICATION

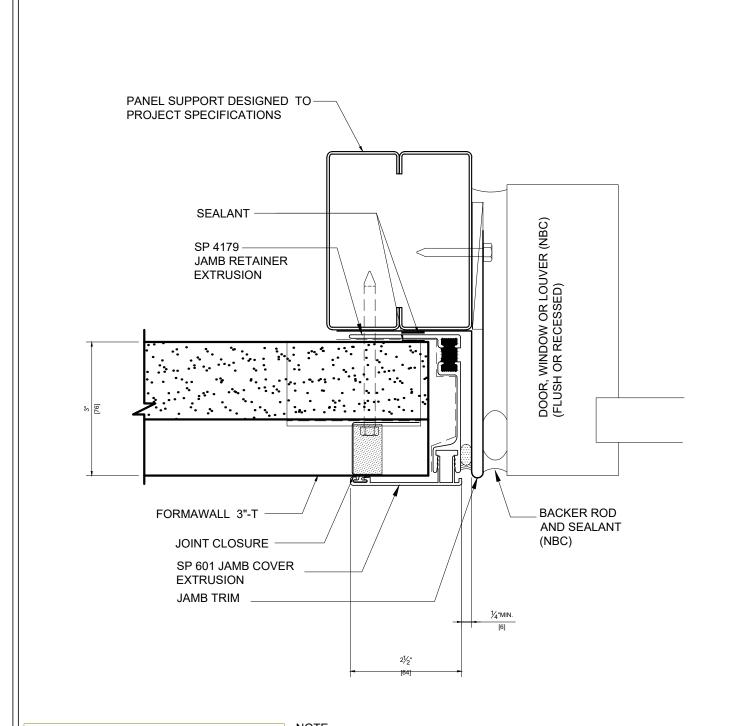
3" - T IMV JAMB



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 5B



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NOTE: SEE CENTRIA INTEGRATED WINDOW AND LOUVER DETAIL FOR "TRIMLESS" OPTION.

HORIZONTAL IMV APPLICATION

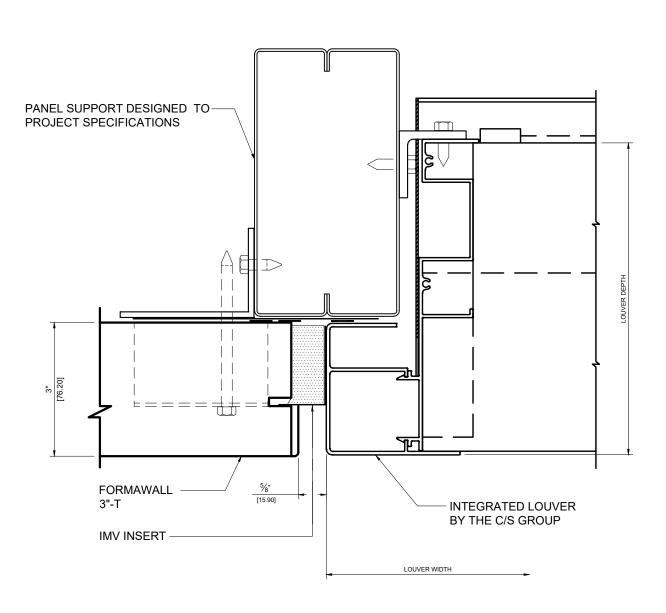
3" - T IMV JAMB - CUT PANEL EXTRUDED



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 5C



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HORIZONTAL IMV APPLICATION

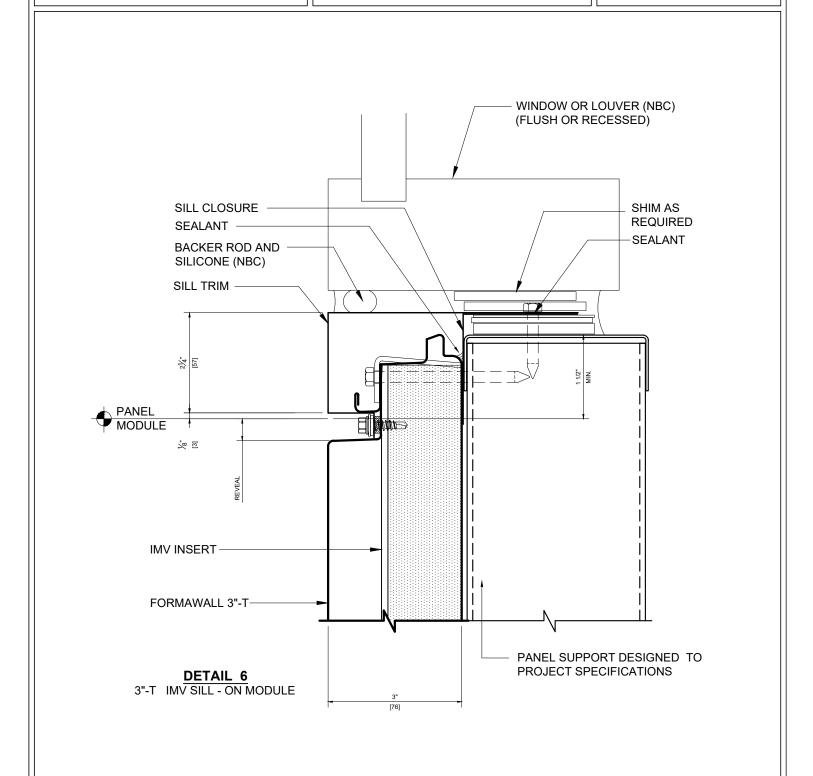
3" - T IMV LOUVER JAMB



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 6



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USED FOR CONSTRUCTION PURPOSES.

NOTE: SEE CENTRIA INTEGRATED WINDOW AND LOUVER DETAIL FOR "TRIMLESS" OPTION.

HORIZONTAL IMV APPLICATION

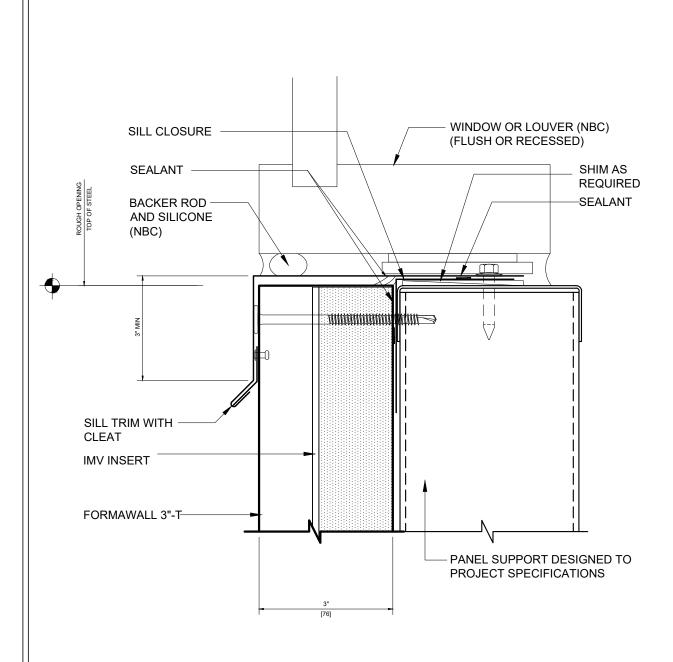
3" - T IMV SILL - ON MODULE



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 6A



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USED FOR CONSTRUCTION PURPOSES.

NOTE: SEE CENTRIA INTEGRATED WINDOW AND LOUVER DETAIL FOR "TRIMLESS" OPTION.

HORIZONTAL IMV APPLICATION

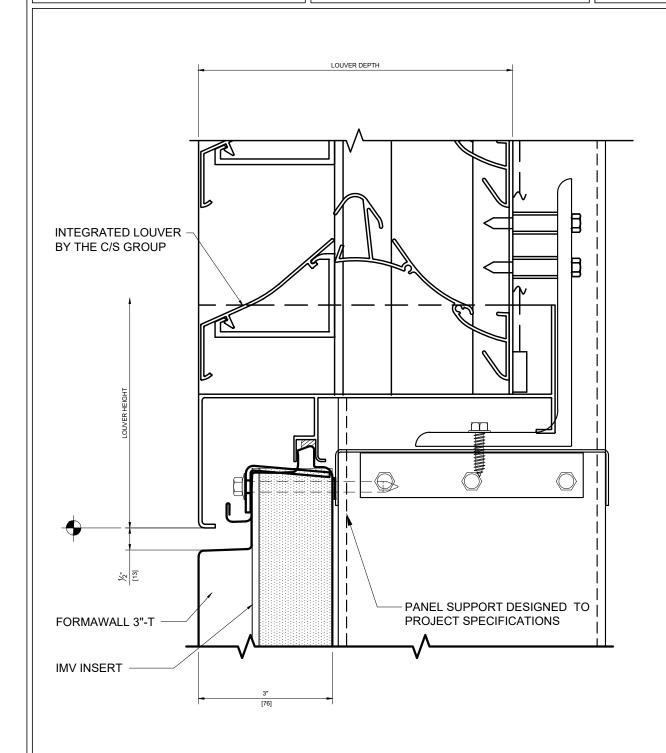
3" - T IMV OFF MODULE SILL



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 6B



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NOTE:

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HORIZONTAL IMV APPLICATION

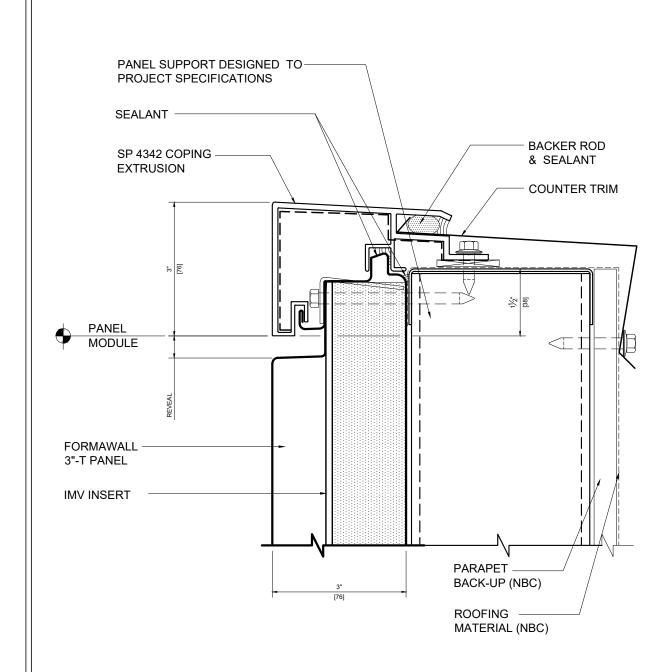
3" - T IMV LOUVER SILL



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 7



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USED FOR CONSTRUCTION PURPOSES.

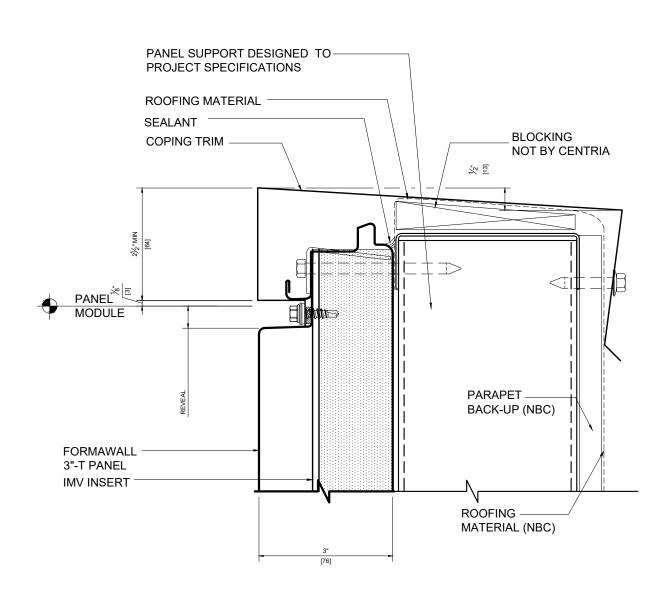
HORIZONTAL IMV APPLICATION

3" - T IMV PARAPET - EXTRUDED



PROMOTIONAL DETAIL:

DETAIL 7A



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HORIZONTAL IMV APPLICATION

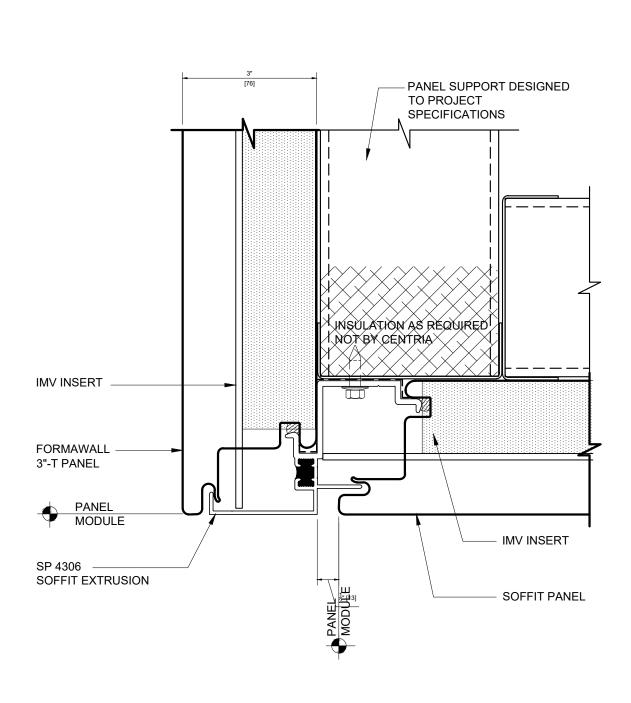
3" - T IMV PARAPET - FORMED METAL



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 8



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USED FOR CONSTRUCTION PURPOSES.

HORIZONTAL IMV APPLICATION

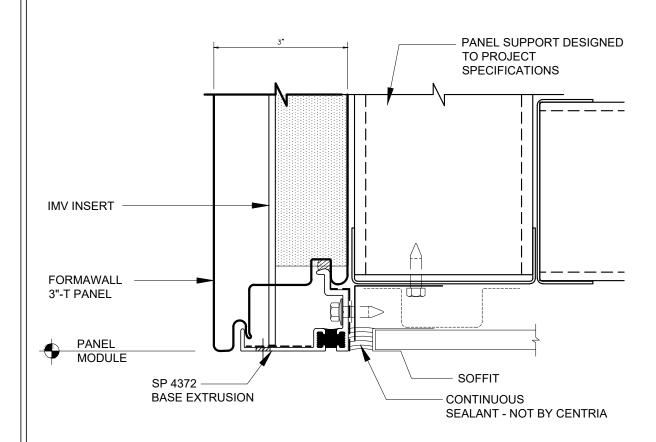
3" T IMV SOFFIT - -FRONT - ON MODULE



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 8A



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USED FOR CONSTRUCTION PURPOSES.

SOFFIT INSULATION AS REQUIRED NOT BY CENTRIA

HORIZONTAL IMV APPLICATION

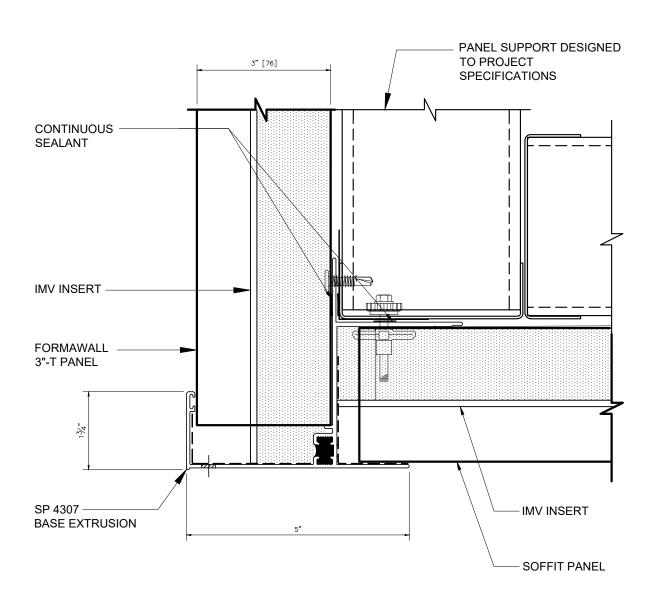
3" - T IMV SOFFIT - FRONT -BY OTHERS



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 8B



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HORIZONTAL IMV APPLICATION

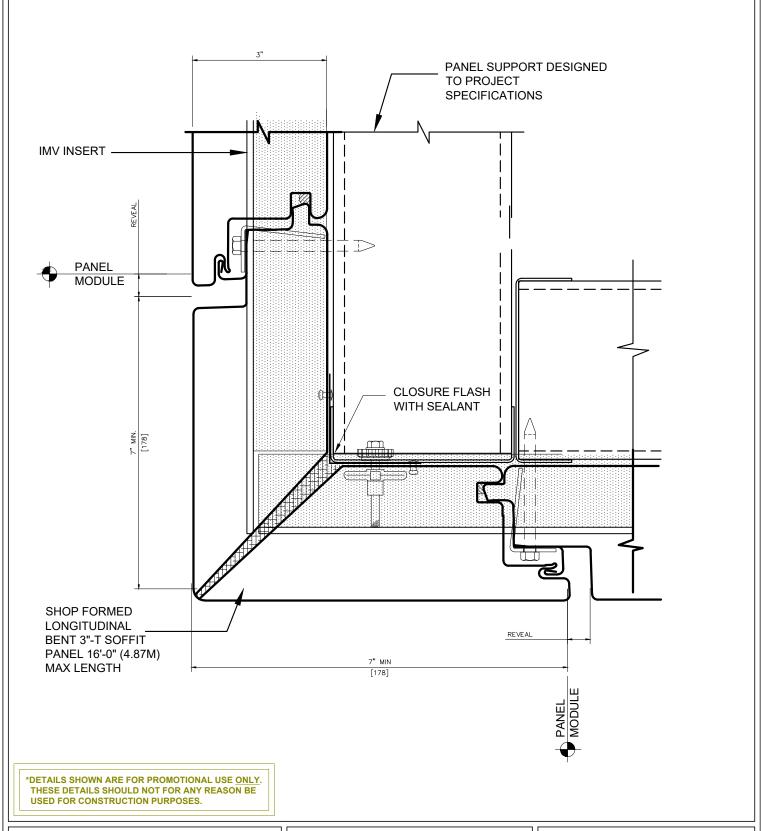
3" - T IMV SOFFIT - FRONT - OFF MODULE



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 8C



HORIZONTAL IMV APPLICATION

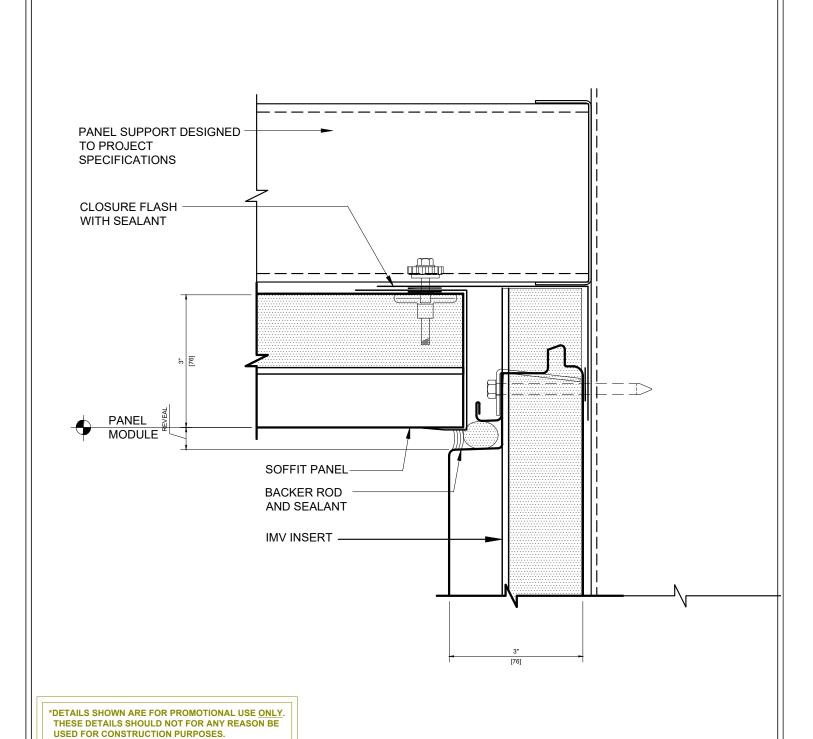
3" - T IMV SOFFIT -BENT PANEL



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 8D



HORIZONTAL IMV APPLICATION

3" - T IMV SOFFIT - REAR

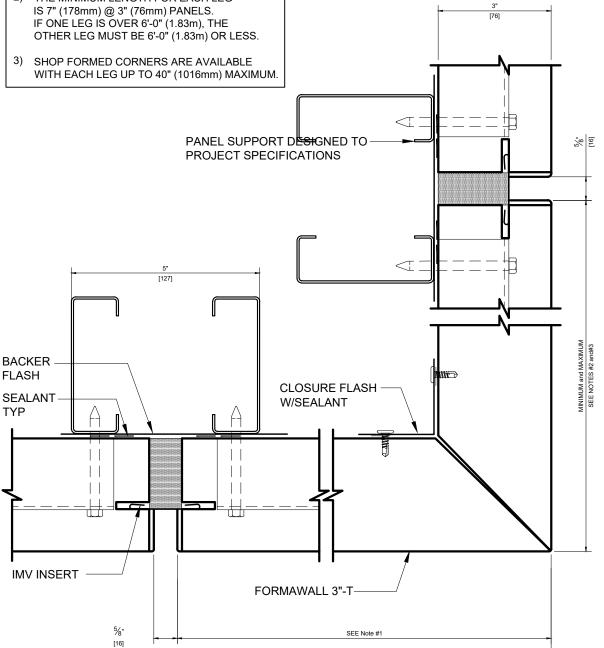


DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 9

- THE MAXIMUM UNSUPPORTED LENGTH FOR EACH LEG IS 3'-0" (.91m).
- 2) THE MINIMUM LENGTH FOR EACH LEG IS 7" (178mm) @ 3" (76mm) PANELS. IF ONE LEG IS OVER 6'-0" (1.83m), THE



*DETAILS SHOWN ARE FOR PROMOTIONAL USE ONLY. THESE DETAILS SHOULD NOT FOR ANY REASON BE **USED FOR CONSTRUCTION PURPOSES.**

HORIZONTAL IMV APPLICATION

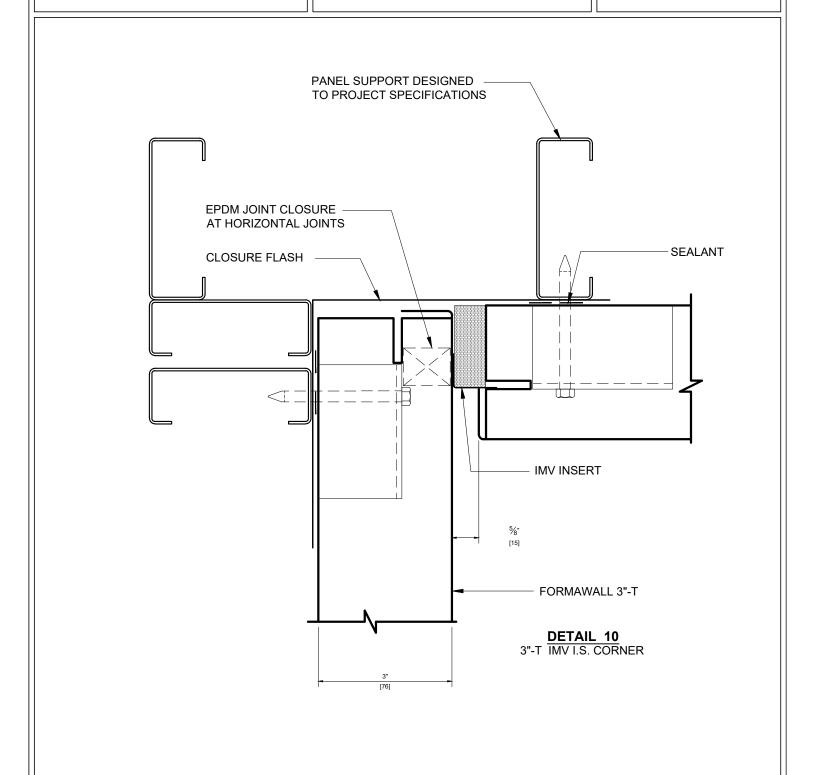
3" - T IMV OS CORNER - SHOP FORMED



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 10



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HORIZONTAL IMV APPLICATION

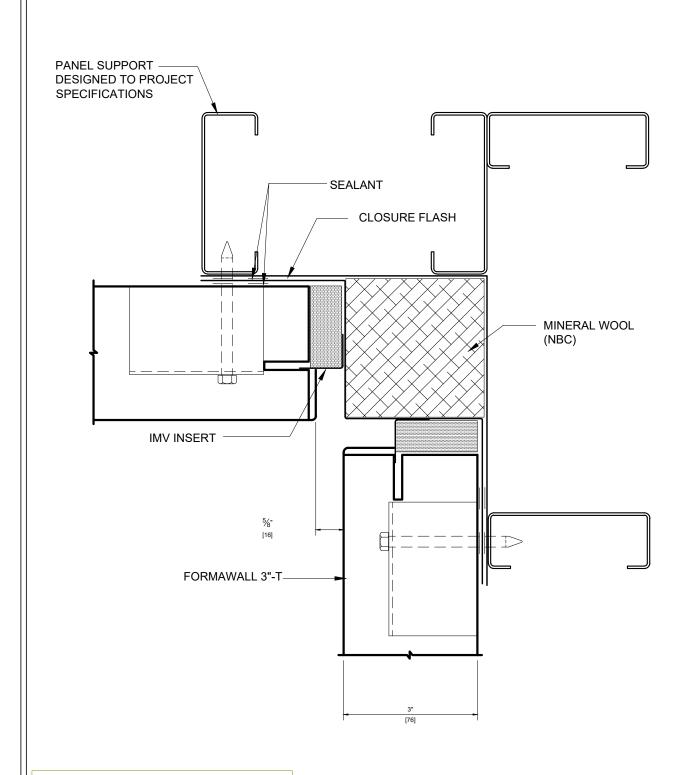
3" T IMV IS CORNER



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 10A



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USED FOR CONSTRUCTION PURPOSES.

NOTE: CONDITION CAN ALSO BE USED WITH FORMAVUE WINDOWS

HORIZONTAL IMV APPLICATION

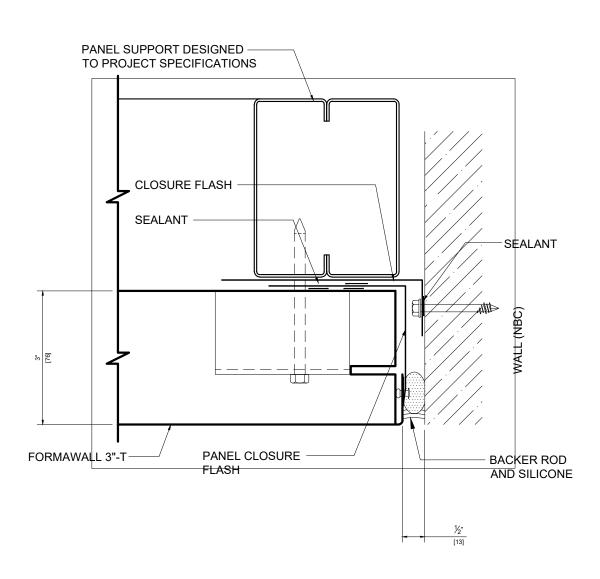
3" -T IMV IS CORNER - WITH INSULATION



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 11



*DETAILS SHOWN ARE FOR PROMOTIONAL USE <u>ONLY</u>.
THESE DETAILS SHOULD NOT FOR ANY REASON BE
USED FOR CONSTRUCTION PURPOSES.

HORIZONTAL IMV APPLICATION

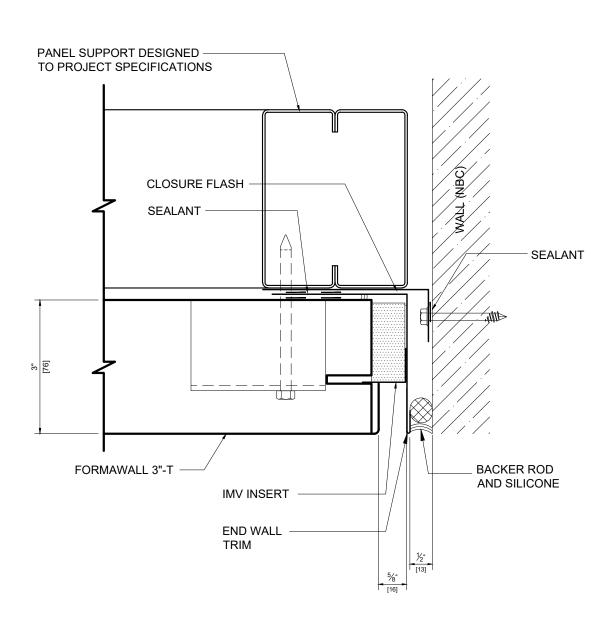
3" - T IMV - END WALL



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 11A



*DETAILS SHOWN ARE FOR PROMOTIONAL USE <u>ONLY</u>.
THESE DETAILS SHOULD NOT FOR ANY REASON BE
USED FOR CONSTRUCTION PURPOSES.

HORIZONTAL IMV APPLICATION

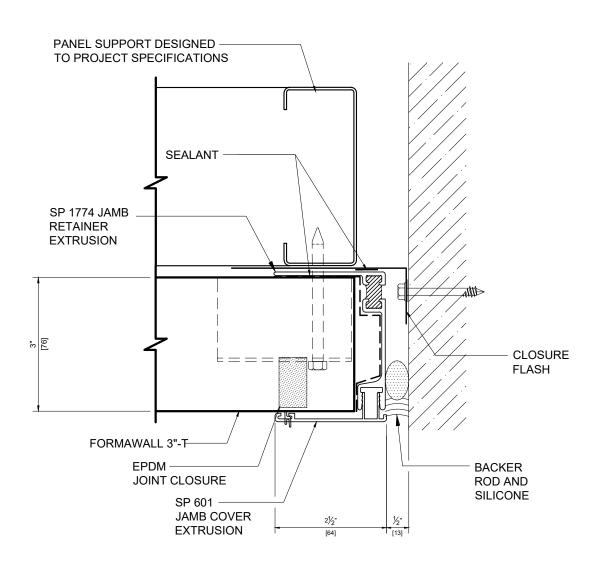
3" - T IMV - END WALL



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 11B



*DETAILS SHOWN ARE FOR PROMOTIONAL USE <u>ONLY</u>. THESE DETAILS SHOULD NOT FOR ANY REASON BE USED FOR CONSTRUCTION PURPOSES.

HORIZONTAL IMV APPLICATION

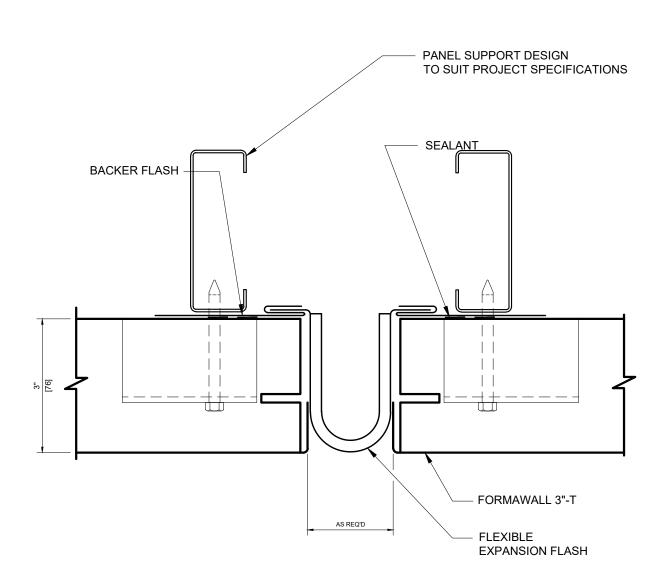
3" - T IMV - END WALL



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 13



*DETAILS SHOWN ARE FOR PROMOTIONAL USE <u>ONLY</u>.
THESE DETAILS SHOULD NOT FOR ANY REASON BE
USED FOR CONSTRUCTION PURPOSES.

HORIZONTAL IMV APPLICATION

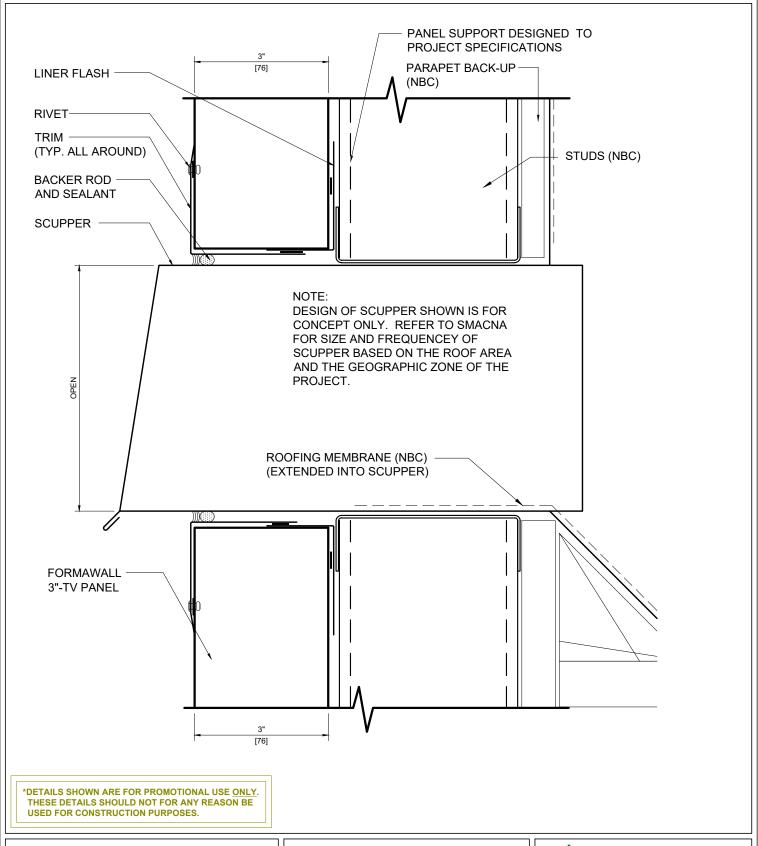
3" - T IMV - EXPANSION JOINT



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 14



HORIZONTAL IMV APPLICATION

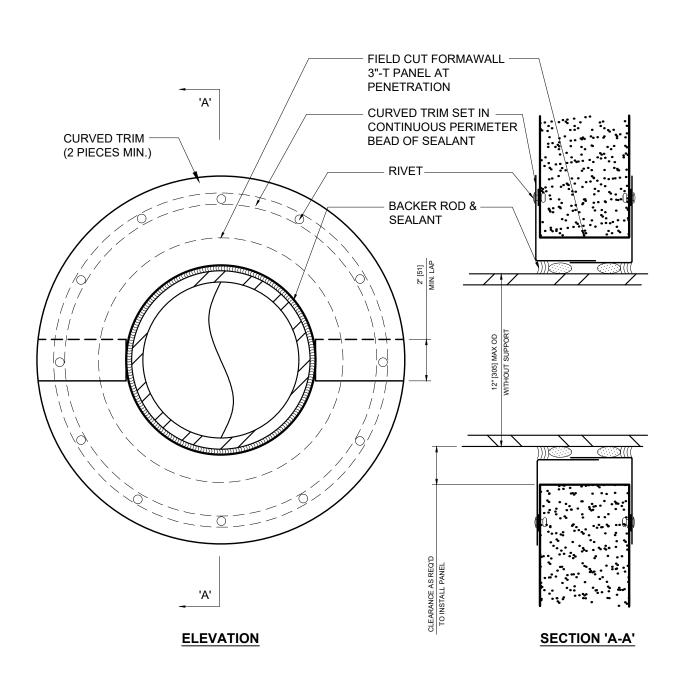
3" - T IMV - SCUPPER



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 15

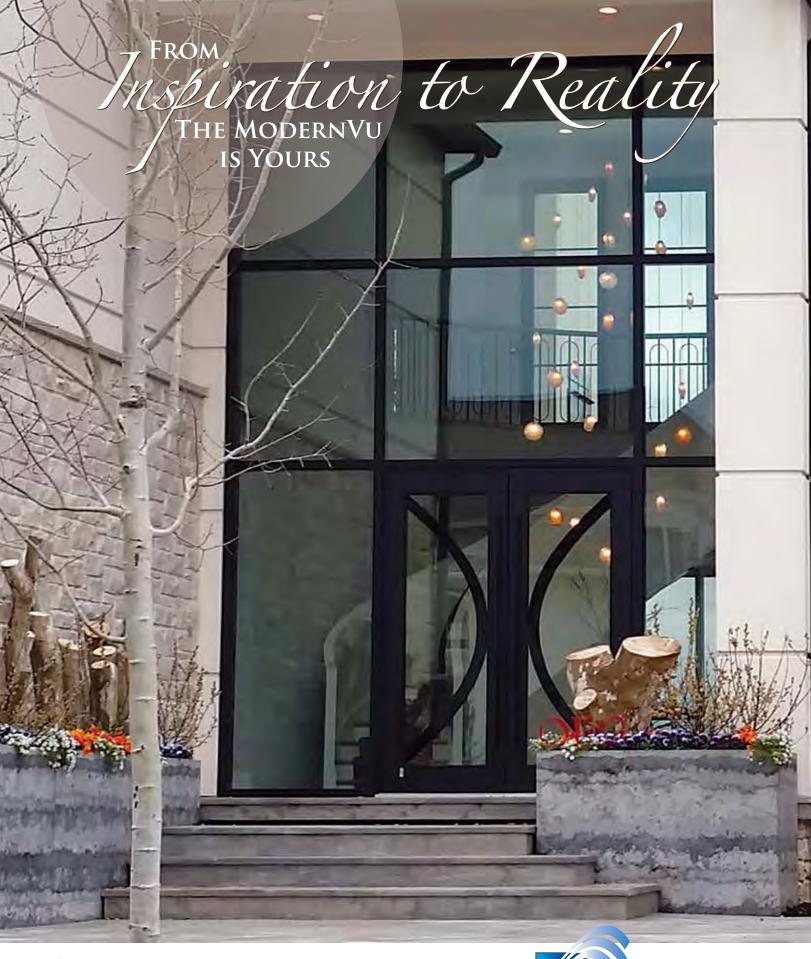


*DETAILS SHOWN ARE FOR PROMOTIONAL USE <u>ONLY</u>. THESE DETAILS SHOULD NOT FOR ANY REASON BE USED FOR CONSTRUCTION PURPOSES.

HORIZONTAL IMV APPLICATION

PIPE PENETRATION









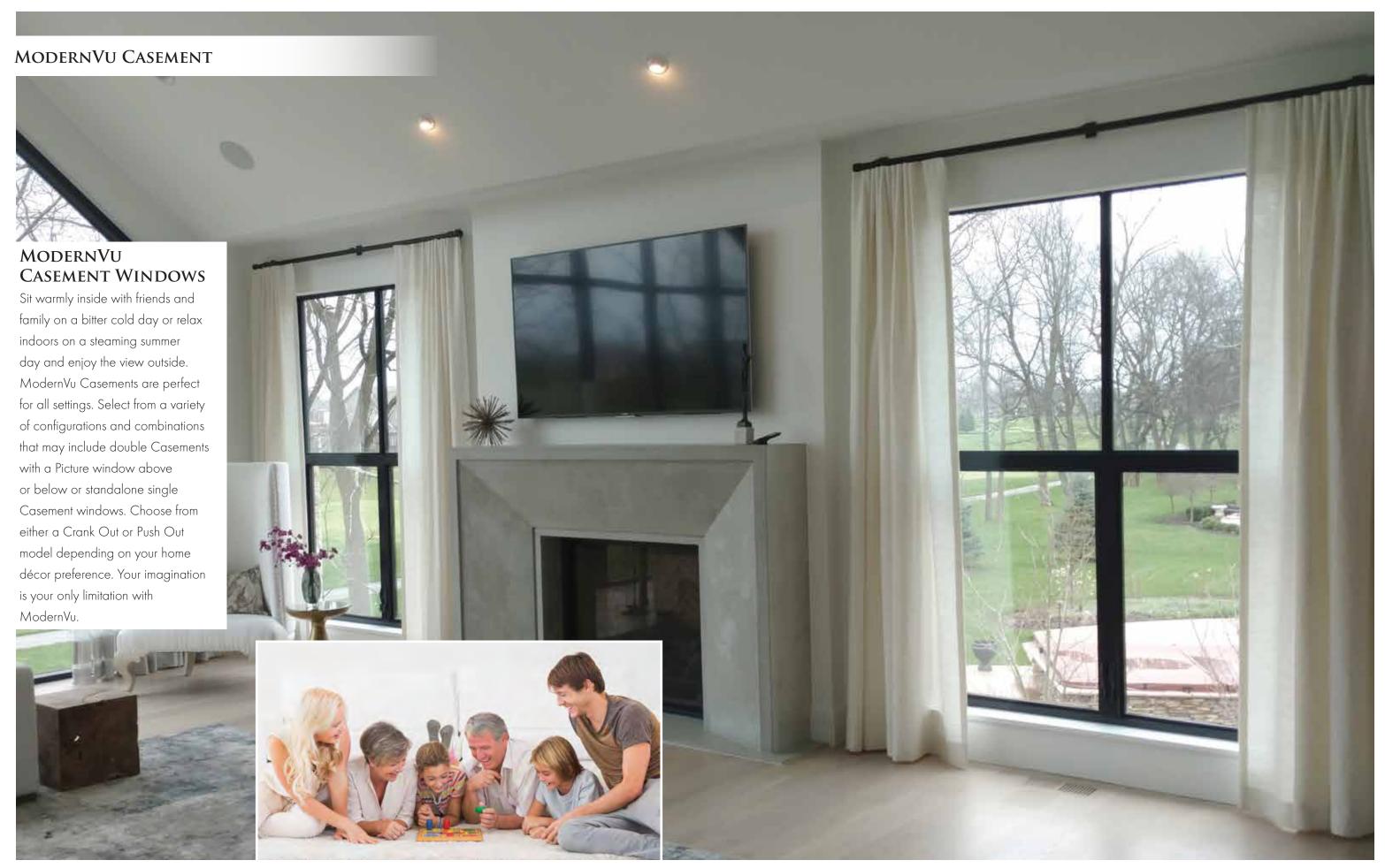


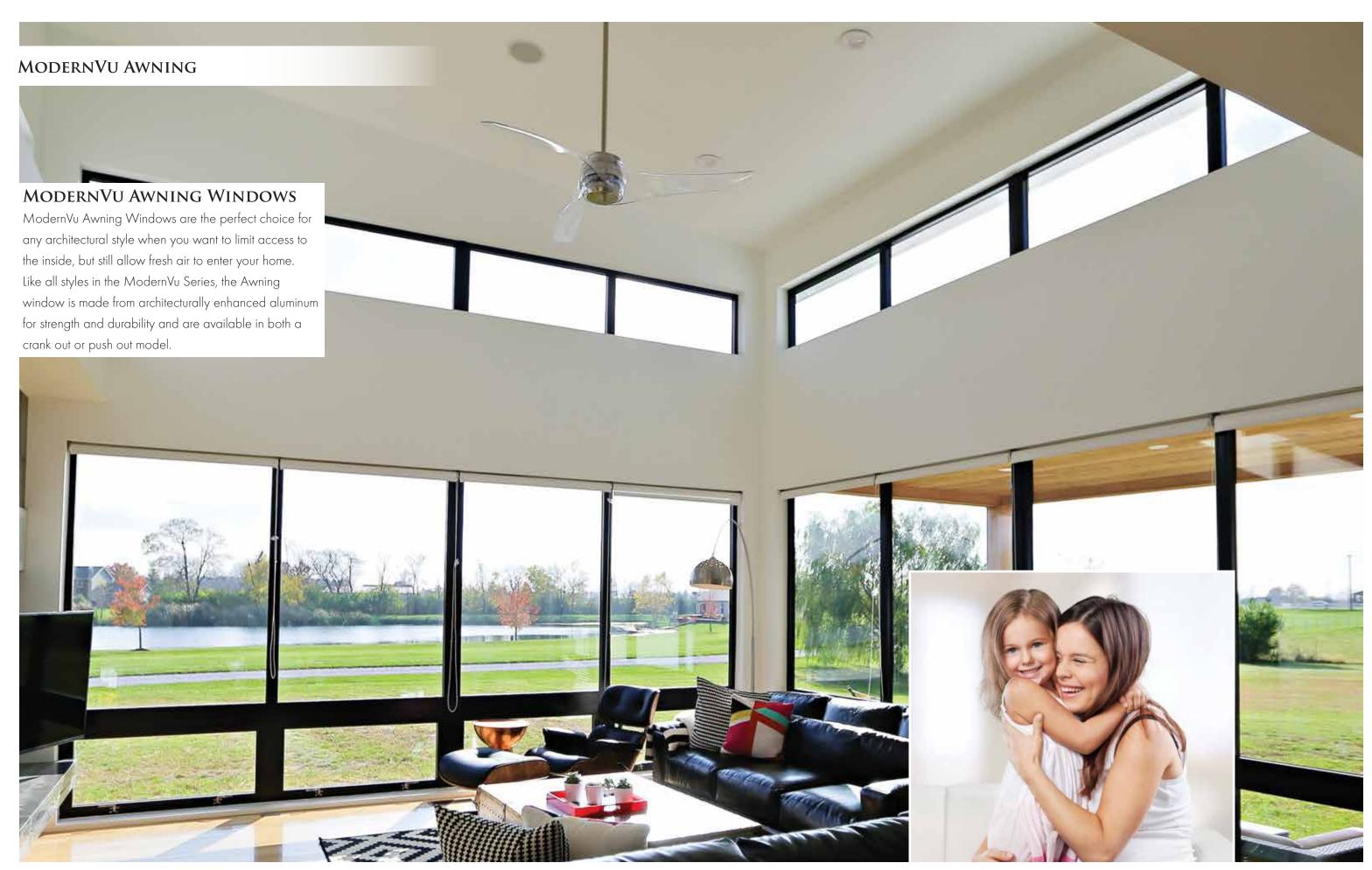
FROM INSPIRATION TO REALITY, THE MODERNVU IS YOURS.

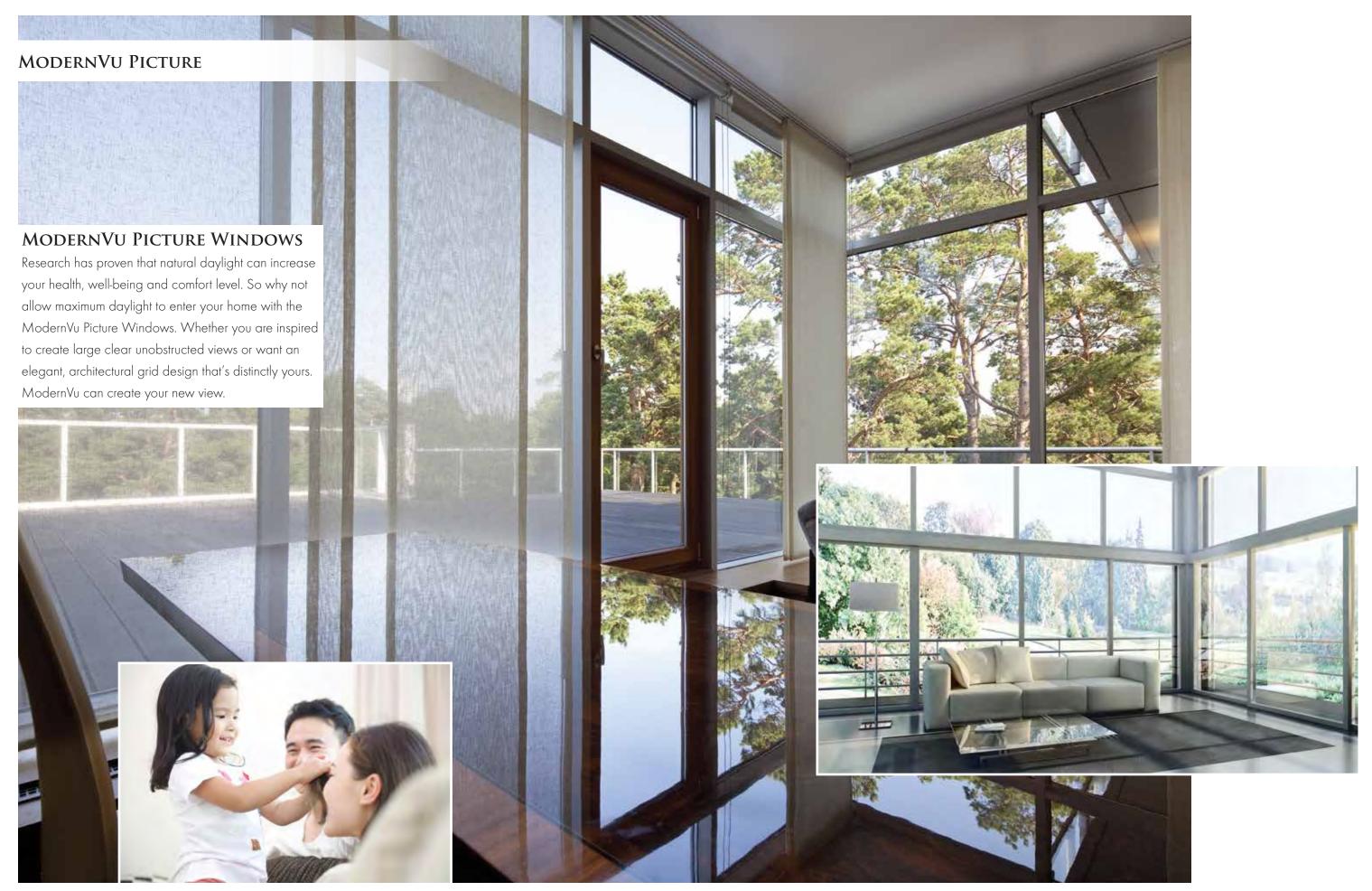
ModernVu windows allow you to expand the view of your world outside throughout the changing seasons.

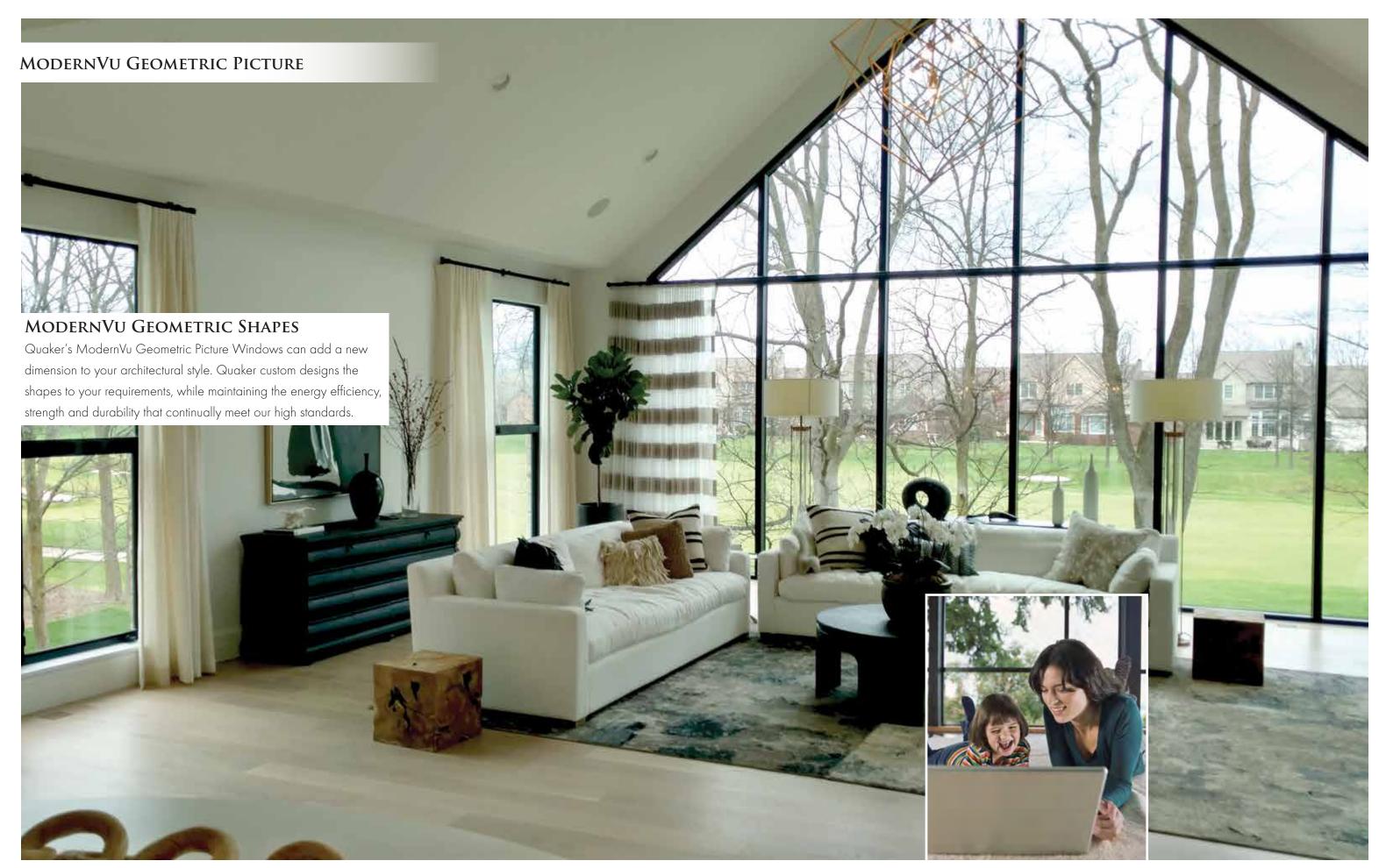
Engineered for strength and long-lasting performance against the harshest elements that may challenge your home. ModernVu is custom designed and crafted from architecturally enhanced Aluminum, offering both durability and sleek appearance that can be shaped and combined to meet your window needs and truly turn your Inspiration into Reality.

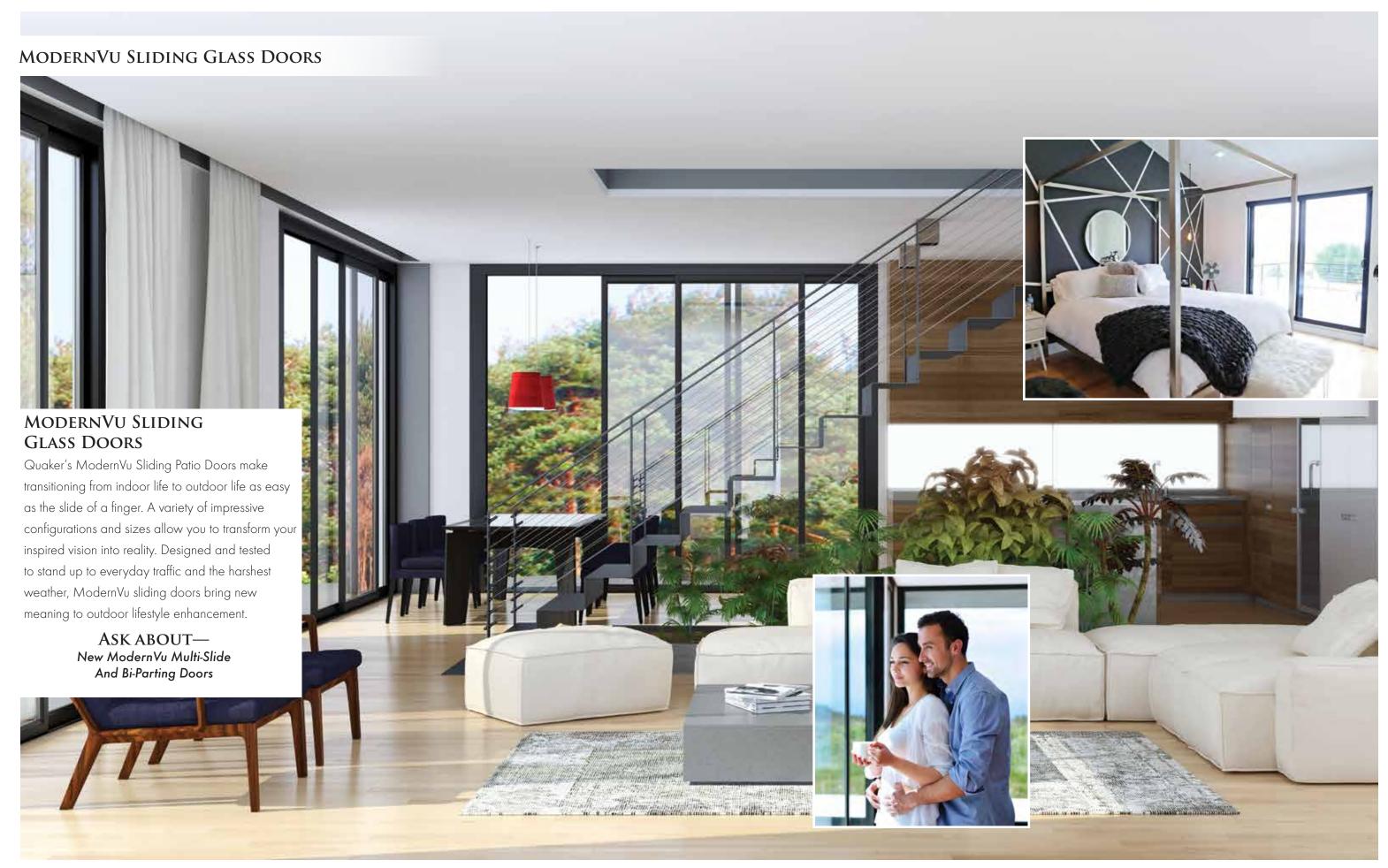


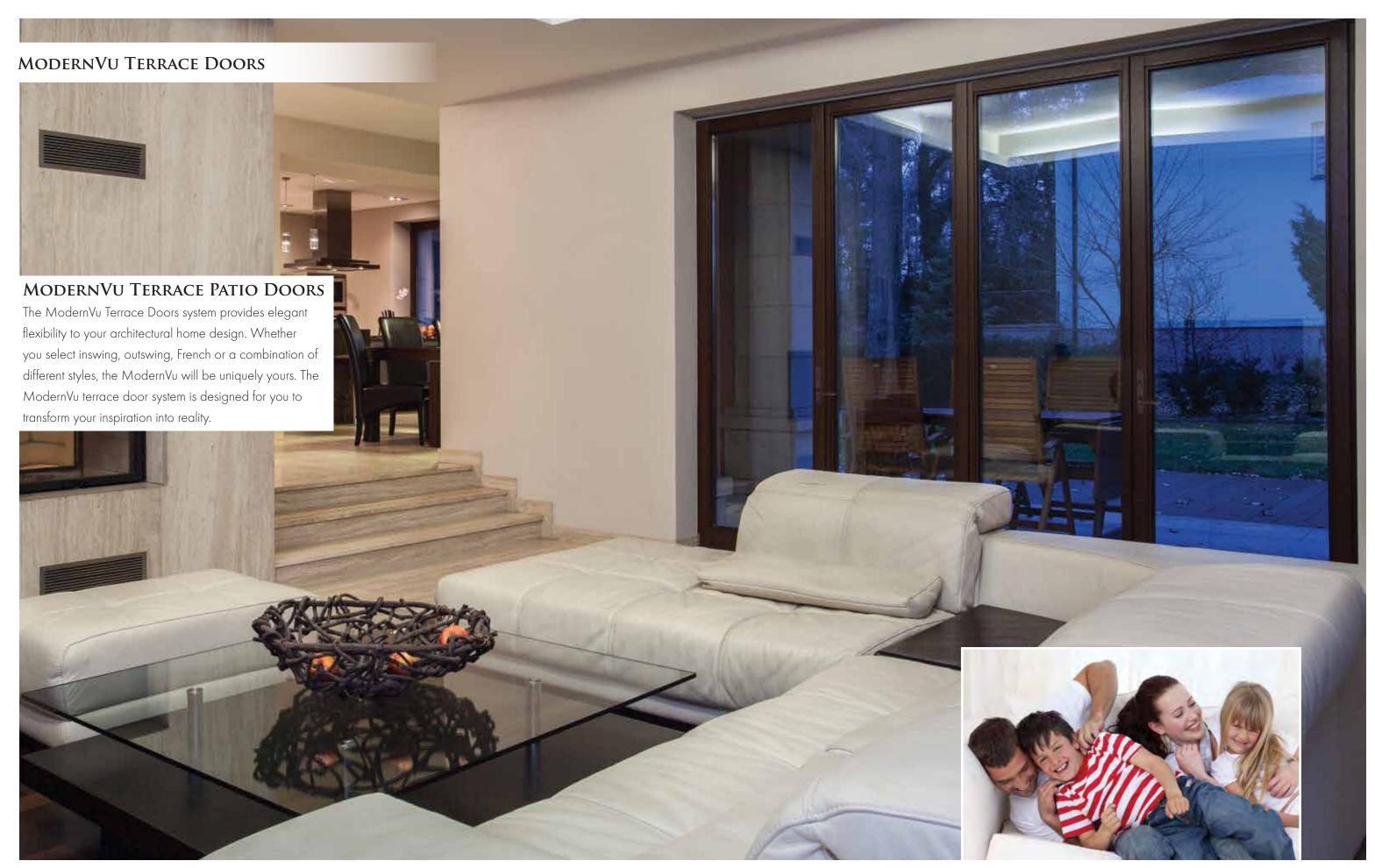












THE QUAKER DIFFERENCE



WHAT IS THE QUAKER DIFFERENCE?



It is a standard of quality, engineering, craftsmanship and innovation that Quaker builds into every window and door. It is that attention to detail and manufacturing excellence that distinguishes Quaker from all other window and door companies in America. It is providing more than windows and doors, it's providing the "Right Solution" to our customers. That's the "Quaker Difference".

SOME OF THE QUAKER DIFFERENCES INCLUDE...

Architectural Design – ModernVu windows have been designed and engineered to maximize superior performance of the aluminum. This means bigger, taller and stronger windows and doors that perform to rigid architectural standards allowing you to create the perfect look without compromising on performance.

Frame Construction – ModernVu has reset the standard when it comes to frame construction strength and durability. With a full 31/4" frame depth, ModernVu utilizes a mitered frame and corner key system that securely squares and locks the frame tight for unrivaled performance. Each corner is additionally injected with silicone creating a rigid water-tight seal.

New Construction Residential
Design — Builders and
Homeowners alike love that
ModernVu windows are
manufactured with an integral miter
cut nail fin that surrounds the entire
unit. This means no gaps or
uneven fins ensuring an installation
friendly, secure tight fit into each
window opening.

Water Management –

Channeling any encroaching water away from the inside and back out of the house is an essential part of any window system. The ModernVu series has been designed to incorporate an internal water management and weep system, which safely channels any water away from the unit and the interior of your home.

Color Flexibility and Paint
Performance – Quaker has one
of the largest state-of-the art
aluminum window powder paint
facilities in the United States. This
not only enables Quaker to offer
the ultimate in color flexibility (see
page 23), but also ensures each
window's finish is of the highest
quality and durability.

Thermal Performance –

Traditionally, aluminum windows and doors were not known for their thermal performance, but Quaker has changed all of that. With its architecturally enhanced aluminum frame design, ModernVu minimizes the effects of thermal transfer. Combine that with the optimal glass combination for your part of the country and you can see thermal performance results as much as 20% better than older generation aluminum windows.

Glass Combinations – Quaker offers a wide range of energyefficient glass packages (see page 21) to satisfy your requirements. The ModernVu design accommodates insulated glass from 1" to 1-3/8" thick. With a 1" glass system, the ModernVu ensures design flexibility and superior thermal performance. The 1-3/8" system, gives you all that performance, plus superior sound deadening qualities utilizing laminated glass and a larger air space cavity. No matter which glass thickness or options you select, you can be assured of the same uniform look throughout your home.



Roto Handles



Roto Finishes



Standard Satin/Brushed Nickel

Push Out Handles



Push Out Finishes



Black



Satin/Brushed

Standard Features and Benefits

- 3-1/4" architecturally enhanced aluminum frame
- 1" insulating glass for optimal energy efficiency
- Multi-point locking system for ease of operation, added safety and greater aesthetic appeal (Crank-Out style)
- Cam turn handle hardware (Push-out style)
- Adjustable roto crank-out hardware
- Integral Nailing Fin
- Full screen with BetterVue screen mesh standard for crank out models
- Wicket screen with aluminum screen wire standard for push out models

Options

- Structural Mullions
- Grids Internal or Simulated Divided Lites (SDL)
- Multiple glazing packages and Finish options
- 1-3/8" glazing pocket for enhanced sound attenuation
- Impact tested with special glazing

ModernVu (Minimum and Maximum) **Casement Thermal Aluminum Windows**

	Roto Model	Push Out Model
Maximum width	48"*	36"
Maximum height	96″*	72"
Minimum width	18"	14"
Minimum height	24"	18"

^{*} Maximum width and height cannot be used together. Width and height, when added together, cannot

Casement Energy performance

	U-Value	SHGC
EnergyBasic	0.43	0.29
Energy3S	0.42	0.20
EnergyPlus	0.39	0.29
EnergyMAX	0.39	0.19
EnergyEnhanced	Pending	Pending

ModernVu (Minimum and Maximum) Awning Thermal Aluminum Windows

	Roto Model	Push Out Model
Maximum width	72"*	72"
Maximum height	84"	48"
Minimum width	22-5/8"	14"
Minimum height	22"	14"

^{*} Maximum width and height cannot be used together. Width and height, when added together, cannot

Awning Energy performance

	U-Value	SHGC
EnergyBasic 0.43		0.29
Energy3S	0.42	0.20
EnergyPlus	0.40	0.29
EnergyMAX	0.39	0.19
EnergyEnhanced	Pending	Pending

Standard Features and Benefits

- 1" insulating glass for added energy efficiency
- Extended sizes allow for larger viewing areas
- Narrow sightlines for increased viewing area

Options

- Grids Internal or Simulated Divided Lites (SDL)
- Multiple glazing packages and Finish options
- 1-3/8" glazing pocket for enhanced sound attenuation
- Impact tested with special glazing

Picture Thermal Aluminum Windows

MODERNVU PICTURE WINDOWS FEATURES AND BENEFITS

Maximum width	120″*
Minimum height	120″*
Minimum width	12"
Minimum height	10"

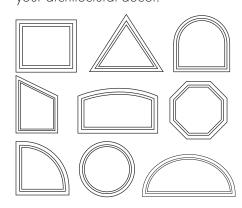
^{*} Maximum width and height cannot be used together. Width and height, when added together, cannot

Picture Window Energy performance

U-Value	SHGC
0.31	0.36
0.30	0.24
0.26	0.35
0.26	0.23
Pending	Pending
	0.31 0.30 0.26 0.26

GEOMETRIC PICTURE **WINDOWS**

ModernVu windows are made from extruded Aluminum with a high ratio of strength-to-weight allowing the material to be easily shaped to satisfy your architectural decor.



SLIDING GLASS DOORS AND FRENCH DOORS FEATURES

MODERNVU SLIDING GLASS PATIO DOORS



Available Color Finishes





Satin/Brushed

Standard Features and Benefits

- Panels 2, 3 and 4 panel configurations available
- Architecturally enhanced aluminum
- Steel rollers for ease of operation
- Internal weep system for effective water
- Anodized threshold with 1-9/16" sill
- D-loop handle set with thumb latch and
- Sliding screen with BetterVue mesh
- Available with or without Nailing Fin

Options

- Upgrade to premium 2" roller system for superior gliding operation
- ADA thumb latch hardware
- Flush handle hardware
- Impact glass where building codes necessitate
- Door and window combinations available for incomparable views
- Footbolt

ModernVu (Minimum and Maximum) Sliding Glass Patio Door Sizing

	2-Panel	3-Panel	4-Panel
Max. width	120″	180″	240"
Max. height	120″	120″	120"
Min. width	48"	76-3/8"	100-1/16"
Min. height	48"	48"	48"

Sliding Glass Patio Door Thermal Performance

	U-Value	SHGC
EnergyBasic	0.40	0.32
Energy3S	0.40	0.21
EnergyPlus	0.35	0.32
EnergyMAX	0.35	0.21
EnergyEnhanced	Pending	Pending

MODERNVU TERRACE PATIO DOORS

Standard Features and Benefits

• Inswing or Outswing models • Architecturally enhanced aluminum

• Adjustable hinge systems add to

• 5-point locking system for added security

• Door won't sag with heavy-duty corner

• Stylish lock and turn-key handle set

• Sidelites/transoms with matching

operational ease

• 2-way adjustable hinge

Hardware Choices



Available Color Finishes



Standard

Faux Oil Oil Rubbed Rubbed Bronze Bronze/Brass Rustic Umber



Brushed Nickel

ADA sill

sightlines

Options

key system

No Nailing Fin

- 10" kick plate
- Surface mounted closure
- 3-way adjustable hinge
- Impact glass where building codes necessitate
- Door and window combinations available for incomparable views
- Keyed alike hardware for multiple doors

ModernVu (Minimum and Maximum) Terrace Patio Door Sizing

	1-Panel	2-Panel
Maximum width	48"	84"
Maximum height	120″	120″
Minimum width	24"	48"
Minimum height	72"	72"

Terrace Patio Door Thermal Performance

	U-Value	SHGC
EnergyBasic	0.41	0.28
Energy3S	0.37	0.19
EnergyPlus	0.36	0.28
EnergyMAX	0.37	0.19
EnergyEnhanced	Pending	Pending

MODERNVU GLASS PACKAGES



Unrivaled Glass Performance

ModernVu windows and doors have an energy-efficient glass package to satisfy every home, in every city, every state - regardless of your climate challenges. Selecting the right glass package for your home will heighten energy-efficiency and provide you with a more consistent level of comfort throughout the year

The Energy Series Glass Packages include —

ENERGYBASIC

Our basic Low-E provides as much as 30% better U-Value and Solar Heat Gain coverage than clear glass.

Energy 3S

Comparable to our EnergyBasic, yet delivers Solar Heat Gains 25-30% better

ENERGY PLUS

An upgraded Low-E system that excels against U-V rays, and extends energy-efficiency up to 15%.

ENERGYMAX

If low U-Values and Solar Heat Gains are an absolute must, this glass system maximizes your coverage.

ENERGY Enhanced

Elevates both comfort and views. Special Low-E enhances energy-efficiency and reduces glare, presenting a near HD appearance. Plus, your glass is kept clean naturally with the addition of Neat+ Low Maintenance glass.

- EnergyObscure Designed for areas needing the utmost in privacy
- Tempered Glass for safety
- Laminated Glass for safety and sound attenuation
- Impact Glass for coastal areas that mandate paramount
- Bronze, Gray, Blue and Green Tinted Glass

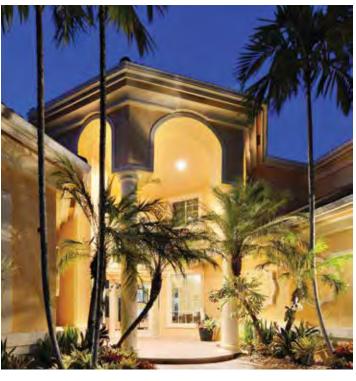
Or ask about other custom glass choices

Impact Protection

Quaker has designed our ModernVu Series to offer an Impact Window option to meet nationally recognized impact

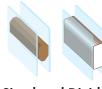
Impact products are specially glazed and structurally reinforced to meet or exceed codes mandated for areas where violent high wind conditions and wind-borne debris may occur.

All ModernVu windows and doors are certified to meet nationally recognized Impact standards.



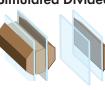
OPTIONAL GRID CHOICES

Grids Between the Glass

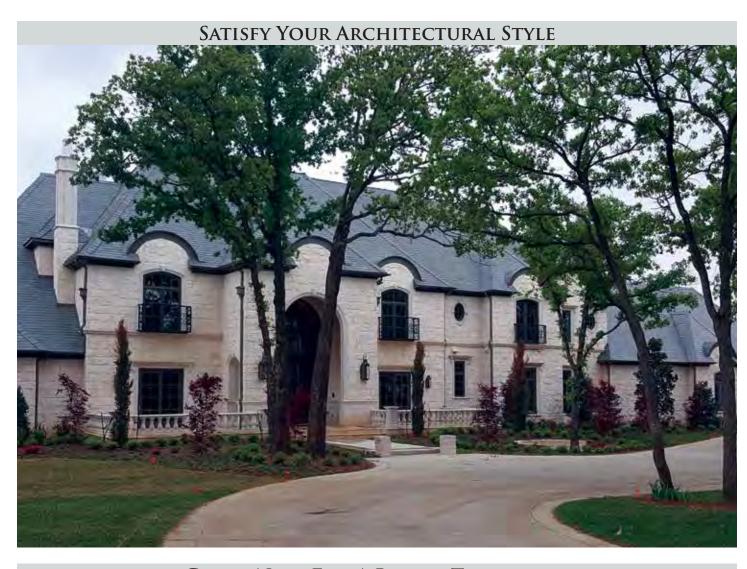


Decorative internal muntins add a distinct style to your windows. Because they are inside the glass, they are dust and maintenance free.

Simulated Divided Lites



Truly enhance your ModernVu windows with Simulated Divided Lites (SDL). SDL's, with their 3-dimensional feel, simulate individual glass panes (divided lites) for a decorative and distinct impression.



GREEN NOW FOR A BETTER TOMORROW

At Quaker Windows & Doors, thinking Green is nothing new to us. We're very proud to say we've been offering positive, environmental products for decades — including our recycling initiatives, our environmentally-safe powder paint and our innovative product designs that increase ventilation, thermal comfort, daylighting and energy performance levels.



THE VALUE OF ENERGY STAR® CERTIFIED PRODUCTS



As an Energy Star Partner, we offer all of the benefits that come with Energy Star qualified windows and doors – greater energy efficiency, lower fuel bills, improved home comfort, reduced condensation potential, decreased carbon footprints and protection against damaging

UV rays that affect interior fading of floors, carpets, and furniture.

While not all of our product/glass combinations meet Energy Star criteria, we're proud to assert that several do — a major feat for aluminum windows and doors and a great testimonial for our ModernVu Series.

A SPECTRUM OF COLOR



Rich Colors

When it comes to windows and doors, there is probably no feature more discussed than color.

The ModernVu Series of windows and doors removes that pressure by offering an unlimited selection of colors. Choose a deep rich hunter green, a soft charcoal

gray or a distinct Blue to enhance your home's design. Whatever you want - whatever your style - the ModernVu is the cure for the common color.

To help get you started, we have 38 "Quick Pick" colors from which to choose.

SolarLE

Keep your window and door exteriors cooler with optional SolarLE Paint, an additive that works much like Low-E in glass. SolarLE Paint is proven technology that has been adapted to work with windows. It diminishes surface temperatures as much as 15% by repelling excessive solar heat, reducing the possibility of thermal heat transfer through your windows and doors. Available with Textured Dark Espresso and Textured Black coatings.

The Environmental Choice

As part of our Green initiative, we employ only powder coat paint for our extruded aluminum exteriors. Powder-coatings emit nearly zero VOC's (Volatile Organic Compounds) into the air, and almost all of our over-spray is reclaimed thus eliminating waste. Powder Coat facilities are also more energy efficient, which contribute to the Department of Energy's Zero-Net Energy initiative.

IMPRESSIVES PALETTE OF COLORS



RESEMBLES COLORS



^{*} Note: Although every effort is made, printed colors may not accurately reflect the actual paint color. For an exact color match, please contact your Quaker dealer for an actual color sample. Quaker does not assume any responsibility for any misrepresentations of our colors.



MADE IN America

For more then 70 years, Quaker Windows & Doors has been manufacturing products in Freeburg, Missouri - right in the heartland of America. When it comes to windows and doors that truly set a home or building apart, Quaker has them. We offer that unique blend of design, quality craftsmanship, with state-of-the-art manufacturing technology to create the perfect solution for your home.









Learn More About Brighton Windows















www.QuakerResidentialWindows.com www.QuakerWindows.com 1-800-347-0438

Proudly made in America with Quaker Windows Innovation. Since 1949



Standard Size Booklet for

ModernWu

Aluminum Windows & Doors



Quaker Window Products Company makes every attempt to ensure the information contained in this booklet is accurate and up-to-date.

However, periodic changes may occur which may alter the product data thus we reserve the right to change or withdraw information at any time.

Casement (crank-out a.k.a. roto)



Callout	Actual	Rough
	Size	Opening
2020	24" x 24"	24 3/4" x 24 1/2"
2026	24" x 30"	24 3/4" x 30 1/2"
2030	24" x 36"	24 3/4" x 36 1/2"
2036	24" x 42"	24 3/4" x 42 1/2"
2040	24" x 48"	24 3/4" x 48 1/2"
2046	24" x 54"	24 3/4" x 54 1/2"
2050	24" x 60"	24 3/4" x 60 1/2"
2056	24" x 66"	24 3/4" x 66 1/2"
2060	24" x 72"	24 3/4" x 72 1/2"
2070	24" x 84"	24 3/4" x 84 1/2"
2080	24" x 96"	24 3/4" x 96 1/2"
2420	28" x 24"	28 3/4" x 24 1/2"
2426	28" x 30"	28 3/4" x 30 1/2"
2430	28" x 36"	28 3/4" x 36 1/2"
2436	28" x 42"	28 3/4" x 42 1/2"
2440	28" x 48"	28 3/4" x 48 1/2"
2446	28" x 54"	28 3/4" x 54 1/2"
2450	28" x 60"	28 3/4" x 60 1/2"
2456	28" x 66"	28 3/4" x 66 1/2"
2460	28" x 72"	28 3/4" x 72 1/2"
2470	28" x 84"	28 3/4" x 84 1/2"
2480	28" x 96"	28 3/4" x 96 1/2"

Callout	Actual Size	Rough Opening
2620	30" x 24"	30 3/4" x 24 1/2"
2626	30" x 30"	30 3/4" x 30 1/2"
2630	30" x 36"	30 3/4" x 36 1/2"
2636 ☆	30" x 42"	30 3/4" x 42 1/2"
2640 ☆ ◢	30" x 48"	30 3/4" x 48 1/2"
2646 ☆▲	30" x 54"	30 3/4" x 54 1/2"
2650 ☆ ◢	30" x 60"	30 3/4" x 60 1/2"
2656 ☆⊿	30" x 66"	30 3/4" x 66 1/2"
2660 ☆ ◢	30" x 72"	30 3/4" x 72 1/2"
2670 ☆ 🛦	30" x 84"	30 3/4" x 84 1/2"
2680 ☆ ◢	30" x 96"	30 3/4" x 30 1/2"
2820	32" x 24"	32 3/4" x 24 1/2"
2826	32" x 30"	32 3/4" x 30 1/2"
2830 ☆	32" x 36"	32 3/4" x 36 1/2"
2836 ☆ ◢	32" x 42"	32 3/4" x 42 1/2"
2840 ☆ ◢	32" x 48"	32 3/4" x 48 1/2"
2846 ☆ ◢	32" x 54"	32 3/4" x 54 1/2"
2850 ☆ 🛦	32" x 60"	32 3/4" x 60 1/2"
2856 ☆ ◢	32" x 66"	32 3/4" x 66 1/2"
2860 ☆ ◢	32" x 72"	32 3/4" x 72 1/2"
2870 ☆ ◢	32" x 84"	32 3/4" x 84 1/2"
2880 ☆ 🗸	32" x 96"	32 3/4" x 96 1/2"

Callout	Actual Size	Rough Opening
3020	36" x 24"	36 3/4" x 24 1/2"
3026	36" x 30"	36 3/4" x 30 1/2"
3030 ☆▲	36" x 36"	36 3/4" x 36 1/2"
3036 ☆▲	36" x 42"	36 3/4" x 42 1/2"
3040 ☆▲	36" x 48"	36 3/4" x 48 1/2"
3046 ☆▲	36" x 54"	36 3/4" x 54 1/2"
3050 ☆▲	36" x 60"	36 3/4" x 60 1/2"
3056 ☆⊿	36" x 66"	36 3/4" x 66 1/2"
3060 ☆▲	36" x 72"	36 3/4" x 72 1/2"
3070 ☆⊿	36" x 84"	36 3/4" x 84 1/2"
3080 ☆▲	36" x 96"	36 3/4" x 96 1/2"
4020	48" x 24"	48 3/4" x 24 1/2" ¹
4026 ☆	48" x 30"	48 3/4" x 30 1/2"
4030 ☆	48" x 36"	48 3/4" x 36 1/2"
4036 ☆	48" x 42"	48 3/4" x 42 1/2"
4040 ☆	48" x 48"	48 3/4" x 48 1/2"
4046 ☆	48" x 54"	48 3/4" x 54 1/2"
4050 ☆	48" x 60"	48 3/4" x 60 1/2"
4056 ☆	48" x 66"	48 3/4" x 66 1/2"
4060 ☆	48" x 72"	48 3/4" x 72 1/2"
4070 ☆	48" x 84"	48 3/4" x 84 1/2"

4' widths only available with butt hinge [4-bar n/a]

- ▲ = Meets egress minimum opening of 5.7 sq. ft., with a 20" minimum width and 24" minimum height using 4-bar hinging.
- 太 = Meets egress minimum opening of 5.7 sq. ft., with a 20" minimum width and 24" minimum height using butt hinge.

Casement (push out)



Callout	Actual Size	Rough Opening
2020	24" x 24"	24 3/4" x 24 1/2"
2030	24" x 36"	24 3/4" x 36 1/2"
2036	24" x 42"	24 3/4" x 42 1/2"
2040	24" x 48"	24 3/4" x 48 1/2"
2046	24" x 54"	24 3/4" x 54 1/2"
2050	24" x 60"	24 3/4" x 60 1/2"
2056	24" x 66"	24 3/4" x 66 1/2"
2060	24" x 72"	24 3/4" x 72 1/2"
2420	28" x 24"	28 3/4" x 24 1/2"
2430	28" x 36"	28 3/4" x 36 1/2"
2436	28" x 42"	28 3/4" x 42 1/2"
2440	28" x 48"	28 3/4" x 48 1/2"
2446	28" x 54"	28 3/4" x 54 1/2"
2450	28" x 60"	28 3/4" x 60 1/2"
2456	28" x 66"	28 3/4" x 66 1/2"
2460	28" x 72"	28 3/4" x 72 1/2"

Callout	Actual Size	Rough Opening
2620	30" x 24"	30 3/4" x 24 1/2"
2630	30" x 36"	30 3/4" x 36 1/2"
2636	30" x 42"	30 3/4" x 42 1/2"
2640	30" x 48"	30 3/4" x 48 1/2"
2646 7	30" x 54"	30 3/4" x 54 1/2"
2650 7	30" x 60"	30 3/4" x 60 1/2"
2656 7	30" x 66"	30 3/4" x 66 1/2"
2660 7	30" x 72"	30 3/4" x 72 1/2"
2820	32" x 24"	32 3/4" x 24 1/2"
2830	32" x 36"	32 3/4" x 36 1/2"
2836	32" x 42"	32 3/4" x 42 1/2"
2840 7	32" x 48"	32 3/4" x 48 1/2"
2846 7	32" x 54"	32 3/4" x 54 1/2"
2850 7	32" x 60"	32 3/4" x 60 1/2"
2856 7	32" x 66"	32 3/4" x 66 1/2"
2860 7	32" x 72"	32 3/4" x 72 1/2"

Callout	Actual Size	Rough Opening
3020	36" x 24"	36 3/4" x 24 1/2"
3030	36" x 36"	36 3/4" x 36 1/2"
3036 47	36" x 42"	36 3/4" x 42 1/2"
3040 47	36" x 48"	36 3/4" x 48 1/2"
3046 47	36" x 54"	36 3/4" x 54 1/2"
3050 ⊿ 7	36" x 60"	36 3/4" x 60 1/2"
3056 47	36" x 66"	36 3/4" x 66 1/2"
3060 ⊿7	36" x 72"	36 3/4" x 72 1/2"

 Δ = Meets egress minimum opening of 5.7 sq. ft., with a 20" minimum width and 24" minimum height using Push-Out hardware.

7 = Meets egress minimum opening of 5.7 sq. ft., with a 20" minimum width and 24" minimum height using Push-Out hardware and Egress Hinge.

Awning (crank out a.k.a. roto or push-out)



All callout sizes shown are available with crank out a.k.a. roto hardware. Callout sizes shown with an asterisk are available with push out hardware also.

Called Dizes of CWIT Will all asserted are available with					
Callout	Actual Size	Rough Opening			
2016*	24" x 18"	24 3/4" x 18 1/2"			
2020*	24" x 24"	24 3/4" x 24 1/2"			
2026*	24" x 30"	24 3/4" x 30 1/2"			
2030*	24" x 36"	24 3/4" x 36 1/2"			
2040*	24" x 48"	24 3/4" x 48 1/2"			
2050	24" x 60"	24 3/4" x 60 1/2"			
2060	24" x 72"	24 3/4" x 72 1/2"			
2616*	30" x 18"	30 3/4" x 18 1/2"			
2620*	30" x 24"	30 3/4" x 24 1/2"			
2626*	30" x 30"	30 3/4" x 30 1/2"			
2630*	30" x 36"	30 3/4" x 36 1/2"			
2640*	30" x 48"	30 3/4" x 48 1/2"			
2650	30" x 60"	30 3/4" x 60 1/2"			
2660	30" x 72"	30 3/4" x 72 1/2"			

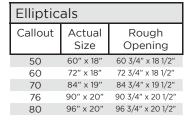
Callout	Actual Size	Rough Opening
3016*	36" x 18"	36 3/4" x 18 1/2"
3020*	36" x 24"	36 3/4" x 24 1/2"
3026*	36" x 30"	36 3/4" x 30 1/2"
3030*	36" x 36"	36 3/4" x 36 1/2"
3040*	36" x 48"	36 3/4" x 48 1/2"
3050	36" x 60"	36 3/4" x 60 1/2"
3060	36" x 72"	36 3/4" x 72 1/2"
3616*	42" x 18"	42 3/4" x 18 1/2"
3620*	42" x 24"	42 3/4" x 24 1/2"
3626*	42" x 30"	42 3/4" x 30 1/2"
3630*	42" X 36"	42 3/4" X 36 1/2"
3640*	42" x 48"	42 3/4" x 48 1/2"
3650	42" x 60"	42 3/4" x 60 1/2"
3660	42" x 72"	42 3/4" x 72 1/2"

Callout	Actual	Rough
	Size	Opening
4016*	48" x 18"	48 3/4" x 18 1/2"
4020*	48" x 24"	48 3/4" x 24 1/2"
4026*	48" x 30"	48 3/4" x 30 1/2"
4030*	48" x 36"	48 3/4" x 36 1/2"
4040*	48" x 48"	48 3/4" x 48 1/2"
4050	48" x 60"	48 3/4" x 60 1/2"
4060	48" x 72"	48 3/4" x 72 1/2"
5016*	60" x 18"	60 3/4" x 18 1/2"
5020*	60" x 24"	60 3/4" x 24 1/2"
5026*	60" x 30"	60 3/4" x 30 1/2"
5030*	60" x 36"	60 3/4" x 36 1/2"
5040*	60" x 48"	60 3/4" x 48 1/2"
5050	60" x 60"	60 3/4" x 60 1/2"
6016*	72" x 18"	72 3/4" x 18 1/2"
6020*	72" x 24"	72 3/4" x 24 1/2"
6026*	72" x 30"	72 3/4" x 30 1/2"
6030*	72" x 36"	72 3/4" x 36 1/2"
6040*	72" x 48"	72 3/4" x 48 1/2"

Direct Set Picture Windows

Callout	Actual	Rough	Callout	Actual	Rough	Callout	Actual	Rough	Callout	Actual	Rough
	Size	Opening		Size	Opening		Size	Opening		Size	Opening
1610	18" x 12"	18 3/4" x 12 1/2"	2690	30" x 108"	30 3/4" x 108 1/2"	3680	42" x 96"	42 3/4" x 96 1/2"	5076	60" x 90"	60 3/4" x 90 1/2'
1612	18" x 14"	18 3/4" x 14 1/2"	26100	30" x 120"	30 3/4" x 120 1/2"	3690		42 3/4" x 108 1/2"	5080	60" x 96"	60 3/4" x 96 1/2"
1614	18" x 16"	18 3/4" x 16 1/2"	2810	32" x 12"	32 3/4" x 12 1/2"	36100	42" x 120"	42 3/4" x 120 1/2"	5090	60" x 108"	60 3/4" x 108 1/2"
1616	18" x 18"	18 3/4" x 18 1/2"	2812	32" x 14"	32 3/4" x 14 1/2"	3810	44" x 12"	44 3/4" x 12 1/2"	50100	60" x 120"	60 3/4" x 120 1/2"
1620	18" x 24"	18 3/4" x 24 1/2"	2814	32" x 16"	32 3/4" x 16 1/2"	3812	44" x 14"	44 3/4' x 14 1/2"	5410	64" x 12"	64 3/4" x 12 1/2"
1626	18" x 30"	18 3/4" x 30 1/2"	2816	32" x 18"	32 3/4" x 18 1/2"	3814	44" x 16"	44 3/4" x 16 1/2"	5412	64" x 14"	64 3/4' x 14 1/2"
1630	18" x 36"	18 3/4" x 36 1/2"	2820	32" x 24"	32 3/4" x 24 1/2"	3816	44" x 18"	44 3/4" x 18 1/2"	5414	64" x 16"	64 3/4" x 16 1/2"
1636	18" x 42"	18 3/4" x 42 1/2"	2826	32" x 30"	32 3/4" x 30 1/2"	3820	44" x 24"	44 3/4" x 24 1/2"	5416	64" x 18"	64 3/4" x 18 1/2"
1640	18" x 48"	18 3/4" x 48 1/2"	2830	32" x 36"	32 3/4" x 36 1/2"	3826	44" x 30"	44 3/4" x 30 1/2"	5420	64" x 24"	64 3/4" x 24 1/2"
1646	18" x 54"	18 3/4" x 54 1/2"	2836	32" x 42"	32 3/4" x 42 1/2"	3830	44" x 36"	44 3/4" x 36 1/2"	5426	64" x 30"	64 3/4" x 30 1/2"
1650	18" x 60"	18 3/4" x 60 1/2"	2840	32" x 48"	32 3/4" x 48 1/2"	3836	44" x 42"	44 3/4" x 42 1/2"	5430	64" x 36"	64 3/4" x 36 1/2"
1656	18" x 66"	18 3/4" x 66 1/2"	2846	32" x 54"	32 3/4" x 54 1/2"	3840	44" x 48"	44 3/4" x 48 1/2"	5436	64" x 42"	64 3/4" x 42 1/2"
1660	18" x 72"	18 3/4" x 72 1/2"	2850	32" x 60"	32 3/4" x 60 1/2"	3846	44" x 54"	44 3/4" x 54 1/2"	5440	64" x 48"	64 3/4" x 48 1/2"
1666	18" x 78"	18 3/4" x 78 1/2"	2856	32" x 66"	32 3/4" x 66 1/2"	3850	44" x 60"	44 3/4" x 60 1/2"	5446	64" x 54"	64 3/4" x 54 1/2"
1670	18" x 84"	18 3/4" x 84 1/2"	2860	32" x 72"	32 3/4" x 72 1/2"	3856	44" x 66"	44 3/4" x 66 1/2"	5450	64" x 60"	64 3/4" x 60 1/2"
1676	18" x 90"	18 3/4" x 90 1/2"	2866	32" x 78"	32 3/4" x 78 1/2"	3860	44" x 72"	44 3/4" x 72 1/2"	5456	64" x 66"	64 3/4" x 66 1/2"
1680	18" x 96"	18 3/4" x 96 1/2"	2870	32" x 84"	32 3/4" x 84 1/2"	3866	44" x 78"	44 3/4" x 78 1/2"	5460	64" x 72"	64 3/4" x 72 1/2"
1690	18" x 108"	18 3/4" x 108 1/2"	2876	32" x 90"	32 3/4" x 90 1/2"	3870	44" x 84"	44 3/4" x 84 1/2"	5466	64" x 78"	64 3/4" x 78 1/2"
16100	18" x 120"	18 3/4" x 120 1/2"	2880	32" x 96"	32 3/4" x 96 1/2"	3876	44" x 90"	44 3/4" x 90 1/2"	5470	64" x 84"	64 3/4" x 84 1/2"
2010	24" x 12"	24 3/4" x 12 1/2"	2890	32" x 108"	32 3/4" x 108 1/2"	3880	44" x 96"	44 3/4" x 96 1/2"	5476	64" x 90"	64 3/4" x 90 1/2"
2012	24" x 14"	24 3/4" x 14 1/2"	28100	32" x 120"	32 3/4" x 120 1/2"	3890	44" x 108"	44 3/4" x 108 1/2"	5480	64" x 96"	64 3/4" x 96 1/2"
2014	24" x 16"	24 3/4" x 16 1/2"	3010	36" x 12"	36 3/4" x 12 1/2"	38100		44 3/4" x 120 1/2"	5490	64" x 108"	64 3/4" x 108 1/2"
2016	24" x 18"	24 3/4" x 18 1/2"	3012	36" x 14"	36 3/4" x 14 1/2"	4010	48" x 12"	48 3/4" x 12 1/2"	54100	64" x 120"	64 3/4" x 120 1/2"
2020	24" x 24"	24 3/4" x 24 1/2"	3014	36" x 16"	36 3/4" x 16 1/2"	4012	48" x 14"	48 3/4" x 14 1/2"	6010	72" x 12"	72 3/4" x 12 1/2"
2026	24" x 30"	24 3/4" x 30 1/2"	3016	36" x 18"	36 3/4" x 18 1/2"	4014	48" x 16"	48 3/4" x 16 1/2"	6012	72" x 14"	72 3/4' x 14 1/2"
2030	24" x 36"	24 3/4" x 36 1/2"	3020	36" x 24"	36 3/4" x 24 1/2"	4016	48" x 18"	48 3/4" x 18 1/2"	6014	72" x 16"	72 3/4" x 16 1/2"
2036	24" x 42"	24 3/4" x 42 1/2"	3026	36" x 30"	36 3/4" x 30 1/2"	4020	48" x 24"	48 3/4" x 24 1/2"	6016	72" x 18"	72 3/4" x 18 1/2"
2040	24" x 48"	24 3/4" x 48 1/2"	3030	36" x 36"	36 3/4" x 36 1/2"	4026	48" x 30"	48 3/4" x 30 1/2"	6020	72" x 24"	72 3/4" x 24 1/2"
2046	24" x 54"	24 3/4" x 54 1/2"	3036	36" x 42"	36 3/4" x 42 1/2"	4030	48" x 36"	48 3/4" x 36 1/2"	6026	72" x 30"	72 3/4" x 30 1/2"
2050	24" x 60"	24 3/4" x 60 1/2"	3040	36" x 48"	36 3/4" x 48 1/2"	4036	48" x 42"	48 3/4" x 42 1/2"	6030	72" x 36"	72 3/4" x 36 1/2"
2056	24" x 66"	24 3/4" x 66 1/2"	3046	36" x 54"	36 3/4" x 54 1/2"	4040	48" x 48"	48 3/4" x 48 1/2"	6036	72" x 42"	72 3/4" x 42 1/2"
2060	24" x 72"	24 3/4" x 72 1/2"	3050	36" x 60"	36 3/4" x 60 1/2"	4046	48" x 54"	48 3/4" x 54 1/2"	6040	72" x 48"	72 3/4" x 48 1/2"
2066	24" x 78"	24 3/4" x 78 1/2"	3056	36" x 66"	36 3/4" x 66 1/2"	4050	48" x 60"	48 3/4" x 60 1/2"	6046	72" x 54"	72 3/4" x 54 1/2"
2070	24" x 84"	24 3/4" x 84 1/2"	3060	36" x 72"	36 3/4" x 72 1/2"	4056	48" x 66"	48 3/4" x 66 1/2"	6050	72" x 60"	72 3/4" x 60 1/2"
2076	24" x 90"	24 3/4" x 90 1/2"	3066	36" x 78"	36 3/4" x 78 1/2"	4060	48" x 72"	48 3/4" x 72 1/2"	6056	72" x 66"	72 3/4" x 66 1/2"
2080	24" x 96"	24 3/4" x 96 1/2"	3070	36" x 84"	36 3/4" x 84 1/2"	4066	48" x 78"	48 3/4" x 78 1/2"	6060	72" x 72"	72 3/4" x 72 1/2"
2090	24" x 108"	24 3/4" x 108 1/2"	3076	36" x 90"	36 3/4" x 90 1/2"	4070	48" x 84"	48 3/4" x 84 1/2"	6066	72" x 78"	72 3/4" x 78 1/2"
20100	24" x 120"	24 3/4" x 120 1/2"	3080	36" x 96"	36 3/4" x 96 1/2"	4076	48" x 90"	48 3/4" x 90 1/2"	6070	72" x 84"	72 3/4" x 84 1/2"
2410	28" x 12"	28 3/4" x 12 1/2"	3090	36" x 108"	36 3/4" x 108 1/2"	4080	48" x 96"	48 3/4" x 96 1/2"	6076	72" x 90"	72 3/4" x 90 1/2"
2412	28" x 14"	28 3/4" x 14 1/2"	30100	36" x 120"	36 3/4" x 120 1/2"	4090		48 3/4" x 108 1/2"	6080	72" x 96"	72 3/4" x 96 1/2"
2414	28" x 16"	28 3/4" x 16 1/2"	3410	40" x 12"	40 3/4" x 12 1/2"	40100	48" x 120"	48 3/4" x 120 1/2"	6090	72" x 108"	72 3/4" x 108 1/2"
2416	28" x 18"	28 3/4" x 18 1/2"	3412	40" x 14"	40 3/4" x 14 1/2"	4810	56" x 12"	56 3/4" x 12 1/2"	60100	72" x 120"	72 3/4" x 120 1/2"
2420	28" x 24"	28 3/4" x 24 1/2"	3414	40" x 16"	40 3/4" x 16 1/2"	4812	56" x 14"	56 3/4" x 14 1/2"	7012	84" x 14"	84 3/4' x 14 1/2"
2426	28" x 30"	28 3/4" x 30 1/2"	3416	40" x 18"	40 3/4" x 18 1/2"	4814	56" x 16"	56 3/4" x 16 1/2"	7014	84" x 16"	84 3/4" x 16 1/2"
2430	28" x 36"	28 3/4" x 36 1/2"	3420	40" x 24"	40 3/4" x 24 1/2"	4816	56" x 18"	56 3/4" x 18 1/2"	7016	84" x 18"	84 3/4" x 18 1/2"
2436	28" x 42"	28 3/4" x 42 1/2"	3426	40" x 30"	40 3/4" x 30 1/2"	4820	56" x 24"	56 3/4" x 24 1/2"	7020	84" x 24"	84 3/4" x 24 1/2"
2440	28" x 48"	28 3/4" x 48 1/2"	3430		40 3/4" x 36 1/2"	4826	56" x 30"	56 3/4" x 30 1/2"	7026	84" x 30"	84 3/4" x 30 1/2"
2446	28" x 54"	28 3/4" x 54 1/2"	3436	40" x 42"	40 3/4" x 42 1/2"	4830	56" x 36"	56 3/4" x 36 1/2"	7030	84" x 36"	84 3/4" x 36 1/2"
2450	28" x 60"	28 3/4" x 60 1/2"	3440	40" x 48"	40 3/4" x 48 1/2"	4836	56" x 42"	56 3/4" x 42 1/2"	7036	84" x 42"	84 3/4" x 42 1/2"
2456	28" x 66"	28 3/4" x 66 1/2"	3446	40" x 54"	40 3/4" x 54 1/2"	4840	56" x 48"	56 3/4" x 48 1/2"	7040	84" x 48"	84 3/4" x 48 1/2"
2460	28" x 72"	28 3/4" x 72 1/2"	3450	40" x 60"	40 3/4" x 60 1/2"	4846	56" x 54"	56 3/4" x 54 1/2"	7046	84" x 54"	84 3/4" x 54 1/2"
2466	28" x 78"	28 3/4" x 78 1/2"	3456	40" x 66"	40 3/4" x 66 1/2"	4850	56" x 60"	56 3/4" x 60 1/2"	7050	84" x 60"	84 3/4" x 60 1/2"
2470	28" x 84"	28 3/4" x 84 1/2"	3460	40" x 72"	40 3/4" x 72 1/2"	4856	56" x 66"	56 3/4" x 66 1/2"	7056	84" x 66"	84 3/4" x 66 1/2"
2476	28" x 90"	28 3/4" x 90 1/2"	3466	40" x 78"	40 3/4" x 78 1/2"	4860	56" x 72"	56 3/4" x 72 1/2"	7060	84" x 72"	84 3/4" x 72 1/2"
2480	28" x 96"	28 3/4" x 96 1/2"	3470	40" x 84"	40 3/4" x 84 1/2"	4866	56" x 78"	56 3/4" x 78 1/2"	7066	84" x 78"	84 3/4" x 78 1/2"
2490			3476	40" x 90"	40 3/4" x 90 1/2'	4870	56" x 84"	56 3/4" x 84 1/2"	7070	84" x 84"	84 3/4" x 84 1/2"
24100	28" x 120"	28 3/4" x 120 1/2"	3480	40" x 96"	40 3/4" x 96 1/2"	4876	56" x 90"	56 3/4" x 90 1/2"	7076	84" x 90"	84 3/4" x 90 1/2"
2610	30" x 12"	30 3/4" x 12 1/2"	3490		40 3/4" x 108 1/2"	4880	56" x 96"	56 3/4" x 96 1/2"	7080	84" x 96"	84 3/4" x 96 1/2"
2612	30" x 14"	30 3/4" x 14 1/2"	34100	40" x 120"	40 3/4" x 120 1/2"	4890	56" x 108"	56 3/4" x 108 1/2"	7090	84" x 108"	84 3/4" x 108 1/2"
2614	30" x 16"	30 3/4" x 16 1/2"	3610	42" x 12"	42 3/4" x 12 1/2"	48100	56" x 120"	56 3/4" x 120 1/2"	8010	96" x 12"	96 3/4" x 12 1/2"
2616	30" x 18"	30 3/4" x 18 1/2"	3612	42" x 14"	42 3/4" x 14 1/2"	5010	60" x 12"	60 3/4" x 12 1/2"	8012	96" x 14"	96 3/4' x 14 1/2"
2620	30" x 24"	30 3/4" x 24 1/2"	3614	42" x 16"	42 3/4" x 16 1/2"	5012	60" x 14"	60 3/4" x 14 1/2"	8014	96" x 16"	96 3/4" x 16 1/2"
2626	30" x 30"	30 3/4" x 30 1/2"	3616	42" x 18"	42 3/4" x 18 1/2"	5014	60" x 16"	60 3/4" x 16 1/2"	8016	96" x 18"	96 3/4" x 18 1/2"
2630	30" x 36"	30 3/4" x 36 1/2"	3620	42" x 24"	42 3/4" x 24 1/2"	5016	60" x 18"	60 3/4" x 18 1/2"	8020	96" x 24"	96 3/4" x 24 1/2"
2636	30" x 42"	30 3/4" x 42 1/2"	3626	42" x 30"	42 3/4" x 30 1/2"	5020	60" x 24"	60 3/4" x 24 1/2"	8026	96" x 30"	96 3/4" x 30 1/2"
2640	30" x 48"	30 3/4" x 48 1/2"	3630	42" x 36"	42 3/4" x 36 1/2"	5026	60" x 30"	60 3/4" x 30 1/2"	8030	96" x 36"	96 3/4" x 36 1/2"
2646	30" x 54"	30 3/4" x 54 1/2"	3636	42" x 42"	42 3/4" x 42 1/2"	5030	60" x 36"	60 3/4" x 36 1/2"	8036	96" x 42"	96 3/4" x 42 1/2"
2650	30" x 60"	30 3/4" x 60 1/2"	3640	42" x 48"	42 3/4" x 48 1/2"	5036	60" x 42"	60 3/4" x 42 1/2"	8040	96" x 48"	96 3/4" x 48 1/2"
2656	30" x 66"	30 3/4" x 66 1/2"	3646	42" x 54"	42 3/4" x 54 1/2"	5040	60" x 48"	60 3/4" x 48 1/2"	8046	96" x 54"	96 3/4" x 54 1/2"
2660	30" x 72"	30 3/4" x 72 1/2"	3650	42" x 60"	42 3/4" x 60 1/2"	5046	60" x 54"	60 3/4" x 54 1/2"	8050	96" x 60"	96 3/4" x 60 1/2"
2666	30" x 78"	30 3/4" x 78 1/2"	3656	42" x 66"	42 3/4" x 66 1/2"	5050	60" x 60"	60 3/4" x 60 1/2"	8056	96" x 66"	96 3/4" x 66 1/2"
2670	30" x 84"	30 3/4" x 84 1/2"	3660	42" x 72"	42 3/4" x 72 1/2"	5056	60" x 66"	60 3/4" x 66 1/2"	8060	96" x 72"	96 3/4" x 72 1/2"
2676	30" x 90"	30 3/4" x 90 1/2"	3666	42" x 78"	42 3/4" x 78 1/2"	5060	60" x 72"	60 3/4" x 72 1/2"	8066	96" x 78"	96 3/4" x 78 1/2"
2680	30" x 96"	30 3/4" x 96 1/2"	3670	42" x 84"	42 3/4" x 84 1/2"	5066	60" x 78"	60 3/4" x 78 1/2"	8070	96" x 84"	96 3/4" x 84 1/2"
QUAR	VED.		3676	42" x 90"	42 3/4" x 90 1/2'	5070	60" x 84"	60 3/4" x 84 1/2"	8076	96" x 90"	96 3/4" x 90 1/2"
UA.	CER									MANA GUOKO	rwindows com

Geometric Direct Set Picture Windows



Actual

Size

2030 24" x 36" 24 3/4" x 36 1/2" 24" x 54"

Rough

Opening

24 3/4" x 54 1/2"

36" x 48" 36 3/4" x 48 1/2"

36" x 54" 36 3/4" x 54 1/2" 36" x 72" 36 3/4" x 72 1/2"

48" x 72" 48 3/4" x 72 1/2"

Ovals Callout

2046

3040 3046

3060

4060

Octagons				
Callout	Actual Size	Rough Opening		
2020	24" x 24"	24 3/4" x 24 1/2"		
2424	28" x 48"	28 3/4" x 48 1/2"		
2626	30" x 30"	30 3/4" x 30 1/2"		
3030	36" x 36"	36 3/4" x 36 1/2"		
3636	42" x 42"	42 3/4" x 42 1/2"		
4040	48" x 48"	48 3/4" x 48 1/2"		
5050	60" x 60"	60 3/4" x 60 1/2"		
6060	72" x 72"	72 3/4" x 72 1/2"		
7070	84" x 84"	84 3/4" x 84 1/2"		

6060 7070	72" x 72" 84" x 84"	72 3/4" x 72 1/2" 84 3/4" x 84 1/2"
Extend	ed Oct	agons
Callout	Actual Size	Rough Opening
2030	24" x 36"	24 3/4" x 36 1/2"
2040	24" x 48"	0.4.7 /411 40.1 /011
	24 X 48	24 3/4" x 48 1/2"
2650	30" x 60"	30 3/4" x 48 1/2"
2650 3046		
	30" x 60"	30 3/4" x 60 1/2"
3046	30" x 60" 36" x 54"	30 3/4" x 60 1/2" 36 3/4" x 54 1/2"

Half Rounds				
Callout	Actual Size	Rough Opening		
20	24" x 12"	24 3/4" x 12 1/2"		
24	28" x 14"	28 3/4" x 14 1/2"		
26	30" x 15"	30 3/4" x 15 1/2"		
28	32" x 16"	32 3/4" x 16 1/2"		
30	36" x 18"	36 3/4" x 18 1/2"		
34	40" x 20"	40 3/4" x 20 1/2"		
36	42" x 21"	42 3/4" x 21 1/2"		
38	44" x 22"	44 3/4" x 22 1/2"		
40	48" x 24"	48 3/4" x 24 1/2"		
48	56" x 28"	56 3/4" x 28 1/2"		
50	60" x 30"	60 3/4" x 30 1/2"		
54	64" x 32"	64 3/4" x 32 1/2"		
60	72" x 36"	72 3/4" x 36 1/2"		
68	80" x 40"	80 3/4" x 40 1/2"		
74	88" x 44"	88 3/4" x 44 1/2"		
76	90" x 45"	90 3/4" x 45 1/2"		
80	96" x 48"	96 3/4" x 48 1/2"		
90	108" x 54"	108 3/4" x 54 1/2"		

Quarter Rounds						
Callout	Actual Size	Rough Opening				
20	24" x 24"	24 3/4" x 24 1/2"				
24	28" x 48"	28 3/4" x 48 1/2"				
26	30" x 30"	30 3/4" x 30 1/2"				
30	36" x 36"	36 3/4" x 36 1/2"				
36	42" x 42"	42 3/4" x 42 1/2"				
40	48" x 48"	48 3/4" x 48 1/2"				
46	54" x 54"	54 3/4" x 54 1/2"				
50	60" x 60"	60 3/4" x 60 1/2"				
60	72" x 72"	72 3/4" x 72 1/2"				

Circles								
Callout	Actual Size	Rough Opening						
24	28" x 28"	28 3/4" x 28 1/2"						
26	30" x 30"	30 3/4" x 30 1/2"						
30	36" x 36"	36 3/4" x 36 1/2"						
40	48" x 48"	48 3/4" x 48 1/2"						
50	60" x 60"	60 3/4" x 60 1/2"						
60	72" x 72"	72 3/4" x 72 1/2"						

Additional geometric shapes are available.

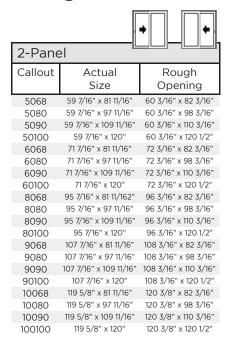
Arch Head Direct Set Picture Windows



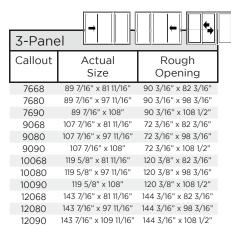
Callout	Short	Actual	Rough	Callout	Short	Actual	Rough	Callout	Short	Actual	Rough
Callout			-	Callout	I .			Callout			
	Height	Size	Opening		Height	Size	Opening		Height	Size	Opening
2010	24" x 12"	24" x 15 3/16"	24 3/4" x 15 11/16"	2836	32" x 42"	32" x 46 5/16"	32 3/4" x 46 13/16"	5056	60" x 66"	60" x 74 1/16"	60 3/4" x 74 9/16"
2016	24" x 18"	24" x 21 3/16"	24 3/4" x 21 11/16"	2840	32" x 48"	32" x 52 5/16"	32 3/4" x 52 13/16"	5060	60" x 72"	60" x 80 1/16"	60 3/4" x 80 9/16"
2020	24" x 24"	24" x 27 3/16"	24 3/4" x 27 11/16"	2846	32" x 54"	32" x 58 5/16"	32 3/4" x 58 13/16"	5070	60" x 84"	60" x 92 1/16"	60 3/4" x 92 9/16"
2030	24" x 36"	24" x 39 3/16"	24 3/4" x 39 11/16"	2850	32" x 60"	32" x 64 5/16"	32 3/4" x 64 13/16"	5080	60" x 96"	60" x 104 1/16"	60 3/4" x 104 9/16"
2036	24" x 42"	24" x 45 3/16"	24 3/4" x 45 11/16"	2856	32" x 66"	32" x 70 5/16"	32 3/4" x 70 13/16"	6010	72" x 12"	72" x 21 5/8"	72 3/4" x 22 1/8"
2040	24" x 48"	24" x 51 3/16"	24 3/4" x 51 11/16"	2860	32" x 72"	32" x 76 5/16"	32 3/4" x 76 13/16"	6016	72" x 18"	72" x 27 5/8"	72 3/4" x 28 1/8"
2046	24" x 54"	24" x 57 3/16"	24 3/4" x 57 11/16"	2870	32" x 84"	32" x 88 5/16"	32 3/4" x 88 13/16"	6020	72" x 24"	72" x 33 5/8"	72 3/4" x 34 1/8"
2050	24" x 60"	24" x 63 3/16"	24 3/4" x 63 11/16"	2880	32" x 96"	32" x 100 5/16"	32 3/4" x 100 13/16"	6030	72" x 36"	72" x 45 5/8"	72 3/4" x 46 1/8"
2056	24" x 66"	24" x 69 3/16"	24 3/4" x 69 11/16"	3010	36" x 12"	36" x 16 13/16"	36 3/4" x 17 5/16"	6036	72" x 42"	72" x 51 5/8"	72 3/4" x 52 1/8"
2060	24" x 72"	24" x 75 3/16"	24 3/4" x 75 11/16"	3016	36" x 18"	36" x 22 13/16"	36 3/4" x 23 5/16"	6040	72" x 48"	72" x 57 5/8"	72 3/4" x 58 1/8"
2070	24" x 84"	24" x 87 3/16"	24 3/4" x 87 11/16"	3020	36" x 24"	36" x 28 13/16"	36 3/4" x 29 5/16"	6046	72" x 54"	72" x 63 5/8"	72 3/4" x 64 1/8"
2080	24" x 96'	24" x 99 3/16"	24 3/4" x 99 11/16"	3030	36" x 36"	36" x 40 13/16"	36 3/4" x 41 5/16"	6050	72" x 60"	72" x 69 5/8"	72 3/4" x 70 1/8"
2410	28" x 12"	28" x 15 3/4"	28 3/4" x 16 1/4"	3036	36" x 42"	36" x 46 13/16"	36 3/4" x 47 5/16"	6056	72" x 66"	72" x 75 5/8"	72 3/4" x 76 1/8"
2416	28" x 18"	28" x 21 3/4"	28 3/4" x 22 1/4"	3040	36" x 48"	36" x 52 13/16"	36 3/4" x 53 5/16"	6060	72" x 72"	72" x 81 5/8"	72 3/4" x 82 1/8"
2420	28" x 24"	28" x 27 3/4"	28 3/4" x 28 1/4"	3046	36" x 54"	36" x 58 13/16"	36 3/4" x 59 5/16"	6070	72" x 84"	72" x 93 5/8"	72 3/4" x 94 1/8"
2430	28" x 36"	28" x 39 3/4"	28 3/4" x 40 1/4"	3050	36" x 60"	36" x 64 13/16"	36 3/4" x 65 5/16"	6080	72" x 96"	72" x 105 5/8"	72 3/4" x 106 1/8"
2436	28" x 42"	28" x 45 3/4"	28 3/4" x 46 1/4"	3056	36" x 66"	36" x 70 13/16"	36 3/4" x 71 5/16"	7010	84" x 12"	84" x 23 1/4"	84 3/4" x 23 3/4"
2440	28" x 48"	28" x 51 3/4"	28 3/4" x 52 1/4"	3060	36" x 72"	36" x 76 13/16"	36 3/4" x 77 5/16"	7016	84" x 18"	84" x 29 1/4"	84 3/4" x 29 3/4"
2446	28" x 54"	28" x 57 3/4"	28 3/4" x 58 1/4"	3070	36" x 84"	36" x 88 13/16"	36 3/4" x 89 5/16"	7020	84" x 24"	84" x 35 1/4"	84 3/4" x 35 3/4"
2450	28" x 60"	28" x 63 3/4"	28 3/4" x 63 1/4"	3080	36" x 96"	36" x 100 13/16"	36 3/4" x 101 5/16"	7030	84" x 36"	84" x 47 1/4"	84 3/4" x 47 3/4"
2456	28" x 66"	28" x 69 3/4"	28 3/4" x 70 1/4"	4010	48" x 12"	48" x 18 7/16"	48 3/4" x 18 15/16"	7036	84" x 42"	84" x 53 1/4"	84 3/4" x 53 3/4"
2460	28" x 72"	28" x 75 3/4"	28 3/4" x 76 1/4"	4016	48" x 18"	48" x 24 7/16"	48 3/4" x 24 15/16"	7040	84" x 48"	84" x 59 1/4"	84 3/4" x 59 3/4"
2470	28" x 84"	28" x 87 3/4"	28 3/4" x 76 1/4"	4020	48" x 24"	48" x 30 7/16"	48 3/4" x 30 15/16"	7046	84" x 54"	84" x 65 1/4"	84 3/4" x 65 3/4"
2480	28" x 96"	28" x 99 3/4"	28 3/4" x 99 3/4"	4030	48" x 36"	48" x 42 7/16"	48 3/4" x 42 15/16"	7050	84" x 60"	84" x 71 1/4"	84 3/4" x 71 3/4"
2610	30" x 12"	30" x 16"	30 3/4" x 16 1/2"	4036	48" x 42"	48" x 48 7/16"	48 3/4" x 48 15/16"	7060	84" x 72"	84" x 83 1/4"	84 3/4 x 83 3/4'
2616	30" x 18"	30" x 22"	30 3/4" x 22 1/2"	4040	48" x 48"	48" x 54 7/16"	48 3/4" x 54 15/16"	7070	84" x 84"	84" x 95 1/4"	84 3/4" x 95 3/4"
2620	30" x 24"	30" x 28"	30 3/4" x 28 1/2"	4046	48" x 54"	48" x 60 7/16"	48 3/4" x 60 15/16"	8010	96" x 12"	96" x 24 7/8"	96 3/4" x 25 3/8"
2630	30" x 36"	30" x 40"	30 3/4" x 40 1/2"	4050	48" x 60"	48" x 66 7/16"	48 3/4" x 66 15/16"	8016	96" x 18"	96" x 30 7/8"	96 3/4" x 31 3/8"
2636	30" x 42"	30" x 46"	30 3/4" x 46 1/2"	4056	48" x 66"	48" x 72 7/16"	48 3/4" x 72 15/16"	8020	96" x 24"	96" x 36 7/8"	96 3/4" x 31 3/8"
2640	30" x 48"	30" x 52"	30 3/4" x 52 1/2"	4060	48" x 72"	48" x 78 7/16"	48 3/4" x 78 15/16"	8030	96" x 36"	96" x 48 7/8"	96 3/4" x 49 3/8"
2646	30" x 54"	30" x 58"	30 3/4" x 58 1/2"	4070	48" x 84"	48" x 90 7/16"	48 3/4" x 90 15/16"	8036	96" x 42"	96" x 54 7/8"	96 3/4" x 55 3/8"
2650	30" x 60"	30" x 64"	30 3/4" x 64 1/2"	4080	48" x 96"	48" x 102 7/16"	48 3/4" x 102 15/16"	8040	96" x 48"	96" x 60 7/8"	96 3/4" x 61 3/8"
2656	30" x 66"	30" x 70"	30 3/4" x 70 1/2"	5010	60" x 12"	60" x 20 1/16"	60 3/4" x 20 9/16"	8050	96" x 60"	96" x 72 7/8"	96 3/4" x 73 3/8"
2660	30" x 72"	30" x 76"	30 3/4" x 76 1/2"	5016	60" x 18"	60" x 26 1/16"	60 3/4" x 26 9/16"	9010	108" x 12"	108" x 26 1/2"	108 3/4" x 27"
2670	30" x 84"	30" x 88"	30 3/4" x 88 1/2"	5020	60" x 24"	60" x 32 1/16"	60 3/4" x 32 9/16"	9016	108" x 18"	108" x 32 1/2"	108 3/4" x 33"
2680	30" x 96"	30" x 100"	30 3/4" x 100 1/2"	5030	60" x 36"	60" x 44 1/16"	60 3/4" x 44 9/16"	9020	108" x 24"	108" x 38 1/2"	108 3/4" x 39"
2810	32" x 12"	32" x 16 5/16"	32 3/4" x 16 13/16"	5036	60" x 42"	60" x 50 1/16"	60 3/4" x 50 9/16"	9030	108" x 36"	108" x 50 1/2"	108 3/4" x 51"
2816	32" x 18"	32" x 22 5/16"	32 3/4" x 22 13/16"	5040	60" x 48"	60" x 56 1/16"	60 3/4" x 56 9/16"	9036	108" x 42"	108" x 56 1/2"	108 3/4" x 57"
2820	32" x 24"	32" x 28 5/16"	32 3/4" x 28 13/16"	5046	60" x 54"	60" x 62 1/16"	60 3/4" x 62 9/16"	9040	108" x 48"	108" x 62 1/2"	108 3/4" x 63"
2830	32" x 36"	32" x 40 5/16"	32 3/4" x 40 13/16"	5050	60" x 60"	60" x 68 1/16"	60 3/4" x 68 9/16"				

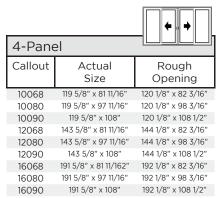


Sliding Patio Doors



Sidelite for 2-Panel Sliding Door						
Callout	Actual Size	Rough Opening				
2668	30 1/2" x 81 11/16"	31 1/4" x 82 3/16"				
2680	30 1/2" x 97 11/16"	31 1/4" x 98 3/16"				
2690	30 1/2" x 109 11/16"	31 1/4" x 110 3/16"				
26100	30 1/2" x 120"	31 1/4" x 120 1/2"				
3068	36 1/2" x 81 11/16"	37 1/4" x 82 3/16"				
3080	36 1/2" x 97 11/16"	37 1/4" x 98 3/16"				
3090	36 1/2" x 109 11/16"	37 1/4" x 110 3/16"				
30100	36 1/2" x 120"	37 1/4" x 120 1/2"				
4068	48 1/2" x 81 11/16"	49 1/4" x 82 3/16"				
4080	48 1/2" x 97 11/16"	49 1/4" x 98 3/16"				
4090	48 1/2" x 109 11/16"	49 1/4" x 110 3/16"				
40100	48 1/2" x 120"	49 1/4" x 120 1/2"				





Sidelite for 3- & 4-Panel Sliding Door							
Callout	Actual Size	Rough Opening					
2668	30 1/2" x 81 11/16"	31 1/4" x 82 3/16"					
2680	30 1/2" x 97 11/16"	31 1/4" x 98 3/16"					
2690	30 1/2" x 108"	31 1/4" x 108 1/2"					
3068	36 1/2" x 81 11/16"	37 1/4" x 82 3/16"					
3080	36 1/2" x 97 11/16"	37 1/4" x 98 3/16"					
3090	36 1/2" x 108"	37 1/4" x 108 1/2"					
4068	48 1/2" x 81 11/16"	49 1/4" x 82 3/16"					
4080	48 1/2" x 97 11/16"	49 1/4" x 98 3/16"					
4090	48 1/2" x 108"	49 1/4" x 108 1/2"					

Transo	m	
Callout	Actual	Rough
Canout	Size	Opening
5010	59 7/16" x 12"	60 3/16" x 12 1/2"
5012	59 7/16" x 14"	60 3/16" x 14 1/2"
5014	59 7/16" x 16"	60 3/16" x 16 1/2"
5016	59 7/16" x 18"	60 3/16" x 18 1/2"
5020	59 7/16" x 24"	60 3/16" x 24 1/2"
5026	59 7/16" x 30"	60 3/16" x 30 1/2"
5028	59 7/16" x 32"	60 3/16" x 32 1/2"
5030	59 7/16" x 36"	60 3/16" x 36 1/2"
5034	59 7/16" x 40"	60 3/16" x 40 1/2"
5036	59 7/16" x 42"	60 3/16" x 42 1/2"
5040	59 7/16" x 48"	60 3/16" x 48 1/2"
6010 6012	71 7/16" x 12" 71 7/16" x 14"	72 3/16" x 12 1/2" 72 3/16" x 14 1/2"
6012	71 7/16" x 14"	72 3/16" x 14 1/2"
6016	71 7/16" x 18"	72 3/16" x 18 1/2"
6020	71 7/16" x 24"	72 3/16" x 24 1/2"
6026	71 7/16" × 30"	72 3/16" x 30 1/2"
6028	71 7/16" x 32"	72 3/16" x 32 1/2"
6030	71 7/16" x 36"	72 3/16" x 36 1/2"
6034	71 7/16" x 40"	72 3/16" x 40 1/2"
6036	71 7/16" x 42"	72 3/16" x 42 1/2"
6040	71 7/16" x 48"	72 3/16" x 48 1/2"
7610	89 7/16" x 12"	90 3/16" x 12 1/2"
7612	89 7/16" x 14"	90 3/16" x 14 1/2"
7614	89 7/16" x 16"	90 3/16" x 16 1/2"
7616	89 7/16" x 18"	90 3/16" x 18 1/2"
7620	89 7/16" x 24" 89 7/16" x 30"	90 3/16" x 24 1/2"
7626 7628	89 7/16 × 30 89 7/16" × 32"	90 3/16" x 30 1/2" 90 3/16" x 32 1/2"
7630	89 7/16" x 36"	90 3/16" x 36 1/2"
7634	89 7/16" x 40"	90 3/16" x 40 1/2"
7636	89 7/16" x 42"	90 3/16" x 42 1/2"
7640	89 7/16" x 48"	90 3/16" x 48 1/2"
8010	95 7/16" x 12"	96 3/16" x 12 1/2"
8012	95 7/16" x 14"	96 3/16" x 14 1/2"
8014	95 7/16" x 16"	96 3/16" x 16 1/2"
8016	95 7/16" x 18"	96 3/16" x 18 1/2"
8020	95 7/16" x 24"	96 3/16" x 24 1/2"
8026	95 7/16" x 30"	96 3/16" x 30 1/2"
8028	95 7/16" x 32"	96 3/16" x 32 1/2"
8030	95 7/16" x 36"	96 3/16" x 36 1/2"
8034	95 7/16" x 40" 95 7/16" x 42"	96 3/16" x 40 1/2" 96 3/16" x 42 1/2"
8036 8040	95 7/16 × 42 95 7/16" × 48"	96 3/16" x 42 1/2" 96 3/16" x 48 1/2"
9010	107 7/16" x 12"	108 3/16" x 12 1/2"
9012	107 7/16" x 12"	108 3/16" x 14 1/2"
9014	107 7/16" x 16"	108 3/16" x 16 1/2"
9016	107 7/16" x 18"	108 3/16" x 18 1/2"
9020	107 7/16" x 24"	108 3/16" x 24 1/2"
9026	107 7/16" x 30"	108 3/16" x 30 1/2"
9028	107 7/16" x 32"	108 3/16" x 32 1/2"
9030	107 7/16" x 36"	108 3/16" x 36 1/2"
9034	107 7/16" x 40"	108 3/16" x 40 1/2"
9036	107 7/16" x 42" 107 7/16" x 48"	108 3/16" x 42 1/2"
9040	107 //16" x 48" 119 5/8" x 12"	108 3/16" x 48 1/2" 120 3/8" x 12 1/2"
10010	119 5/8" x 12 119 5/8" x 14"	120 3/8" x 12 1/2"
10012	119 5/8" x 14"	120 3/8" x 16 1/2"
10014	119 5/8" x 18"	120 3/8" x 18 1/2"
10010	119 5/8" x 24"	120 3/8" x 24 1/2"
10026	119 5/8" x 30"	120 3/8" x 30 1/2"
10028	119 5/8" x 32"	120 3/8" x 32 1/2"
10030	119 5/8" x 36"	120 3/8" x 36 1/2"
10034	119 5/8" x 40"	120 3/8" x 40 1/2"
10036	119 5/8" x 42"	120 3/8" x 42 1/2"
10040	119 5/8" x 48"	120 3/8" x 48 1/2"



Inswing & Outswing Patio Doors

2-Panel								
Callout	Actual Size	Rough Opening						
5068	59 1/8" x 79 1/2"	59 7/8" x 80"						
50610	59 1/8" x 82 3/8"	59 7/8" x 82 7/8"						
5080	59 1/8" x 95 3/8"	59 7/8" x 95 7/8"						
5090	59 1/8" x 107 3/8"	59 7/8" x 107 7/8"						
5468	63 1/8" x 79 1/2"	63 7/8" x 80"						
54610	63 1/8" x 82 3/8"	63 7/8" x 82 7/8"						
5480	63 1/8" x 95 3/8"	63 7/8" x 95 7/8"						
5490	63 1/8" x 107 3/8"	63 7/8" x 107 7/8"						
6068	71 1/8" x 79 1/2"	71 7/8" x 80"						
60610	71 1/8" x 82 3/8"	71 7/8" x 82 7/8"						
6080	71 1/8" x 95 3/8"	71 7/8" x 95 7/8"						
6090	71 1/8" x 107 3/8"	71 7/8" x 107 7/8"						
6468	76 3/8" x 79 1/2"	77 1/8" x 80"						
64610	76 3/8" x 82 3/8"	77 1/8" x 82 7/8"						
6480	76 3/8" x 95 3/8"	77 1/8" x 95 7/8"						
6490	76 3/8" x 107 3/8"	77 1/8" x 107 3/8"						

Additional sizes with ADA sills may
be available on some inswing and
outswing doors

1-Panel							
Callout	Actual Size	Rough Opening					
2668	30 1/4" x 79 1/2"	31" x 80"					
26610	30 1/4" x 82 3/8"	31" x 82 7/8"					
2680	30 1/4" x 95 3/8"	31" x 95 7/8"					
2690*	30 1/4" x 107 3/8"	31" x 107 7/8"					
2868	32 1/4" x 79 1/2"	33" x 80"					
28610	32 1/4" x 82 3/8"	33" x 82 7/8"					
2880	32 1/4" x 95 3/8"	33" x 95 7/8"					
2890*	32 1/4" x 107 3/8"	33" x 107 7/8"					
3068	36 1/4" x 79 1/2"	37" x 80"					
30610	36 1/4" x 82 3/8"	37" x 82 7/8"					
3080	36 1/4" x 95 3/8"	37" x 95 7/8"					
3090*	36 1/4" x 107 3/8"	37" x 107 7/8"					
3268	38 7/8" x 79 1/2"	39 5/8" x 80"					
32610	38 7/8" x 82 3/8"	39 5/8" x 82 7/8"					
3280	38 7/8" x 95 3/8"	39 5/8" x 95 7/8"					
3290*	38 7/8" x 107 3/8"	39 5/8" x 107 7/8"					

^{* =} Contains 32" Clear Opening

Sidelite								
Callout	Actual Size	Rough Opening						
2668	30 1/4" x 79 1/2"	31" x 80"						
26610	30 1/4" x 82 3/8"	31" x 82 7/8"						
2680	30 1/4" x 95 3/8"	31" x 95 7/8"						
2690	30 1/4" x 107 3/8"	31" x 107 7/8"						
2868	32 1/4" x 79 1/2"	33" x 80"						
28610	32 1/4" x 82 3/8"	33" x 82 7/8"						
2880	32 1/4" x 95 3/8"	33" x 95 7/8"						
2890	32 1/4" x 107 3/8"	33" x 107 7/8"						
3068	36 1/4" x 79 1/2"	37" x 80"						
30610	36 1/4" x 82 3/8"	37" x 82 7/8"						
3080	36 1/4" x 95 3/8"	37" x 95 7/8"						
3090	36 1/4" x 107 3/8"	37" x 107 7/8"						
3268	38 7/8" x 79 1/2"	39 5/8" x 80"						
32610	38 7/8" x 82 3/8"	39 5/8" x 82 7/8"						
3280	38 7/8" x 95 3/8"	39 5/8" x 95 7/8"						
3290	38 7/8" x 107 3/8"	39 5/8" x 107 7/8"						

Transo	m										
Callout	Actual Size	Rough Opening	Callout	Actual Size	Rough Opening	Callout	Actual Size	Rough Opening	Callout	Actual Size	Rough Opening
2612	30 1/4" x 14"	31" x 14 1/2"	3012	36 1/4" x 14"	37" x 14 1/2"	5012	59 1/8" x 14"	59 7/8" x 14 1/2"	6012	71 1/8" x 14"	71 7/8" x 14 1/2"
2614	30 1/4" x 16"	31" x 16 1/2"	3014	36 1/4" x 16"	37" x 16 1/2"	5014	59 1/8" x 16"	59 7/8" x 16 1/2"	6014	71 1/8" x 16"	71 7/8" x 16 1/2"
2616	30 1/4" x 18"	31" x 18 1/2"	3016	36 1/4" x 18"	37" x 18 1/2"	5016	59 1/8" x 18"	59 7/8" x 18 1/2"	6016	71 1/8" x 18"	71 7/8" x 18 1/2"
2620	30 1/4" x 24"	31" x 24 1/2"	3020	36 1/4" x 24"	37" x 24 1/2"	5020	59 1/8" x 24"	59 7/8" x 24 1/2"	6020	71 1/8" x 24"	71 7/8" x 24 1/2"
2626	30 1/4" x 30"	31" x 30 1/2"	3026	36 1/4" x 30"	37" x 30 1/2"	5026	59 1/8" x 30"	59 7/8" x 30 1/2"	6026	71 1/8" x 30"	71 7/8" x 30 1/2"
2812	32 1/4" x 14"	33" x 14 1/2"	3212	38 7/8" x 14"	39 5/8" x 14 1/2"	5412	63 1/8" x 14"	63 7/8" x 14 1/2"	6412	77 1/8" x 14"	77 7/8" x 14 1/2"
2814	32 1/4" x 16"	33" x 16 1/2"	3214	38 7/8" x 16"	39 5/8" x 16 1/2"	5414	63 1/8" x 16"	63 7/8" x 16 1/2"	6414	77 1/8" x 16"	77 7/8" x 16 1/2"
2816	32 1/4" x 18"	33" x 18 1/2"	3216	38 7/8" x 18"	39 5/8" x 18 1/2"	5416	63 1/8" x 18"	63 7/8" x 18 1/2"	6416	77 1/8" x 18"	77 7/8" x 18 1/2"
2820	32 1/4" x 24"	33" x 24 1/2"	3220	38 7/8" x 24"	39 5/8" x 24 1/2"	5420	63 1/8" x 24"	63 7/8" x 24 1/2"	6420	77 1/8" x 24"	77 7/8" x 24 1/2"
2826	32 1/4" x 30"	33" x 30 1/2"	3226	38 7/8" x 30"	39 5/8" x 30 1/2"	5426	63 1/8" x 30"	63 7/8" x 30 1/2"	6426	77 1/8" x 30"	77 7/8" x 30 1/2"

Size Limitations	Additional parameters concerning sizes, glass limitations, united inch limitations, radius minimums and hardware restrictions may apply. Quaker Window Products reserves the right to change above information without notice.							
Product	Minimum Width	Minimum Height	Maximum Width	Maximum Height	Maximum United Inch			
Casement (Crank Out)	24"	18"	48" (36"/4-bar hdwe.)	96"	132"			
Casement (Push Out)	14"	18"	36"	72"	*			
Awning (Crank Out)	22 5/8"	22"	72"	84"	120"			
Awning (Push Out)	14"	14"	72"	48"	*			
Picture Window (Direct Set)	12"	10"	120"	120"	205"			
Arch Head Picture Window (Direct Set)	10"	12" (short height)	120"	120" (overall height)	192"			
Circle (Direct Set)	30"	30"	72"	72"	*			
Oval (Direct Set)	24"	24"	72"	72"	*			
Elliptical (Direct Set)	36"	18"	120"	59"	*			
Octagon (Direct Set)	18"	18"	96"	96"	*			
Extended Octagon (Direct Set)	18"	18"	84"	84"	*			
Quarter Round (Direct Set)	9"	9"	74"	74"	*			
Half Round (Direct Set)	18"	9"	108"	54"	*			
Hinged Patio Door (1-Panel)	24"	72"	48"	120"	*			
Hinged Patio Door (2-Panel)	48"	72"	84"	120"	*			
Sliding Patio Door (2-Panel)	48"	48"	120"	120"	*			
Sliding Patio Door (3-Panel)	76 3/8"	48"	180"	120"	*			
Sliding Patio Door (4-Panel)	100 1/16"	48"	240"	120"	*			
Patio Door Sidelite	22"	24"	96"	120"	*			
Patio Door Transom (Direct Set)	16"	12"	120"	98"	*			





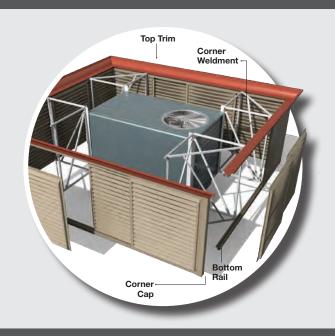




Innovative Rooftop Screens

Attractive, code-compliant and long lasting, Envisor equipment screens offer affordable, elegant, customized screening solutions that blend into the overall design, all with no rooftop penetration. Our patented roof screen system provides practical solutions for municipal screening requirements of HVAC units, chillers, air handlers, power exhausts, roof stacks and communication equipment. You name it, we can screen it!

- Zero Rooftop Penetration
- ABS or Metal
- Sliding Panels for Easy Service Access





THE LEADING ROOF SCREEN CHOICE OF ARCHITECTS, BUILDING OWNERS AND CONTRACTORS FOR MORE THAN 20 YEARS.







DESIGN OPTIONS

Envisor screens are the perfect alternative to parapet walls and they satisfy even the strictest screening code requirements. Both styles feature our patented attachment method, which secures our screens directly to the equipment with no rooftop penetration. Post mounted option is also available. Screen heights are available to shield virtually anything you desire.



PANEL STYLES

Panels are available in ten standard styles, allowing you to match or coordinate with the building design. The panels are constructed of thermoformed, high-impact ABS with a co-extruded UV protective layer on both sides or choose one of our metal series options in a variety of thicknesses and finishes. The panels are held firmly in place using a rust-free, double tracked aluminum rail system. This enables the panels to slide side-to-side for easy access to the unit during servicing and maintenance.

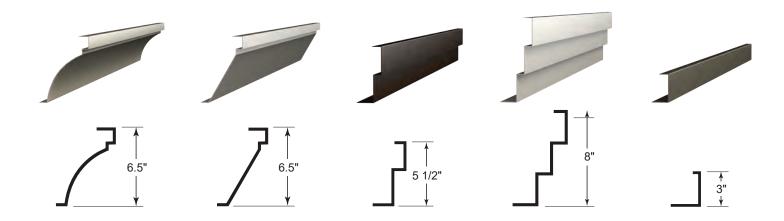
PAN



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TOP TRIM STYLES

OPTIONAL — Decorative top trim options offer the flexibility to further customize the elegant appearance of the screens by picking up building design elements and incorporating those details into the screen. Although optional, they offer one more way to make screens part of the design, not part of the problem. *Prices vary by style*.



COLORS

Our designer colors complement most architectural applications, but don't let standard colors limit your creativity. We have the ability to match any cross-referenced color specifications. Send us samples to match. We've even matched a color to a rock! Colors are approximations. Please call for actual samples.

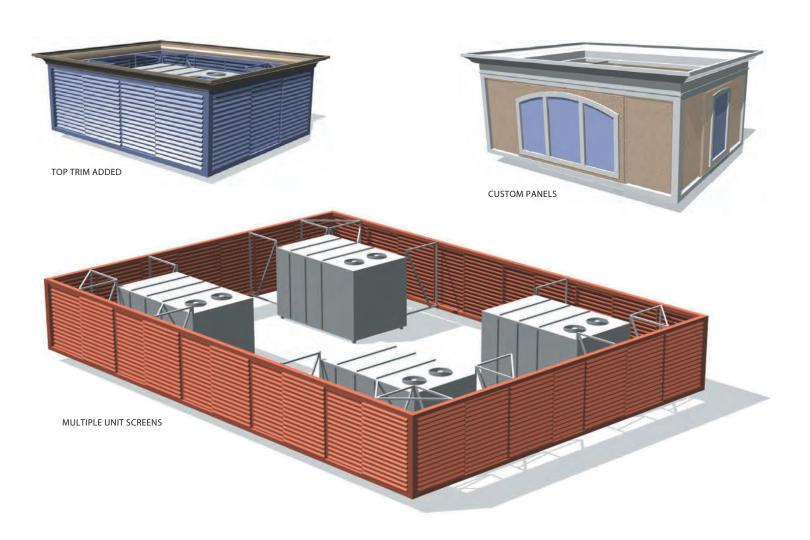


Need a custom color? Provide a Sherwin Williams or PMS code and we can color match.



CUSTOM SOLUTIONS

Envisor equipment screens can be manufactured in a limitless combination of shapes and configurations to help reduce cost, add to the aesthetics of a building or both. Let us design one for you! Just tell us the equipment manufacturer, the model numbers and any special requirements you might have. *Additional costs may apply.



Call **(877) 727-3367** today or visit our website at **cityscapesinc.com**.











THE COMPLETE SOLUTION

We get it. You're busy. We want you to be able to focus on the parts of your project that matter most to you. That's why we provide each customer with a project manager — a single point of contact. Tell us what you need and we'll coordinate everything from design and engineering to manufacturing and installation so you can spend your time on more important things.



architectural innovations

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RESIDENTIAL LINER GARAGE PARKING

Preliminary Development Plan August 7, 2025



















² Glen-Gery Iberia Black or Similar Color



3 Equitone Natura Pro fiber cement or Similar product



4. US Brick Chestnut Velour or Similar Color



5 Custom Tubelite Aluminum Extrusion or Similar product



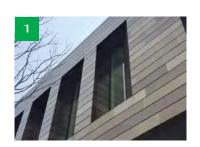


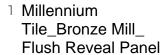














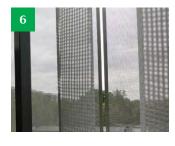
² Glen-Gery Iberia Black or Similar Color



3 Equitone Natura Pro fiber cement or Similar product



4 US Brick Chestnut Velour or Similar Color



6 FlexFacades Tensile architecture mesh TeleGrey/Copper/ Anthracite or Similar product



7 Tubelite Storefront



8 CORTEN STEEL





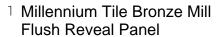










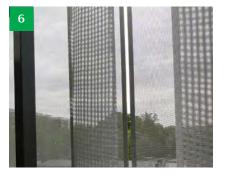




4 US Brick Chestnut Velour or Similar Color



5 Custom Tubelite Aluminum Extrusion or Similar product



6 FlexFacades Tensile architecture mesh TeleGrey/Copper/Anthracite or Similar product



7 Tubelite Storefront



8 CORTEN STEEL















1 Millennium Tile_Bronze Mill_ Flush Reveal Panel



² Glen-Gery Iberia Black or Similar Color



3 Equitone Natura Pro fiber cement or Similar product



⁴ US Brick Chestnut Velour or Similar Color



5 Custom Tubelite Aluminum Extrusion or Similar product



6 FlexFacades Tensile architecture mesh TeleGrey/Copper/A nthracite

or Similar product



7 Tubelite Storefront





























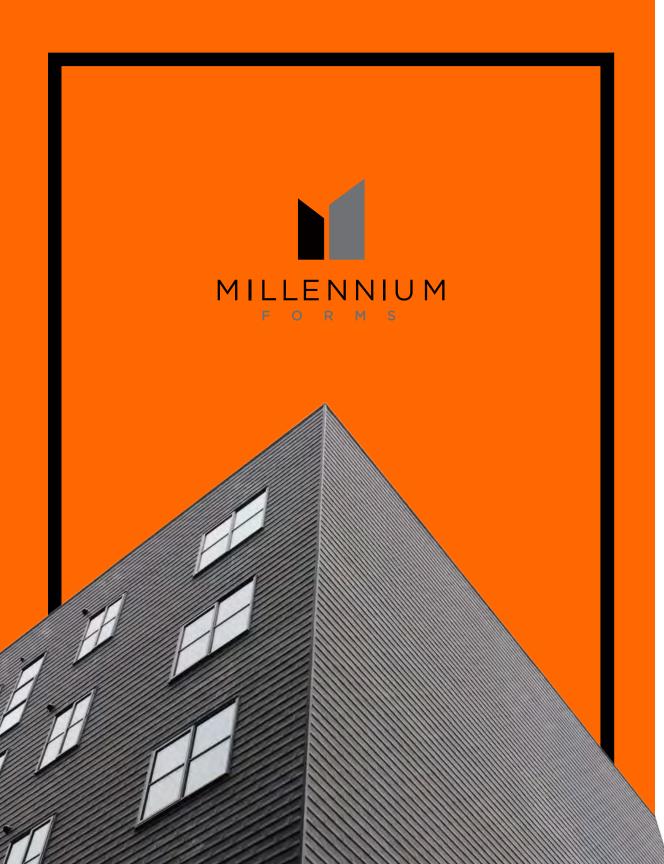






BOLDNESS THAT INSPIRES. BRILLIANCE THAT ENDURES.





OVERVIEW

You need a building form product that expresses the vision, energy, and purpose of your space – and one that creates an impactful experience. The good news is that you don't have to settle for ordinary. At Millennium Forms, we help you deliver the extraordinary – with vibrant, dimensional, and captivating building forms. In fact, our forms are highly sought after and utilized worldwide because they're built differently, and we're built differently. Our team of Color Masters create one-of-a-kind colors for your building forms that not only look spectacular, but enable your space to provoke an emotional response. Plus, we take the guess work out of bringing your forms to life by ensuring there are minimal parts and pieces, and no complex equipment needed, to complete installation. Bottom line: no matter the specific goals or needs for your custom environment, we partner with you to ensure you can deliver boldness that inspires, and brilliance that endures. Millennium Forms – Saving the World from Boring Buildings Since 2001.

OUR VISION

To create a point of pride in every community.

OUR MISSION

We craft vibrant, dimensional, and captivating building forms that create extraordinary experiences.

THE MILLENNIUM FORMS DIFFERENCE

NOT JUST A VENDOR

We partner with your design / build and install teams throughout the process to ensure you know exactly how to leverage our products in your custom environment.

MADE BY ARTISTS

Our team of Color Masters create one-of-a-kind colors for your building forms that not only look spectacular, but enable your space to provoke an emotional response.

EASY TO INSTALL

We take the guesswork out of bringing your forms to life by ensuring there are minimal parts and pieces, and no complex equipment needed, to complete installation.

BE BOLD. BE BRILLIANT.

DO YOU WANT TO MAKE A UNIQUE, DYNAMIC AND ENDURING STATEMENT ON YOUR BUILDING FAÇADE?
MILLENNIUM FORMS IS PROUD TO OFFER BOLD ARCHITECTURAL MATERIALS LIKE NO OTHER – ZALMAG® AND LIC.





LIGHT INTERFERENCE COLOR

LIC is a revolutionary electrochemical process to color stainless steel without the use of dyes or pigments.

Stainless steel is a material renowned for its elegance and durability. At Millennium Forms, we pride ourselves on using only the highest quality 304 and 316 stainless steel, containing 75-85% post-consumer and post-industrial recycled material, and 100% recyclable itself.

Our proprietary LIC process creates a stunning layer on top of stainless steel that behaves like a prism. This creates the changing color that we see on the surface of the metal that is sure to make your building façade truly unique. Whether it's a light or dark shade you're after, our LIC process offers a brilliant range of colors, all of which are influenced by the environment, light, weather, and the angle at which you observe. Experience the beauty and durability of LIC-enhanced stainless steel with Millennium Forms.











Zinc – Heals the material's scratches & edges
Aluminum – Increases corrosion resistance
Magnesium – Renders the material impenetrable

Starting with a carbon steel base, the coating is forged from an arduous melding process of zinc, aluminum and magnesium. Not only does ZALMAG® give you one-of-a-kind beauty, but it has incomparable tensile strength and wind load capabilities so your design will last a lifetime.

Above the impressive performance characteristics, architects and visionaries choose ZALMAG® for its unique patina aging process, which provides an extraordinary, ever-changing appearance to add visual interest to any structure.

ZALMAG® is a highly corrosion - resistant, hot dip coated steel that has a coating layer of Zinc, Aluminum, and Magnesium. Additionally, ZALMAG® has superior scratch resistance with unique self-healing characteristics that make it the perfect material for perforating and a great solution for all environments.



COLORING PROCESS

Our Light Interference Color (LIC) process produces variations in color on natural material, EVERY TIME. Each one of our colors is produced in a range, light through dark.

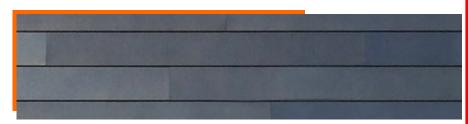
With every color we produce on stainless steel tiles and panels, the appearance will differ due to the base material, finish, even the light available, height, and angle you observe it from. The color you experience is altered by environmental factors and all surrounding materials. Later, when your Submittals are sent for approval, you will see the hue your project-specific material will exhibit.

BRILLIANT ADVANTAGES OF LIC

One brilliant advantage of LIC is that the surface of the material is not affected by UV rays. Nor will it fade, whereas painted, pigmented, or dyed products tend to. The boldest advantage of LIC is the artistic styles that our colors and finishes provide, unlike painted or anodized products. Due to the nature of the LIC process, our products will always have natural variants in color to provide you with an exuberant design.

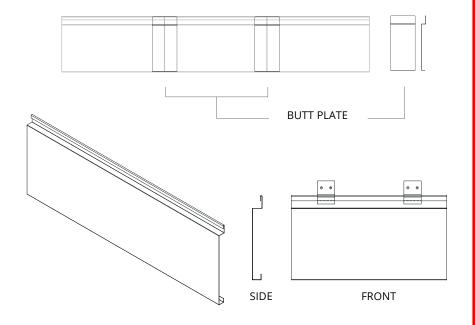


PANELS



FLUSH REVEAL PANEL (BUTT JOINT)

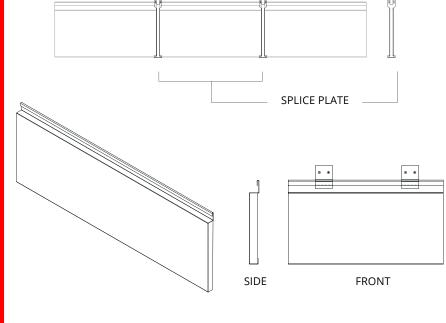
The profile of the Flush Reveal Panels offers a linear emphasis. Installation using butt plates allows the panels to lay flush against each other with no vertical reveal. Choice of horizontal reveal and face dimensions can be easily adjusted to your needs.





FLUSH REVEAL PANEL (CASSETTE JOINT)

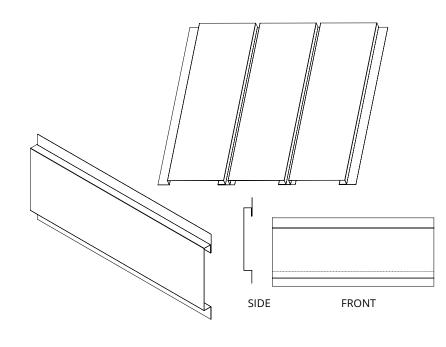
The profile of the Flush Reveal Panels offers a linear emphasis. A vertical and horizontal reveal is achieved using splice plates, exposing the cassette ends on each panel. Choice of reveal and face dimensions can be easily adjusted to your needs.



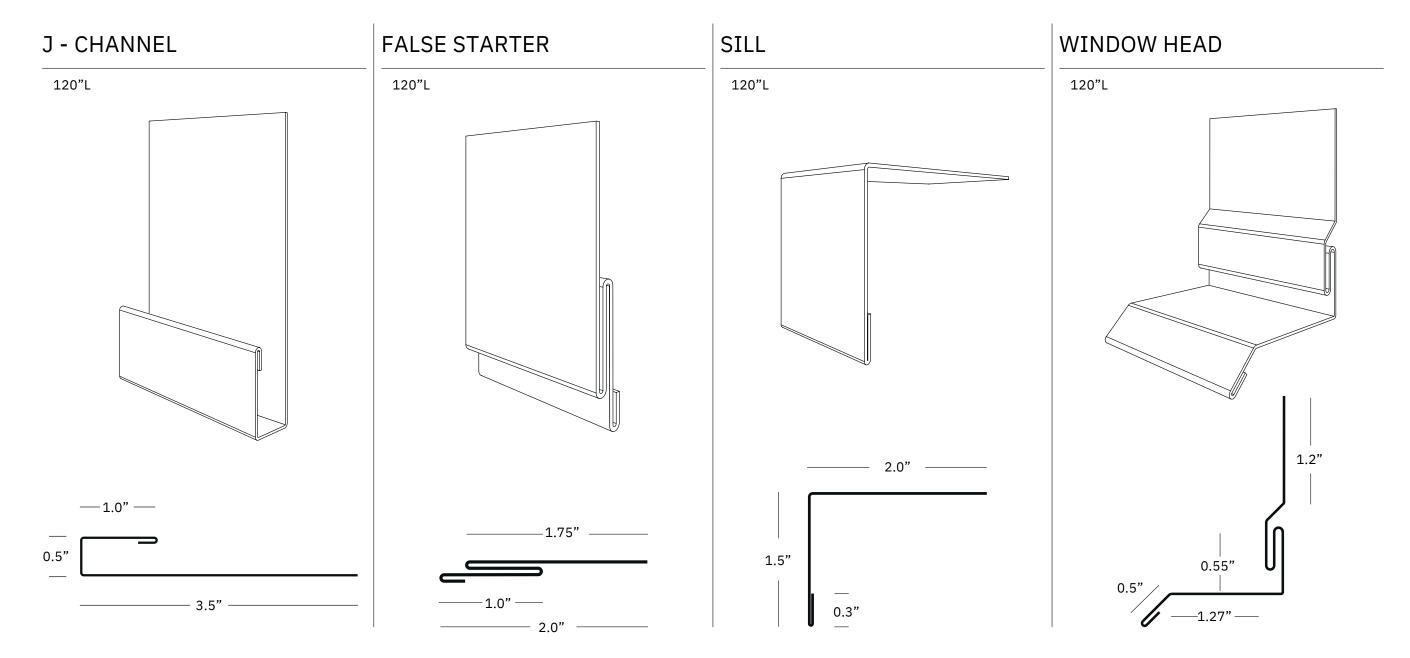


TONGUE & GROOVE BUTT JOINT PANEL

Tongue & Groove panels are an excellent choice for vertical wall and soffit applications where a flush or flat appearance is desired. The built in nailing flange of the Tongue & Groove panels make them the optimal solution for a vertically oriented flush reveal façade.



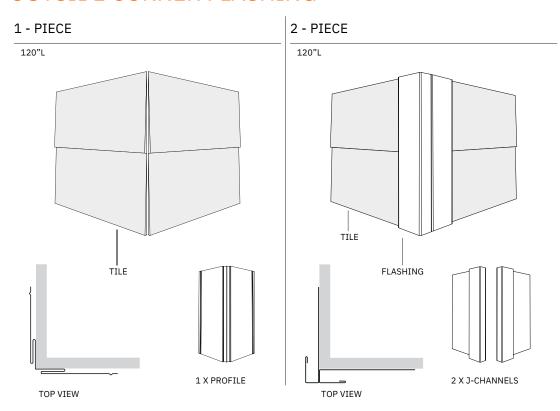
STANDARD WALL FLASHING



CORNER OPTIONS



OUTSIDE CORNER FLASHING



INSIDE CORNER FLASHING

120"L

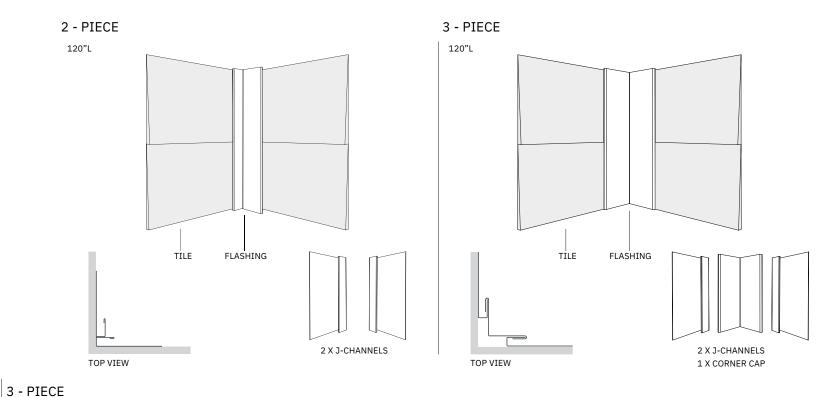
TİLE

TOP VIEW

FLASHING

2 X J-CHANNELS

1 X CORNER CAP



It's all about the finishing touches. We believe a successful project is supported by the execution of its details.

We offer flashing in prefabricated and custom dimensions to give your project a seamless finish.





GET IN TOUCH

Millennium Forms LLC 550 East Centralia Street Elkhorn, WI 53121 U.S.A.

P. 262.723.7778

info@millenniumforms.com

millenniumforms.com



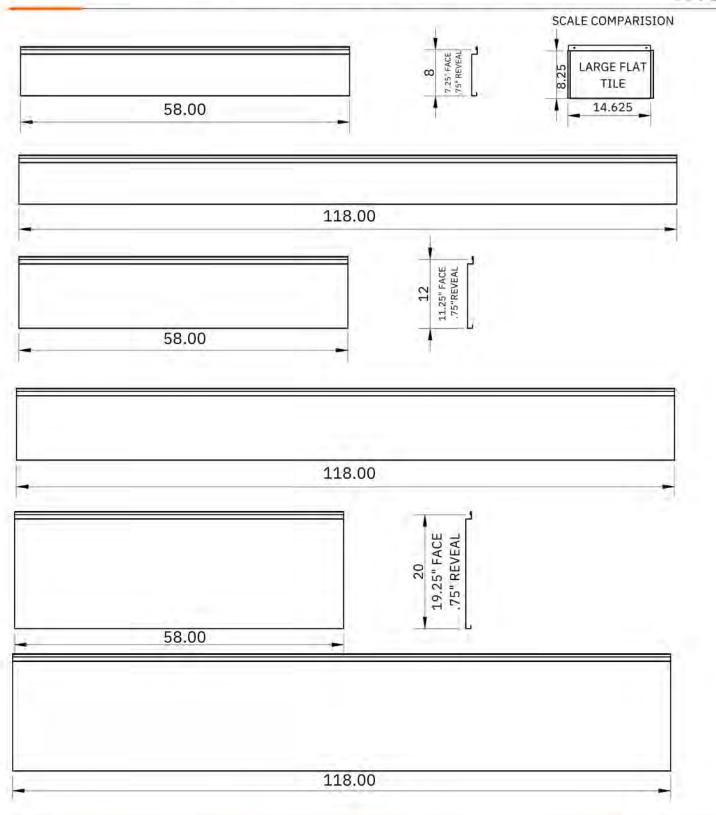


FLUSH REVEAL PANELS



HORIZONTAL FLUSH REVEAL CASSETTE JOINT SIZES

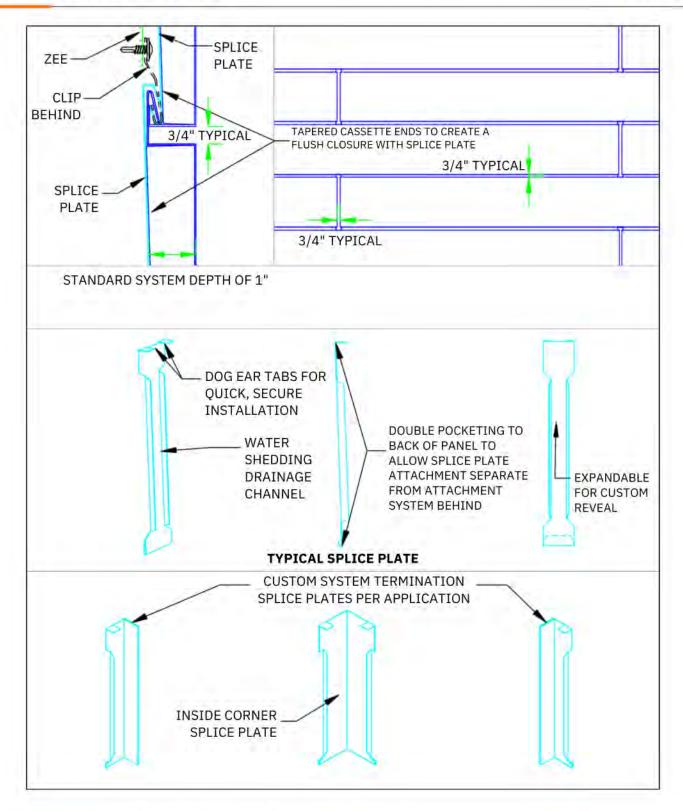




MATERIAL	COLORS	FINISH	SIZES
Stainless Steel	See website for color selection chart	Bright (BA) Mill (2B)	24 gauge - 20 gauge (.025"038" nominal) operational thickness dependent upon panel sizes 1" Deep Maximum Length: Cassette 118", Butt Joint 120"
ZALMAG®	N/A	Natural Pre-Patina II Black	24 gauge - 20 gauge (.025"038" nominal) operational thickness dependent upon panel sizes 1" Deep Maximum Length: Cassette 118", Butt Joint 120"

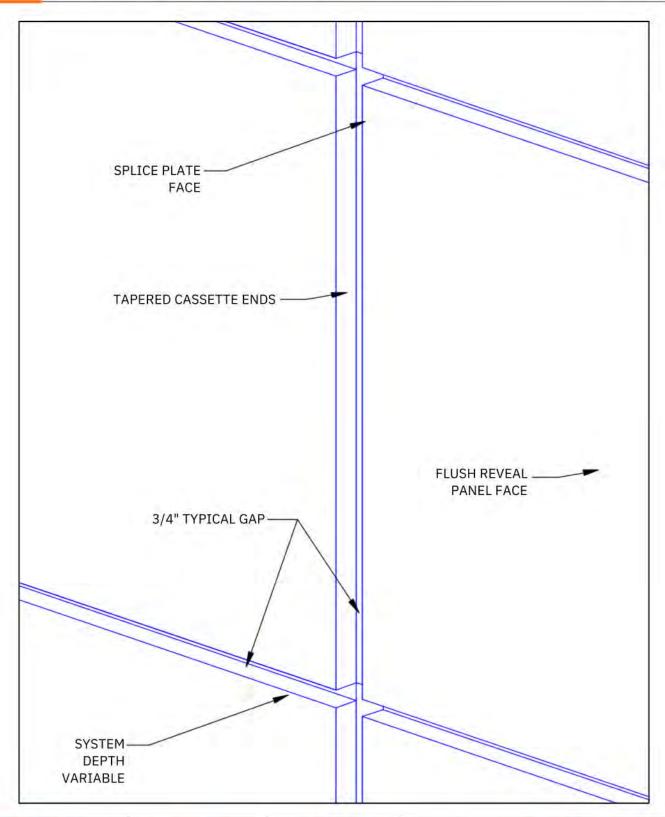
HORIZONTAL FLUSH REVEAL CASSETTE JOINT - SYSTEM DETAILS (SPLICE PLATE)





MATERIAL	COLORS	FINISH	SIZES
Stainless Steel	See website for color selection chart	Bright (BA) Mill (2B)	24 gauge - 20 gauge (.025"038" nominal) operational thickness dependent upon panel sizes 1" Deep Maximum Length: Cassette 118", Butt Joint 120"
ZALMAG®	N/A	Natural Pre-Patina II Black	24 gauge - 20 gauge (.025"038" nominal) operational thicknes dependent upon panel sizes 1" Deep Maximum Length: Cassette 118", Butt Joint 120"

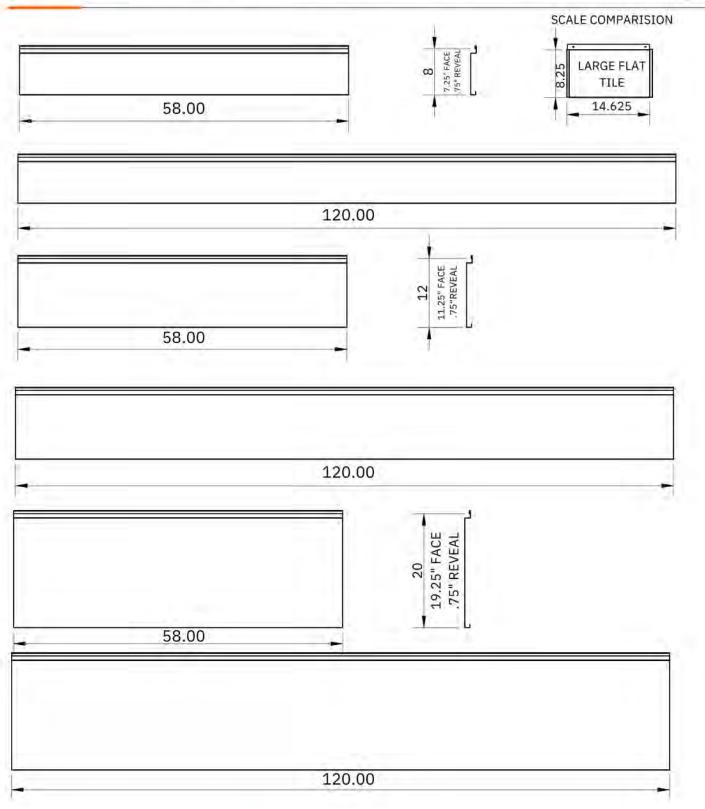




MATERIAL	COLORS	FINISH	SIZES
Stainless Steel	See website for color selection chart	Bright (BA) Mill (2B)	24 gauge - 20 gauge (.025"038" nominal) operational thickness dependent upon panel sizes 1" Deep Maximum Length: Cassette 118", Butt Joint 120"
ZALMAG®	N/A	Natural Pre-Patina II Black	24 gauge - 20 gauge (.025"038" nominal) operational thickness dependent upon panel sizes 1" Deep Maximum Length: Cassette 118", Butt Joint 120"

HORIZONTAL FLUSH REVEAL BUTT JOINT SIZES

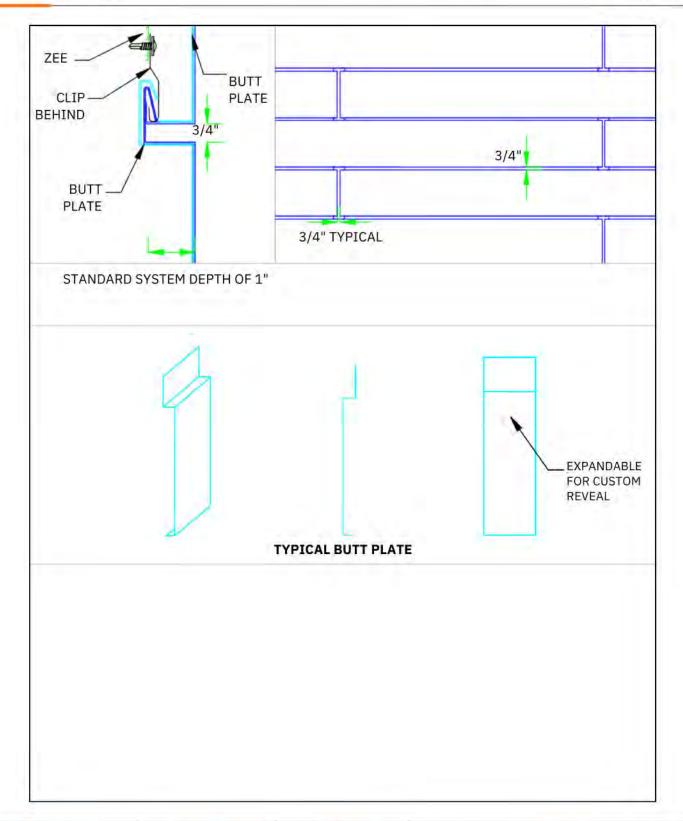




MATERIAL	COLORS	FINISH	SIZES
Stainless Steel	See website for color selection chart	Bright (BA) Mill (2B)	24 gauge - 20 gauge (.025"038" nominal) operational thickness dependent upon panel sizes 1" Deep Maximum Length: Cassette 118", Butt Joint 120"
ZALMAG®	N/A	Natural Pre-Patina II Black	24 gauge - 20 gauge (.025"038" nominal) operational thickness dependent upon panel sizes 1" Deep Maximum Length: Cassette 118", Butt Joint 120"

HORIZONTAL FLUSH REVEAL BUTT JOINT - SYSTEM DETAILS (BUTT PLATE)

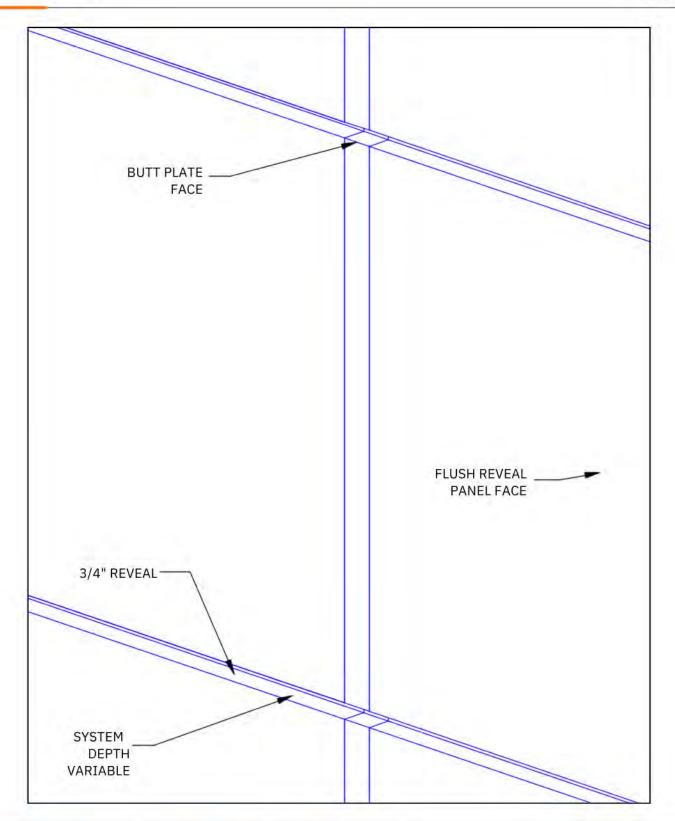




MATERIAL	COLORS	FINISH	SIZES
Stainless Steel	See website for color selection chart	Bright (BA) Mill (2B)	24 gauge - 20 gauge (.025"038" nominal) operational thickness dependent upon panel sizes 1" Deep Maximum Length: Cassette 118", Butt Joint 120"
ZALMAG®	N/A	Natural Pre-Patina II Black	24 gauge - 20 gauge (.025"038" nominal) operational thickness dependent upon panel sizes 1" Deep Maximum Length: Cassette 118", Butt Joint 120"

HORIZONTAL FLUSH REVEAL BUTT JOINT -SYSTEM DETAILS (BUTT PLATE)

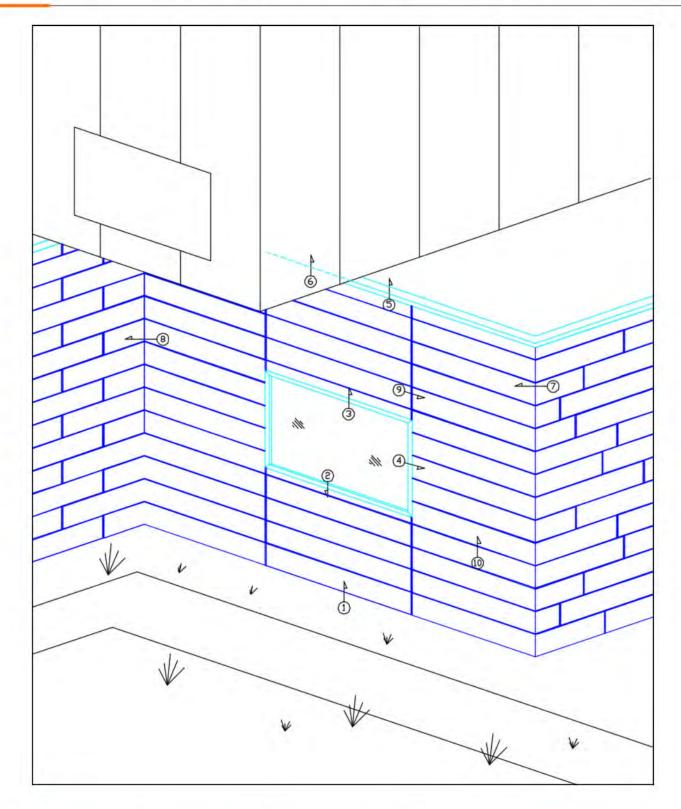




MATERIAL	COLORS	FINISH	SIZES
Stainless Steel	See website for color selection chart	Bright (BA) Mill (2B)	24 gauge - 20 gauge (.025"038" nominal) operational thickness dependent upon panel sizes 1" Deep Maximum Length: Cassette 118", Butt Joint 120"
ZALMAG®	N/A	Natural Pre-Patina II Black	24 gauge - 20 gauge (.025"038" nominal) operational thickness dependent upon panel sizes 1" Deep Maximum Length: Cassette 118", Butt Joint 120"

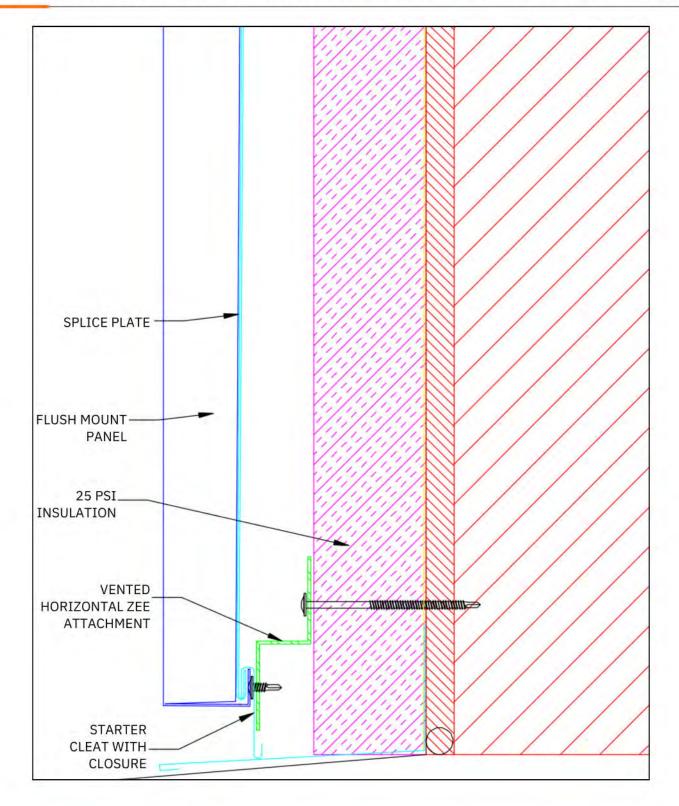
HORIZONTAL FLUSH REVEAL SYSTEM - DETAIL WALL





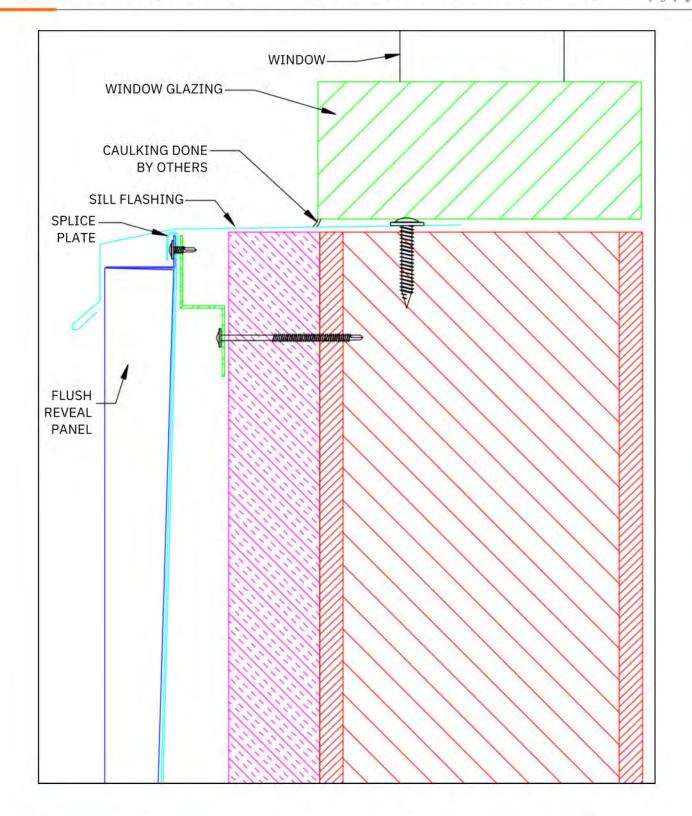
MATERIAL	COLORS	FINISH	SIZES
Stainless Steel	See website for color selection chart	Bright (BA) Mill (2B)	24 gauge - 20 gauge (.025"038" nominal) operational thickness dependent upon panel sizes 1" Deep Maximum Length: Cassette 118", Butt Joint 120"
ZALMAG®	N/A	Natural Pre-Patina II Black	24 gauge - 20 gauge (.025"038" nominal) operational thickness dependent upon panel sizes 1" Deep Maximum Length: Cassette 118", Butt Joint 120"





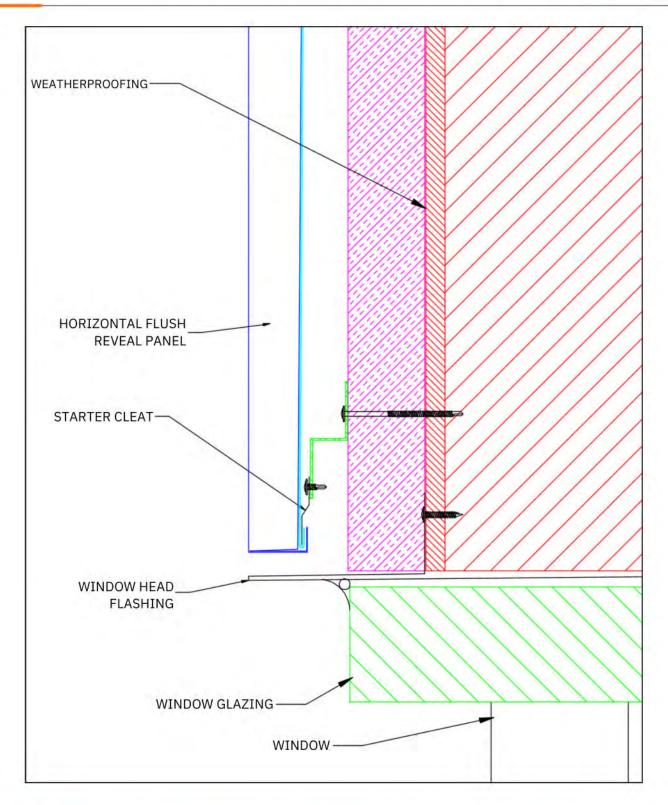
MATERIAL	COLORS	FINISH	SIZES
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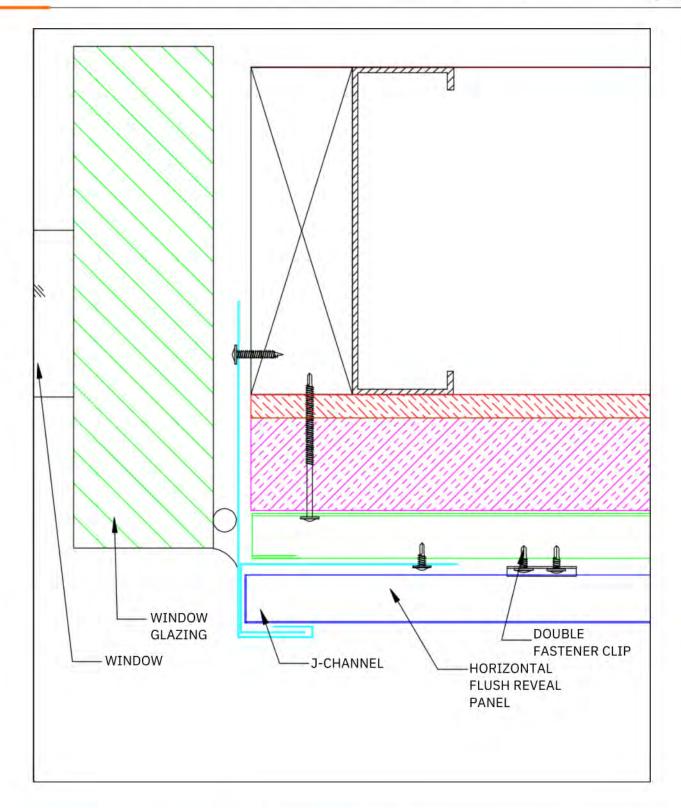
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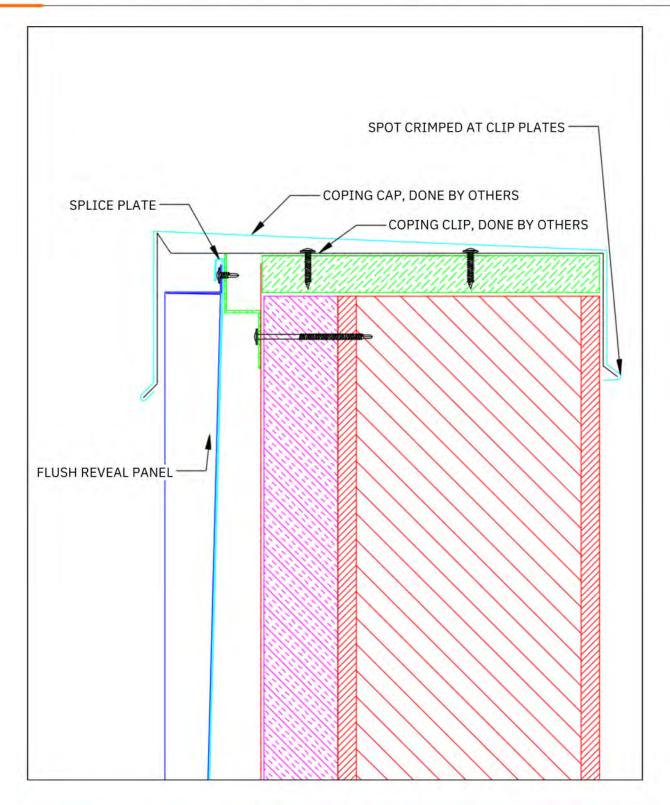
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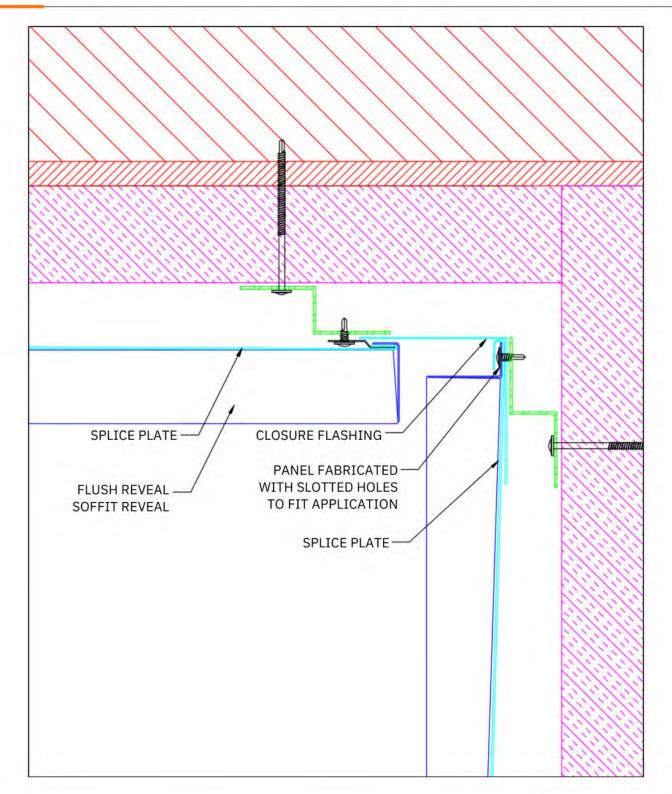
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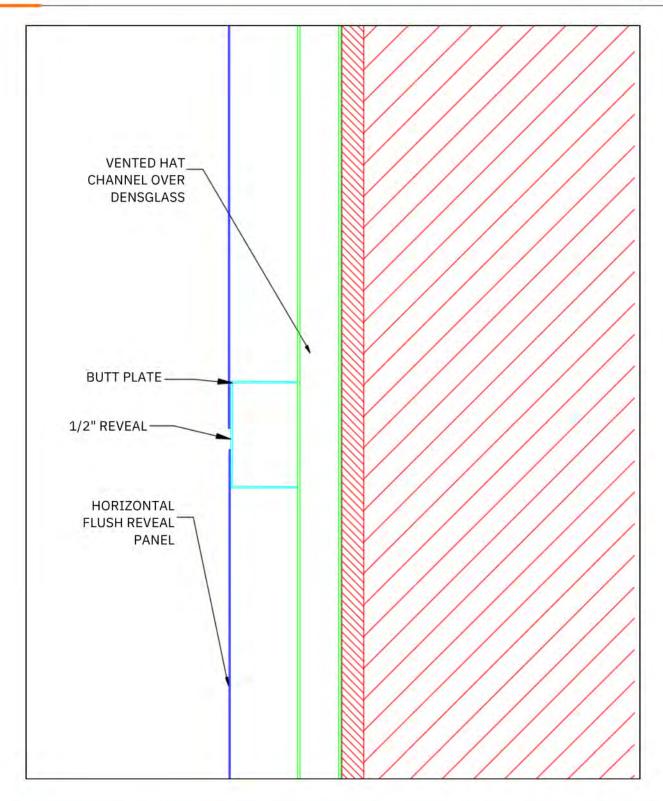
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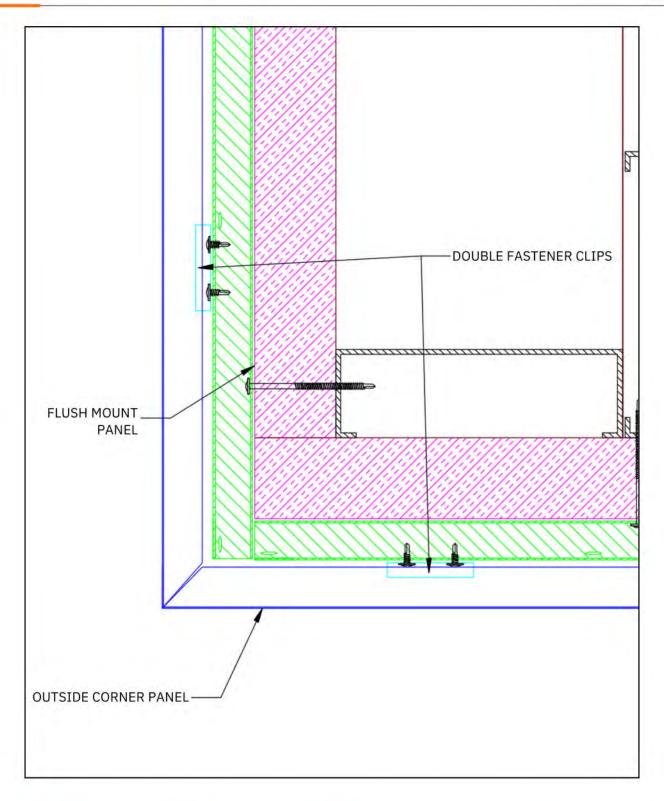
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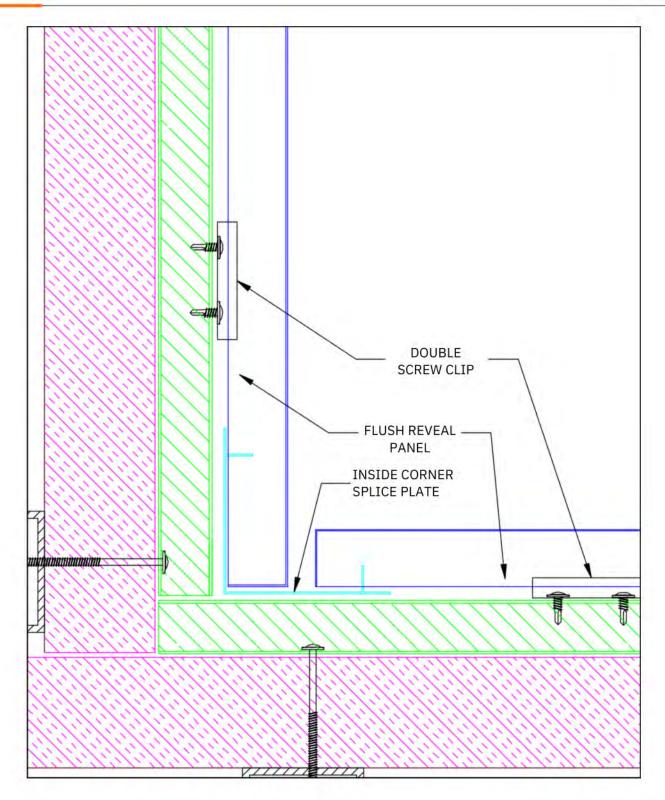
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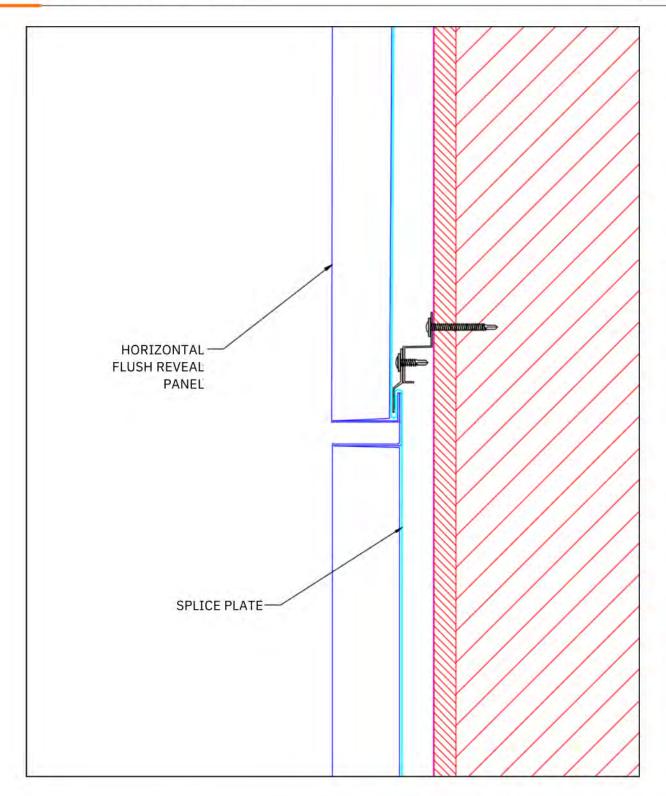
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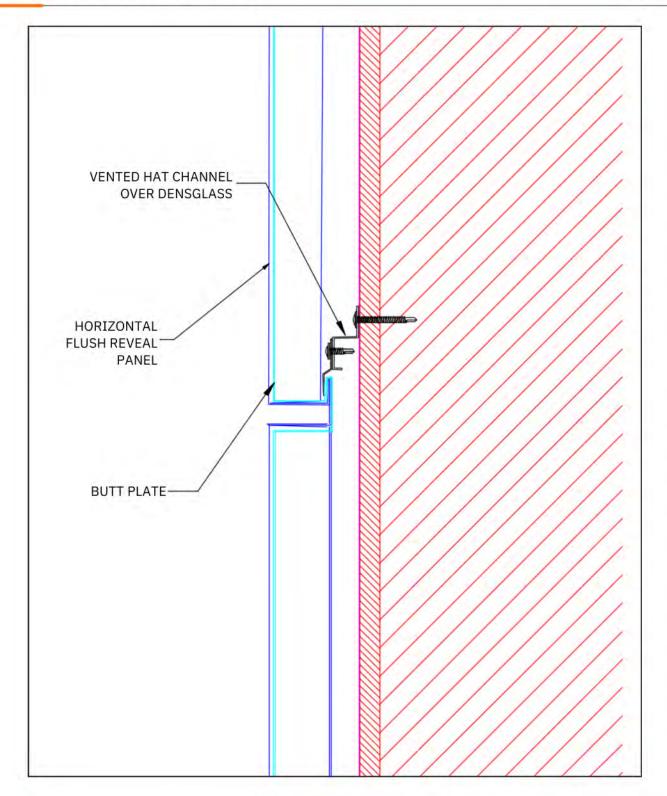
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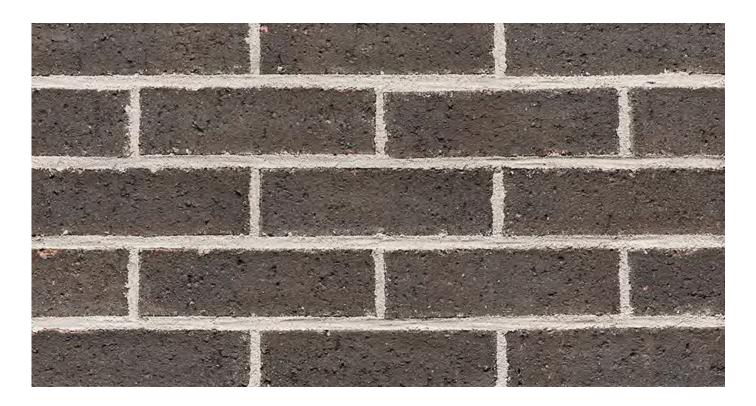
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BOLDNESS THAT INSPIRES.

BRILLIANCE THAT ENDURES.







Iberia Black ♥ Save Product



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Where To Buy





Download seamless tileable image



See this brick on your house



Project Estimation Calculator

Enter wall area (ft²)

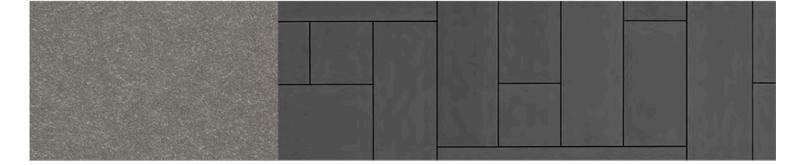
Quantity of brick

Full Calculator

Calculation is based on the Modular size brick, view full calculator to select a different size. View available sizes below for the product shown here.

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EQUITONE [natura] PRO Material Information Sheet

1. Product Appearance

EQUITONE [natura]PRO is a high-densityfiber cement panel with a through-colored core and a colored semi-transparent double-layer acrylic finish which results in the structure (fibers) of the material shining through.

The surface finish is matt with a UV-hardened PU topcoat (front side), providing a hard, dirt-resistant surface finish with high abrasion resistance and permanent and durable graffiti protection.

Irregularities, differences in shade, and traces of the manufacturing process are part of the natural characteristics of the material. The rear receives a transparent back-sealing coating.

2. Color

EQUITONE [natura] PRO is available in a wide range of standard and special colors, manufactured based on various through-colored core/baseboards as shown on the color chart below.

Color variations are part of the natural characteristics of the material. The allowable tolerance of shade between the EQUITONE [natura] PRO materials is minimal and is measured according to the CIELAB color model. The allowable dry mean averages of three readings are ΔL (brightness) of ± 2.0 , Δa (+red/-green) of ± 1.0 , and Δb (+yellow/-blue) of ± 1.0 compared to the production benchmark sample and measured with the same device.

Available colors



Note: It is not possible to realistically show available colors in literature, therefore the final choice of colors should be made with samples. Please order your samples on the website www.equitone.com.



3. Product Composition

EQUITONE[natura]PRO panels consistofcement, water, mineral fillers, cellulose fibers, synthetic reinforcing fibers, inorganic color pigments (depending on the color), an acrylic coating, and a UV-cured functional top layer.

4. Production Method

EQUITONE [natura]PROisahighlycompressed, air-cured fiber cement material manufactured in Germany (Europe).



EQUITONE [natura] PRO panels are manufactured through the Hatschek process where the base materials which are mainly cement, fibers, cellulose, pigments, and water are first mixed together to form a slurry. This slurry is then pumped into several vats with rotating cylindrical sieves on the surface of which a film of fiber cement is formed through a sieving mechanism as they rotate, which is then transferred to a felt belt traveling overhead. This thin layer of fiber cement is then dewatered before being transferred via the felt belt to a forming drum on which several layers of fiber cement are collected and squeezed together until the required thickness is achieved. Once this occurs, this fresh sheet of fiber cement is cut by an automatic cutting knife. A conveyor then transports the sheet to where all the sheets are stacked with an interleaving steel plate. The stacked sheets are then highly compressed, resulting in a high-density material.

This is followed by a curing process where the panels harden under ambient temperature and without vapor pressure.

Subsequently EQUITONE [natura] PRO receives an industrially applied multiple-layer coating on the front face, and a physically equivalent sealing coating on the rear face. Finally, a UV-hardened PU topcoat is applied to the front side.

In case of factory-trimmed panels the edges are trimmed and additionally sealed with Luko edge sealer.

5. Dimensions and Tolerances (Imperial)

EQUITONE [natura] PRO isavailable in a standard thickness of 5/16" and in 15/32" thicknesses for specific applications or fixings. The panels are available in either untrimmed (production dimension) or trimmed (maximum usable size) formats.



The panel must not be installed with untrimmed edges. Approximately 19/32" needs to be trimmed from each of the untrimmed (raw) edges. Cut edges need to be sealed with Luko edge sealer.

Dimensions		
Thickness	5/16 in	15/32 in
Width		

Width	
Trimmed	49 in
Untrimmed	50 in

Length	
Trimmed	98 in or 122 in
Untrimmed	99 1/2 in or 123 in

Tolerances1 (for cut and trimmed panels)				
Thickness	± 0.0236 in	± 0.0354 in		
Width	± 0.0394 in			
Length	± 0.0394 in			
Squareness	± 0.0394 in/ft			

Tolerances1 (for untrimmed panels)			
Thickness	± 0.0236 in	± 0.0354 in	
Width	± 1/4 in		
Length	± 5/16 in		
Squareness	± 0.0394 in/ft		

Weight per m² (air dry)		
	3.15lb/ft²	4.67lb/ft²

Weight per panel (without pallet)		
98 x 49 in (trimmed)	106lb	157lb
122 x 49 in (trimmed)	132lb	195lb
99 1/2 x 50 in (untrimmed)	110lb	163lb
123 x 50 in (untrimmed)	136lb	202lb

Packaging		
Number of panels on a pallet	30	20

Usable surface per pallet		
98 x 49 in (trimmed)	1010 ft ²	673 ft ²
122 x 49 in (trimmed)	1250 ft ²	834 ft²

Color tolerance (CIELAB) 2	
ΔL*, brightness	± 2.0
Δa*, + red/ - green	± 1.0
Δb^* , + yellow/ - blue	± 1.0

¹ Factory tolerances for trimmed and untrimmed panels outperform the requirements of the EN 12467 Level I and II dimensional tolerances, respectively; as well as all criteria set forth on ASTM C1185.

² Color tolerance are only to be measured on dry surfaces.

³ Imperial values are approximate and are based on the metric values.

5.1 Dimensions and Tolerances (Metric)

EQUITONE [natura] PRO isavailable in a standard thickness of8mmand in 12 mm thicknesses for specific applications or fixings. The panels are available in either untrimmed (production dimension) or trimmed (maximum usable size) formats.



The panel must not be installed with untrimmed edges. Approximately 15 mm needs to be trimmed from each of the untrimmed (raw) edges. Cut edges need to be sealed with Luko edge sealer.

Dimensions		
Thickness	8 mm	12 mm

Width	
Trimmed	1250 mm
Untrimmed	1280 mm

Length	
Trimmed	2500 mm or 3100 mm
Untrimmed	2530 mm or 3130 mm

Tolerances1 (for cut and trimmed panels)				
Thickness	± 0.6 mm ± 0.9 mm			
Width	,	± 1 mm		
Length		± 1 mm		
Squareness		± 1.0 mm/m		

Tolerances1 (for untrimmed panels)			
Thickness	± 0.6 mm	± 0.9 mm	
Width	± 6 mm		
Length	± 8 mm		
Squareness	± 1.0 mm/m		

Weight per m² (air dry)		
	15.4kg/m²	22.8kg/m²

Weight per panel (without pallet)		
2500 x 1250 mm (trimmed) 3100	48.1kg	71.3kg
x 1250 mm (trimmed) 2530 x	59.7kg	88.4kg
1280 mm (untrimmed) 3130 x	49.9kg	73.8kg
1280 mm (untrimmed)	61.7kg	91.4kg

Packaging		
Number of panels on a pallet	30	20

Usable surface per pallet		
2500 x 1250 mm (trimmed)	93.75 m²	62.5 m ²
3100 x 1250 mm (trimmed)	116.25 m²	77.5 m²

Color tolerance (CIELAB) 2	
ΔL*, brightness	± 2.0
Δa*, + red/ - green	± 1.0
Δb*, + yellow/ - blue	± 1.0

¹Factory tolerances for trimmed panels outperform the requirements of the EN 12467 Level I dimensional tolerances.

 $^{^{2}}$ Color tolerance are only to be measured on dry surfaces.

6. Material Properties (ASTM)

Classification				
Flexural strength classification		ASTM	Grade III	
Dimensional tolerances for trimmed panels		C1186	Pass	
		ASTM		
Physical requirements and characteristics		C1186		
Mean density	dry	ASTM C1185	111.8	lb/ft³
Moisture movement	30-90 %	ASTM C1185	≤0.1	%
Flexural strength ultimate1	dry	ASTM C1185	3,358	psi
Flexural strength ultimate1	wet	ASTM C1185	2,160	psi
Water tightness		ASTM C1186	Pass	
Moisture content		ASTM C1185	3.9	%

ASTM C1186	Pass	
ASTM C1186	Pass	
ASTM C1185	14.5	%
	ASTM C1186	ASTM C1186 Pass

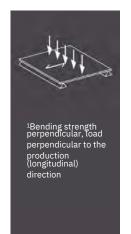
Fire and safety			
Material burning characteristics	ASTM E84	Class A	
Flame spread index		0	
Smoke development index		0	
Assembly fire resistance rating	ASTM E119	1	hr.
Hose stream test	ASTM E119	Pass	
Vertical tube furnace (B)	ASTM E136	Pass, Non-	-combustible

Other characteristics				
Thermal movement	α	-	5.5e-6	in/in°F
Thermal conductivity	λ	ASTM C518	0.236	BTU/h ft°F

- 1. Appropriate safety factors should be applied to ultimate values.
- 2. EQUITONE [natura] PRO cladding panels strength classification conforms to the requirements of ASTM C1186 "Standard Specifications for Flat Fiber-Cement Panels."
- 3. EQUITONE [natura] PRO cladding panels have been evaluated per ICC acceptance criteria AC90 to meet the minimum requirements of the International Building Code (IBC).
- 4. Results are in accordance with the procedures defined in ASTM C1185 "Standard Test Methods for Sampling and Testing Non-Asbestos Fiber-Cement Flat Sheet, Roofing and Siding Shingles, and Clapboards."

6.1 Material Properties (EN)

EQUITONE [natura]PROcladdingpanels conformtothe requirements of EN 12467:2012+A1:2018 "Fiber cement flat sheets – Product specification and test methods." The results below are presented as defined by the standard.



Classification		
Type of product	EN 12467	NT
Durability classification	EN 12467	Category A
Strength classification	EN 12467	Class 4
Dimensional tolerances for trimmed panels	EN 12467	Level I
Dimensional tolerances for untrimmed panels	EN 12467	Level II

		EN 12467	No drop	s/Pass
Water impermeability test	ambient	EN 12467	12,000	MPa
Mean module of elasticity	ambient	-	2.0	-
Partial safety factor ym³	ambient	EN 12467	18.5	MPa
Characteristic bending strength par.2	ambient	EN 12467	24.0	MPa
Characteristic bending strength perp.1	30-90 %	EN 12467	≤0.1	%
Moisture movement	-	-	0.26	kN/m2
Characteristic dead load gk (12 mm)	-	-	0.17	kN/m2
Characteristic dead load gk (8 mm)	dry	EN 12467	1750	kg/m³
Physical requirements and characteristi Mean density	cs			



Freeze-thaw test for Category A panel		
Warm water test	EN 12467	Pass
Soak-dry test	EN 12467	Pass
	EN 12467	Pass

Fire and safety		
Material fire classification	EN 13501	A2-s1,d0
Flame spread rating	ULC S102	0
Smoke development classification	ULC S102	5
Material combustibility	ULC S114	Non-combustable

Other characteristics				
Thermal movement	α	-	0.01	mm/mK
Thermal conductivity	λ	ASTM C518	0.407	W/mK
Moisture content at 20°C, 65 % humidity		-	<6	M%
Brinell surface hardness (HBWmean)		ISO6506-1	75	N/mm2
Poisson's ratio		-	0.2	-

Note to the units: 1 K (degree Kelvin) = 1°C, 1 MPa (Mega Pascal) = 1 N/mm², M.-% = mass percentage Note: EQUITONE [natura] PRO panels also comply with the requirements of ISO8336:2017 "Fiber-cement flat sheets - Product specification and test methods." The EQUITONE [natura] PRO surface has the following properties: ☐ Oesterle scratch resistance 2.5 N ☐ Mohs hardness 4 ☐ Pencil hardness 4H ☐ Indentation test 6 N according to DIN 53153, EN ISO 2815 The UV-hardened surface coating is smooth and easy to clean. It offers high protection against normal and spray paints. The anti-graffiti coating satisfies the placement test requirements and those of Test Cycle 2 of the quality control association Gütegemeinschaft Anti-Graffiti e.V. for protective anti-graffiti surface systems (ILF test report 4-013/2006 of the Institut für Lacke und Farben e.V.). Graffiti can be removed with the usual graffiti cleaning agents available in the trade. 7. Advantages Providing the application guidelines are followed, EQUITONE [natura] PRO fiber-cement panels have the following superior mix of properties compared to other materials: ☐ Recyclable according to Environmental Product Declaration (EPD) ☐ Expected average reference service life of 50 years (based on EPD) ☐ Fire safe (no fire ignition, no spread of fire) ☐ Improved sound insulation of the facade □ UV-resistant ☐ Resistant to extreme temperatures and frost ☐ Weather resistant ☐ Resistant to many living organisms (fungi, bacteria, insects, vermin, etc.) ☐ Resistant to many chemicals ☐ Material appearance due to transparent coating ☐ Strong, rigid panels ☐ Hail impact tested ☐ Permanent and durable graffiti protection. Working with the material: ☐ The material is easy to drill, cut, and install with the proper tools □ Do not use adhesive, tapes, and/or sealants on the finished surfaces of the material 8. Applications EQUITONE [natura] PRO can be used in several ventilated applications, including, but not limited to: ☐ Ventilated facade / rainscreen cladding □ Window and door reveal ☐ Exterior ceiling: decorative cladding of ceiling

9/11

☐ Soffits, eaves, and verge boards

Interior wall and ceiling lining (subject to local regulations)Roof applications or inclined facades with panels facing up

For restrictions on the above-mentioned applications read the specific application guidelines.

The panels may be face or concealed-fixed with Etex proprietary or recommended fixing solutions.

EQUITONE [natura] PRO cannot be used in the following applications, but not limited to: Internal applications exposed to direct moisture e.g. wet areas, situations with direct contact with standing snow or ice, applications where exposed to long-term temperatures exceeding 80°C / 176°F.

9. Health and Safety Aspects

During the mechanical machining of panels, dust can be released which can irritate the airways and eyes. Depending on the working conditions, adequate machinery with dust extraction and/or ventilation should be foreseen. The inhalation of fine (respirable size) quartz-containing dust, particularly when in high concentrations or over prolonged periods of time can lead to lung disease and an increased risk of lung cancer. For more information, please visit www.equitone.com for the most recent Safety Information Sheet.

10. Maintenance and Cleaning

Refer to the relevant "EQUITONE Cleaning Information" Guide.

11. Certification











The manufacturer can - within the framework of the European Regulation N° 305/2011 (CPR) - present the Declaration of Performance (DOP) of the product such confirming that the product has a CE marking. The CE marking guarantees that the product is in accordance with the basic requirements determined by the harmonized European standard and applicable to the product. The Declaration of Performance is presented in accordance with the CPR and can be found at www.equitone.com.

EQUITONE [natura] PRO is certified with an Environmental Product Declaration according to ISO 14025 or EN 15804. The life cycle assessment includes raw material and energy production, the actual manufacturing phase, and the use phase of the fiber cement panels. More information is available in the Material Sustainability Datasheet.

EQUITONE fiber cement façade materials have also achieved a cradle-to-cradle bronze rating according to C2CPII version 3.1. The cradle-to-cradle product innovation institute evaluates products based on five categories: material health, product circularity, clean air and carbon, water and soil stewardship, and social fairness. More information can be found at www.equitone.com.

EQUITONE air-cured products are certified with an ESR report according to ICC AC90. AC90 evaluates the physical properties, weather resistance, wind load resistance, durability, and fire resistance of fiber cement products for use as exterior siding. More information is available in the ESR 3910 report.

The	e manufactu	ring facility holds the latest versions of the following ISO certificates
	ISO 9001	Quality Management System
	ISO 14001	Environmental Management System
	ISO 45001	Occupational Health and Safety
	ISO 50001	Energy Management System

12. Information



Please visit www.equitone.com for contact details, further information, and technical documents.

Disclaimer

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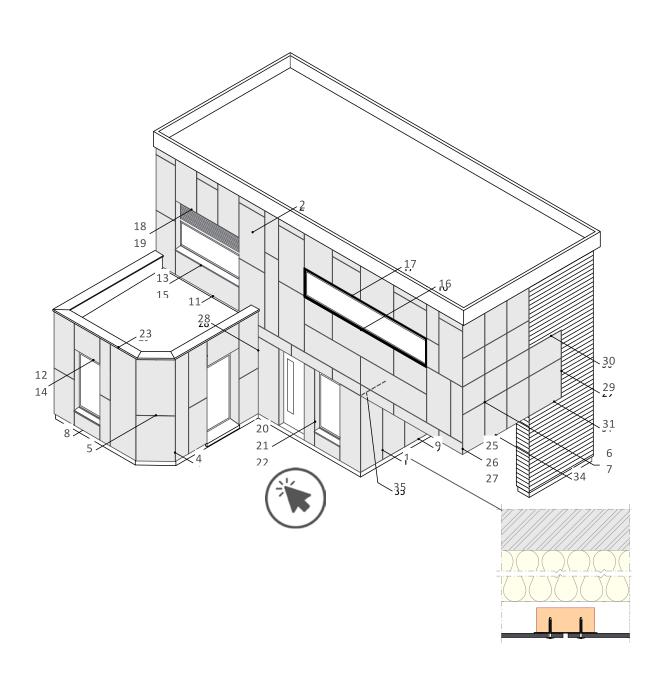
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Construction details
Face fixings on timber support frame





Content	Detail No.	Page
General information		<u>3</u>
Components		4
Support frame		7
Ventilation		<u>8</u>
Vertical joint	<u>1</u>	<u>10</u>
Intermediate support	<u>2</u>	<u>10</u>
Vertical control joint	<u>3</u>	<u>11</u>
Vertical joint at angle	<u>4</u>	<u>11</u>
Open horizontal joint junction with vertical joint	<u>5</u>	<u>12</u>
Open horizontal movement joint	<u>6</u>	<u>13</u>
Baffled horizontal movement joint	<u>7</u>	<u>13</u>
Base detail – Ground level	<u>8</u>	<u>14</u>
Base detail – Covered area (not exposed to direct precipitation)	<u>9</u>	<u>14</u>
Base detail – Balcony	<u>10</u>	<u>15</u>
Base detail – Flat roof / Parapet	<u>11</u>	<u>15</u>
Window head – Option 1	<u>12</u>	<u>16</u>
Window sill – Option 1	<u>13</u>	<u>16</u>
Window head – Option 2	<u>14</u>	<u>17</u>
Window sill – Option 2	<u>15</u>	<u>17</u>
Window head – Flush window	<u>16</u>	<u>18</u>
Window sill – Flush window	<u>17</u>	<u>18</u>
Window head – With sunscreen	<u>18</u>	<u>19</u>
Window head – With shutter	<u>19</u>	<u>20</u>
Window jamb – Option 1	<u>20</u>	21
Window jamb – Metal flashing	<u>21</u>	<u>21</u>
Window jamb – Option 2	<u>22</u>	22
Capping	<u>23</u>	<u>23</u>
External corner	<u>24</u>	<u>24</u>
External corner with wind barrier	<u>25</u>	<u>25</u>
Internal corner	<u>26</u>	<u>26</u>
Abutment	<u>27</u>	<u>26</u>
Junction with other facade material — Head detail	<u>28</u>	<u>27</u>
Junction with other facade material — Base	<u>29</u>	<u>27</u>
Segmented façade – Radius < 39 ft	<u>30</u>	<u>28</u>
Curved façade − Radius ≥ 39 ft	<u>31</u>	<u>28</u>
Soffit/ceiling-wall junction	<u>32</u>	<u>29</u>
Wall-soffit/ceiling junction	<u>33</u>	<u>30</u>
Junction with panels with concealed fixings	<u>34</u>	<u>31</u>

General information

This document provides generic construction details for EQUITONE façade systems with UNI Screw panel face fixings on timber batten support frame to assist with the design of EQUITONE façade.

This document is not designed to serve as an installation guide and is intended to be used in conjunction with EQUITONE Planning and Application Guide face fixings on metal support frame' and other relevant technical and installation documents.

The details included in this document only illustrate general principles for detailing of EQUITONE at different typical interfaces; and are not to be relied upon for weatherproofing and fire safety compliance with local regulations. The weatherproofing and fire performance of any project specific detail or application shall be evaluated by the project engineer or consultant.

Any components related to wind barriers, fire safety, moisture management and weather proofing including but not limited to membranes, flashings, water seals and sealants, airtightness tapes, horizontal and/or vertical fire barriers, etc, will need to be applied according to local regulations, project requirements and relevant standards.

The support frame, fixings, flashings, and the like shall be of adequate corrosion resistance appropriate to the corrosivity category of the project location.

All dimensions in this document are in inches [in] unless otherwise stated.

The information in this guide is comprehensive but not exhaustive, and the reader will need to satisfy themselves that the contents of this guide are suitable for their intended application. It is the responsibility of the project consultants (designer, architect, and engineers) to ensure that the information and details provided in this document are appropriate for the project.

The information in this document is correct at the time of issuing. However, due to our committed program of continuous material and system development we reserve the right to amend or alter the information contained in this document without prior notice. Please visit www.equitone.com to ensure you have the most current version.

This document is supplied in good faith and no liability can be accepted for any loss or damage resulting from its use. Images and construction details contained in this document are not to a specific scale, are indicative and for illustration purposes only and should not be used as final construction drawings.

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Please visit www.equitone.com for contact details and further information and technical documents.

Components

Materials













EQUITONE [linea]

EQUITONE [lunara]

EQUITONE [tectiva]

EQUITONE [natur [natura] PRO

EQUITONE [pictura]

EQUITONE [textura]

Maximum usable panel sizes (metric)

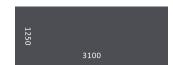
EQUITONE [linea] 10 mm
EQUITONE [lunara] 10 mm
EQUITONE [tectiva] 8 & 10 mm





EQUITONE [natura] 8 & 12 mm
EQUITONE [natura] PRO 8 & 12 mm
EQUITONE [pictura] 8 & 12 mm
EQUITONE [textura] 8 & 12 mm





Maximum usable panel sizes (imperial)

EQUITONE [linea] 10 mm
EQUITONE [lunara] 10 mm
EQUITONE [tectiva] 8 & 10 mm





 EQUITONE [natura]
 5/16 & 15/32 in

 EQUITONE [natura] PRO
 5/16 & 15/32 in

 EQUITONE [pictura]
 5/16 & 15/32 in

 EQUITONE [textura]
 5/16 & 15/32 in





Panel fixings: UNI-Screw

Color matched and available in the following materials and grades:

Stainless Steel A2 (304) - Material number 1.4567

Available with additional protective coating (C5 acc. ISO 12944-2) for use in e. g. $\,$

coastal areas

Stainless Steel A4 (316) - Material number 1.4403

Available with additional protective coating (C5 acc. ISO 12944-2) for use in e. g.

coastal areas

UNI-Screws have a drillpoint.

The screw has a Torx TTAP20 socket cap. Standard T20 bits can also be used.

Panel fixings: Screw collar

Stainless Steel 304 (A2) - Material number 1.4569

Must be used together with UNI-Screw when fixing EQUITONE [natura] PRO and EQUITONE [pictura].



Each panel thickness has its own corresponding UNI-Screw.

Panel type	Screw type
8 mm EQUITONE [natura]	
8 mm EQUITONE [natura] PRO	
8 mm EQUITONE [pictura]	
8 mm EQUITONE [textura]	5,5x40 DP K15 UNI-Screw
EQUITONE [tectiva]	
EQUITONE [linea]	
EQUITONE [lunara]	
12 mm EQUITONE [natura]	
12 mm EQUITONE [natura] PRO	5,5x50 DP K15 UNI-Screw
12 mm EQUITONE [pictura]	
12 mm EQUITONE [textura]	

Panel hole size is 7 mm, drilled with 7 mm EQUITONE drill bit.

UNI-Screw recommended panel edge distance:

From the edge parallel to support frame: 1-4 in (Bare minimum 3/4 in)

From the edge perpendicular to support frame: 2 3/4 - 4 in



EPDM tape

Black UV resistant EPDM used over timber battens Used to protect the timber against moisture ingress.

Available as flat tape or as tape with ridges in different widths to suit a range of support frame batten widths.

Flat tape: 2 3/4, 4, 5 in Ribbed tape: 1 3/4, 3 9/16 in

Thickness: ≥ 1/16 in

1/32 in thick EPDM- flat tape can only be used to cover the battens

behind corner profiles.



Perforated Closure

Aluminum perforated profile used to close the cavity entry and outlet to prevent the entry of birds and vermin.

Available in four different widths to suit a range of cavity thicknesses and two different colors: uncoated aluminum and black coated aluminum. The perforation rate is approximately 35 %.



Baffle

Black coated aluminum baffle used to close and form expressed panel horizontal joint.

The profile has a thickness of 1/32 in.



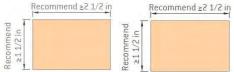
Support frame

Batten dimensions are valid only for Uni-screws with Drill-Point. For Uni-screws with Sharp-Point, batten widths need to be increased according to local regulations and relevant standards.

Timber battens

Minimum thickness: 1 1/4 in

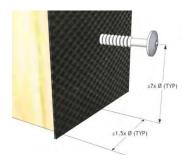
Minimum width for intermediate batten: 2 in



Minimum width for vertical joint support: 4 21/64 in or two 2 11/64 in studs







Edge distance from batten end: minimum of seven time the \emptyset of the fastener

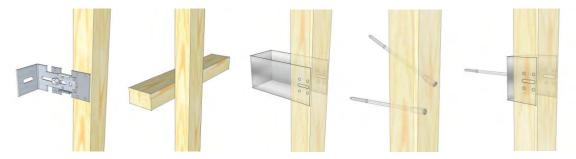
Note: The above values are recommended minimums and could be greater according to local regulations and standards, local standard sizes of battens and static calculation.

Timber batten fixings

The details in this document don't include batten fixings.

There are various number of fixings methods, very often based on local habits and construction methods:

- Adjustable brackets placed alternately to the left and the right of the vertical ba
- Construction with counter battens
- U-shaped batten holders
- Window frame dowel (distance screws)
- Batten holders with spacer



Notes

The cladding support frame and its connection to the substructure shall be designed and selected by the project engineer in accordance with the relevant standards. The support frame maximum deflection under the influence of load shall be limited to Span/300 with a maximum of 5/32 in, excluding the influence of creep. Timber framing must comply with local standards.

The minimum recommended grade of structural batten is Class C24 according to EN 14081-1 . Local specific requirements must be adhered to as well.

Timber batten must be sufficiently durable for the application in accordance with applicable local regulations. Timber shall be seasoned or have reached an equilibrium moisture content of 20% or less at the time of installation. Unseasoned timber is not recommended.

Ventilation

A ventilated façade is a kind of two stage construction, an inner structure with a protective outer skin, and the cladding panel or rainscreen. A ventilated façade consists of an insulated and weathertight structure, a ventilated cavity formed with a cladding support frame and the cladding panel.

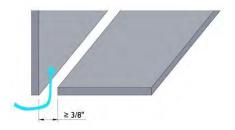
The bare minimum clear gap (cavity width) for ventilation behind the panels is 3/4 in and may need to be increased based on the vertical distance between ventilation inlet and outlet. Typical cavity width will be governed by the framing dimensions and be approximately $1 \, 3/16 - 2 \, 3/8$ in.

Air must be allowed to enter the cavity from bottom of the façade, window head, soffit, slab junctions, and the like, and exit from top of the façade, capping, window sill, slab and soffit interfaces, and the like.

The size of inlets and outlets should be executed as stipulated in this document and the Planning & Application Guide or according to local standards and building regulations. The following requirements are bare minimums.

Ventilation without perforated closure

The size of ventilation inlet and outlet should be a minimum of 3/8 in (\geq 4,75 in² / foot) and may need to be increased depending on local regulations and/or the vertical distance between inlets and outlets (cladding height).

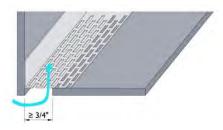


Ventilation with perforated closure

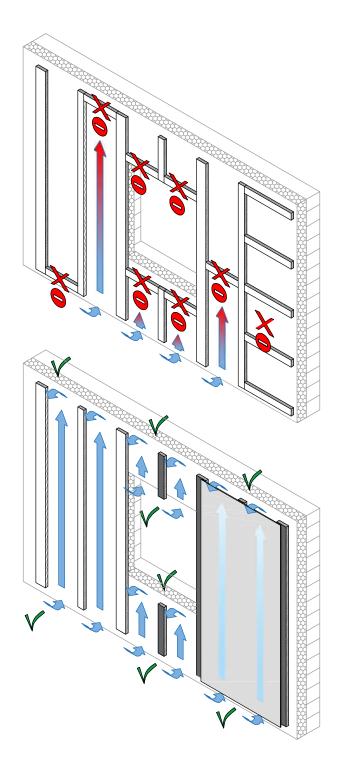
If by local regulations the use of a perforated closure is required e. g. to vermin proof the cavity then the size of the inlet and outlet must be increased depending on the open area percentage of the used profile to achieve a bare minimum open area of more than 4,75 in 2 / foot. E.g., in case of a 35 % perforated closure the minimum open gap should be minimum 1 3/16 in.

The minimum open area may need to be increased depending on local regulations and/or the vertical distance between the ventilation inlet and outlet (cladding height)

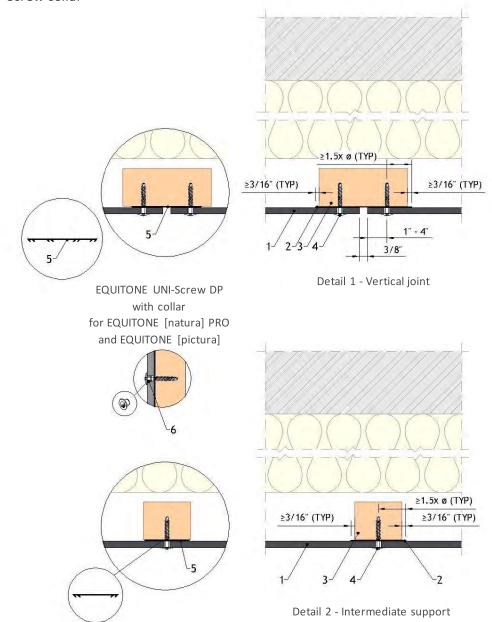
The perforated angle should be less than 1/32 in in thickness when placed between EQUITONE and the support frame



Important points to consider (Do's and Don'ts): Air flow

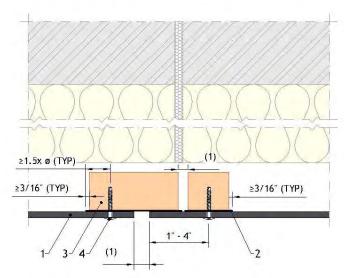


- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw
- 5. Alternative ribbed EPDM⁽²⁾
- 6. Screw collar

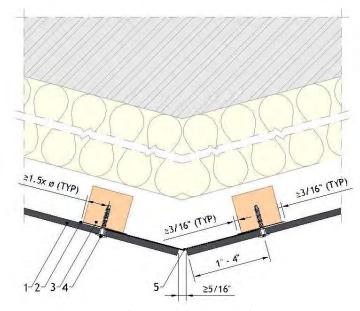


- 1) Flat EPDM should always overhang the batten by minimum 3/16" at each side.
- 2) In the case of open horizontal joints the ribbed EPDM should cover the batten completely and preferably overhang the batten by 3/16" at each side.
- 3) In case of ribbed EPDM the screw should be located between the ridges.

- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw
- 5. Optional EPDM or flashing



Detail 3 - Vertical control joint



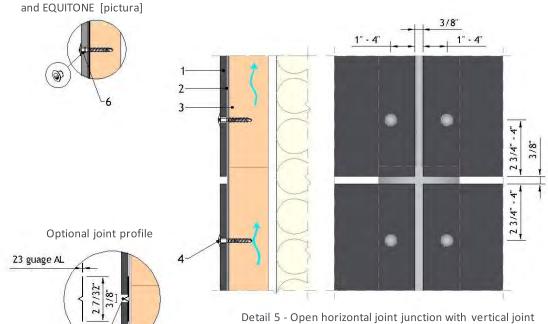
Detail 4 - Vertical joint at angle

- 1) The width of the the facade control joint should be equal or greater than the building control joint.
- 2) Flashings to close the joints may not be thicker as 1/32 in.
- 3) If an EPDM is used to close the joint, the battens must be close to the corner to provide a solid support.

- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw
- 5. Optional horizontal joint profile
- 6. Screw collar



EQUITONE UNI-Screw DP with collar for EQUITONE [natura] PRO

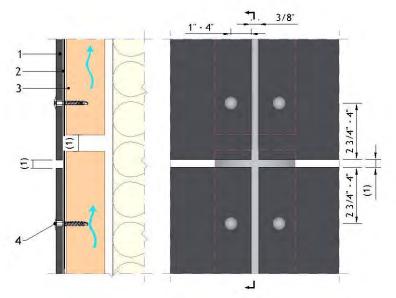


Notes:

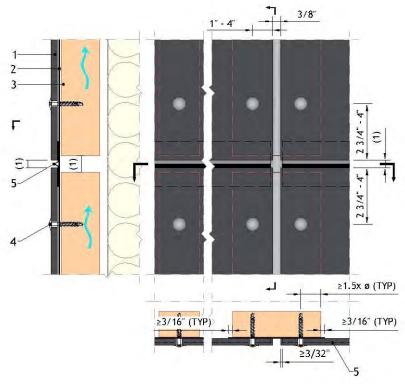
In the case of open horizontal joints the joint in the timber battens should be behind the upper panel.

- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw
- 5. Optional horizontal joint profile





Detail 6 - Open horizontal movement joint



Detail 7 - Baffled horizontal movement joint

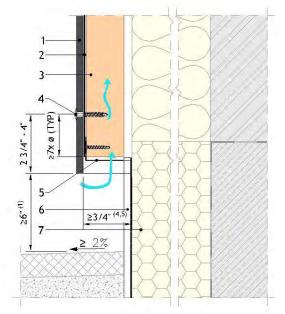
Note:

1) The width of the facade control joint should be equal or grater than the building movement joint

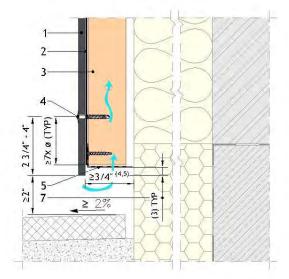
- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw
- 5. Perforated closure
- Skirting⁽²⁾ in EQUITONE [tectiva], EQUITONE [pictura], EQUITONE [textura]
- 7. Hard insulation suitable for use below ground level







Detail 8 - Base detail - Ground level

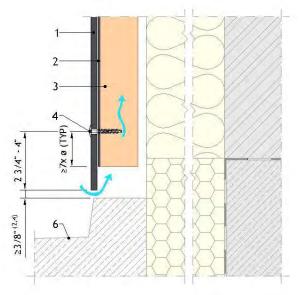


Detail 9 - Base detail – Covered area (not exposed to direct precipitation)

- 1) The distance to ground level is recommended to be, at minimu, 6 in. A smaller ground clearance is possible, bit it may increase the risk of water marks and panel staining caused by splash back.
- 2) The skirting board could be concrete, natural stone, render, metal flashing or EQUITONE.
- 3) The facade panel should preferably overhang more than 3/8 in below the ventilation profile to create a drip edge.
- 4) When the inlet/outlet is wider than 3/4 inch continuous, a perforated closure is recommended. Total perforation area should be a minimum of 4.75 in 2 per linear foot. This roughly equates to a minimum continuous opening of 3/8 inch.
- 5) Inlet/Outlet, air cavity, and closure perforation sizing should be increased, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide Face Fixing to Wood for additional information.

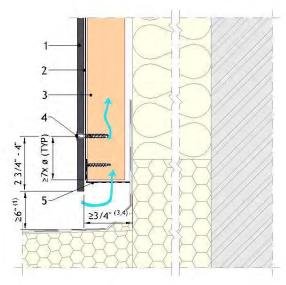
- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw
- 5. Perforated closure
- 6. Balcony floor





Detail 10 - Base detail - Balcony

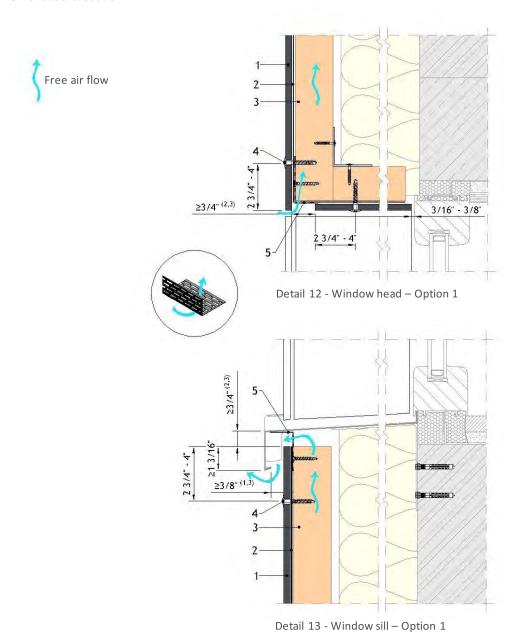




Detail 11 - Base detail - Flat roof / Parapet

- 1) The distance to the ground level is recommended to be, at minimum, 6 in. A smaller ground clearance is possible but it may increase the risk of water marks and panel staining caused by splash back.
- 2) Where a perforated closure is not obstructing the inlet/outlet, the opening should be a minimum of 3/8 inch continuous.
- 3) When the inlet/outlet is wider than 3/4 inch continuous, a perforated closure is recommended. Total perforation area should be a minimum of 4.75 in 2 per linear foot. This roughly equates to a minimum continuous opening of 3/8 inch.
- 4) Inlet/Outlet, air cavity, and closure perforation sizing should be increased, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide Face Fixing to Wood for additional information.

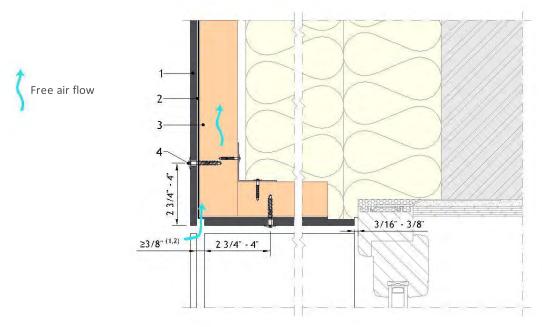
- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw
- 5. Perforated closure



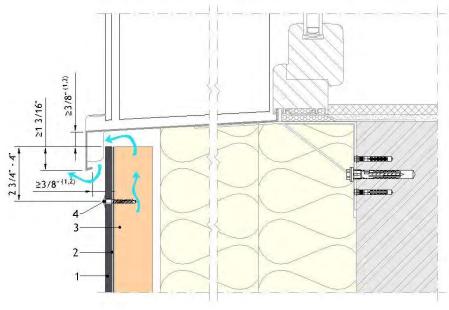
Notes:

- 1) Where a perforated closure is not obstructing the inlet/outlet, the opening should be a minimum of 3/8 inch continuous.
- 2) When the inlet/outlet is wider than 3/4 inch continuous, a perforated closure is recommended. Total perforation area should be a minimum of 4.75 in 2 per linear foot. This roughly equates to a minimum continuous opening of 3/8 inch.
- 3) Inlet/Outlet, air cavity, and closure perforation sizing should be increased, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide Face Fixing to Wood for additional information.

- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw



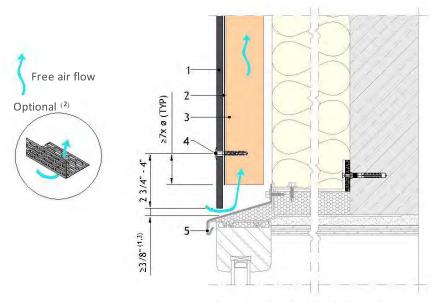
Detail 14 - Window head - Option 2



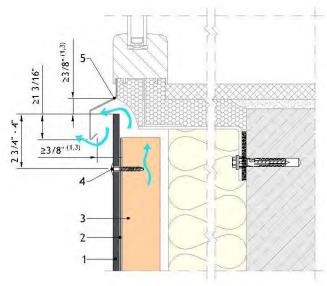
Detail 15 - Window sill - Option 2

- 1) Where a perforated closure is not obstructing the inlet/outlet, the opening should be a minimum of 3/8 inch continuous.
- 2) Inlet/Outlet, air cavity, and closure perforation sizing should be increased, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide Face Fixing to Wood for additional information.

- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw
- 5. Aluminum flashing



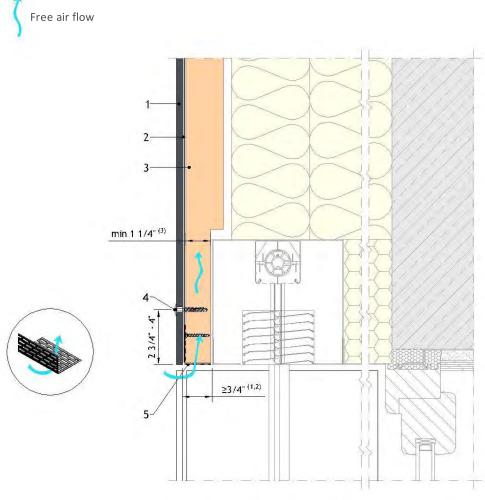
Detail 16 - Window head - Flush window



Detail 17 - Window sill - Flush window

- 1) Where a perforated closure is not obstructing the inlet/outlet, the opening should be a minimum of 3/8 inch continuous.
- 2) When the inlet/outlet is wider than 3/4 inch continuous, a perforated closure is recommended. Total perforation area should be a minimum of 4.75 in 2 per linear foot. This roughly equates to a minimum continuous opening of 3/8 inch.
- 3) Inlet/Outlet, air cavity, and closure perforation sizing should be increased, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide Face Fixing to Wood for additional information.

- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw
- 5. Perforated closure

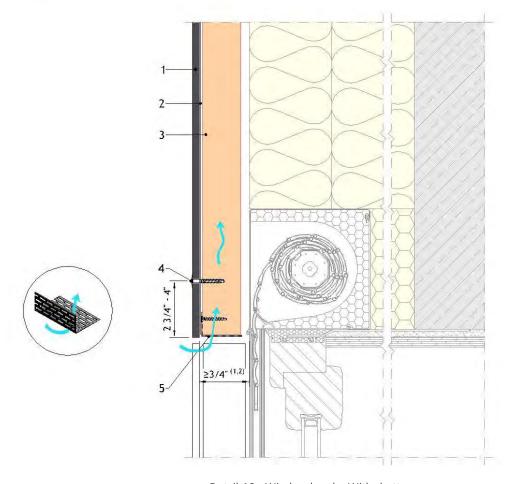


Detail 18 - Window head - With sunscreen

- 1) When the inlet/outlet is wider than 3/4 inch continuous, a perforated closure is recommended. Total perforation area should be a minimum of 4.75 in 2 per linear foot. This roughly equates to a minimum continuous opening of 3/8 inch.
- 2) Inlet/Outlet, air cavity, and closure perforation sizing should be increased, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide Face Fixing to Wood for additional information.
- 3) The reduced section of the support profiles must be taken into account during static calculations.

- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw
- 5. Perforated closure

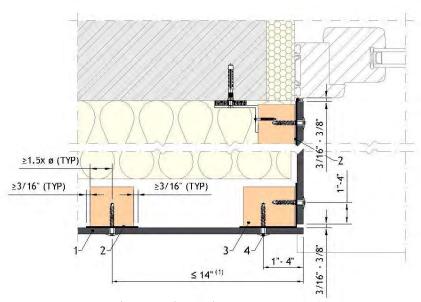




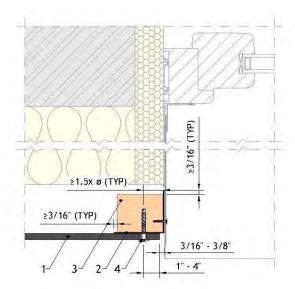
Detail 19 - Window head – With shutter

- 1) When the inlet/outlet is wider than 3/4 inch continuous, a perforated closure is recommended. Total perforation area should be a minimum of 4.75 in 2 per linear foot. This roughly equates to a minimum continuous opening of 3/8 inch.
- 2) Inlet/Outlet, air cavity, and closure perforation sizing should be increased, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide Face Fixing to Wood for additional information.

- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw



Detail 20 - Window jamb - Option 1

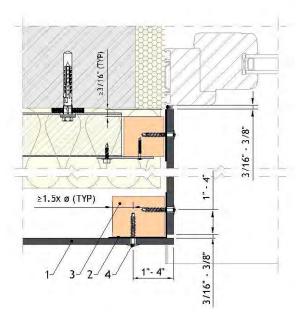


Detail 21 - Window jamb - Metal flashing

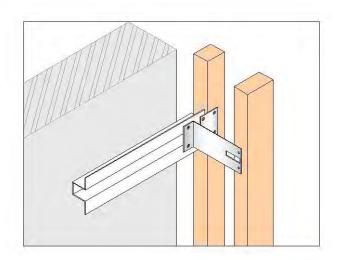
Note:

1) Panels with single span (panels with 2 columns of fixings) cannot be fixed to a floating angle like shown in the detail.

- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw



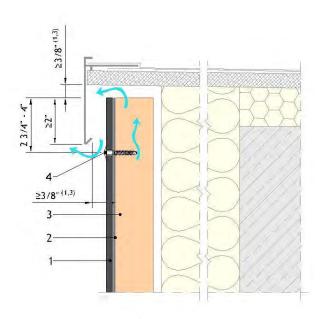
Detail 22 - Window jamb - Option 2



Isometric view of the support frame

- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw

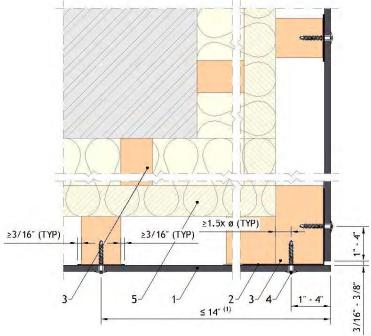




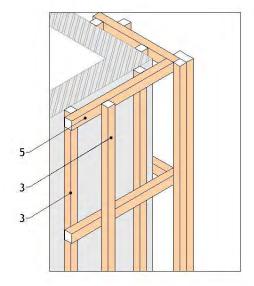
Detail 23 - Capping

- 1) Where a perforated closure is not obstructing the inlet/outlet, the opening should be a minimum of 3/8 inch continuous.
- 2) When perforated closures are used underneath the capping, the ventilation outlet opening between the panel and capping should be a minimum of 1 3/16 inch. Total perforation area should be a minimum of 4.75 in2 per linear foot. This roughly equates to a minimum continuous opening of 3/8 inch.
- 3) Inlet/Outlet, air cavity, and closure perforation sizing should be increased, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide Face Fixing to Wood for additional information.

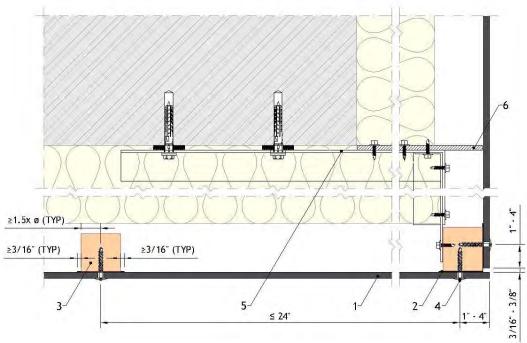
- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw
- 5. Counter batten



Detail 24 - External corner

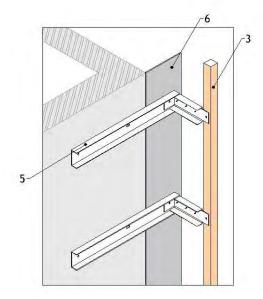


Isometric view of the support frame



Detail 25 - External corner with wind barrier

- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw
- 5. Metal bracket system
- 6. Wind barrier (metal or fibrecement)

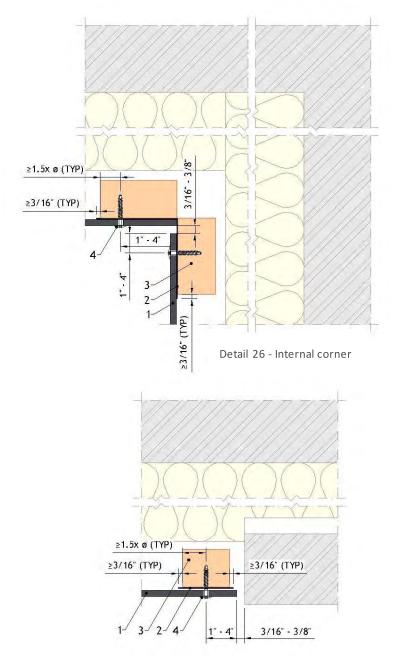


Isometric view of the support frame

Notes:

The installation of wind barrier is subject to local standards and building regulation.

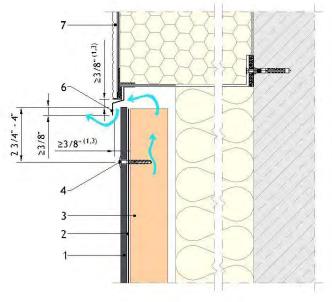
- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw



Detail 27 - Abutment

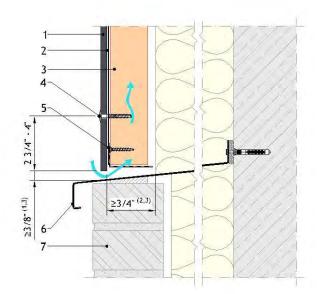
- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw
- 5. Perforated closure
- 6. Aluminum flashing
- 7. Adjacent facade system





Detail 28 - Junction with other facade material - Head detail

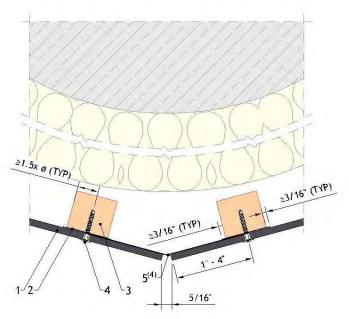




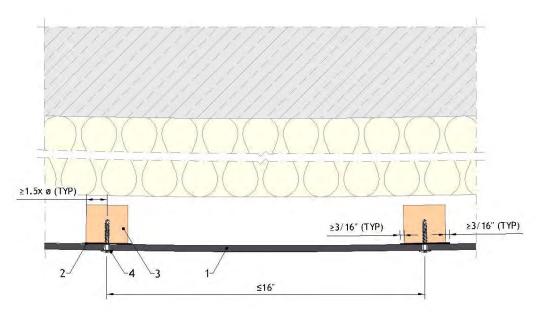
Detail 29 - Junction with other facade material - Base

- 1) When the inlet/outlet is wider than 3/4 inch continuous, a perforated closure is recommended. Total perforation area should be a minimum of 4.75 in 2 per linear foot. This roughly equates to a minimum continuous opening of 3/8 inch.
- 2) Inlet/Outlet, air cavity, and closure perforation sizing should be increased, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide Face Fixing to Wood for additional information.
- 3) The reduced section of the support profiles must be taken into account during static calculations.

- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw
- 5. Optional EPDM or flashing⁽³⁾



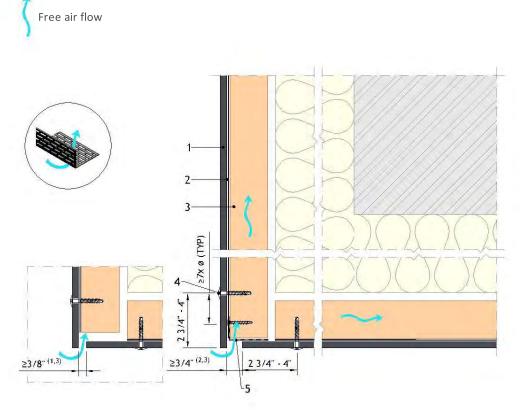
Detail 30 - Segmented façade - Radius < 39 ft



Detail 31 - Curved façade — Radius \geq 39 ft

- 1) The minimum radius for curved facade is 39 ft, the framing centers should be reduced to a maximum of 16 in.
- 2) For smaller radii the facade should be executed as segmented facade.
- 3) Flashings to close the joints may not be thicker then 1/32 in.
- 4) If an EPDM is used to close the joint, the battens must be close to the corner to provide a solid support.

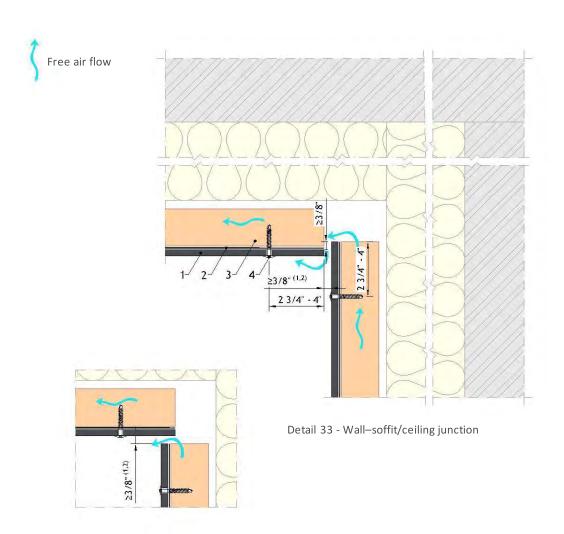
- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw
- 5. Perforated closure



Detail 32 - Soffit/ceiling-wall junction

- 1) Where a perforated closure is not obstructing the inlet/outlet, the opening should be a minimum of 3/8 inch continuous.
- 2) When the inlet/outlet is wider than 3/4 inch continuous, a perforated closure is recommended. Total perforation area should be a minimum of 4.75 in 2 per linear foot. This roughly equates to a minimum continuous opening of 3/8 inch.
- 3) Inlet/Outlet, air cavity, and closure perforation sizing should be increased, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide - Face Fixing to Wood for additional information.
- 4) The maximum center spacing between the UNI-rivets in a ceiling application is 16 inches.

- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw

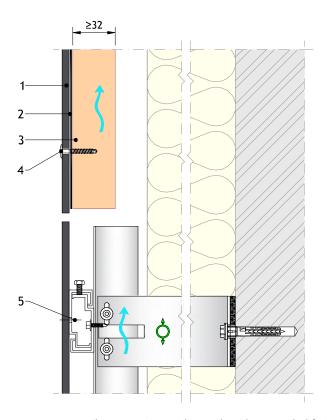


- 1) Where a perforated closure is not obstructing the inlet/outlet, the opening should be a minimum of 3/8 inch continuous.
- 2) Inlet/Outlet, air cavity, and closure perforation sizing should be increased, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide Face Fixing to Wood for additional information.
- 3) The maximum center spacing between the UNI-rivets in a ceiling application is 16 inches.

Go to Content

- 1. EQUITONE facade panel
- 2. EPDM
- 3. Timber support frame
- 4. UNI-Screw
- 5. Concealed fixing system





Detail 34 - Junction with panels with concealed fixings

Notes

- 1) Check the construction details for concealed fixing for more information.
- 2) Depending on the specified concealed fixing system the minimum panel thickness could vary from 5/16 in to 15/32 in as applicable.
- 3) Special attention must be taken to the alignment of the panels with concealed fixing and the ones with face fixings.

Go to Content

Your detail was not included?

Are you looking for details in DXF, DWG format?

Contact:

EQUITONE USA 1731 Fred Lawson Rd. Maryville, TN 37801 Phone: 865-268-0654

Email: info.usa@equitone.com Website: www.equitone.com

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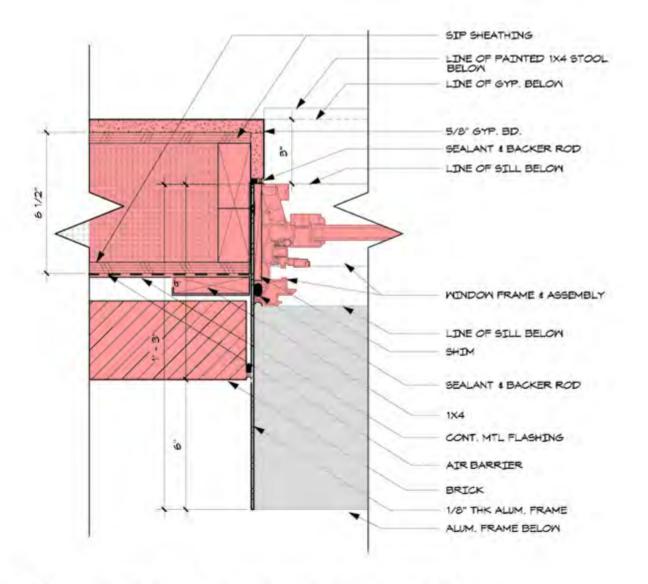
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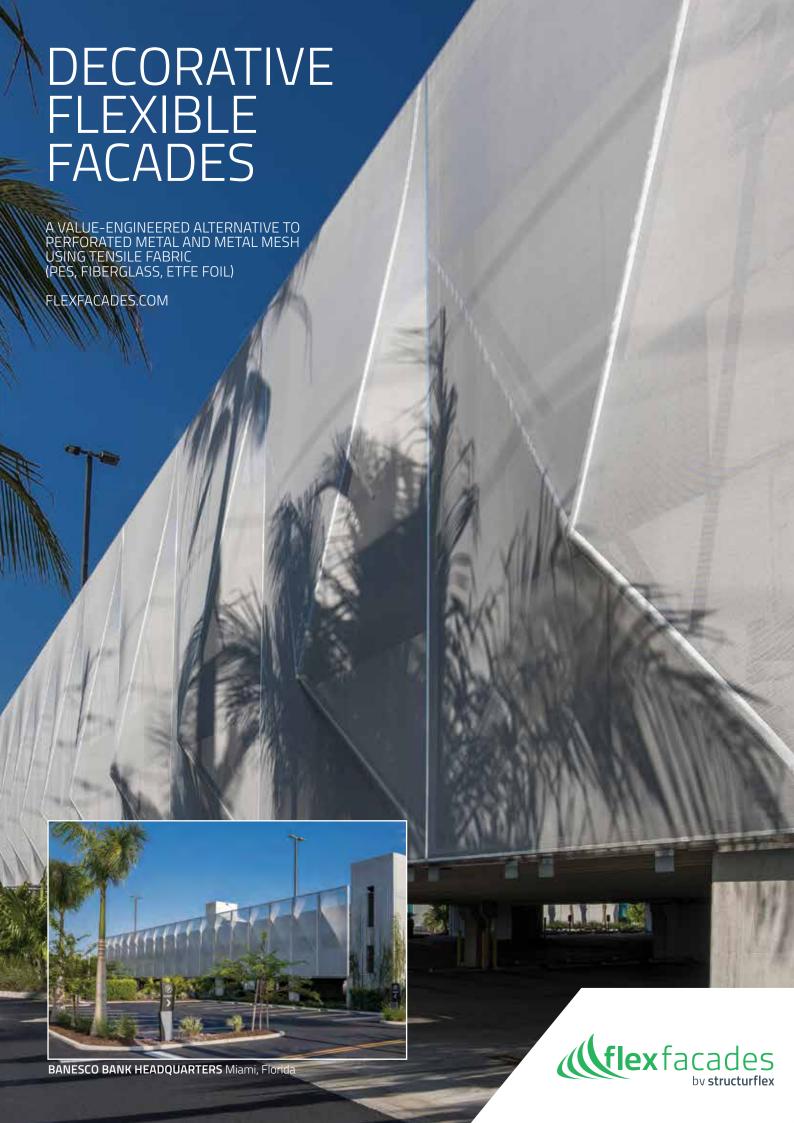
OUR BRICK I

MATERIALS CONTACT

Q W/HFDF.
TO BUY









YARD 8 Miami, Florida



SHORELINE Moutainview, California



VYSTAR Jacksonville, Florida



NORTHWESTERN UNIVERSITY Chicago, Illinois

Paul C. Snustead, Associate AIA

Sales Director
paul@flexfacades.com / 816.889.9000 x 102

Structurflex LLC / US Operations - Kansas City
flexfacades.com / design / engineer / fabricate / build

BENEFITS

- ECONOMICAL (INITIAL / LIFECYCLE COSTS) Up to 50% of the cost installed compared to perforated metal and mesh using our FlexFacades Cladding solution. No expensive rusted metal screen refinishing.
- ENERGY SAVINGS Reduce solar heat gain/heat island effect, dramatic energy savings.
- GREEN Lower energy to produce & 100% recyclable.*
- MAINTAINS 'OPEN GARAGE' Views out, daylighting, natural air circulation, no mechanical ventilation.*
- SCREENING Better light and noise pollution masking compared to metal.
- GRAPHICS/COLORS Inexpensive art options and colors. Silver metallic mesh looks like expensive metal mesh.
- VERY DURABLE/LIGHTWEIGHT Whether your climate is hot, cold, or subject to strong winds, we offer an engineered solution that meets your code requirements.
- INNOVATIVE Freedom and flexible design solutions.
- WARRANTY 10-year minimum.
- FIRE RATED ASTM-E-84/E-136 "Non-Combustible."
- * Depending on screening material type selected

APPLICATIONS

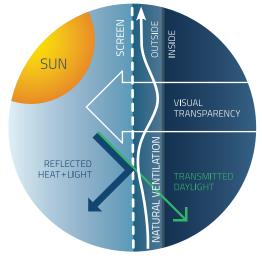
- Office Building screening over glazing
- Parking Garage screening
- Retail/Entertainment screening
- Mechanical Rooftop screening
- Stadium screening
- Branding/Applied graphics

SOLUTIONS

- A Decorative Cladding Screens (\$)
- B Decorative Stretch Panel Screens (\$+)
- C Decorative 2D Cladding + Steel (\$\$)
- D Decorative 3D Undulated Cladding + Steel (\$\$+)
- E Decorative Modular Panel Screens (\$\$+)
- F Decorative Fins Screens (\$\$ \$\$\$)

EFFECTS

THE EFFECTS OF HEAT & LIGHT WITH TENSILE MESH FACADE SCREENS





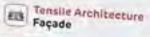








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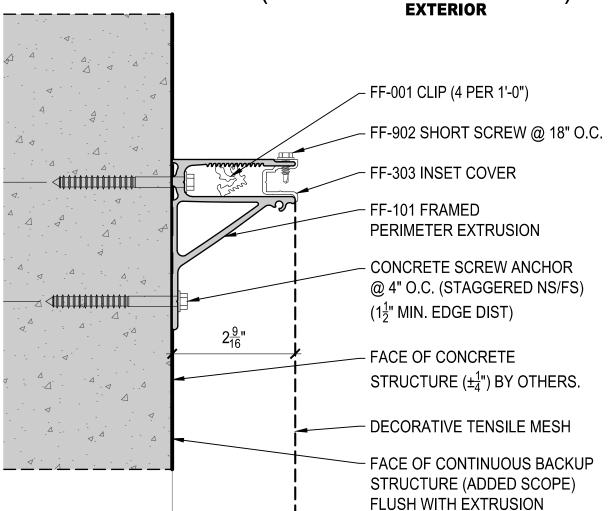
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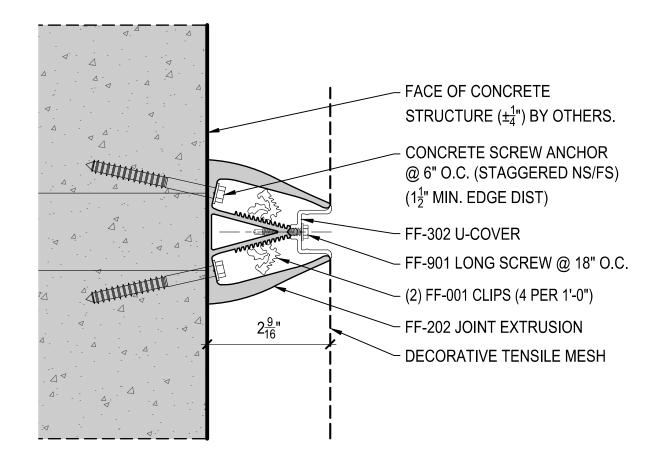
TYPE 2A - Ventilated 7-(1) Mesh W. June 10th Market 230

OPTION 1

TYPICAL ATTACHMENT (TO FACE OF CONC):

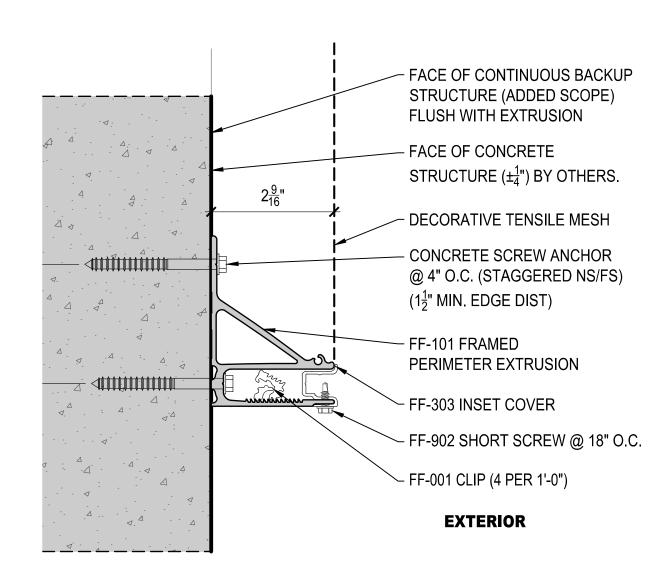


B1 FF-101 PERIMETER EXTRUSION ON CONCRETE SECTION DETAIL SCALE: 6" = 1'-0"



FF-202 JOINT EXTRUSION ON CONCRETE

SCALE: 6" = 1'-0"



B1 FF-101 PERIMETER EXTRUSION ON CONCRETE

SECTION DETAIL
SCALE: 6" = 1'-0"

Structurflex LLC

5165 Merriam Drive

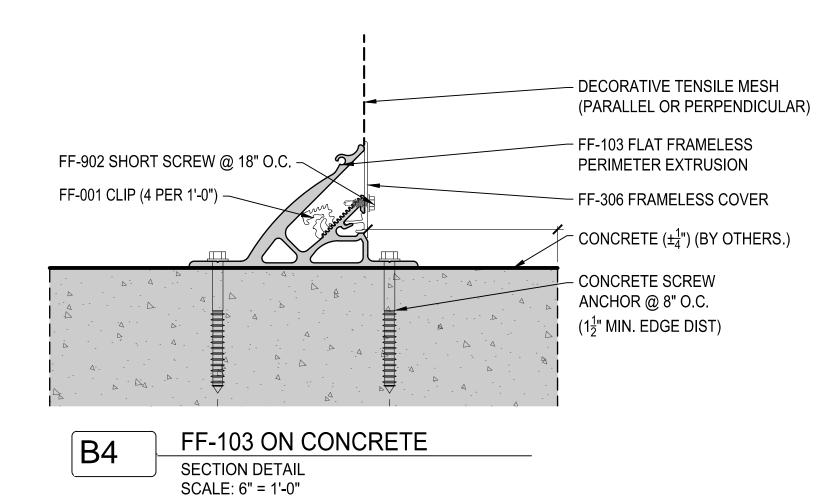
US Operations - Kansas City

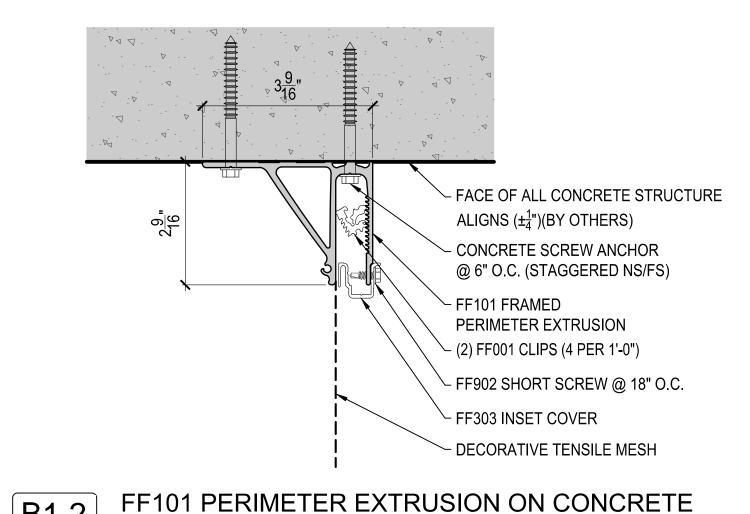
Kansas City, Kansas 66203

flexfacades.com | tel: (816) 889-9000

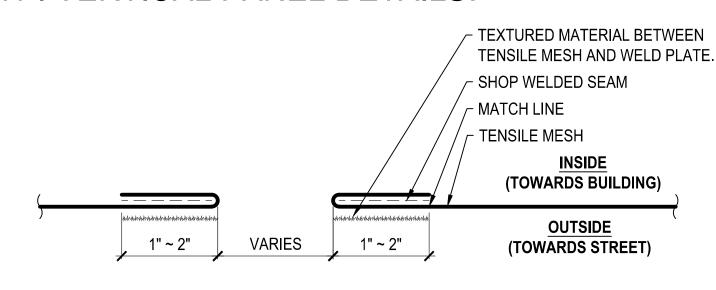
OPTION 2

ALTERNATE ATTACHMENTS (IN CONC OPENINGS):

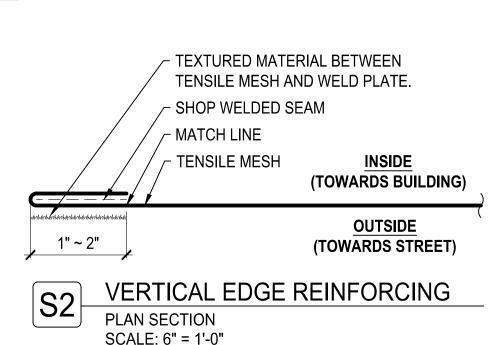




TYP. VERTICAL PANEL DETAILS:

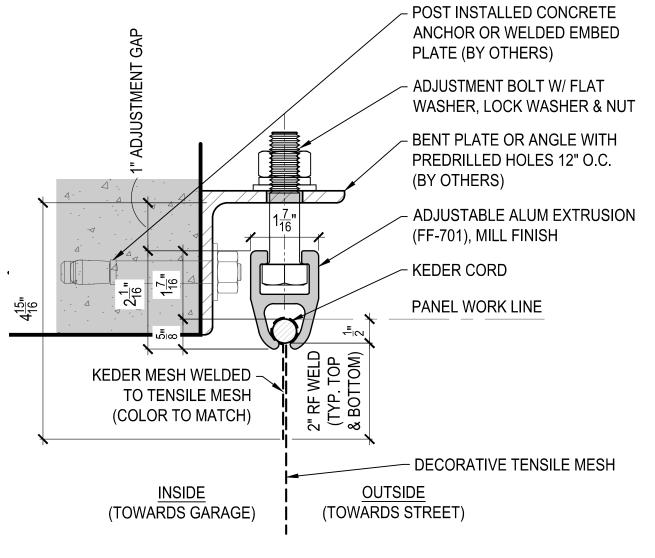






OPTION 3

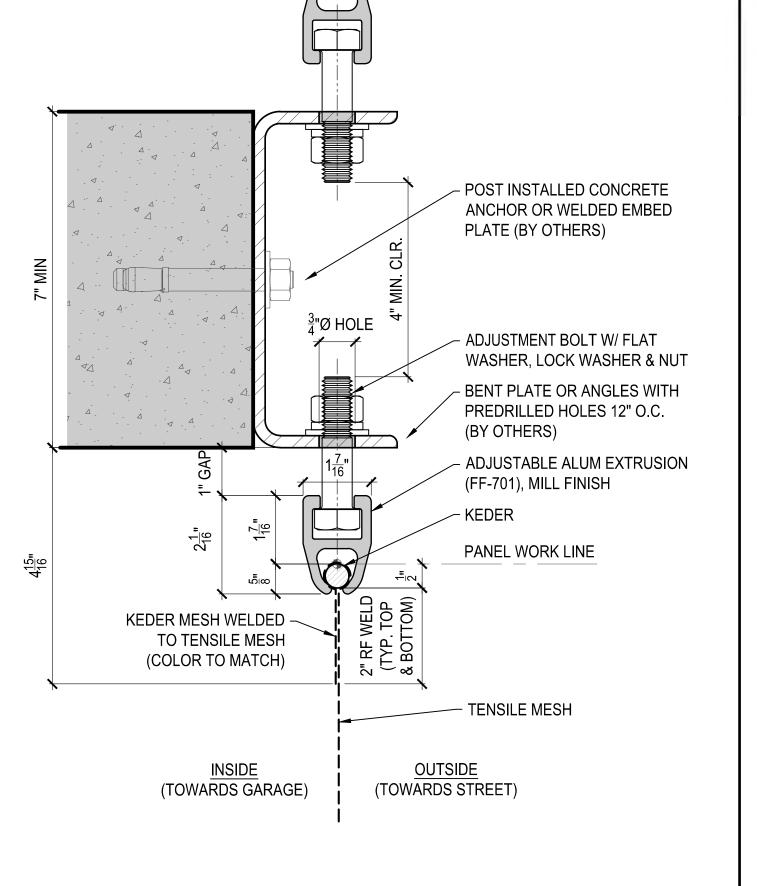
ALTERNATE ATTACHMENTS (TO STEEL):



T.O. STRETCH PANEL (BOTTOM SIM. OPP)



PANEL WORK LINE



B9 ADJUSTABLE EXTRUSION (FF-701) ON STEEL

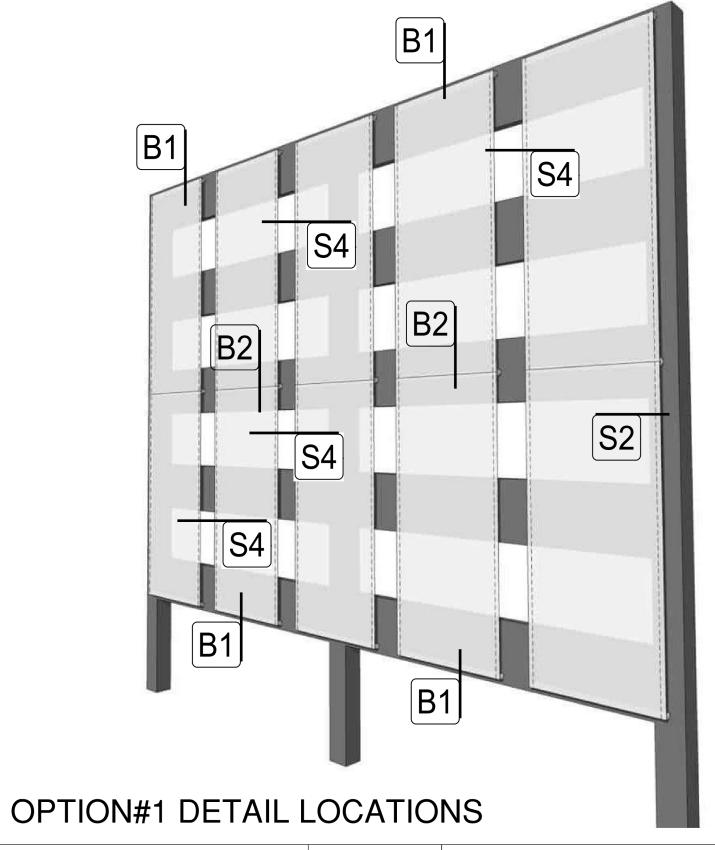
SECTION ELEVATION
SCALE: 6" = 1'-0"



TX HOUSTON: SHSU



GA ATLANTA: PONCE CITY MARKET





(FF-SP) SOLUTION B SCRENING SOLUTION PANEL SIZES: FROM ~4' to 4'-10" WIDE X ~20' HIGH



DATE: 5-18-2023 SOLUTION

SECTION 10 71 13 – DECORATIVE FACADE SCREENS

PART 1 - GENERAL

1.1 DESCRIPTION OF WORK

- A. Work in this section includes engineering, fabrication and installation of a FlexFacades Decorative 'Stretch' Panel Screens (aka Decorative Façade Screens) as manufactured by Structurflex, LLC.
- B. Decorative Façade Screens System: FlexFacades 'Stretch' Panel Screens (FF-SP)
 - 1. Is made up of exterior fire rated Architectural Decorative Mesh with fabricated 2" wide vertical reinforced hemmed edges secured with Aluminum Extrusions mounted to concrete vehicle crash/spandrel panels.
 - a. Alternate ALT#1 ADD: Upgrade to Type 1A 50% open Mesh.
 - b. Alternate **ALT#2 ADD:** Upgrade to Custom Applied Graphics/Color on Architectural Decorative Tensile Mesh.
 - c. Alternate ALT#3 ADD: Upgrade Aluminum Extrusion Finish.
 - 2. Subcontractor shall be responsible for the detailing, engineering, fabrication, supply, and installation of the Work specified herein. The intent of this specification is to establish in the first instance an undivided, single-source responsibility of the Subcontractor for all of the foregoing functions. Subcontractor's Work shall include the structural design, supply, fabrication, shipment, and erection of the following principal items:
 - a. Architectural Decorative Mesh.
 - b. Aluminum Extrusions.
 - c. Fasteners.

1.2 STANDARDS:

- A. All work shall comply with the local building codes and national standards:
 - 1. American Society for Testing and Materials (ASTM) as referenced herein and specifically the following:
 - a. ASTM D4851 Standard Test Methods for Coated and Laminated Fabrics for Architectural Use
 - ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials
 - ASTM A307-00 Standard Specification for Carbon Steel Bolts and Studs, 60,000 PSI Tensile Strength
 - d. ASTM A325-02 Standard Specification for Structural Bolts, Steel, Heat Treated, 120/105 ksi Minimum Tensile Strength
 - 2. American Iron and Steel Institute (AISI) latest edition with and as referenced
 - a. AISI Type 304
 - 3. American Society of Civil Engineers (ASCE)
 - a. Standard 'Steel Construction Manual' Latest Edition

- 4. American Welding Society (AWS)
 - a. AWS D1 1 Structural Welding Code
 - b. AWS 2.4 Symbols for Welding and Nondestructive Testing
- 5. Aluminum Association
 - a. Specifications for Aluminum Structures
- 6. National Fire Protection Association (NFPA)
 - a. NFPA 701 Standard Methods of Fire Tests for Flame-Resistant Textiles and Films.

1.3 DEFINITIONS:

- A. Maximum Working Load (MWL) is the maximum static and/or dynamic load at which the product will still function without excessive friction, distortion, wear or permanent deformation of components. Above this load, bearing systems may fail, moving parts may seize and stainless steel or plastic components may begin to bend, stretch or otherwise deform. Maximum working loads shall not exceed half of the breaking load, and shall not be exceeded by maximum design loading.
- B. Breaking Load (BL) is the published approximate load at which a major failure can be expected to occur to some part of the structure when new. Plastic components may split, rivets may give way, shackles may break, and other metallic components may fracture. Products shall not be used at more than half of the breaking load, to provide a minimum safety factor of two. The consulting engineer shall confirm that an appropriate safety factor is employed for the purpose of the intended application and consistent with all regulations and standards.
- C. The Maximum Working Loads, Breaking Loads, Minimum Yield Loads and Ultimate Loads detailed in this specification should only be considered in the context of the project application. The consulting engineer shall confirm that an appropriate safety factor is employed for the purpose of the intended application and consistent with all regulations and standards.

1.4 SYSTEM DESCRIPTION:

A. General:

- 1. System design including tension members is designated as Subcontractor Design. Subcontractor shall be responsible to coordinate and assume or assign to subcontractors and/or suppliers responsibility for design, calculations, submittals, fabrication, delivery and installation of Subcontractor Design components.
- 2. Subcontractor shall furnish proof of insurance certifying Fabricator-Installer is specifically insured in the fabrication and installation of tension membrane materials.
- 3. Subcontractor shall perform installation by component supplier, or under supplier's direct supervision.

B. Design Requirements:

Components shall be free from defects impairing strength, durability and appearance.
 Exposed surfaces throughout system shall have same inherent texture and color for similar locations.

- 2. Design and fabricate assemblies and systems to resist loads required by applicable building codes.
- 3. Structural calculations shall be prepared by a registered structural engineer. The engineer shall be licensed in the state in which project is located.

1.5 SYSTEM REQUIREMENTS

- A. General: Provide a Decorative Facade Screen system that complies with requirements specified herein by testing the Subcontractor's corresponding membrane system in accordance with the indicated test methods.
 - 1. The Architectural Decorative Mesh used on these façades shall be PVDF coated polyester PES mesh.
- B. Comply with local building codes and respective basic wind speed, wind load importance factor and wind exposure category.
- C. Architectural Decorative Mesh Fire Performance: Range of characteristics required for PVDF coated polyester PES mesh facades:
 - 1. Burning Characteristics (ASTM E84):
 - a. Flame Spread Index: 25 max.
 - b. Smoke-Developed Index: 450 max
 - 1. Flame Resistance (NFPA 701 Small Scale, UL 94):
 - a. Flame Out: 1 second after.
 - b. Char Length: 0.25-inch max.

1.6 QUALITY ASSURANCE

- A. Subcontractor Qualifications: Fabrication and erection of a Decorative Facade Screen is limited to firms with proven experience in fabrication and construction of complex fabric membrane systems meeting the following minimum requirements:
 - 1. Subcontractor is a member of the Advanced Textile Association (ATA); formerly Industrial Fabrics Association International (IFAI).
 - 2. Subcontractor's engineering services must utilize Finite Element Analysis software that performs fabric form finding and takes into account fabric material properties and pre-stress characteristics.
 - Subcontractor's responsibilities include fabricating and installing Decorative Facade Screen Structure and providing professional engineering services needed to assume engineering responsibility.
 - Subcontractor must have been in continuous operation as a professional Fabric Membrane Structure and Decorative Facade Screen manufacturer for minimum of (10) years prior to contract.

- Subcontractor has fabricated and erected at least thirty (30) custom PVDF coated polyester PES mesh Decorative Facade Screens, with at least twenty (20) structures of similar size and complexity as this project.
- 6. Demonstrate that the Subcontractor has adequate capacity and can maintain a staff experienced in the fabrication of PVDF coated polyester PES mesh who will undertake the fabrication of this project.
- 7. Subcontractor shall be certified as an ISO 9001 quality assurance fabrication manufacturer.
 - A. Installer Qualifications: Fabricator of products.
 - B. Source Quality Control:
 - 1. Obtain primary materials from a single fabrication manufacturer; use secondary materials as recommended by primary fabrication manufacturer.
 - 2. Subcontractor shall certify that products comply with reference standards and project specifications.
 - 3. Subcontractor shall be certified by product manufacturer of the Architectural Decorative Mesh for installation and submit proof of certification.
 - 4. Subcontractor maintains they will use OSHA certified installers with specialty training that pertains to the FlexFacades installation. Subcontractor's Foreman and Technicians must be employees of said subcontractor. Subcontractor to submit proof of employment and specialty training.

1.7 SUBMITTALS

A. Bid Submittals:

- 1. Subcontractor shall submit the following information with its bid:
 - Number of years the company has been in business and number of years the company has been supplying fabric membrane structures and/or fabric façade structures
 - b. Provide twenty (20) references showing projects of similar scale and similar amount of difficulty. Provide locations and contracts for referenced projects.
 - c. All names under which the company has operated and dates for the operational times of each company.
 - d. State in which the company is incorporated and date of incorporation.
 - e. Names of all corporate officers.
 - f. A detailed listing of any shareholders that own in excess of 5% and the percentage of shares owned by each.
 - g. Submit Subcontractor Qualifications per QUALITY ASSURANCE section of this specification in writing with letter head proving they meet or exceed the qualifications of each of the 7 points.

B. Product Data and Specifications

1. Submit product data specification sheets for the following:

- a. Architectural Decorative Mesh specification card with sample of material to be used. Provide copy of Manufacturer's written pass thru warranty for the material to be used.
- b. Specification sheets and supplementary information for finish system to be used for the project.
- c. Specification sheets for aluminum clamping and tensioning system extrusions.
- C. Engineering Package (Shop Drawings and Structural Calculations)
 - 1. General Subcontractor shall submit Decorative Facade Screen Structure shop drawings illustrating the finished structure along with a completed engineering report. Structural calculations and engineering drawings for the project shall be prepared by, or under the direct supervision of a Professional Engineer employed by or retained by the subcontractor. The responsible engineer may be a direct employee of the subcontractor or a qualified consulting engineer.

2. Engineering Drawings

- a. The drawings shall indicate all anchorage points along concrete structure and or streel, structural connection details, aluminum clamping and tensioning extrusion interface details, Architectural Decorative Mesh fabrication details including weld widths, and attachment details and the overall layout of mesh seaming.
- b. The drawings shall indicate all materials and products to be used for the construction of the structure.
- c. The cover sheet of the shop drawing submittal package shall indicate all structural information and related building code information used by the engineer for the design of the system.

3. Engineering Calculation Report

- a. Large deflection numerical shape generation that will ensure a stable, uniformly stressed, three dimensionally curved shape that is in static equilibrium with the internal prestress forces and is suitable to resist all applied loads.
- b. Large deflection finite element method structural analysis of the membrane system under all applicable applied wind, snow and live load conditions.
- c. Finite element method structural analysis of the support frame system.
- d. Connection design including bolt, weld, and secondary member sizing.
- e. Biaxial mesh test specification, interpretation, and membrane compensation determination.

1.8 WARRANTY

- A. Workmanship Warranty: Subcontractor agree to repair or replace components of Decorative Facade Screen that fail in materials or workmanship within specified warranty period of one year from the date of Substantial Completion.
 - 1. Failures include, but are not limited to, the following:
 - a. Deterioration of Architectural Decorative Mesh including fabricated seams.
 - b. Deterioration of Aluminum Extrusions and Fasteners, including metal finishes beyond normal weathering.
 - 2. Architectural Decorative Mesh Product Warranty: Provide Product Manufacturer 10-year pass through warranty.
- B. Prior to final payment, Subcontractor shall furnish Owner with a written Warranty, which warrants that the Architectural Decorative Mesh, its Aluminum Clamping and Tensioning Extrusion System and Fasteners and any structural support system (if included) as supplied by subcontractor has

been installed in accordance with the project specifications and shall be free from defects in materials and workmanship that will impair its normal use or service.

PART 2 - PRODUCTS

- 2.1 FABRICATION MANUFACTURER:
 - A. Provide the FlexFacades Decorative 'Stretch' Panel Screens (aka Decorative Façade Screen) supplied, engineered, fabricated by the following:
 - 1. Manufacturer: Structurflex, LLC (US Operations Kansas City)

Contact: Paul C. Snustead, Director of Facades

Address: 5165 Merriam Drive, Merriam, KS 66203 USA

Phone: (816) 889-9000 x102 Email: psnustead@flexfacades.com

Websites: www.flexfacades.com

- 2. No Substitutions.
- B. Source Limitations: Obtain FlexFacades Decorative 'Stretch' Panel Screens by Structurflex.
- C. ARCHITECTURAL DECORATIVE MESH MANUFACTURER
 - 1. Mesh Type: FlexFacades Type 1A Ventilated PVDF PES Mesh:
 - a. BASE BID: Approved Product Manufacturers (1 standard Mfr Color Selected by Architect):
 - i. Serge Ferrari, Frontside View 381 (ca 28% open)
 - ii. Sioen, Structura 300 (ca 30% open)
 - iii. Mehler, Valmex TF 400 (ca 34% open)
 - iv. Sioen, Structura 350 (ca 35% open)
 - v. Endutex, TechMesh 35 (ca 35% open)
 - b. Alternate **ALT#1 ADD**: Approved Product Manufacturers (1 standard Mfr Color Selected by Architect):
 - i. Serge Ferrari, Verseidag TXM-50 (ca 50% open)
 - ii. Sioen, Structura 050 (ca 50% open)
 - 2. Material Characteristics:
 - a. Yarn: 1100 Dtex PES-HT min
 - b. Coating: PVDF lacquered polyvinyl
 - c. Total Mass: 12 min. ounces/square yard min.
 - d. Flame Retardancy, NFPA 701: Passed.
 - i. ASTM E 84: Class A
 - a. Warranty: Product Manufacturer 10-year pass thru warranty
 - 3. Fabrication:

- a. Alternate ALT#2 ADD: Provide applied supergraphics on the Architectural Decorative Mesh with Industrial grade inks from FlexFacade's authorized Printing Companies that has at least 10-years' experience with printing on this type of mesh. Printing Company to provide a 10-year pass thru warranty on the color fastness and adhesion of all neutral colors, non-bright, non-magenta, non-red pigments colors. Printing excludes white UV inks color. High resolution electronic graphics will be provided by the Architect per FlexFacades Artwork Guidelines requirements.
- b. Fabricator shall take necessary care to plan and assemble the fabricated sections such that assembly has no shop patches. Seams, if any, shall be patterned into a symmetrical and repetitive geometric arrangement within the assembly per fabrication manufacturer's engineering, shown on shop drawings and, where feasible, hidden by structural members. Utilize radio frequency (RF) welding bars to dull the sheen the welded seams of the said architectural decorative screen mesh.

D. ALUMINUM EXTRUSIONS

- 1. Extrusion Type: FlexFacades Aluminum (FF-SP) Extrusions
 - a. Perimeter Extrusions (FF101) with Cover (FF303)
 - b. Intermediate Extrusions (FF202) with Cover (FF302)
 - c. Cover Screws (FF901 & FF902)
 - d. Tensioning Clips (FF001)
- Materials:
 - a. Structural aluminum clamping systems: ASTM alloy 6061-T6.
- 3. Finish: Mill Aluminum (Alternate **ALT#3 ADD** Clear anodized finish)
- 4. Fabrication:
 - a. Fabricate aluminum extrusions with mitered corners.
 - b. Fabricate aluminum extrusions without sharp edges.
 - c. Stamp parts with appropriate mark number.
 - d. Fabricate aluminum free of oil, grease, and machining chips.

F. FASTENERS

- 1. Manufacturer: Hilti or Buildex, or similar.
 - a. Product: Post installed Aluminum to Concrete Anchors or Aluminum to Steel TEK Screws
 - b. Finish: Galvanized or Stainless Steel

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine conditions and verify dimensions, tolerances, and method of attachment with other Work.

3.2 INSTALLATION

- A. Install Decorative Facade Screen and support structure plumb, level, and true.
- B. Tension the Architectural Decorative Mesh between the perimeter Aluminum Extrusion systems.
- C. Install Decorative Facade Screen and support structure per fabrication manufacturer's instructions and approved engineered shop drawings.

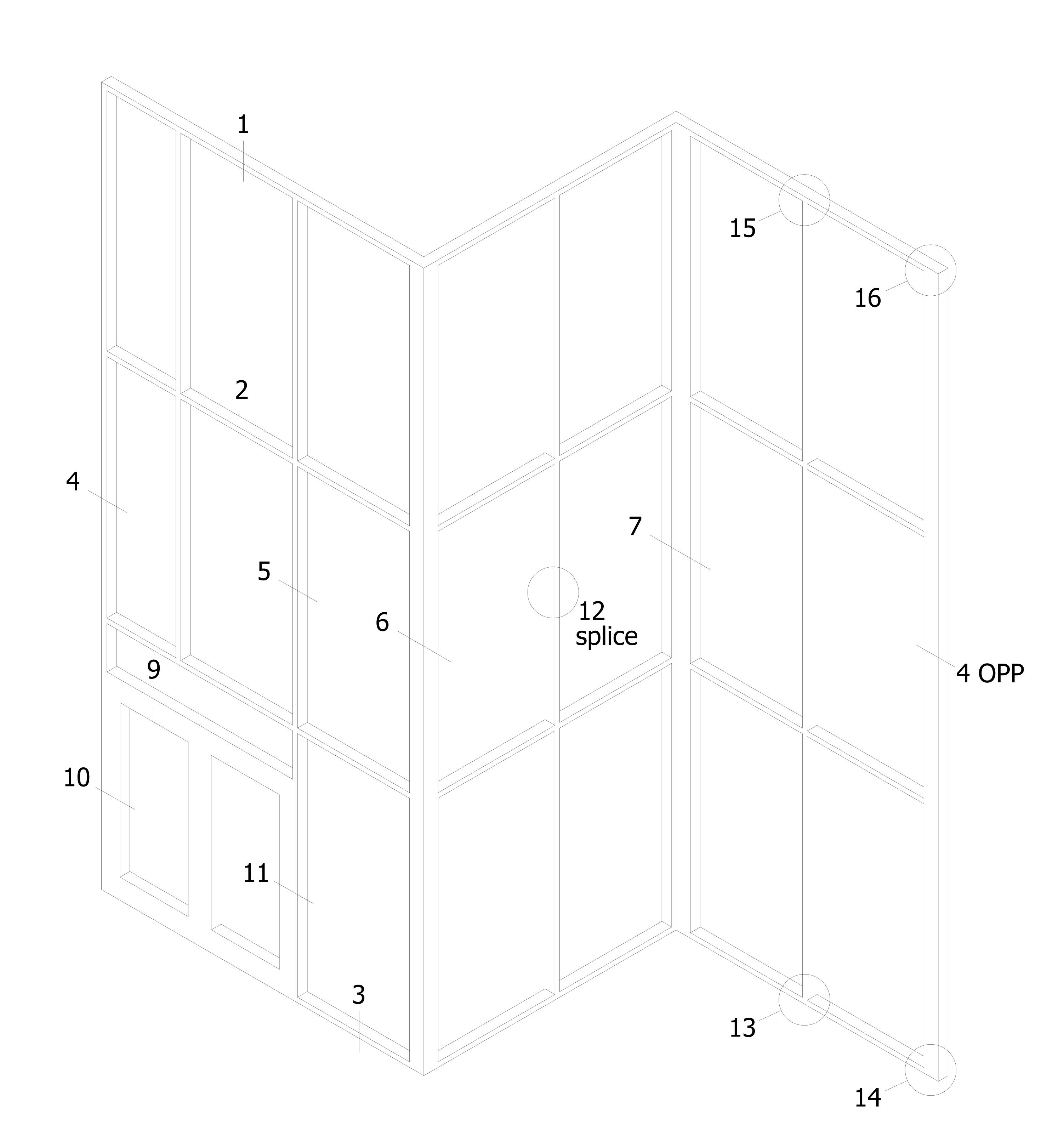
3.3 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.
- C. Protect installed products and finished surfaces from damage during construction.

3.4 CLEANING

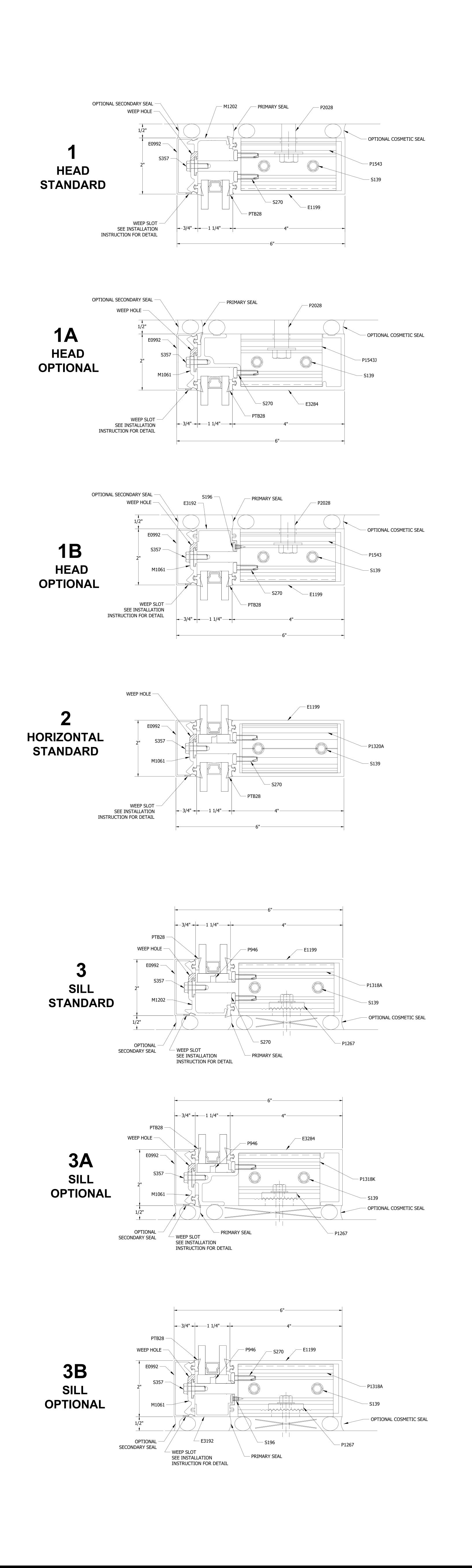
- A. Clean installed products in accordance with manufacturer's instructions before owner's acceptance.
- B. Do not use abrasive cleaners or power washing.
- C. Legally dispose of construction debris associated with this work and remove from project site.


END OF SECTION

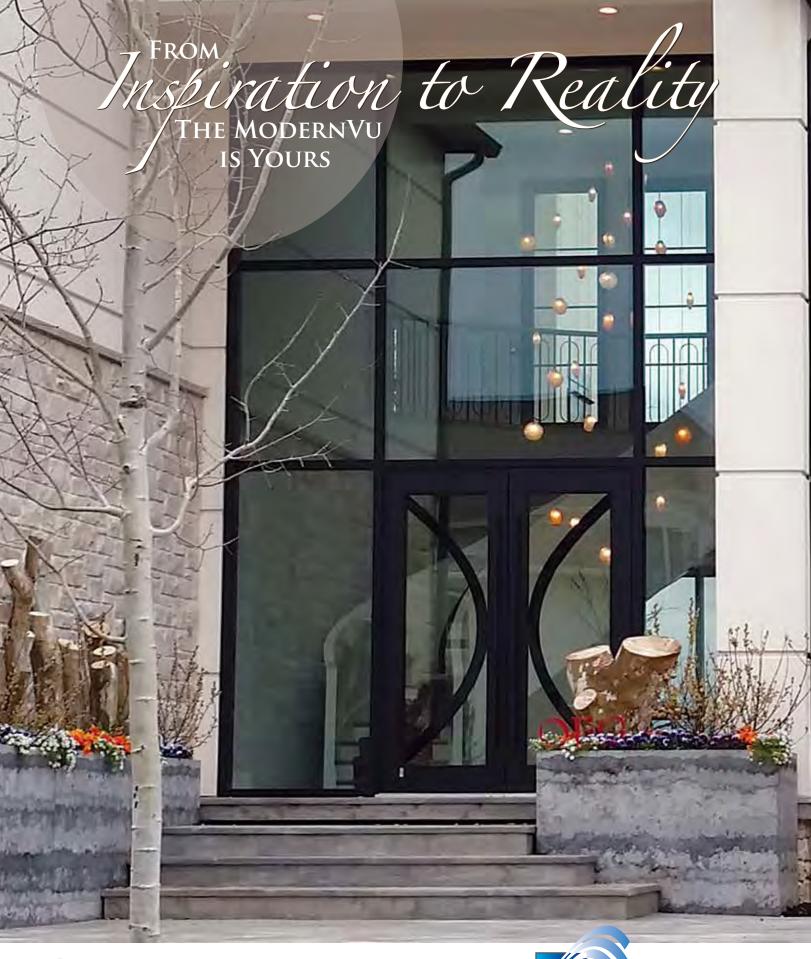


TYPICAL ELEVATION

200CW SERIES CURTAINWALL, 4" INCH











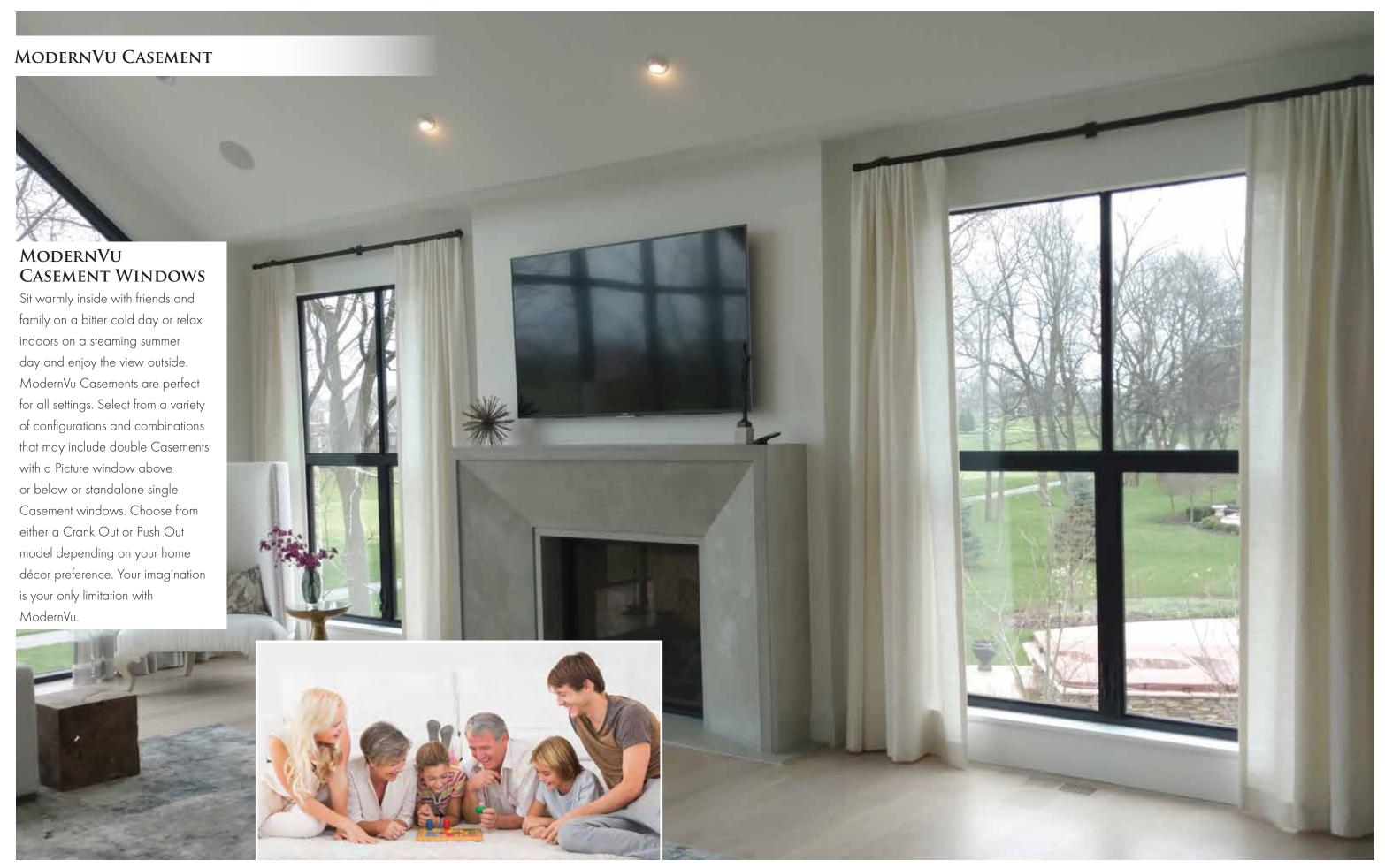


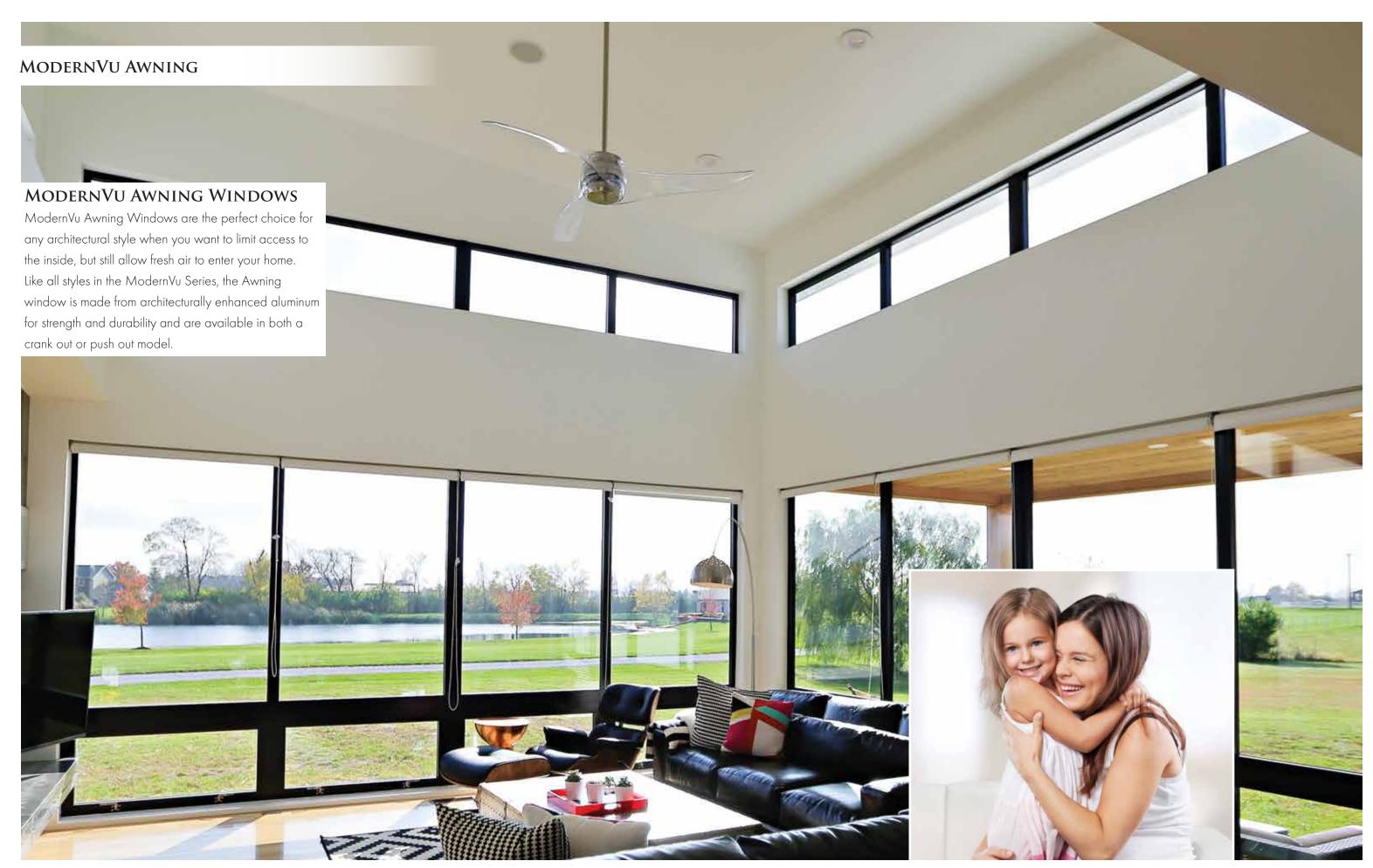
FROM INSPIRATION TO REALITY, THE MODERNVU IS YOURS.

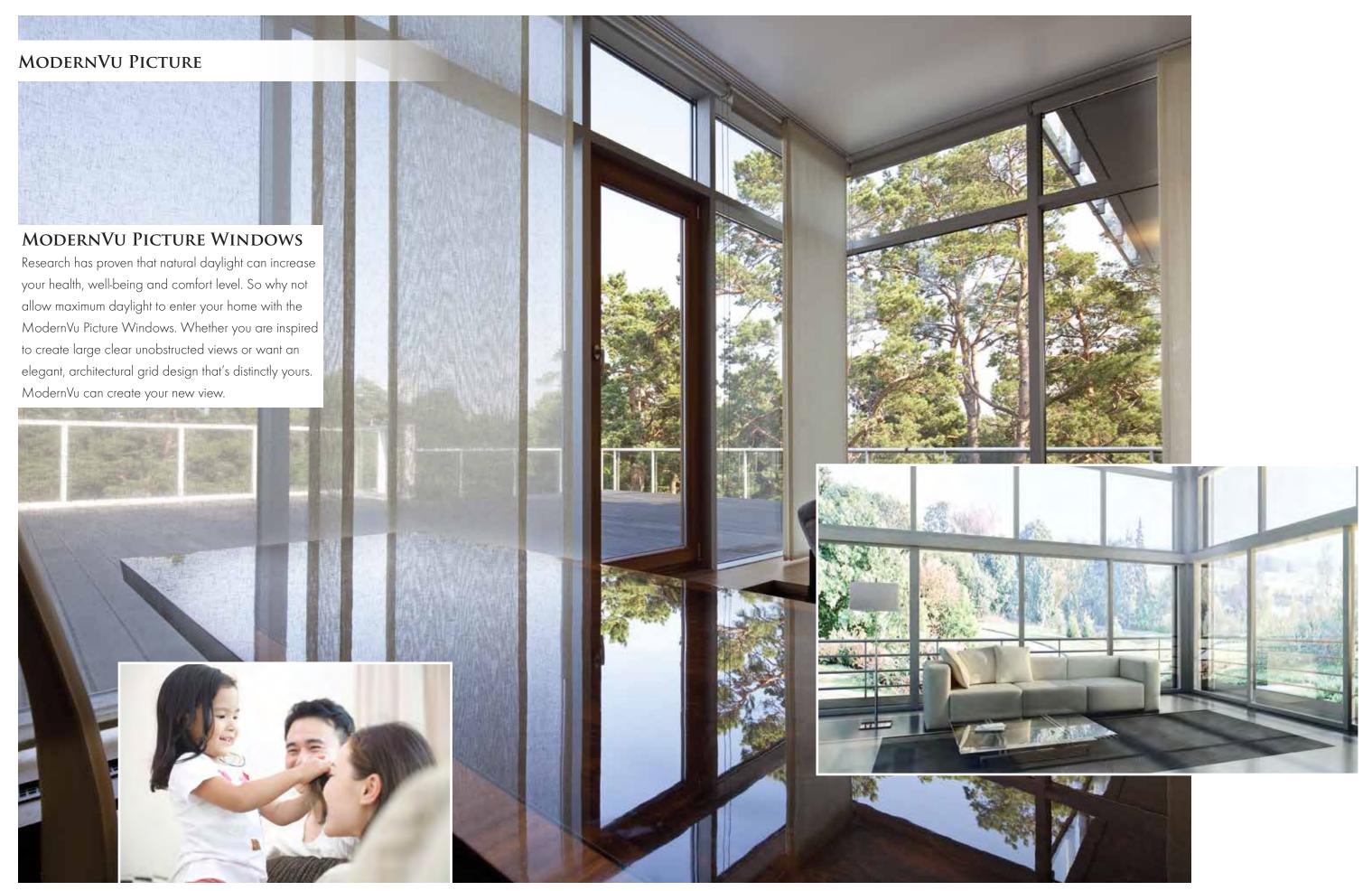
ModernVu windows allow you to expand the view of your world outside throughout the changing seasons.

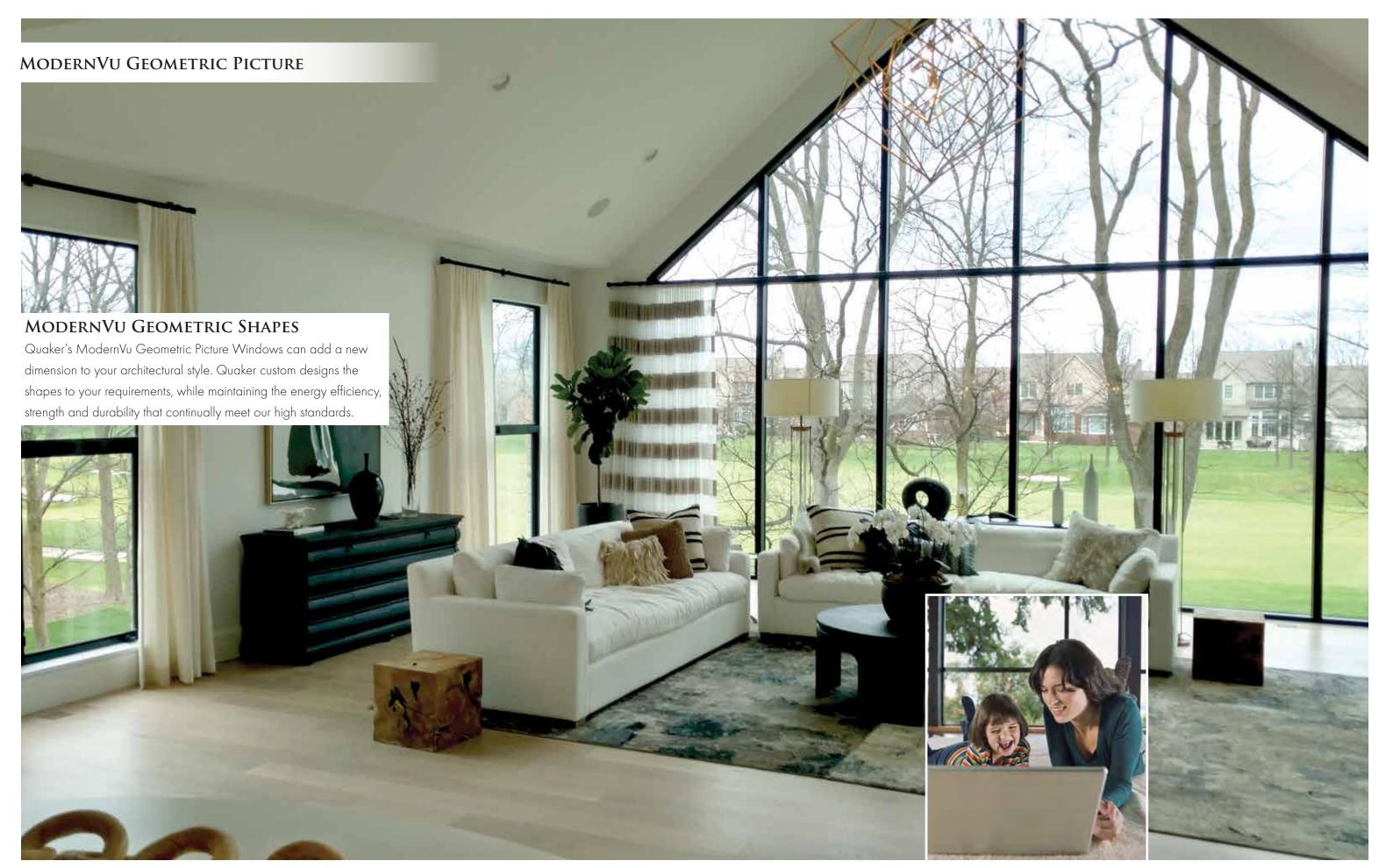
Engineered for strength and long-lasting performance against the harshest elements that may challenge your home. ModernVu is custom designed and crafted from architecturally enhanced Aluminum, offering both durability and sleek appearance that can be shaped and combined to meet your window needs and truly turn your Inspiration into Reality.

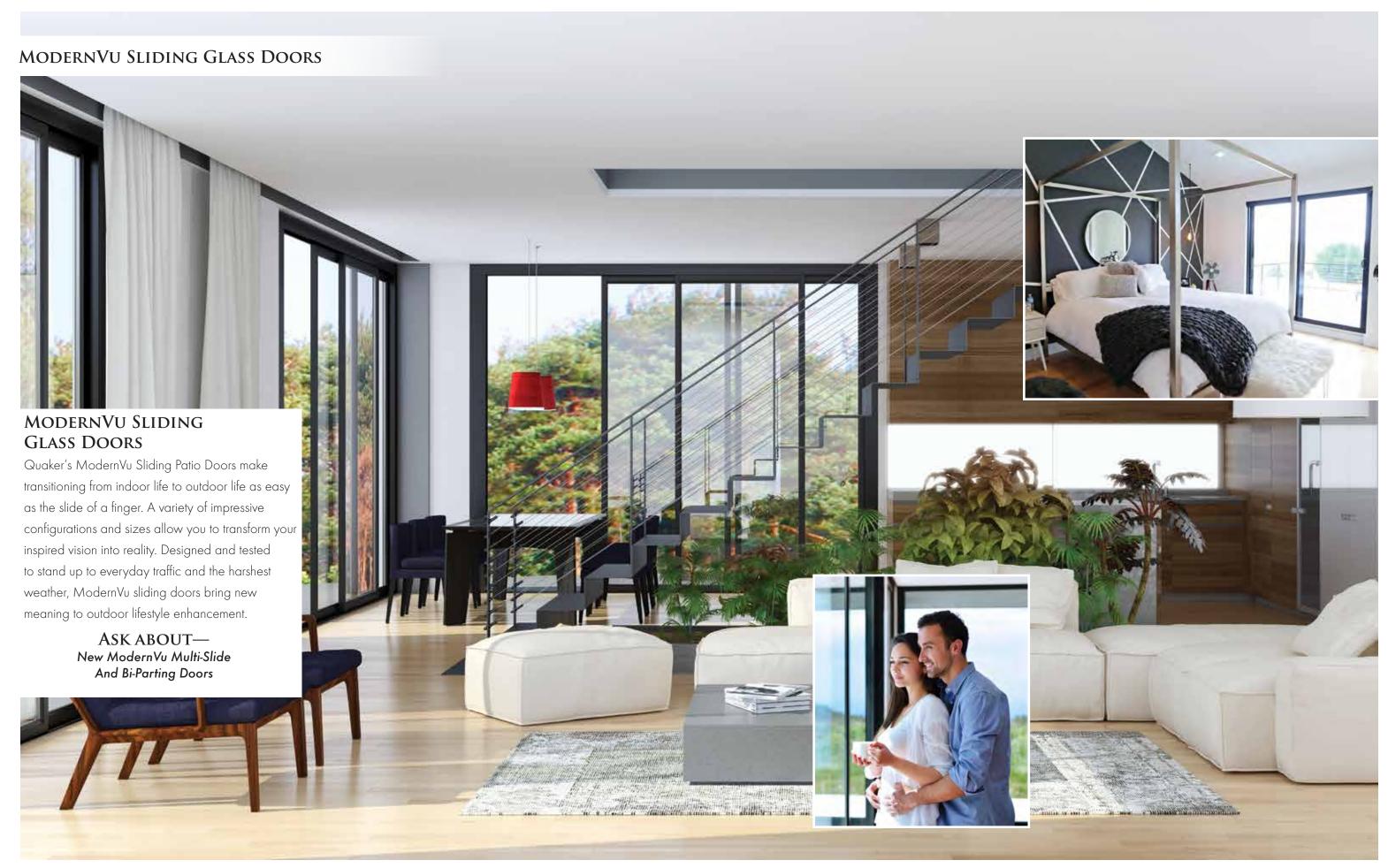


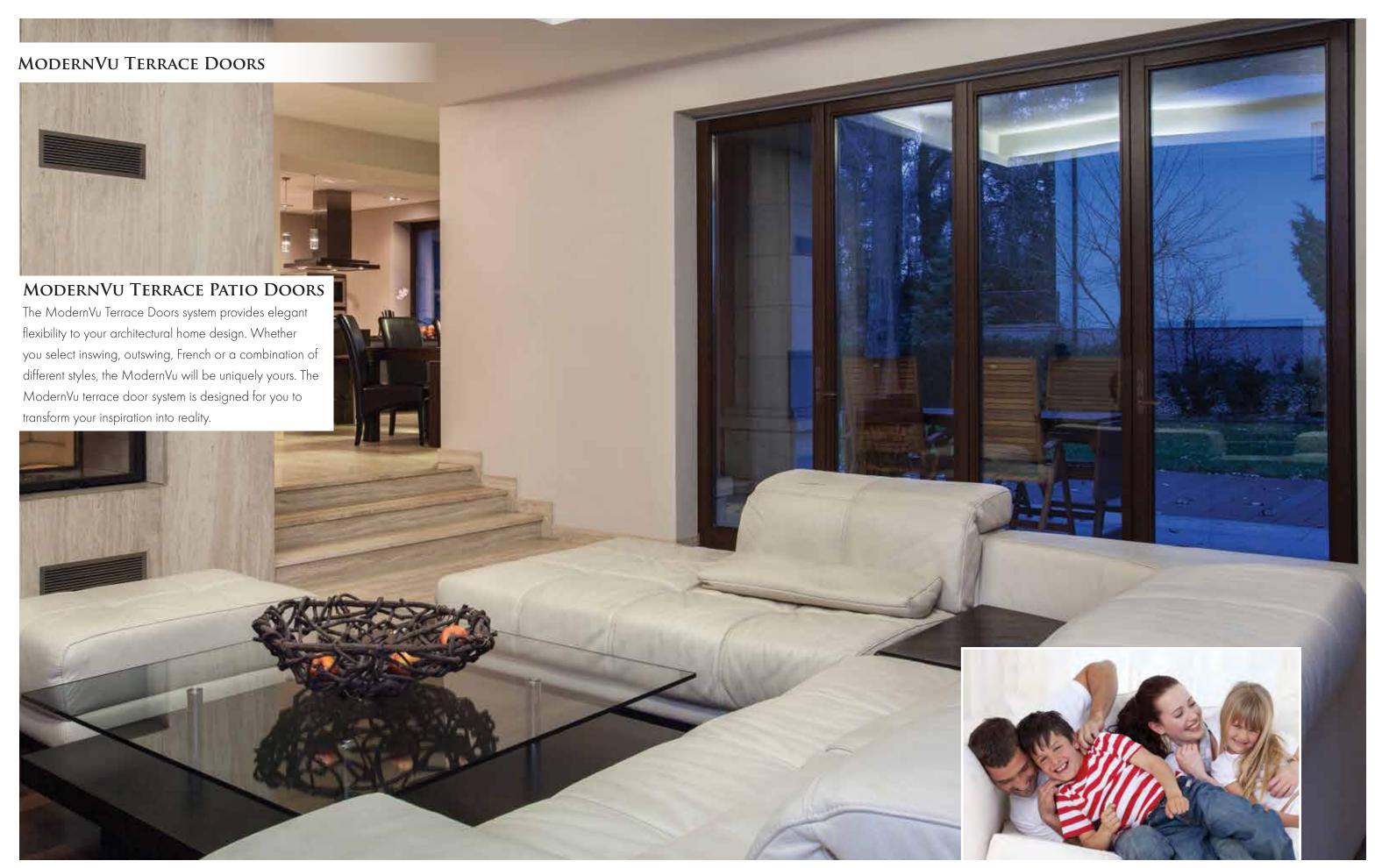












THE QUAKER DIFFERENCE



WHAT IS THE QUAKER DIFFERENCE?



It is a standard of quality, engineering, craftsmanship and innovation that Quaker builds into every window and door. It is that attention to detail and manufacturing excellence that distinguishes Quaker from all other window and door companies in America. It is providing more than windows and doors, it's providing the "Right Solution" to our customers. That's the "Quaker Difference".

SOME OF THE QUAKER DIFFERENCES INCLUDE...

Architectural Design – ModernVu windows have been designed and engineered to maximize superior performance of the aluminum. This means bigger, taller and stronger windows and doors that perform to rigid architectural standards allowing you to create the perfect look without compromising on performance.

Frame Construction – ModernVu has reset the standard when it comes to frame construction strength and durability. With a full 31/4" frame depth, ModernVu utilizes a mitered frame and corner key system that securely squares and locks the frame tight for unrivaled performance. Each corner is additionally injected with silicone creating a rigid water-tight seal.

New Construction Residential
Design — Builders and
Homeowners alike love that
ModernVu windows are
manufactured with an integral miter
cut nail fin that surrounds the entire
unit. This means no gaps or
uneven fins ensuring an installation
friendly, secure tight fit into each
window opening.

Water Management –

Channeling any encroaching water away from the inside and back out of the house is an essential part of any window system. The ModernVu series has been designed to incorporate an internal water management and weep system, which safely channels any water away from the unit and the interior of your home.

Color Flexibility and Paint
Performance – Quaker has one
of the largest state-of-the art
aluminum window powder paint
facilities in the United States. This
not only enables Quaker to offer
the ultimate in color flexibility (see
page 23), but also ensures each
window's finish is of the highest
quality and durability.

Thermal Performance –

Traditionally, aluminum windows and doors were not known for their thermal performance, but Quaker has changed all of that. With its architecturally enhanced aluminum frame design, ModernVu minimizes the effects of thermal transfer. Combine that with the optimal glass combination for your part of the country and you can see thermal performance results as much as 20% better than older generation aluminum windows.

Glass Combinations – Quaker offers a wide range of energyefficient glass packages (see page 21) to satisfy your requirements. The ModernVu design accommodates insulated glass from 1" to 1-3/8" thick. With a 1" glass system, the ModernVu ensures design flexibility and superior thermal performance. The 1-3/8" system, gives you all that performance, plus superior sound deadening qualities utilizing laminated glass and a larger air space cavity. No matter which glass thickness or options you select, you can be assured of the same uniform look throughout your home.



Roto Handles



Roto Finishes



Standard

Satin/Brushed Nickel

Push Out Handles



Push Out Finishes



Black



Satin/Brushed

Standard Features and Benefits

- 3-1/4" architecturally enhanced aluminum frame
- 1" insulating glass for optimal energy efficiency
- Multi-point locking system for ease of operation, added safety and greater aesthetic appeal (Crank-Out style)
- Cam turn handle hardware (Push-out style)
- Adjustable roto crank-out hardware
- Integral Nailing Fin
- Full screen with BetterVue screen mesh standard for crank out models
- Wicket screen with aluminum screen wire standard for push out models

Options

- Structural Mullions
- Grids Internal or Simulated Divided Lites (SDL)
- Multiple glazing packages and Finish options
- 1-3/8" glazing pocket for enhanced sound attenuation
- Impact tested with special glazing

ModernVu (Minimum and Maximum) **Casement Thermal Aluminum Windows**

	Roto Model	Push Out Model
Maximum width	48"*	36"
Maximum height	96″*	72"
Minimum width	18"	14"
Minimum height	24"	18"

^{*} Maximum width and height cannot be used together. Width and height, when added together, cannot

Casement Energy performance

	U-Value	SHGC
EnergyBasic	0.43	0.29
Energy3S	0.42	0.20
EnergyPlus	0.39	0.29
EnergyMAX	0.39	0.19
EnergyEnhanced	Pending	Pending

ModernVu (Minimum and Maximum) Awning Thermal Aluminum Windows

	Roto Model	Push Out Model
Maximum width	72"*	72"
Maximum height	84"	48"
Minimum width	22-5/8"	14"
Minimum height	22"	14"

^{*} Maximum width and height cannot be used together. Width and height, when added together, cannot

Awning Energy performance

	U-Value	SHGC
EnergyBasic	0.43	0.29
Energy3S	0.42	0.20
EnergyPlus	0.40	0.29
EnergyMAX	0.39	0.19
EnergyEnhanced	Pending	Pending

Standard Features and Benefits

- 1" insulating glass for added energy efficiency
- Extended sizes allow for larger viewing areas
- Narrow sightlines for increased viewing area

Options

- Grids Internal or Simulated Divided Lites (SDL)
- Multiple glazing packages and Finish options
- 1-3/8" glazing pocket for enhanced sound attenuation
- Impact tested with special glazing

ModernVu (Minimum and Maximum)

MODERNVU PICTURE WINDOWS FEATURES AND BENEFITS

Maximum width	120″*
Minimum height	120″*
Minimum width	12"
Minimum height	10"

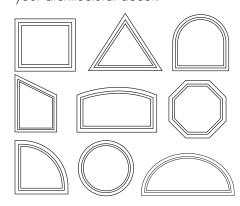
^{*} Maximum width and height cannot be used together. Width and height, when added together, cannot

Picture Window Energy performance

U-Value	SHGC
0.31	0.36
0.30	0.24
0.26	0.35
0.26	0.23
Pending	Pending
	0.31 0.30 0.26 0.26

GEOMETRIC PICTURE **WINDOWS**

ModernVu windows are made from extruded Aluminum with a high ratio of strength-to-weight allowing the material to be easily shaped to satisfy your architectural decor.



SLIDING GLASS DOORS AND FRENCH DOORS FEATURES

MODERNVU SLIDING GLASS PATIO DOORS



Available Color Finishes





Satin/Brushed

Standard Features and Benefits

- Panels 2, 3 and 4 panel configurations available
- Architecturally enhanced aluminum
- Steel rollers for ease of operation
- Internal weep system for effective water
- Anodized threshold with 1-9/16" sill
- D-loop handle set with thumb latch and
- Sliding screen with BetterVue mesh
- Available with or without Nailing Fin

Options

- Upgrade to premium 2" roller system for superior gliding operation
- ADA thumb latch hardware
- Flush handle hardware
- Impact glass where building codes necessitate
- Door and window combinations available for incomparable views
- Footbolt

ModernVu (Minimum and Maximum) Sliding Glass Patio Door Sizing

	2-Panel	3-Panel	4-Panel
Max. width	120″	180″	240"
Max. height	120″	120″	120"
Min. width	48"	76-3/8"	100-1/16"
Min. height	48"	48"	48"

Sliding Glass Patio Door Thermal Performance

	U-Value	SHGC
EnergyBasic	0.40	0.32
Energy3S	0.40	0.21
EnergyPlus	0.35	0.32
EnergyMAX	0.35	0.21
EnergyEnhanced	Pending	Pending

MODERNVU TERRACE PATIO DOORS

Standard Features and Benefits

• Inswing or Outswing models • Architecturally enhanced aluminum

• Adjustable hinge systems add to

• 5-point locking system for added security

• Door won't sag with heavy-duty corner

• Stylish lock and turn-key handle set

• Sidelites/transoms with matching

operational ease

• 2-way adjustable hinge

Hardware Choices



Available Color Finishes



Standard

Faux Oil Oil Rubbed Rubbed Bronze Bronze/Brass Rustic Umber



Brushed Nickel

ADA sill

sightlines

Options

key system

No Nailing Fin

- 10" kick plate
- Surface mounted closure
- 3-way adjustable hinge
- Impact glass where building codes necessitate
- Door and window combinations available for incomparable views
- Keyed alike hardware for multiple doors

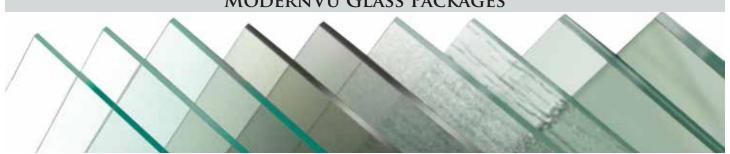
ModernVu (Minimum and Maximum) Terrace Patio Door Sizing

	1-Panel	2-Panel
Maximum width	48"	84"
Maximum height	120″	120″
Minimum width	24"	48"
Minimum height	72"	72"

Terrace Patio Door Thermal Performance

	U-Value	SHGC
EnergyBasic	0.41	0.28
Energy3S	0.37	0.19
EnergyPlus	0.36	0.28
EnergyMAX	0.37	0.19
EnergyEnhanced	Pending	Pending

MODERNVU GLASS PACKAGES



Unrivaled Glass Performance

ModernVu windows and doors have an energy-efficient glass package to satisfy every home, in every city, every state - regardless of your climate challenges. Selecting the right glass package for your home will heighten energy-efficiency and provide you with a more consistent level of comfort throughout the year

The Energy Series Glass Packages include —

ENERGYBASIC

Our basic Low-E provides as much as 30% better U-Value and Solar Heat Gain coverage than clear glass.

Energy 3S

Comparable to our EnergyBasic, yet delivers Solar Heat Gains 25-30% better

ENERGY PLUS

An upgraded Low-E system that excels against U-V rays, and extends energy-efficiency up to 15%.

ENERGYMAX

If low U-Values and Solar Heat Gains are an absolute must, this glass system maximizes your coverage.

ENERGY Enhanced

Elevates both comfort and views. Special Low-E enhances energy-efficiency and reduces glare, presenting a near HD appearance. Plus, your glass is kept clean naturally with the addition of Neat+ Low Maintenance glass.

- EnergyObscure Designed for areas needing the utmost in privacy
- Tempered Glass for safety
- Laminated Glass for safety and sound attenuation
- Impact Glass for coastal areas that mandate paramount protection
- Bronze, Gray, Blue and Green Tinted Glass

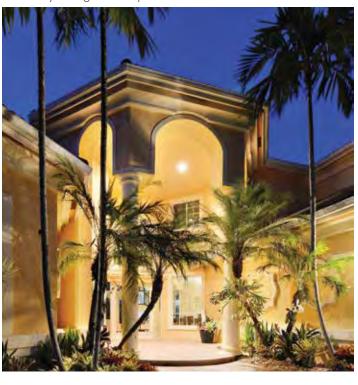
Or ask about other custom glass choices

Impact Protection

Quaker has designed our ModernVu Series to offer an Impact Window option to meet nationally recognized impact

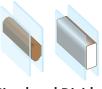
Impact products are specially glazed and structurally reinforced to meet or exceed codes mandated for areas where violent high wind conditions and wind-borne debris may occur.

All ModernVu windows and doors are certified to meet nationally recognized Impact standards.



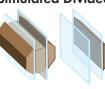
OPTIONAL GRID CHOICES

Grids Between the Glass

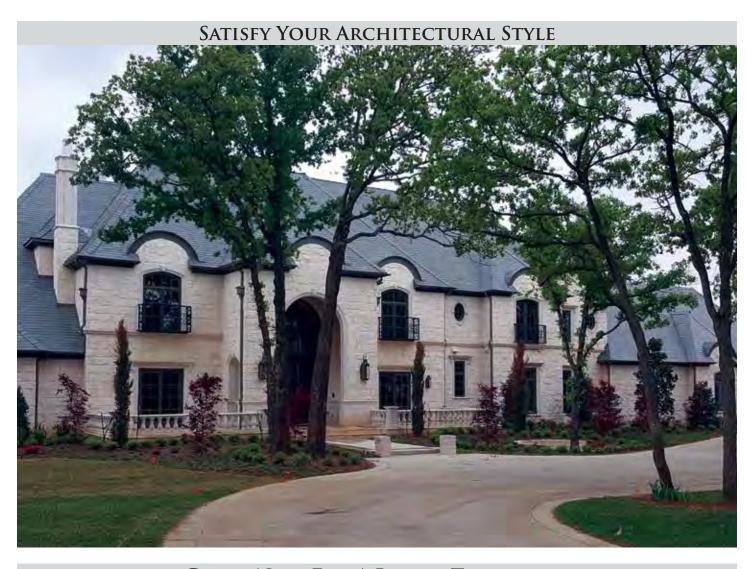


Decorative internal muntins add a distinct style to your windows. Because they are inside the glass, they are dust and maintenance free.

Simulated Divided Lites



Truly enhance your ModernVu windows with Simulated Divided Lites (SDL). SDL's, with their 3-dimensional feel, simulate individual glass panes (divided lites) for a decorative and distinct impression



GREEN NOW FOR A BETTER TOMORROW

At Quaker Windows & Doors, thinking Green is nothing new to us. We're very proud to say we've been offering positive, environmental products for decades — including our recycling initiatives, our environmentally-safe powder paint and our innovative product designs that increase ventilation, thermal comfort, daylighting and energy performance levels.



THE VALUE OF ENERGY STAR® CERTIFIED PRODUCTS



As an Energy Star Partner, we offer all of the benefits that come with Energy Star qualified windows and doors – greater energy efficiency, lower fuel bills, improved home comfort, reduced condensation potential, decreased carbon footprints and protection against damaging

UV rays that affect interior fading of floors, carpets, and furniture.

While not all of our product/glass combinations meet Energy Star criteria, we're proud to assert that several do — a major feat for aluminum windows and doors and a great testimonial for our ModernVu Series.

A SPECTRUM OF COLOR



Rich Colors

When it comes to windows and doors, there is probably no feature more discussed than color.

The ModernVu Series of windows and doors removes that pressure by offering an unlimited selection of colors. Choose a deep rich hunter green, a soft charcoal

gray or a distinct Blue to enhance your home's design. Whatever you want - whatever your style - the ModernVu is the cure for the common color.

To help get you started, we have 38 "Quick Pick" colors from which to choose.

SolarLE

Keep your window and door exteriors cooler with optional SolarLE Paint, an additive that works much like Low-E in glass. SolarLE Paint is proven technology that has been adapted to work with windows. It diminishes surface temperatures as much as 15% by repelling excessive solar heat, reducing the possibility of thermal heat transfer through your windows and doors. Available with Textured Dark Espresso and Textured Black coatings.

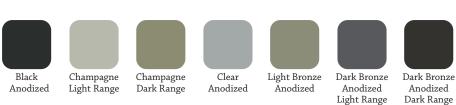
The Environmental Choice

As part of our Green initiative, we employ only powder coat paint for our extruded aluminum exteriors. Powder-coatings emit nearly zero VOC's (Volatile Organic Compounds) into the air, and almost all of our over-spray is reclaimed thus eliminating waste. Powder Coat facilities are also more energy efficient, which contribute to the Department of Energy's Zero-Net Energy initiative.

IMPRESSIVES PALETTE OF COLORS



RESEMBLES COLORS



^{*} Note: Although every effort is made, printed colors may not accurately reflect the actual paint color. For an exact color match, please contact your Quaker dealer for an actual color sample. Quaker does not assume any responsibility for any misrepresentations of our colors.



MADE IN America

For more then 70 years, Quaker Windows & Doors has been manufacturing products in Freeburg, Missouri - right in the heartland of America. When it comes to windows and doors that truly set a home or building apart, Quaker has them. We offer that unique blend of design, quality craftsmanship, with state-of-the-art manufacturing technology to create the perfect solution for your home.









Learn More About Brighton Windows















www.QuakerResidentialWindows.com www.QuakerWindows.com 1-800-347-0438

Proudly made in America with Quaker Windows Innovation. Since 1949



Standard Size Booklet for

ModernWu

Aluminum Windows & Doors



Quaker Window Products Company makes every attempt to ensure the information contained in this booklet is accurate and up-to-date.

However, periodic changes may occur which may alter the product data thus we reserve the right to change or withdraw information at any time.

Casement (crank-out a.k.a. roto)



Callout	Actual	Rough
	Size	Opening
2020	24" x 24"	24 3/4" x 24 1/2"
2026	24" x 30"	24 3/4" x 30 1/2"
2030	24" x 36"	24 3/4" x 36 1/2"
2036	24" x 42"	24 3/4" x 42 1/2"
2040	24" x 48"	24 3/4" x 48 1/2"
2046	24" x 54"	24 3/4" x 54 1/2"
2050	24" x 60"	24 3/4" x 60 1/2"
2056	24" x 66"	24 3/4" x 66 1/2"
2060	24" x 72"	24 3/4" x 72 1/2"
2070	24" x 84"	24 3/4" x 84 1/2"
2080	24" x 96"	24 3/4" x 96 1/2"
2420	28" x 24"	28 3/4" x 24 1/2"
2426	28" x 30"	28 3/4" x 30 1/2"
2430	28" x 36"	28 3/4" x 36 1/2"
2436	28" x 42"	28 3/4" x 42 1/2"
2440	28" x 48"	28 3/4" x 48 1/2"
2446	28" x 54"	28 3/4" x 54 1/2"
2450	28" x 60"	28 3/4" x 60 1/2"
2456	28" x 66"	28 3/4" x 66 1/2"
2460	28" x 72"	28 3/4" x 72 1/2"
2470	28" x 84"	28 3/4" x 84 1/2"
2480	28" x 96"	28 3/4" x 96 1/2"

Callout	Actual Size	Rough Opening
2620	30" x 24"	30 3/4" x 24 1/2"
2626	30" x 30"	30 3/4" x 30 1/2"
2630	30" x 36"	30 3/4" x 36 1/2"
2636 ☆	30" x 42"	30 3/4" x 42 1/2"
2640 ☆ ◢	30" x 48"	30 3/4" x 48 1/2"
2646 ☆▲	30" x 54"	30 3/4" x 54 1/2"
2650 ☆ ◢	30" x 60"	30 3/4" x 60 1/2"
2656 ☆⊿	30" x 66"	30 3/4" x 66 1/2"
2660 ☆ ◢	30" x 72"	30 3/4" x 72 1/2"
2670 ☆ 🛦	30" x 84"	30 3/4" x 84 1/2"
2680 ☆ ◢	30" x 96"	30 3/4" x 30 1/2"
2820	32" x 24"	32 3/4" x 24 1/2"
2826	32" x 30"	32 3/4" x 30 1/2"
2830 ☆	32" x 36"	32 3/4" x 36 1/2"
2836 ☆ ◢	32" x 42"	32 3/4" x 42 1/2"
2840 ☆ ◢	32" x 48"	32 3/4" x 48 1/2"
2846 ☆ ◢	32" x 54"	32 3/4" x 54 1/2"
2850 ☆ 🛦	32" x 60"	32 3/4" x 60 1/2"
2856 ☆ ◢	32" x 66"	32 3/4" x 66 1/2"
2860 ☆ ◢	32" x 72"	32 3/4" x 72 1/2"
2870 ☆ ◢	32" x 84"	32 3/4" x 84 1/2"
2880 ☆ 🗸	32" x 96"	32 3/4" x 96 1/2"

Callout	Actual Size	Rough Opening
3020	36" x 24"	36 3/4" x 24 1/2"
3026	36" x 30"	36 3/4" x 30 1/2"
3030 ☆▲	36" x 36"	36 3/4" x 36 1/2"
3036 ☆▲	36" x 42"	36 3/4" x 42 1/2"
3040 ☆▲	36" x 48"	36 3/4" x 48 1/2"
3046 ☆▲	36" x 54"	36 3/4" x 54 1/2"
3050 ☆▲	36" x 60"	36 3/4" x 60 1/2"
3056 ☆⊿	36" x 66"	36 3/4" x 66 1/2"
3060 ☆▲	36" x 72"	36 3/4" x 72 1/2"
3070 ☆⊿	36" x 84"	36 3/4" x 84 1/2"
3080 ☆▲	36" x 96"	36 3/4" x 96 1/2"
4020	48" x 24"	48 3/4" x 24 1/2" ¹
4026 ☆	48" x 30"	48 3/4" x 30 1/2"
4030 ☆	48" x 36"	48 3/4" x 36 1/2"
4036 ☆	48" x 42"	48 3/4" x 42 1/2"
4040 ☆	48" x 48"	48 3/4" x 48 1/2"
4046 ☆	48" x 54"	48 3/4" x 54 1/2"
4050 ☆	48" x 60"	48 3/4" x 60 1/2"
4056 ☆	48" x 66"	48 3/4" x 66 1/2"
4060 ☆	48" x 72"	48 3/4" x 72 1/2"
4070 ☆	48" x 84"	48 3/4" x 84 1/2"

4' widths only available with butt hinge [4-bar n/a]

- ▲ = Meets egress minimum opening of 5.7 sq. ft., with a 20" minimum width and 24" minimum height using 4-bar hinging.
- 太 = Meets egress minimum opening of 5.7 sq. ft., with a 20" minimum width and 24" minimum height using butt hinge.

Casement (push out)



Callout	Actual Size	Rough Opening
2020	24" x 24"	24 3/4" x 24 1/2"
2030	24" x 36"	24 3/4" x 36 1/2"
2036	24" x 42"	24 3/4" x 42 1/2"
2040	24" x 48"	24 3/4" x 48 1/2"
2046	24" x 54"	24 3/4" x 54 1/2"
2050	24" x 60"	24 3/4" x 60 1/2"
2056	24" x 66"	24 3/4" x 66 1/2"
2060	24" x 72"	24 3/4" x 72 1/2"
2420	28" x 24"	28 3/4" x 24 1/2"
2430	28" x 36"	28 3/4" x 36 1/2"
2436	28" x 42"	28 3/4" x 42 1/2"
2440	28" x 48"	28 3/4" x 48 1/2"
2446	28" x 54"	28 3/4" x 54 1/2"
2450	28" x 60"	28 3/4" x 60 1/2"
2456	28" x 66"	28 3/4" x 66 1/2"
2460	28" x 72"	28 3/4" x 72 1/2"

Callout	Actual Size	Rough Opening
2620	30" x 24"	30 3/4" x 24 1/2"
2630	30" x 36"	30 3/4" x 36 1/2"
2636	30" x 42"	30 3/4" x 42 1/2"
2640	30" x 48"	30 3/4" x 48 1/2"
2646 7	30" x 54"	30 3/4" x 54 1/2"
2650 7	30" x 60"	30 3/4" x 60 1/2"
2656 7	30" x 66"	30 3/4" x 66 1/2"
2660 7	30" x 72"	30 3/4" x 72 1/2"
2820	32" x 24"	32 3/4" x 24 1/2"
2830	32" x 36"	32 3/4" x 36 1/2"
2836	32" x 42"	32 3/4" x 42 1/2"
2840 7	32" x 48"	32 3/4" x 48 1/2"
2846 7	32" x 54"	32 3/4" x 54 1/2"
2850 7	32" x 60"	32 3/4" x 60 1/2"
2856 7	32" x 66"	32 3/4" x 66 1/2"
2860 7	32" x 72"	32 3/4" x 72 1/2"

Callout	Actual Size	Rough Opening
3020	36" x 24"	36 3/4" x 24 1/2"
3030	36" x 36"	36 3/4" x 36 1/2"
3036 47	36" x 42"	36 3/4" x 42 1/2"
3040 47	36" x 48"	36 3/4" x 48 1/2"
3046 47	36" x 54"	36 3/4" x 54 1/2"
3050 ⊿ 7	36" x 60"	36 3/4" x 60 1/2"
3056 47	36" x 66"	36 3/4" x 66 1/2"
3060 ⊿7	36" x 72"	36 3/4" x 72 1/2"

 Δ = Meets egress minimum opening of 5.7 sq. ft., with a 20" minimum width and 24" minimum height using Push-Out hardware.

7 = Meets egress minimum opening of 5.7 sq. ft., with a 20" minimum width and 24" minimum height using Push-Out hardware and Egress Hinge.

Awning (crank out a.k.a. roto or push-out)



All callout sizes shown are available with crank out a.k.a. roto hardware. Callout sizes shown with an asterisk are available with push out hardware also.

Callout	Actual Size	Rough Opening			
2016*	24" x 18"	24 3/4" x 18 1/2"			
2020*	24" x 24"	24 3/4" x 24 1/2"			
2026*	24" x 30"	24 3/4" x 30 1/2"			
2030*	24" x 36"	24 3/4" x 36 1/2"			
2040*	24" x 48"	24 3/4" x 48 1/2"			
2050	24" x 60"	24 3/4" x 60 1/2"			
2060	24" x 72"	24 3/4" x 72 1/2"			
2616*	30" x 18"	30 3/4" x 18 1/2"			
2620*	30" x 24"	30 3/4" x 24 1/2"			
2626*	30" x 30"	30 3/4" x 30 1/2"			
2630*	30" x 36"	30 3/4" x 36 1/2"			
2640*	30" x 48"	30 3/4" x 48 1/2"			
2650	30" x 60"	30 3/4" x 60 1/2"			
2660	30" x 72"	30 3/4" x 72 1/2"			

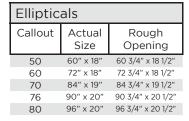
Callout	Actual Size	Rough Opening
3016*	36" x 18"	36 3/4" x 18 1/2"
3020*	36" x 24"	36 3/4" x 24 1/2"
3026*	36" x 30"	36 3/4" x 30 1/2"
3030*	36" x 36"	36 3/4" x 36 1/2"
3040*	36" x 48"	36 3/4" x 48 1/2"
3050	36" x 60"	36 3/4" x 60 1/2"
3060	36" x 72"	36 3/4" x 72 1/2"
3616*	42" x 18"	42 3/4" x 18 1/2"
3620*	42" x 24"	42 3/4" x 24 1/2"
3626*	42" x 30"	42 3/4" x 30 1/2"
3630*	42" X 36"	42 3/4" X 36 1/2"
3640*	42" x 48"	42 3/4" x 48 1/2"
3650	42" x 60"	42 3/4" x 60 1/2"
3660	42" x 72"	42 3/4" x 72 1/2"

Callout	Actual	Rough
	Size	Opening
4016*	48" x 18"	48 3/4" x 18 1/2"
4020*	48" x 24"	48 3/4" x 24 1/2"
4026*	48" x 30"	48 3/4" x 30 1/2"
4030*	48" x 36"	48 3/4" x 36 1/2"
4040*	48" x 48"	48 3/4" x 48 1/2"
4050	48" x 60"	48 3/4" x 60 1/2"
4060	48" x 72"	48 3/4" x 72 1/2"
5016*	60" x 18"	60 3/4" x 18 1/2"
5020*	60" x 24"	60 3/4" x 24 1/2"
5026*	60" x 30"	60 3/4" x 30 1/2"
5030*	60" x 36"	60 3/4" x 36 1/2"
5040*	60" x 48"	60 3/4" x 48 1/2"
5050	60" x 60"	60 3/4" x 60 1/2"
6016*	72" x 18"	72 3/4" x 18 1/2"
6020*	72" x 24"	72 3/4" × 24 1/2"
6026*	72" x 30"	72 3/4" x 30 1/2"
6030*	72" x 36"	72 3/4" x 36 1/2"
6040*	72" x 48"	72 3/4" x 48 1/2"

Direct Set Picture Windows

Callout	Actual	Rough	Callout	Actual	Rough	Callout	Actual	Rough	Callout	Actual	Rough
	Size	Opening		Size	Opening		Size	Opening		Size	Opening
1610	18" x 12"	18 3/4" x 12 1/2"	2690	30" x 108"	30 3/4" x 108 1/2"	3680	42" x 96"	42 3/4" x 96 1/2"	5076	60" x 90"	60 3/4" x 90 1/2'
1612	18" x 14"	18 3/4" x 14 1/2"	26100	30" x 120"	30 3/4" x 120 1/2"	3690		42 3/4" x 108 1/2"	5080	60" x 96"	60 3/4" x 96 1/2"
1614	18" x 16"	18 3/4" x 16 1/2"	2810	32" x 12"	32 3/4" x 12 1/2"	36100	42" x 120"	42 3/4" x 120 1/2"	5090	60" x 108"	60 3/4" x 108 1/2"
1616	18" x 18"	18 3/4" x 18 1/2"	2812	32" x 14"	32 3/4" x 14 1/2"	3810	44" x 12"	44 3/4" x 12 1/2"	50100	60" x 120"	60 3/4" x 120 1/2"
1620	18" x 24"	18 3/4" x 24 1/2"	2814	32" x 16"	32 3/4" x 16 1/2"	3812	44" x 14"	44 3/4' x 14 1/2"	5410	64" x 12"	64 3/4" x 12 1/2"
1626	18" x 30"	18 3/4" x 30 1/2"	2816	32" x 18"	32 3/4" x 18 1/2"	3814	44" x 16"	44 3/4" x 16 1/2"	5412	64" x 14"	64 3/4' x 14 1/2"
1630	18" x 36"	18 3/4" x 36 1/2"	2820	32" x 24"	32 3/4" x 24 1/2"	3816	44" x 18"	44 3/4" x 18 1/2"	5414	64" x 16"	64 3/4" x 16 1/2"
1636	18" x 42"	18 3/4" x 42 1/2"	2826	32" x 30"	32 3/4" x 30 1/2"	3820	44" x 24"	44 3/4" x 24 1/2"	5416	64" x 18"	64 3/4" x 18 1/2"
1640	18" x 48"	18 3/4" x 48 1/2"	2830	32" x 36"	32 3/4" x 36 1/2"	3826	44" x 30"	44 3/4" x 30 1/2"	5420	64" x 24"	64 3/4" x 24 1/2"
1646	18" x 54"	18 3/4" x 54 1/2"	2836	32" x 42"	32 3/4" x 42 1/2"	3830	44" x 36"	44 3/4" x 36 1/2"	5426	64" x 30"	64 3/4" x 30 1/2"
1650	18" x 60"	18 3/4" x 60 1/2"	2840	32" x 48"	32 3/4" x 48 1/2"	3836	44" x 42"	44 3/4" x 42 1/2"	5430	64" x 36"	64 3/4" x 36 1/2"
1656	18" x 66"	18 3/4" x 66 1/2"	2846	32" x 54"	32 3/4" x 54 1/2"	3840	44" x 48"	44 3/4" x 48 1/2"	5436	64" x 42"	64 3/4" x 42 1/2"
1660	18" x 72"	18 3/4" x 72 1/2"	2850	32" x 60"	32 3/4" x 60 1/2"	3846	44" x 54"	44 3/4" x 54 1/2"	5440	64" x 48"	64 3/4" x 48 1/2"
1666	18" x 78"	18 3/4" x 78 1/2"	2856	32" x 66"	32 3/4" x 66 1/2"	3850	44" x 60"	44 3/4" x 60 1/2"	5446	64" x 54"	64 3/4" x 54 1/2"
1670	18" x 84"	18 3/4" x 84 1/2"	2860	32" x 72"	32 3/4" x 72 1/2"	3856	44" x 66"	44 3/4" x 66 1/2"	5450	64" x 60"	64 3/4" x 60 1/2"
1676	18" x 90"	18 3/4" x 90 1/2"	2866	32" x 78"	32 3/4" x 78 1/2"	3860	44" x 72"	44 3/4" x 72 1/2"	5456	64" x 66"	64 3/4" x 66 1/2"
1680	18" x 96"	18 3/4" x 96 1/2"	2870	32" x 84"	32 3/4" x 84 1/2"	3866	44" x 78"	44 3/4" x 78 1/2"	5460	64" x 72"	64 3/4" x 72 1/2"
1690	18" x 108"	18 3/4" x 108 1/2"	2876	32" x 90"	32 3/4" x 90 1/2"	3870	44" x 84"	44 3/4" x 84 1/2"	5466	64" x 78"	64 3/4" x 78 1/2"
16100	18" x 120"	18 3/4" x 120 1/2"	2880	32" x 96"	32 3/4" x 96 1/2"	3876	44" x 90"	44 3/4" x 90 1/2"	5470	64" x 84"	64 3/4" x 84 1/2"
2010	24" x 12"	24 3/4" x 12 1/2"	2890	32" x 108"	32 3/4" x 108 1/2"	3880	44" x 96"	44 3/4" x 96 1/2"	5476	64" x 90"	64 3/4" x 90 1/2"
2012	24" x 14"	24 3/4" x 14 1/2"	28100	32" x 120"	32 3/4" x 120 1/2"	3890	44" x 108"	44 3/4" x 108 1/2"	5480	64" x 96"	64 3/4" x 96 1/2"
2014	24" x 16"	24 3/4" x 16 1/2"	3010	36" x 12"	36 3/4" x 12 1/2"	38100		44 3/4" x 120 1/2"	5490	64" x 108"	64 3/4" x 108 1/2"
2016	24" x 18"	24 3/4" x 18 1/2"	3012	36" x 14"	36 3/4" x 14 1/2"	4010	48" x 12"	48 3/4" x 12 1/2"	54100	64" x 120"	64 3/4" x 120 1/2"
2020	24" x 24"	24 3/4" x 24 1/2"	3014	36" x 16"	36 3/4" x 16 1/2"	4012	48" x 14"	48 3/4" x 14 1/2"	6010	72" x 12"	72 3/4" x 12 1/2"
2026	24" x 30"	24 3/4" x 30 1/2"	3016	36" x 18"	36 3/4" x 18 1/2"	4014	48" x 16"	48 3/4" x 16 1/2"	6012	72" x 14"	72 3/4' x 14 1/2"
2030	24" x 36"	24 3/4" x 36 1/2"	3020	36" x 24"	36 3/4" x 24 1/2"	4016	48" x 18"	48 3/4" x 18 1/2"	6014	72" x 16"	72 3/4" x 16 1/2"
2036	24" x 42"	24 3/4" x 42 1/2"	3026	36" x 30"	36 3/4" x 30 1/2"	4020	48" x 24"	48 3/4" x 24 1/2"	6016	72" x 18"	72 3/4" x 18 1/2"
2040	24" x 48"	24 3/4" x 48 1/2"	3030	36" x 36"	36 3/4" x 36 1/2"	4026	48" x 30"	48 3/4" x 30 1/2"	6020	72" x 24"	72 3/4" x 24 1/2"
2046	24" x 54"	24 3/4" x 54 1/2"	3036	36" x 42"	36 3/4" x 42 1/2"	4030	48" x 36"	48 3/4" x 36 1/2"	6026	72" x 30"	72 3/4" x 30 1/2"
2050	24" x 60"	24 3/4" x 60 1/2"	3040	36" x 48"	36 3/4" x 48 1/2"	4036	48" x 42"	48 3/4" x 42 1/2"	6030	72" x 36"	72 3/4" x 36 1/2"
2056	24" x 66"	24 3/4" x 66 1/2"	3046	36" x 54"	36 3/4" x 54 1/2"	4040	48" x 48"	48 3/4" x 48 1/2"	6036	72" x 42"	72 3/4" x 42 1/2"
2060	24" x 72"	24 3/4" x 72 1/2"	3050	36" x 60"	36 3/4" x 60 1/2"	4046	48" x 54"	48 3/4" x 54 1/2"	6040	72" x 48"	72 3/4" x 48 1/2"
2066	24" x 78"	24 3/4" x 78 1/2"	3056	36" x 66"	36 3/4" x 66 1/2"	4050	48" x 60"	48 3/4" x 60 1/2"	6046	72" x 54"	72 3/4" x 54 1/2"
2070	24" x 84"	24 3/4" x 84 1/2"	3060	36" x 72"	36 3/4" x 72 1/2"	4056	48" x 66"	48 3/4" x 66 1/2"	6050	72" x 60"	72 3/4" x 60 1/2"
2076	24" x 90"	24 3/4" x 90 1/2"	3066	36" x 78"	36 3/4" x 78 1/2"	4060	48" x 72"	48 3/4" x 72 1/2"	6056	72" x 66"	72 3/4" x 66 1/2"
2080	24" x 96"	24 3/4" x 96 1/2"	3070	36" x 84"	36 3/4" x 84 1/2"	4066	48" x 78"	48 3/4" x 78 1/2"	6060	72" x 72"	72 3/4" x 72 1/2"
2090	24" x 108"	24 3/4" x 108 1/2"	3076	36" x 90"	36 3/4" x 90 1/2"	4070	48" x 84"	48 3/4" x 84 1/2"	6066	72" x 78"	72 3/4" x 78 1/2"
20100	24" x 120"	24 3/4" x 120 1/2"	3080	36" x 96"	36 3/4" x 96 1/2"	4076	48" x 90"	48 3/4" x 90 1/2"	6070	72" x 84"	72 3/4" x 84 1/2"
2410	28" x 12"	28 3/4" x 12 1/2"	3090	36" x 108"	36 3/4" x 108 1/2"	4080	48" x 96"	48 3/4" x 96 1/2"	6076	72" x 90"	72 3/4" x 90 1/2"
2412	28" x 14"	28 3/4" x 14 1/2"	30100	36" x 120"	36 3/4" x 120 1/2"	4090		48 3/4" x 108 1/2"	6080	72" x 96"	72 3/4" x 96 1/2"
2414	28" x 16"	28 3/4" x 16 1/2"	3410	40" x 12"	40 3/4" x 12 1/2"	40100	48" x 120"	48 3/4" x 120 1/2"	6090	72" x 108"	72 3/4" x 108 1/2"
2416	28" x 18"	28 3/4" x 18 1/2"	3412	40" x 14"	40 3/4" x 14 1/2"	4810	56" x 12"	56 3/4" x 12 1/2"	60100	72" x 120"	72 3/4" x 120 1/2"
2420	28" x 24"	28 3/4" x 24 1/2"	3414	40" x 16"	40 3/4" x 16 1/2"	4812	56" x 14"	56 3/4" x 14 1/2"	7012	84" x 14"	84 3/4' x 14 1/2"
2426	28" x 30"	28 3/4" x 30 1/2"	3416	40" x 18"	40 3/4" x 18 1/2"	4814	56" x 16"	56 3/4" x 16 1/2"	7014	84" x 16"	84 3/4" x 16 1/2"
2430	28" x 36"	28 3/4" x 36 1/2"	3420	40" x 24"	40 3/4" x 24 1/2"	4816	56" x 18"	56 3/4" x 18 1/2"	7016	84" x 18"	84 3/4" x 18 1/2"
2436	28" x 42"	28 3/4" x 42 1/2"	3426	40" x 30"	40 3/4" x 30 1/2"	4820	56" x 24"	56 3/4" x 24 1/2"	7020	84" x 24"	84 3/4" x 24 1/2"
2440	28" x 48"	28 3/4" x 48 1/2"	3430		40 3/4" x 36 1/2"	4826	56" x 30"	56 3/4" x 30 1/2"	7026	84" x 30"	84 3/4" x 30 1/2"
2446	28" x 54"	28 3/4" x 54 1/2"	3436	40" x 42"	40 3/4" x 42 1/2"	4830	56" x 36"	56 3/4" x 36 1/2"	7030	84" x 36"	84 3/4" x 36 1/2"
2450	28" x 60"	28 3/4" x 60 1/2"	3440	40" x 48"	40 3/4" x 48 1/2"	4836	56" x 42"	56 3/4" x 42 1/2"	7036	84" x 42"	84 3/4" x 42 1/2"
2456	28" x 66"	28 3/4" x 66 1/2"	3446	40" x 54"	40 3/4" x 54 1/2"	4840	56" x 48"	56 3/4" x 48 1/2"	7040	84" x 48"	84 3/4" x 48 1/2"
2460	28" x 72"	28 3/4" x 72 1/2"	3450	40" x 60"	40 3/4" x 60 1/2"	4846	56" x 54"	56 3/4" x 54 1/2"	7046	84" x 54"	84 3/4" x 54 1/2"
2466	28" x 78"	28 3/4" x 78 1/2"	3456	40" x 66"	40 3/4" x 66 1/2"	4850	56" x 60"	56 3/4" x 60 1/2"	7050	84" x 60"	84 3/4" x 60 1/2"
2470	28" x 84"	28 3/4" x 84 1/2"	3460	40" x 72"	40 3/4" x 72 1/2"	4856	56" x 66"	56 3/4" x 66 1/2"	7056	84" x 66"	84 3/4" x 66 1/2"
2476	28" x 90"	28 3/4" x 90 1/2"	3466	40" x 78"	40 3/4" x 78 1/2"	4860	56" x 72"	56 3/4" x 72 1/2"	7060	84" x 72"	84 3/4" x 72 1/2"
2480	28" x 96"	28 3/4" x 96 1/2"	3470	40" x 84"	40 3/4" x 84 1/2"	4866	56" x 78"	56 3/4" x 78 1/2"	7066	84" x 78"	84 3/4" x 78 1/2"
2490			3476	40" x 90"	40 3/4" x 90 1/2'	4870	56" x 84"	56 3/4" x 84 1/2"	7070	84" x 84"	84 3/4" x 84 1/2"
24100	28" x 120"	28 3/4" x 120 1/2"	3480	40" x 96"	40 3/4" x 96 1/2"	4876	56" x 90"	56 3/4" x 90 1/2"	7076	84" x 90"	84 3/4" x 90 1/2"
2610	30" x 12"	30 3/4" x 12 1/2"	3490		40 3/4" x 108 1/2"	4880	56" x 96"	56 3/4" x 96 1/2"	7080	84" x 96"	84 3/4" x 96 1/2"
2612	30" x 14"	30 3/4" x 14 1/2"	34100	40" x 120"	40 3/4" x 120 1/2"	4890	56" x 108"	56 3/4" x 108 1/2"	7090	84" x 108"	84 3/4" x 108 1/2"
2614	30" x 16"	30 3/4" x 16 1/2"	3610	42" x 12"	42 3/4" x 12 1/2"	48100	56" x 120"	56 3/4" x 120 1/2"	8010	96" x 12"	96 3/4" x 12 1/2"
2616	30" x 18"	30 3/4" x 18 1/2"	3612	42" x 14"	42 3/4" x 14 1/2"	5010	60" x 12"	60 3/4" x 12 1/2"	8012	96" x 14"	96 3/4' x 14 1/2"
2620	30" x 24"	30 3/4" x 24 1/2"	3614	42" x 16"	42 3/4" x 16 1/2"	5012	60" x 14"	60 3/4" x 14 1/2"	8014	96" x 16"	96 3/4" x 16 1/2"
2626	30" x 30"	30 3/4" x 30 1/2"	3616	42" x 18"	42 3/4" x 18 1/2"	5014	60" x 16"	60 3/4" x 16 1/2"	8016	96" x 18"	96 3/4" x 18 1/2"
2630	30" x 36"	30 3/4" x 36 1/2"	3620	42" x 24"	42 3/4" x 24 1/2"	5016	60" x 18"	60 3/4" x 18 1/2"	8020	96" x 24"	96 3/4" x 24 1/2"
2636	30" x 42"	30 3/4" x 42 1/2"	3626	42" x 30"	42 3/4" x 30 1/2"	5020	60" x 24"	60 3/4" x 24 1/2"	8026	96" x 30"	96 3/4" x 30 1/2"
2640	30" x 48"	30 3/4" x 48 1/2"	3630	42" x 36"	42 3/4" x 36 1/2"	5026	60" x 30"	60 3/4" x 30 1/2"	8030	96" x 36"	96 3/4" x 36 1/2"
2646	30" x 54"	30 3/4" x 54 1/2"	3636	42" x 42"	42 3/4" x 42 1/2"	5030	60" x 36"	60 3/4" x 36 1/2"	8036	96" x 42"	96 3/4" x 42 1/2"
2650	30" x 60"	30 3/4" x 60 1/2"	3640	42" x 48"	42 3/4" x 48 1/2"	5036	60" x 42"	60 3/4" x 42 1/2"	8040	96" x 48"	96 3/4" x 48 1/2"
2656	30" x 66"	30 3/4" x 66 1/2"	3646	42" x 54"	42 3/4" x 54 1/2"	5040	60" x 48"	60 3/4" x 48 1/2"	8046	96" x 54"	96 3/4" x 54 1/2"
2660	30" x 72"	30 3/4" x 72 1/2"	3650	42" x 60"	42 3/4" x 60 1/2"	5046	60" x 54"	60 3/4" x 54 1/2"	8050	96" x 60"	96 3/4" x 60 1/2"
2666	30" x 78"	30 3/4" x 78 1/2"	3656	42" x 66"	42 3/4" x 66 1/2"	5050	60" x 60"	60 3/4" x 60 1/2"	8056	96" x 66"	96 3/4" x 66 1/2"
2670	30" x 84"	30 3/4" x 84 1/2"	3660	42" x 72"	42 3/4" x 72 1/2"	5056	60" x 66"	60 3/4" x 66 1/2"	8060	96" x 72"	96 3/4" x 72 1/2"
2676	30" x 90"	30 3/4" x 90 1/2"	3666	42" x 78"	42 3/4" x 78 1/2"	5060	60" x 72"	60 3/4" x 72 1/2"	8066	96" x 78"	96 3/4" x 78 1/2"
2680	30" x 96"	30 3/4" x 96 1/2"	3670	42" x 84"	42 3/4" x 84 1/2"	5066	60" x 78"	60 3/4" x 78 1/2"	8070	96" x 84"	96 3/4" x 84 1/2"
QUAR	VED.		3676	42" x 90"	42 3/4" x 90 1/2'	5070	60" x 84"	60 3/4" x 84 1/2"	8076	96" x 90"	96 3/4" x 90 1/2"
UA.	CER									MANA GUOKO	rwindows com

Geometric Direct Set Picture Windows



Actual

Size

2030 24" x 36" 24 3/4" x 36 1/2" 24" x 54"

Rough

Opening

24 3/4" x 54 1/2"

36" x 48" 36 3/4" x 48 1/2"

36" x 54" 36 3/4" x 54 1/2" 36" x 72" 36 3/4" x 72 1/2"

48" x 72" 48 3/4" x 72 1/2"

Ovals Callout

2046

3040 3046

3060

4060

Octagons			
Callout	Actual Size	Rough Opening	
2020	24" x 24"	24 3/4" x 24 1/2"	
2424	28" x 48"	28 3/4" x 48 1/2"	
2626	30" x 30"	30 3/4" x 30 1/2"	
3030	36" x 36"	36 3/4" x 36 1/2"	
3636	42" x 42"	42 3/4" x 42 1/2"	
4040	48" x 48"	48 3/4" x 48 1/2"	
5050	60" x 60"	60 3/4" x 60 1/2"	
6060	72" x 72"	72 3/4" x 72 1/2"	
7070	84" x 84"	84 3/4" x 84 1/2"	

6060 7070	72" x 72" 84" x 84"	72 3/4" x 72 1/2" 84 3/4" x 84 1/2"
Extend	ed Oct	agons
Callout	Actual Size	Rough Opening
2030	24" x 36"	24 3/4" x 36 1/2"
2040	24" x 48"	0.4.7 /411 40.1 /011
	24 X 48	24 3/4" x 48 1/2"
2650	30" x 60"	30 3/4" x 48 1/2"
2650 3046		
	30" x 60"	30 3/4" x 60 1/2"
3046	30" x 60" 36" x 54"	30 3/4" x 60 1/2" 36 3/4" x 54 1/2"

Half Rounds				
Callout	Actual Size	Rough Opening		
20	24" x 12"	24 3/4" x 12 1/2"		
24	28" x 14"	28 3/4" x 14 1/2"		
26	30" x 15"	30 3/4" x 15 1/2"		
28	32" x 16"	32 3/4" x 16 1/2"		
30	36" x 18"	36 3/4" x 18 1/2"		
34	40" x 20"	40 3/4" x 20 1/2"		
36	42" x 21"	42 3/4" x 21 1/2"		
38	44" x 22"	44 3/4" x 22 1/2"		
40	48" x 24"	48 3/4" x 24 1/2"		
48	56" x 28"	56 3/4" x 28 1/2"		
50	60" x 30"	60 3/4" x 30 1/2"		
54	64" x 32"	64 3/4" x 32 1/2"		
60	72" x 36"	72 3/4" x 36 1/2"		
68	80" x 40"	80 3/4" x 40 1/2"		
74	88" x 44"	88 3/4" x 44 1/2"		
76	90" x 45"	90 3/4" x 45 1/2"		
80	96" x 48"	96 3/4" x 48 1/2"		
90	108" x 54"	108 3/4" x 54 1/2"		

Quarter Rounds				
Callout	Actual Size	Rough Opening		
20	24" x 24"	24 3/4" x 24 1/2"		
24	28" x 48"	28 3/4" x 48 1/2"		
26	30" x 30"	30 3/4" x 30 1/2"		
30	36" x 36"	36 3/4" x 36 1/2"		
36	42" x 42"	42 3/4" x 42 1/2"		
40	48" x 48"	48 3/4" x 48 1/2"		
46	54" x 54"	54 3/4" x 54 1/2"		
50	60" x 60"	60 3/4" x 60 1/2"		
60	72" x 72"	72 3/4" x 72 1/2"		

Circles								
Callout	Actual Size	Rough Opening						
24	28" x 28"	28 3/4" x 28 1/2"						
26	30" x 30"	30 3/4" x 30 1/2"						
30	36" x 36"	36 3/4" x 36 1/2"						
40	48" x 48"	48 3/4" x 48 1/2"						
50	60" x 60"	60 3/4" x 60 1/2"						
60	72" x 72"	72 3/4" x 72 1/2"						

Additional geometric shapes are available.

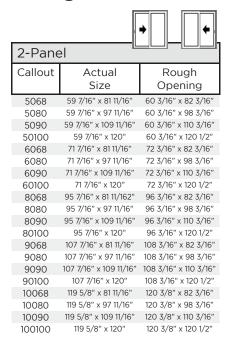
Arch Head Direct Set Picture Windows



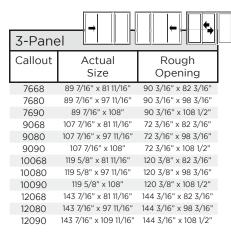
Callout	Short	Actual	Rough	Callout	Short	Actual	Rough	Callout	Short	Actual	Rough
Callout			_	Callout	I .			Callout			
	Height	Size	Opening		Height	Size	Opening		Height	Size	Opening
2010	24" x 12"	24" x 15 3/16"	24 3/4" x 15 11/16"	2836	32" x 42"	32" x 46 5/16"	32 3/4" x 46 13/16"	5056	60" x 66"	60" x 74 1/16"	60 3/4" x 74 9/16"
2016	24" x 18"	24" x 21 3/16"	24 3/4" x 21 11/16"	2840	32" x 48"	32" x 52 5/16"	32 3/4" x 52 13/16"	5060	60" x 72"	60" x 80 1/16"	60 3/4" x 80 9/16"
2020	24" x 24"	24" x 27 3/16"	24 3/4" x 27 11/16"	2846	32" x 54"	32" x 58 5/16"	32 3/4" x 58 13/16"	5070	60" x 84"	60" x 92 1/16"	60 3/4" x 92 9/16"
2030	24" x 36"	24" x 39 3/16"	24 3/4" x 39 11/16"	2850	32" x 60"	32" x 64 5/16"	32 3/4" x 64 13/16"	5080	60" x 96"	60" x 104 1/16"	60 3/4" x 104 9/16"
2036	24" x 42"	24" x 45 3/16"	24 3/4" x 45 11/16"	2856	32" x 66"	32" x 70 5/16"	32 3/4" x 70 13/16"	6010	72" x 12"	72" x 21 5/8"	72 3/4" x 22 1/8"
2040	24" x 48"	24" x 51 3/16"	24 3/4" x 51 11/16"	2860	32" x 72"	32" x 76 5/16"	32 3/4" x 76 13/16"	6016	72" x 18"	72" x 27 5/8"	72 3/4" x 28 1/8"
2046	24" x 54"	24" x 57 3/16"	24 3/4" x 57 11/16"	2870	32" x 84"	32" x 88 5/16"	32 3/4" x 88 13/16"	6020	72" x 24"	72" x 33 5/8"	72 3/4" x 34 1/8"
2050	24" x 60"	24" x 63 3/16"	24 3/4" x 63 11/16"	2880	32" x 96"	32" x 100 5/16"	32 3/4" x 100 13/16"	6030	72" x 36"	72" x 45 5/8"	72 3/4" x 46 1/8"
2056	24" x 66"	24" x 69 3/16"	24 3/4" x 69 11/16"	3010	36" x 12"	36" x 16 13/16"	36 3/4" x 17 5/16"	6036	72" x 42"	72" x 51 5/8"	72 3/4" x 52 1/8"
2060	24" x 72"	24" x 75 3/16"	24 3/4" x 75 11/16"	3016	36" x 18"	36" x 22 13/16"	36 3/4" x 23 5/16"	6040	72" x 48"	72" x 57 5/8"	72 3/4" x 58 1/8"
2070	24" x 84"	24" x 87 3/16"	24 3/4" x 87 11/16"	3020	36" x 24"	36" x 28 13/16"	36 3/4" x 29 5/16"	6046	72" x 54"	72" x 63 5/8"	72 3/4" x 64 1/8"
2080	24" x 96'	24" x 99 3/16"	24 3/4" x 99 11/16"	3030	36" x 36"	36" x 40 13/16"	36 3/4" x 41 5/16"	6050	72" x 60"	72" x 69 5/8"	72 3/4" x 70 1/8"
2410	28" x 12"	28" x 15 3/4"	28 3/4" x 16 1/4"	3036	36" x 42"	36" x 46 13/16"	36 3/4" x 47 5/16"	6056	72" x 66"	72" x 75 5/8"	72 3/4" x 76 1/8"
2416	28" x 18"	28" x 21 3/4"	28 3/4" x 22 1/4"	3040	36" x 48"	36" x 52 13/16"	36 3/4" x 53 5/16"	6060	72" x 72"	72" x 81 5/8"	72 3/4" x 82 1/8"
2420	28" x 24"	28" x 27 3/4"	28 3/4" x 28 1/4"	3046	36" x 54"	36" x 58 13/16"	36 3/4" x 59 5/16"	6070	72" x 84"	72" x 93 5/8"	72 3/4" x 94 1/8"
2430	28" x 36"	28" x 39 3/4"	28 3/4" x 40 1/4"	3050	36" x 60"	36" x 64 13/16"	36 3/4" x 65 5/16"	6080	72" x 96"	72" x 105 5/8"	72 3/4" x 106 1/8"
2436	28" x 42"	28" x 45 3/4"	28 3/4" x 46 1/4"	3056	36" x 66"	36" x 70 13/16"	36 3/4" x 71 5/16"	7010	84" x 12"	84" x 23 1/4"	84 3/4" x 23 3/4"
2440	28" x 48"	28" x 51 3/4"	28 3/4" x 52 1/4"	3060	36" x 72"	36" x 76 13/16"	36 3/4" x 77 5/16"	7016	84" x 18"	84" x 29 1/4"	84 3/4" x 29 3/4"
2446	28" x 54"	28" x 57 3/4"	28 3/4" x 58 1/4"	3070	36" x 84"	36" x 88 13/16"	36 3/4" x 89 5/16"	7020	84" x 24"	84" x 35 1/4"	84 3/4" x 35 3/4"
2450	28" x 60"	28" x 63 3/4"	28 3/4" x 63 1/4"	3080	36" x 96"	36" x 100 13/16"	36 3/4" x 101 5/16"	7030	84" x 36"	84" x 47 1/4"	84 3/4" x 47 3/4"
2456	28" x 66"	28" x 69 3/4"	28 3/4" x 70 1/4"	4010	48" x 12"	48" x 18 7/16"	48 3/4" x 18 15/16"	7036	84" x 42"	84" x 53 1/4"	84 3/4" x 53 3/4"
2460	28" x 72"	28" x 75 3/4"	28 3/4" x 76 1/4"	4016	48" x 18"	48" x 24 7/16"	48 3/4" x 24 15/16"	7040	84" x 48"	84" x 59 1/4"	84 3/4" x 59 3/4"
2470	28" x 84"	28" x 87 3/4"	28 3/4" x 76 1/4"	4020	48" x 24"	48" x 30 7/16"	48 3/4" x 30 15/16"	7046	84" x 54"	84" x 65 1/4"	84 3/4" x 65 3/4"
2480	28" x 96"	28" x 99 3/4"	28 3/4" x 99 3/4"	4030	48" x 36"	48" x 42 7/16"	48 3/4" x 42 15/16"	7050	84" x 60"	84" x 71 1/4"	84 3/4" x 71 3/4"
2610	30" x 12"	30" x 16"	30 3/4" x 16 1/2"	4036	48" x 42"	48" x 48 7/16"	48 3/4" x 48 15/16"	7060	84" x 72"	84" x 83 1/4"	84 3/4 x 83 3/4'
2616	30" x 18"	30" x 22"	30 3/4" x 22 1/2"	4040	48" x 48"	48" x 54 7/16"	48 3/4" x 54 15/16"	7070	84" x 84"	84" x 95 1/4"	84 3/4" x 95 3/4"
2620	30" x 24"	30" x 28"	30 3/4" x 28 1/2"	4046	48" x 54"	48" x 60 7/16"	48 3/4" x 60 15/16"	8010	96" x 12"	96" x 24 7/8"	96 3/4" x 25 3/8"
2630	30" x 36"	30" x 40"	30 3/4" x 40 1/2"	4050	48" x 60"	48" x 66 7/16"	48 3/4" x 66 15/16"	8016	96" x 18"	96" x 30 7/8"	96 3/4" x 31 3/8"
2636	30" x 42"	30" x 46"	30 3/4" x 46 1/2"	4056	48" x 66"	48" x 72 7/16"	48 3/4" x 72 15/16"	8020	96" x 24"	96" x 36 7/8"	96 3/4" x 31 3/8"
2640	30" x 48"	30" x 52"	30 3/4" x 52 1/2"	4060	48" x 72"	48" x 78 7/16"	48 3/4" x 78 15/16"	8030	96" x 36"	96" x 48 7/8"	96 3/4" x 49 3/8"
2646	30" x 54"	30" x 58"	30 3/4" x 58 1/2"	4070	48" x 84"	48" x 90 7/16"	48 3/4" x 90 15/16"	8036	96" x 42"	96" x 54 7/8"	96 3/4" x 55 3/8"
2650	30" x 60"	30" x 64"	30 3/4" x 64 1/2"	4080	48" x 96"	48" x 102 7/16"	48 3/4" x 102 15/16"	8040	96" x 48"	96" x 60 7/8"	96 3/4" x 61 3/8"
2656	30" x 66"	30" x 70"	30 3/4" x 70 1/2"	5010	60" x 12"	60" x 20 1/16"	60 3/4" x 20 9/16"	8050	96" x 60"	96" x 72 7/8"	96 3/4" x 73 3/8"
2660	30" x 72"	30" x 76"	30 3/4" x 76 1/2"	5016	60" x 18"	60" x 26 1/16"	60 3/4" x 26 9/16"	9010	108" x 12"	108" x 26 1/2"	108 3/4" x 27"
2670	30" x 84"	30" x 88"	30 3/4" x 88 1/2"	5020	60" x 24"	60" x 32 1/16"	60 3/4" x 32 9/16"	9016	108" x 18"	108" x 32 1/2"	108 3/4" x 33"
2680	30" x 96"	30" x 100"	30 3/4" x 100 1/2"	5030	60" x 36"	60" x 44 1/16"	60 3/4" x 44 9/16"	9020	108" x 24"	108" x 38 1/2"	108 3/4" x 39"
2810	32" x 12"	32" x 16 5/16"	32 3/4" x 16 13/16"	5036	60" x 42"	60" x 50 1/16"	60 3/4" x 50 9/16"	9030	108" x 36"	108" x 50 1/2"	108 3/4" x 51"
2816	32" x 18"	32" x 22 5/16"	32 3/4" x 22 13/16"	5040	60" x 48"	60" x 56 1/16"	60 3/4" x 56 9/16"	9036	108" x 42"	108" x 56 1/2"	108 3/4" x 57"
2820	32" x 24"	32" x 28 5/16"	32 3/4" x 28 13/16"	5046	60" x 54"	60" x 62 1/16"	60 3/4" x 62 9/16"	9040	108" x 48"	108" x 62 1/2"	108 3/4" x 63"
2830	32" x 36"	32" x 40 5/16"	32 3/4" x 40 13/16"	5050	60" x 60"	60" x 68 1/16"	60 3/4" x 68 9/16"				

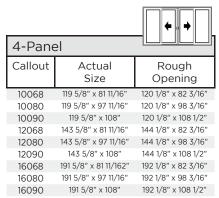


Sliding Patio Doors



Sidelite for 2-Panel Sliding Door								
Callout	Actual Size	Rough Opening						
2668	30 1/2" x 81 11/16"	31 1/4" x 82 3/16"						
2680	30 1/2" x 97 11/16"	31 1/4" x 98 3/16"						
2690	30 1/2" x 109 11/16"	31 1/4" x 110 3/16"						
26100	30 1/2" x 120"	31 1/4" x 120 1/2"						
3068	36 1/2" x 81 11/16"	37 1/4" x 82 3/16"						
3080	36 1/2" x 97 11/16"	37 1/4" x 98 3/16"						
3090	36 1/2" x 109 11/16"	37 1/4" x 110 3/16"						
30100	36 1/2" x 120"	37 1/4" x 120 1/2"						
4068	48 1/2" x 81 11/16"	49 1/4" x 82 3/16"						
4080	48 1/2" x 97 11/16"	49 1/4" x 98 3/16"						
4090	48 1/2" x 109 11/16"	49 1/4" x 110 3/16"						
40100	48 1/2" x 120"	49 1/4" x 120 1/2"						





Sidelite for 3- & 4-Panel Sliding Door							
Callout	Actual Size	Rough Opening					
2668	30 1/2" x 81 11/16"	31 1/4" x 82 3/16"					
2680	30 1/2" x 97 11/16"	31 1/4" x 98 3/16"					
2690	30 1/2" x 108"	31 1/4" x 108 1/2"					
3068	36 1/2" x 81 11/16"	37 1/4" x 82 3/16"					
3080	36 1/2" x 97 11/16"	37 1/4" x 98 3/16"					
3090	36 1/2" x 108"	37 1/4" x 108 1/2"					
4068	48 1/2" x 81 11/16"	49 1/4" x 82 3/16"					
4080	48 1/2" x 97 11/16"	49 1/4" x 98 3/16"					
4090	48 1/2" x 108"	49 1/4" x 108 1/2"					

Transo	m	
Callout	Actual	Rough
Canout	Size	Opening
5010	59 7/16" x 12"	60 3/16" x 12 1/2"
5012	59 7/16" x 14"	60 3/16" x 14 1/2"
5014	59 7/16" x 16"	60 3/16" x 16 1/2"
5016	59 7/16" x 18"	60 3/16" x 18 1/2"
5020	59 7/16" x 24"	60 3/16" x 24 1/2"
5026	59 7/16" x 30"	60 3/16" x 30 1/2"
5028	59 7/16" x 32"	60 3/16" x 32 1/2"
5030	59 7/16" x 36"	60 3/16" x 36 1/2"
5034	59 7/16" x 40"	60 3/16" x 40 1/2"
5036	59 7/16" x 42"	60 3/16" x 42 1/2"
5040	59 7/16" x 48"	60 3/16" x 48 1/2"
6010 6012	71 7/16" x 12" 71 7/16" x 14"	72 3/16" x 12 1/2" 72 3/16" x 14 1/2"
6012	71 7/16" x 14"	72 3/16" x 14 1/2" 72 3/16" x 16 1/2"
6016	71 7/16" x 18"	72 3/16" x 18 1/2"
6020	71 7/16" x 24"	72 3/16" x 24 1/2"
6026	71 7/16" × 30"	72 3/16" x 30 1/2"
6028	71 7/16" x 32"	72 3/16" x 32 1/2"
6030	71 7/16" x 36"	72 3/16" x 36 1/2"
6034	71 7/16" x 40"	72 3/16" x 40 1/2"
6036	71 7/16" x 42"	72 3/16" x 42 1/2"
6040	71 7/16" x 48"	72 3/16" x 48 1/2"
7610	89 7/16" x 12"	90 3/16" x 12 1/2"
7612	89 7/16" x 14"	90 3/16" x 14 1/2"
7614	89 7/16" x 16"	90 3/16" x 16 1/2"
7616	89 7/16" x 18"	90 3/16" x 18 1/2"
7620	89 7/16" x 24" 89 7/16" x 30"	90 3/16" x 24 1/2" 90 3/16" x 30 1/2"
7626 7628	89 7/16" x 32"	90 3/16" x 30 1/2"
7630	89 7/16" x 36"	90 3/16" x 36 1/2"
7634	89 7/16" x 40"	90 3/16" x 40 1/2"
7636	89 7/16" x 42"	90 3/16" x 42 1/2"
7640	89 7/16" x 48"	90 3/16" x 48 1/2"
8010	95 7/16" x 12"	96 3/16" x 12 1/2"
8012	95 7/16" x 14"	96 3/16" x 14 1/2"
8014	95 7/16" x 16"	96 3/16" x 16 1/2"
8016	95 7/16" x 18"	96 3/16" x 18 1/2"
8020	95 7/16" x 24"	96 3/16" x 24 1/2"
8026	95 7/16" x 30"	96 3/16" x 30 1/2"
8028	95 7/16" x 32"	96 3/16" x 32 1/2"
8030	95 7/16" x 36"	96 3/16" x 36 1/2"
8034 8036	95 7/16" x 40" 95 7/16" x 42"	96 3/16" x 40 1/2" 96 3/16" x 42 1/2"
8040	95 7/16" x 48"	96 3/16" x 48 1/2"
9010	107 7/16" x 12"	108 3/16" x 12 1/2"
9012	107 7/16" x 14"	108 3/16" x 14 1/2"
9014	107 7/16" x 16"	108 3/16" x 16 1/2"
9016	107 7/16" x 18"	108 3/16" x 18 1/2"
9020	107 7/16" x 24"	108 3/16" x 24 1/2"
9026	107 7/16" x 30"	108 3/16" x 30 1/2"
9028	107 7/16" x 32"	108 3/16" x 32 1/2"
9030	107 7/16" x 36"	108 3/16" x 36 1/2"
9034	107 7/16" x 40"	108 3/16" x 40 1/2"
9036 9040	107 7/16" x 42" 107 7/16" x 48"	108 3/16" x 42 1/2" 108 3/16" x 48 1/2"
10010	119 5/8" x 12"	120 3/8" x 12 1/2"
10010	119 5/8" x 14"	120 3/8" x 14 1/2"
10012	119 5/8" x 16"	120 3/8" x 16 1/2"
10014	119 5/8" x 18"	120 3/8" x 18 1/2"
10020	119 5/8" x 24"	120 3/8" x 24 1/2"
10026	119 5/8" x 30"	120 3/8" x 30 1/2"
10028	119 5/8" x 32"	120 3/8" x 32 1/2"
10030	119 5/8" x 36"	120 3/8" x 36 1/2"
10034	119 5/8" x 40"	120 3/8" x 40 1/2"
10036	119 5/8" x 42"	120 3/8" x 42 1/2"
10040	119 5/8" x 48"	120 3/8" x 48 1/2"



Inswing & Outswing Patio Doors

2-Panel									
Callout	Actual Size	Rough Opening							
5068	59 1/8" x 79 1/2"	59 7/8" x 80"							
50610	59 1/8" x 82 3/8"	59 7/8" x 82 7/8"							
5080	59 1/8" x 95 3/8"	59 7/8" x 95 7/8"							
5090	59 1/8" x 107 3/8"	59 7/8" x 107 7/8"							
5468	63 1/8" x 79 1/2"	63 7/8" x 80"							
54610	63 1/8" x 82 3/8"	63 7/8" x 82 7/8"							
5480	63 1/8" x 95 3/8"	63 7/8" x 95 7/8"							
5490	63 1/8" x 107 3/8"	63 7/8" x 107 7/8"							
6068	71 1/8" x 79 1/2"	71 7/8" x 80"							
60610	71 1/8" x 82 3/8"	71 7/8" x 82 7/8"							
6080	71 1/8" x 95 3/8"	71 7/8" x 95 7/8"							
6090	71 1/8" x 107 3/8"	71 7/8" x 107 7/8"							
6468	76 3/8" x 79 1/2"	77 1/8" x 80"							
64610	76 3/8" x 82 3/8"	77 1/8" x 82 7/8"							
6480	76 3/8" x 95 3/8"	77 1/8" x 95 7/8"							
6490	76 3/8" x 107 3/8"	77 1/8" x 107 3/8"							

Additional sizes with ADA sills may be available on some inswing and outswing doors

1-Panel							
Callout	Actual Size	Rough Opening					
2668	30 1/4" x 79 1/2"	31" x 80"					
26610	30 1/4" x 82 3/8"	31" x 82 7/8"					
2680	30 1/4" x 95 3/8"	31" x 95 7/8"					
2690*	30 1/4" x 107 3/8"	31" x 107 7/8"					
2868	32 1/4" x 79 1/2"	33" x 80"					
28610	32 1/4" x 82 3/8"	33" x 82 7/8"					
2880	32 1/4" x 95 3/8"	33" x 95 7/8"					
2890*	32 1/4" x 107 3/8"	33" x 107 7/8"					
3068	36 1/4" x 79 1/2"	37" x 80"					
30610	36 1/4" x 82 3/8"	37" x 82 7/8"					
3080	36 1/4" x 95 3/8"	37" x 95 7/8"					
3090*	36 1/4" x 107 3/8"	37" x 107 7/8"					
3268	38 7/8" x 79 1/2"	39 5/8" x 80"					
32610	38 7/8" x 82 3/8"	39 5/8" x 82 7/8"					
3280	38 7/8" x 95 3/8"	39 5/8" x 95 7/8"					
3290*	38 7/8" x 107 3/8"	39 5/8" x 107 7/8"					

^{* =} Contains 32" Clear Opening

Sidelite									
Callout	Actual Size	Rough Opening							
2668	30 1/4" x 79 1/2"	31" x 80"							
26610	30 1/4" x 82 3/8"	31" x 82 7/8"							
2680	30 1/4" x 95 3/8"	31" x 95 7/8"							
2690	30 1/4" x 107 3/8"	31" x 107 7/8"							
2868	32 1/4" x 79 1/2"	33" x 80"							
28610	32 1/4" x 82 3/8"	33" x 82 7/8"							
2880	32 1/4" x 95 3/8"	33" x 95 7/8"							
2890	32 1/4" x 107 3/8"	33" x 107 7/8"							
3068	36 1/4" x 79 1/2"	37" x 80"							
30610	36 1/4" x 82 3/8"	37" x 82 7/8"							
3080	36 1/4" x 95 3/8"	37" x 95 7/8"							
3090	36 1/4" x 107 3/8"	37" x 107 7/8"							
3268	38 7/8" x 79 1/2"	39 5/8" x 80"							
32610	38 7/8" x 82 3/8"	39 5/8" x 82 7/8"							
3280	38 7/8" x 95 3/8"	39 5/8" x 95 7/8"							
3290	38 7/8" x 107 3/8"	39 5/8" x 107 7/8"							

Transo	m										
Callout	Actual Size	Rough Opening	Callout	Actual Size	Rough Opening	Callout	Actual Size	Rough Opening	Callout	Actual Size	Rough Opening
2612	30 1/4" x 14"	31" x 14 1/2"	3012	36 1/4" x 14"	37" x 14 1/2"	5012	59 1/8" x 14"	59 7/8" x 14 1/2"	6012	71 1/8" x 14"	71 7/8" x 14 1/2"
2614	30 1/4" x 16"	31" x 16 1/2"	3014	36 1/4" x 16"	37" x 16 1/2"	5014	59 1/8" x 16"	59 7/8" x 16 1/2"	6014	71 1/8" x 16"	71 7/8" x 16 1/2"
2616	30 1/4" x 18"	31" x 18 1/2"	3016	36 1/4" x 18"	37" x 18 1/2"	5016	59 1/8" x 18"	59 7/8" x 18 1/2"	6016	71 1/8" x 18"	71 7/8" x 18 1/2"
2620	30 1/4" x 24"	31" x 24 1/2"	3020	36 1/4" x 24"	37" x 24 1/2"	5020	59 1/8" x 24"	59 7/8" x 24 1/2"	6020	71 1/8" x 24"	71 7/8" x 24 1/2"
2626	30 1/4" x 30"	31" x 30 1/2"	3026	36 1/4" x 30"	37" x 30 1/2"	5026	59 1/8" x 30"	59 7/8" x 30 1/2"	6026	71 1/8" x 30"	71 7/8" x 30 1/2"
2812	32 1/4" x 14"	33" x 14 1/2"	3212	38 7/8" x 14"	39 5/8" x 14 1/2"	5412	63 1/8" x 14"	63 7/8" x 14 1/2"	6412	77 1/8" x 14"	77 7/8" x 14 1/2"
2814	32 1/4" x 16"	33" x 16 1/2"	3214	38 7/8" x 16"	39 5/8" x 16 1/2"	5414	63 1/8" x 16"	63 7/8" x 16 1/2"	6414	77 1/8" x 16"	77 7/8" x 16 1/2"
2816	32 1/4" x 18"	33" x 18 1/2"	3216	38 7/8" x 18"	39 5/8" x 18 1/2"	5416	63 1/8" x 18"	63 7/8" x 18 1/2"	6416	77 1/8" x 18"	77 7/8" x 18 1/2"
2820	32 1/4" x 24"	33" x 24 1/2"	3220	38 7/8" x 24"	39 5/8" x 24 1/2"	5420	63 1/8" x 24"	63 7/8" x 24 1/2"	6420	77 1/8" x 24"	77 7/8" x 24 1/2"
2826	32 1/4" x 30"	33" x 30 1/2"	3226	38 7/8" x 30"	39 5/8" x 30 1/2"	5426	63 1/8" x 30"	63 7/8" x 30 1/2"	6426	77 1/8" x 30"	77 7/8" x 30 1/2"

Size Limitations	Additional parameters concerning sizes, glass limitations, united inch limitations, radius minimums and hardware restrictions may apply. Quaker Window Products reserves the right to change above information without notice.							
Product	Minimum Width	Minimum Height	Maximum Width	Maximum Height	Maximum United Inch			
Casement (Crank Out)	24"	18"	48" (36"/4-bar hdwe.)	96"	132"			
Casement (Push Out)	14"	18"	36"	72"	*			
Awning (Crank Out)	22 5/8"	22"	72"	84"	120"			
Awning (Push Out)	14"	14"	72"	48"	*			
Picture Window (Direct Set)	12"	10"	120"	120"	205"			
Arch Head Picture Window (Direct Set)	10"	12" (short height)	120"	120" (overall height)	192"			
Circle (Direct Set)	30"	30"	72"	72"	*			
Oval (Direct Set)	24"	24"	72"	72"	*			
Elliptical (Direct Set)	36"	18"	120"	59"	*			
Octagon (Direct Set)	18"	18"	96"	96"	*			
Extended Octagon (Direct Set)	18"	18"	84"	84"	*			
Quarter Round (Direct Set)	9"	9"	74"	74"	*			
Half Round (Direct Set)	18"	9"	108"	54"	*			
Hinged Patio Door (1-Panel)	24"	72"	48"	120"	*			
Hinged Patio Door (2-Panel)	48"	72"	84"	120"	*			
Sliding Patio Door (2-Panel)	48"	48"	120"	120"	*			
Sliding Patio Door (3-Panel)	76 3/8"	48"	180"	120"	*			
Sliding Patio Door (4-Panel)	100 1/16"	48"	240"	120"	*			
Patio Door Sidelite	22"	24"	96"	120"	*			
Patio Door Transom (Direct Set)	16"	12"	120"	98"	*			





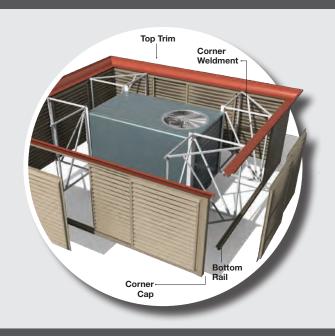




Innovative Rooftop Screens

Attractive, code-compliant and long lasting, Envisor equipment screens offer affordable, elegant, customized screening solutions that blend into the overall design, all with no rooftop penetration. Our patented roof screen system provides practical solutions for municipal screening requirements of HVAC units, chillers, air handlers, power exhausts, roof stacks and communication equipment. You name it, we can screen it!

- Zero Rooftop Penetration
- ABS or Metal
- Sliding Panels for Easy Service Access





THE LEADING ROOF SCREEN CHOICE OF ARCHITECTS, BUILDING OWNERS AND CONTRACTORS FOR MORE THAN 20 YEARS.







DESIGN OPTIONS

Envisor screens are the perfect alternative to parapet walls and they satisfy even the strictest screening code requirements. Both styles feature our patented attachment method, which secures our screens directly to the equipment with no rooftop penetration. Post mounted option is also available. Screen heights are available to shield virtually anything you desire.



PANEL STYLES

Panels are available in ten standard styles, allowing you to match or coordinate with the building design. The panels are constructed of thermoformed, high-impact ABS with a co-extruded UV protective layer on both sides or choose one of our metal series options in a variety of thicknesses and finishes. The panels are held firmly in place using a rust-free, double tracked aluminum rail system. This enables the panels to slide side-to-side for easy access to the unit during servicing and maintenance.

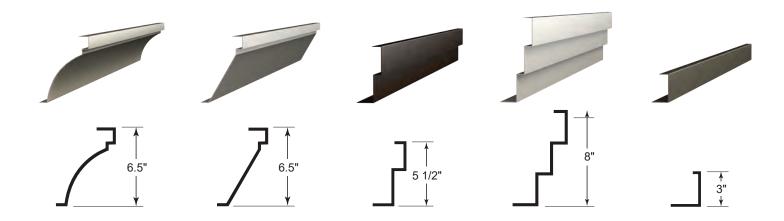
PAN



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TOP TRIM STYLES

OPTIONAL — Decorative top trim options offer the flexibility to further customize the elegant appearance of the screens by picking up building design elements and incorporating those details into the screen. Although optional, they offer one more way to make screens part of the design, not part of the problem. *Prices vary by style*.



COLORS

Our designer colors complement most architectural applications, but don't let standard colors limit your creativity. We have the ability to match any cross-referenced color specifications. Send us samples to match. We've even matched a color to a rock! Colors are approximations. Please call for actual samples.

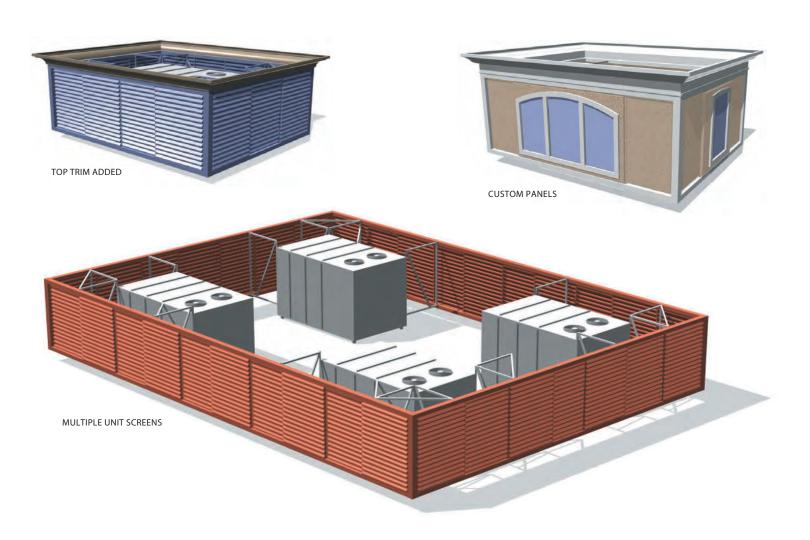


Need a custom color? Provide a Sherwin Williams or PMS code and we can color match.



CUSTOM SOLUTIONS

Envisor equipment screens can be manufactured in a limitless combination of shapes and configurations to help reduce cost, add to the aesthetics of a building or both. Let us design one for you! Just tell us the equipment manufacturer, the model numbers and any special requirements you might have. *Additional costs may apply.



Call **(877) 727-3367** today or visit our website at **cityscapesinc.com**.











THE COMPLETE SOLUTION

We get it. You're busy. We want you to be able to focus on the parts of your project that matter most to you. That's why we provide each customer with a project manager — a single point of contact. Tell us what you need and we'll coordinate everything from design and engineering to manufacturing and installation so you can spend your time on more important things.



architectural innovations

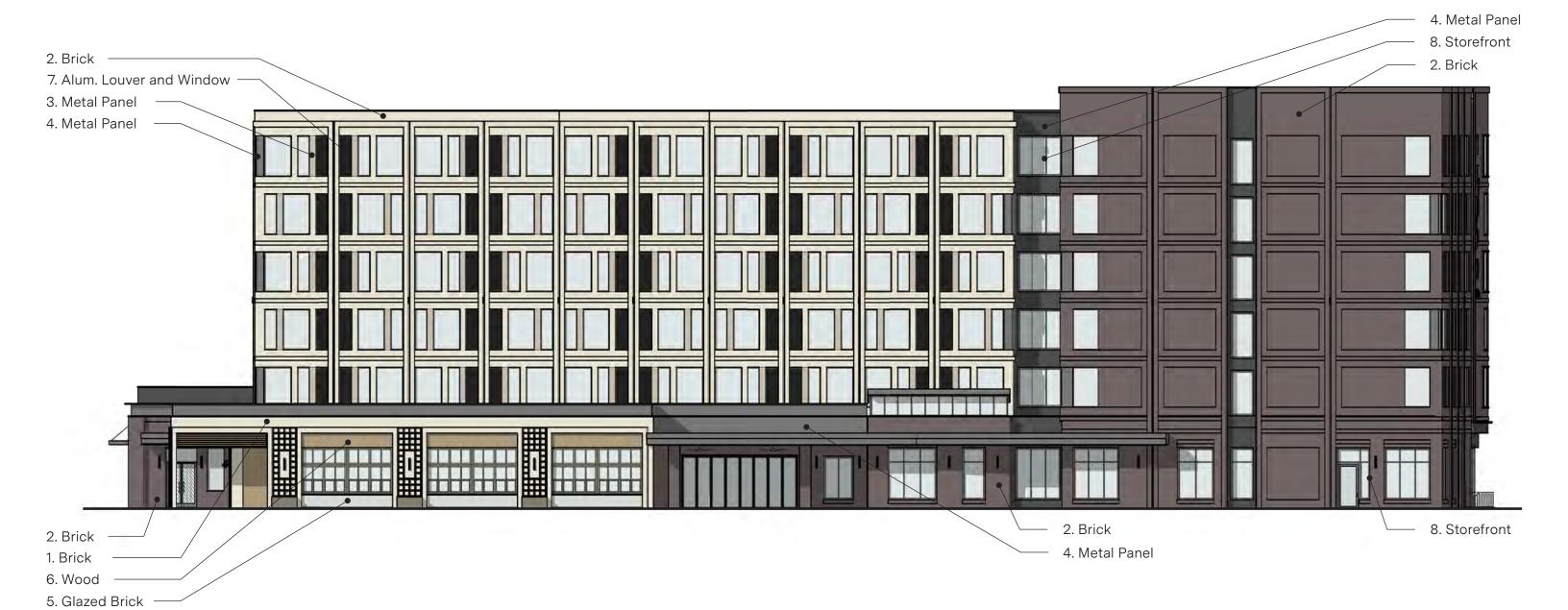
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TEMPO BY HILTON

Dublin, Ohio

Preliminary Development Plan -Materials List

August 07, 2025









- Dark Brown to Black Range



3. Metal Panel -Sandstone



4. Metal PanelMidnight Bronze



5. Glazed BrickOlive Green



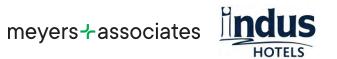
6. Wood-Look Metal- Walnut



7. Alum. Louver & Windows - Black



8. Storefront -Black







8. Storefront

3. Metal Panel



1. Brick

- Buff Range



2. Brick

- Dark Brown to Black Range



3. Metal Panel

-Sandstone



4. Metal Panel

- Midnight Bronze



5. Glazed Brick

- Olive Green



6. Wood-Look Metal

- Walnut



7. Alum. Louver & Windows

- Black



-Black







1. Brick - Buff Range



- Dark Brown to Black Range



-Sandstone



4. Metal Panel- Midnight Bronze



5. Glazed BrickOlive Green



6. Wood-Look Metal - Walnut



7. Alum. Louver & Windows - Black



8. Storefront
-Black



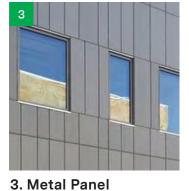




Brick
 Buff Range



- Dark Brown to Black Range



-Sandstone



4. Metal Panel- Midnight Bronze



5. Glazed BrickOlive Green



6. Wood-Look Metal - Walnut



7. Alum. Louver & Windows - Black

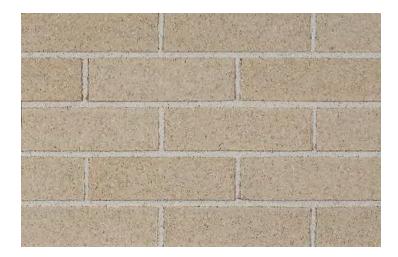


-Black



Sea Gray Velour





Туре	Face
Color	Gray
Texture	Velour
Plant	Plant 6
Manufacturing Method	Extruded

Sizes

Sizes	Width	Height	Length	Unit/Sq Ft
Modular	3 5/8" 92mm	2 1/4" 57mm	7 5/8" 194mm	6.86
Roman	3 5/8" 92mm	1 5/8" 41mm	11 5/8" 295mm	6.00
Norman	3 5/8" 92mm	2 1/4" 57mm	11 5/8" 295mm	4.57
Economo Modular	3 5/8" 92mm	3 5/8" 92mm	7 5/8" 194mm	4.50
Utility	3 5/8" 92mm	3 5/8" 92mm	11 5/8" 295mm	3.00
Monarch	3 5/8" 92mm	3 5/8" 92mm	15 5/8" 397mm	2.25
Modular 5/8 Flat Back	5/8" 16mm	2 1/4" 57mm	7 5/8" 194mm	6.86
Economo Modular 5/8 Flat Back	5/8" 16mm	3 5/8" 92mm	7 5/8" 194mm	4.50
Norman 5/8 Flat Back	5/8" 16mm	2 1/4" 57mm	11 5/8" 295mm	4.57
Utility 5/8 Flat Back	5/8" 16mm	3 5/8" 92mm	11 5/8" 295mm	3.00
Modular 3/4 Back Surface Texture	3/4" 19mm	2 1/4" 57mm	7 5/8" 194mm	6.86
Economo Modular 3/4 Back Surface Texture	3/4" 19mm	3 5/8" 92mm	7 5/8" 194mm	4.50
Norman 3/4 Back Surface Texture	3/4" 19mm	2 1/4" 57mm	11 5/8" 295mm	4.57
Utility 3/4 Back Surface Texture	3/4" 19mm	3 5/8" 92mm	11 5/8" 295mm	3.00

Sea Gray Velour



Specs

Standards / Value	FACE BRICK C216	FBX
	THIN BRICK C1088	TBX
	THIN BRICK PCI	Length and Height
Size	Thin	
Avg. 24 Hr. Cold Water Absor.	4.50	
Avg. 5 Hr. Boil Absor.	5.90	
Avg. Saturation Coeff.	0.77	
Test Report	Download	
Size		
Avg. Comp. (PSI)	14,810	
Avg. 24 Hr. Cold Water Absor.	4.60	
Avg. 5 Hr. Boil Absor.	5.90	
Avg. Saturation Coeff.	0.77	
Avg. Initial Rate Absor.	9.70	
Test Report	L Download	
Cleaning Recommendation	Belden Brick recommends u our brick.	sing Vanatrol® to clean this product. Alternatively, EaCo Chem NMD 80® can be used to clean any of

Black Diamond Velour





Туре	Face
Color	Black
Texture	Velour
Plant	Plant 2
Manufacturing Method	Extruded
Coating	Ceramic Based Colorant
Series	Spectrum

Sizes

Sizes	Width	Height	Length	Unit/Sq Ft
Modular	3 5/8" 92mm	2 1/4" 57mm	7 5/8" 194mm	6.86
Norman	3 5/8" 92mm	2 1/4" 57mm	11 5/8" 295mm	4.57
Economo Modular	3 5/8" 92mm	3 5/8" 92mm	7 5/8" 194mm	4.50
Utility	3 5/8" 92mm	3 5/8" 92mm	11 5/8" 295mm	3.00
Monarch	3 5/8" 92mm	3 5/8" 92mm	15 5/8" 397mm	2.25
6" Thru-Wall Monarch	5 5/8" 143mm	3 5/8" 92mm	15 5/8" 397mm	2.25
8" Thru-Wall Monarch	7 5/8" 194mm	3 5/8" 92mm	15 5/8" 397mm	2.25
Double Utility	3 5/8" 92mm	7 5/8" 194mm	11 5/8" 295mm	1.50
Double Monarch	3 5/8" 92mm	7 5/8" 194mm	15 5/8" 397mm	1.13
Modular 5/8 Flat Back	5/8" 16mm	2 1/4" 57mm	7 5/8" 194mm	6.86
Economo Modular 5/8 Flat Back	5/8" 16mm	3 5/8" 92mm	7 5/8" 194mm	4.50
Norman 5/8 Flat Back	5/8" 16mm	2 1/4" 57mm	11 5/8" 295mm	4.57
Utility 5/8 Flat Back	5/8" 16mm	3 5/8" 92mm	11 5/8" 295mm	3.00

Black Diamond Velour



Specs

Standards / Value	FACE BRICK C216 FBX THIN BRICK C1088 TBX
Size	Thin
Avg. 24 Hr. Cold Water Absor.	1.40
Avg. 5 Hr. Boil Absor.	1.70
Avg. Saturation Coeff.	0.85
Test Report	L Download
Size	
Avg. Comp. (PSI)	17,930
Avg. 24 Hr. Cold Water Absor.	1.40
Avg. 5 Hr. Boil Absor.	1.70
Avg. Saturation Coeff.	0.85
Avg. Initial Rate Absor.	1.90
Test Report	L Download
Cleaning Recommendation	Belden Brick recommends using Safety Klean® to clean this product. Alternatively, EaCo Chem NMD 80® can be used to clean any of our brick.



PRODUCT DATA SHEET



Overview:

ALUCOBOND® EasyFix™ is a cost effective open-jointed, back-ventilated architectural cladding system incorporating processed ALUCOBOND Plus ACM panels and a combination of proprietary EasyFix clip or rail extrusions used for attaching the processed and field-folded panels to the substrate.

Applications:

Interior: Above/below grade wall covering , ceilings, column & beam wraps

Exterior: Above grade wall rainscreen cladding, ventilated and solid soffits, facia, column and beam wraps, copings over wood, metal, concrete construction.

Advantages:

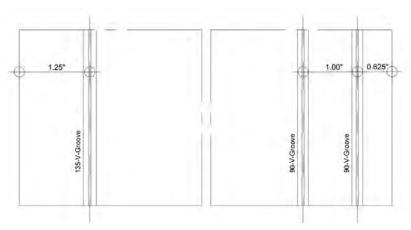
- Field adjustable*
- Install from any direction
- Attach directly to wood sheathing
- Panels ship flat to job site
- Wide color selection
- Joint 3/8"
- Sytem depth 1-1/4"
- Cost effective installations
- ALUCOBOND Plus warranty



Test Standards & Approvals

ASTM E-330	AAMA 2605 (Panels)		
ASTM E-331	AAMA 2604 (Panels)		
ASTM E-84	ASTM D1781 (Panels)		
NFPA 285 (See test report for specific assembly requirements)			

ALUCOBOND Plus EasyFix Panel



A standard EasyFix panel includes 3 route lines applied to back of panel.

Panels may have modified processing to enable additional field adjustment and customization. Consult the EasyFix Field Installation Guide for additional information



System Components:

ALUCOBOND° EasyFix™ Profiles					
EasyFix 135° Starter EasyFix 90°/135° Joint EasyFix 90° End					90° End
		72 23		V.	
Clip Material # 7007013-US	Rail Material # 7007022-US	Clip Material # 7007010-US	Rail Material # 7007020-US	Clip Material # 7007011-US	Rail Material # 7007021-US

Component	Material	Color/Finish	Width	Length	Weight
ALUCOBOND Plus EasyFix™ Processed Panel	4mm Aluminum Composite Panel .020 Finished Aluminum facer, fire-retardant thermoplastic core, .020 aluminum backer	89 Stock Finishes PVDF fluoropolymer, FEVE Fluoropolymer, Siliconized polyester, Clear anodized, Color anodized	Customized Widths between 6"- 36"	Customized Lengths From 7" To 16'	1.56 lbs / Sq Ft
EasyFix 135° Starter	5°	<u> </u>	Clip 3-1/2"	3"	0.1625 lbs / Ea.
			Rail 3-1/2"	8′	7.8 lbs /Ea.
EasyFix	Aluminum 6063-T6	AAMA 611 Anodized	Clip 2-7/16"	3"	0.241 lbs /Ea.
90°/135° Joint	·		Rail 2-7/16"	8′	11.577 lbs / Ea.
FacuFix 00° End			Clip 1-5/8"	3"	0.1356 lbs / Ea.
EasyFix 90° End			Rail 1-5/8"	8′	6.509 lbs /Ea.

Component	Spec	Substrate
	#10 x 1-1/2" HWS Type A SMS 18-8 SS (Black)	Used to attach clip or rail to wood sheathing substrate
Wall Fastening Screws	#12 x 1-1/2" HWH Type 3 Bi-Metal XL CTD 18-8 SS (Black)	Use to attach clip or rail to steel studs or z-girts
	#12 x 1-1/2" HWS Masonry Bi-Metal CTD 18-8 SS (Black)	Use to attach clip or rail to masonry substates
Pinning Screw	#8x1/2 Phil Pan Type "A" SMS 18-8 SS (Black Oxide)	(For Vertical Installation Only)
Pinning Washer	M5x15M Flat Fender washer 18-8 SS (Black Oxide)	Screwed into clip/rail screw boss to hold washer and support/pin panel to clip.
Facade Tape		Optional (Supplied by Others)



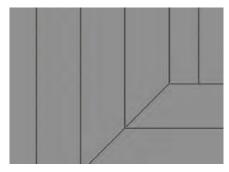


Panel Layout:

ALUCOBOND PLUS panels can be installed with varying layouts: horizontal, vertical or a combination.







Horizontal Layout

Vertical Layout

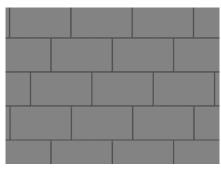
Combination of Horizontal, Vertical, and Diagonal Layouts

Reveal Options:

ALUCOBOND PLUS panels can be installed with varying reveal options: Stacked, Half Running Bond, or Third Running Bond.







Stacked

Half Running Bond

Third Running Bond

Storage and Handling

ALUCOBOND PLUS material should always be stored in a cool dry area where temperatures are relatively stable. Excessive temperature fluctuations may cause condensation to form on the stored sheets, possibly resulting in permanent surface damage, especially on anodized material. Do not allow moisture to reach stored material. If crates of ALUCOBOND PLUS material are shipped horizontally, the installer should provide adequate support to prevent sagging. Long-term storage with the panels sagging could create a permanent bow in the material. However, small quantities of material may be stored on edge if adequately supported with an "A" frame rack. The "A" frame must have a solid base and back rest.



PRODUCT DATA SHEET



Overview:

ALUCOBOND® EasyFix™ is a cost effective open-jointed, back-ventilated architectural cladding system incorporating processed ALUCOBOND Plus ACM panels and a combination of proprietary EasyFix clip or rail extrusions used for attaching the processed and field-folded panels to the substrate.

Applications:

Interior: Above/below grade wall covering , ceilings, column & beam wraps

Exterior: Above grade wall rainscreen cladding, ventilated and solid soffits, facia, column and beam wraps, copings over wood, metal, concrete construction.

Advantages:

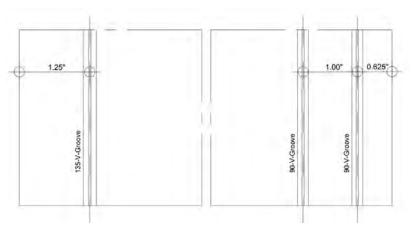
- Field adjustable*
- Install from any direction
- Attach directly to wood sheathing
- Panels ship flat to job site
- Wide color selection
- Joint 3/8"
- Sytem depth 1-1/4"
- Cost effective installations
- ALUCOBOND Plus warranty



Test Standards & Approvals

ASTM E-330	AAMA 2605 (Panels)		
ASTM E-331	AAMA 2604 (Panels)		
ASTM E-84	ASTM D1781 (Panels)		
NFPA 285 (See test report for specific assembly requirements)			

ALUCOBOND Plus EasyFix Panel



A standard EasyFix panel includes 3 route lines applied to back of panel.

Panels may have modified processing to enable additional field adjustment and customization. Consult the EasyFix Field Installation Guide for additional information



System Components:

ALUCOBOND° EasyFix™ Profiles					
EasyFix 135° Starter EasyFix 90°/135° Joint EasyFix 90° End					90° End
		72 23		V.	
Clip Material # 7007013-US	Rail Material # 7007022-US	Clip Material # 7007010-US	Rail Material # 7007020-US	Clip Material # 7007011-US	Rail Material # 7007021-US

Component	Material	Color/Finish	Width	Length	Weight	
ALUCOBOND Plus EasyFix™ Processed Panel	4mm Aluminum Composite Panel .020 Finished Aluminum facer, fire-retardant thermoplastic core, .020 aluminum backer	89 Stock Finishes PVDF fluoropolymer, FEVE Fluoropolymer, Siliconized polyester, Clear anodized, Color anodized	Customized Widths between 6"- 36"	Customized Lengths From 7" To 16'	1.56 lbs / Sq Ft	
EasyFix 135° Starter EasyFix 90°/135° Joint	Aluminum 6063-T6 (Extruded Aluminum)		Clip 3-1/2"	3"	0.1625 lbs / Ea.	
			Rail 3-1/2"	8′	7.8 lbs /Ea.	
		AAMA 611 Anodized Black Class 1	Clip 2-7/16"	3"	0.241 lbs /Ea.	
			Rail 2-7/16"	8′	11.577 lbs / Ea.	
EasyFix 90° End			Clip 1-5/8"	3"	0.1356 lbs / Ea.	
			Rail 1-5/8"	8′	6.509 lbs /Ea.	

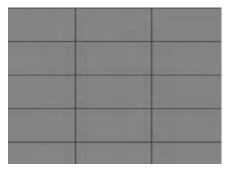
Component	Spec	Substrate		
	#10 x 1-1/2" HWS Type A SMS 18-8 SS (Black)	Used to attach clip or rail to wood sheathing substrate		
Wall Fastening Screws	#12 x 1-1/2" HWH Type 3 Bi-Metal XL CTD 18-8 SS (Black)	Use to attach clip or rail to steel studs or z-girts		
	#12 x 1-1/2" HWS Masonry Bi-Metal CTD 18-8 SS (Black)	Use to attach clip or rail to masonry substates		
Pinning Screw	#8x1/2 Phil Pan Type "A" SMS 18-8 SS (Black Oxide)	(For Vertical Installation Only)		
Pinning Washer	M5x15M Flat Fender washer 18-8 SS (Black Oxide)	Screwed into clip/rail screw boss to hold washer and support/pin panel to clip.		
Facade Tape		Optional (Supplied by Others)		



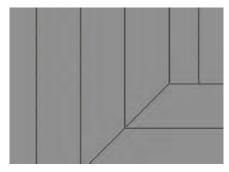


Panel Layout:

ALUCOBOND PLUS panels can be installed with varying layouts: horizontal, vertical or a combination.







Horizontal Layout

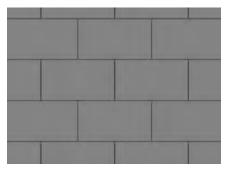
Vertical Layout

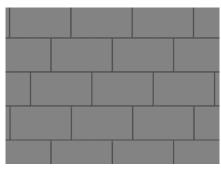
Combination of Horizontal, Vertical, and Diagonal Layouts

Reveal Options:

ALUCOBOND PLUS panels can be installed with varying reveal options: Stacked, Half Running Bond, or Third Running Bond.







Stacked

Half Running Bond

Third Running Bond

Storage and Handling

ALUCOBOND PLUS material should always be stored in a cool dry area where temperatures are relatively stable. Excessive temperature fluctuations may cause condensation to form on the stored sheets, possibly resulting in permanent surface damage, especially on anodized material. Do not allow moisture to reach stored material. If crates of ALUCOBOND PLUS material are shipped horizontally, the installer should provide adequate support to prevent sagging. Long-term storage with the panels sagging could create a permanent bow in the material. However, small quantities of material may be stored on edge if adequately supported with an "A" frame rack. The "A" frame must have a solid base and back rest.

Forest Glaze





Туре	Face
Color	Green
Texture	Smooth
Plant	Plant 6
Manufacturing Method	Extruded
Coating	Glazed

Sizes

Sizes	Width	Height	Length	Unit/Sq Ft	
Modular	3 5/8" 92mm	2 1/4" 57mm	7 5/8" 194mm	6.86	
Norman	3 5/8" 92mm	2 1/4" 57mm	11 5/8" 295mm	4.57	
Economo Modular	3 5/8" 92mm	3 5/8" 92mm	7 5/8" 194mm	4.50	
Utility	3 5/8" 92mm	3 5/8" 92mm	11 5/8" 295mm	3.00	

Forest Glaze

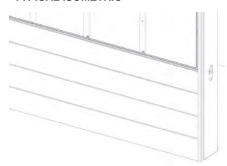


Specs

Standards / Value	FACE BRICK C216 FBX
Size	
Avg. Comp. (PSI)	15,010
Avg. 24 Hr. Cold Water Absor.	4.50
Avg. 5 Hr. Boil Absor.	6.10
Avg. Saturation Coeff.	0.74
Avg. Initial Rate Absor.	8.20
Test Report	. ■ Download
Cleaning Recommendation	ProSoCo would recommend their Vanatrol® or Safety Klean® products. Diedrich recommends their 202V Vana-Stop™ or 910PM products. EaCo Chem recommends their NMD 80®. Use per the cleanser manufacturer's instructions. Follow the recommendations in the Brick Industry Association's (BIA) Technical Notes on Brick Construction 20.



TYPICAL ISOMETRIC



PROFILES

V-Groove: 2-1/2", 4", 6"

Smooth: 6" Channel: 6"

Standard Lengths: 24', 2-1/2"(12')

96 SQ FT/box

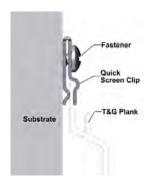
T&G_IS_RG_V8

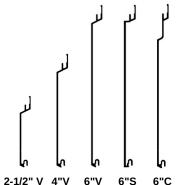
COMPONENTS - Standard Lengths: 12'

Traditional: Starter Strip, Back-to Back Starter Strip, 2" Corner Set, 1-3/8" Two Piece J-Track, 1-3/8" Termination Set, Compression Joint (24'), 1-1/2" Flat Reveal Set. 1-1/2" U-Reveal Set. 1-1/2" T&G U-Reveal, 2" Offset Flat Reveal

Craftsman: 7/8" J-Track, 3/4" Inside Corner, 1" Outside Corner, 3/4" U-Reveal Set, 3/4" T&G U-Reveal

Precision: 5/8" Starter J-Track, 3/16" Outside Corner, 5/8" J-Track, 5/8" Two Piece J-Track, 5/8" Termination Set, 1/2" Flat Reveal, 1/2" T&G Flat Reveal





FINISHES

Woodgrains, solid color, naturally aged metal, custom solid color matching (additional lead times apply)

ATTACHMENT

Planks: Quick-screen clips w. #10 Pan Head screws* @ 32" o.c. (standard).

• Quick-screen Clips: Included in order for 32" o.c. spacings, purchase extra for 16" o.c. spacings. For purchase (extra): 100 pcs/Bag, 1500 pcs/Box

Trims: Hard fasten w. #10 Pan Head screws* @ 16" o.c. *Screws not included.

BIM & CAD

RVT & DWG files available, see website for details

LEAD TIME

Most Popular Finishes -ready to ship within 1 week Additional Finishes

-ready to ship within 14 weeks



info@longboardproducts.com longboardproducts.com 800 604 0343

TECHNICAL SPECIFICATIONS

PHYSICAL DATA

6063-T5 Extruded Aluminum

100% Recyclable

Warranty: Finish:15 year (standard)/20 year* (ultra) (*10 week lead time);

Aluminum: 50 year Weight (lbs/sqft): ~1.5

TESTING

ICC-ESR 4182 Evaluation Report - Division: 07 00 00 Thermal and Moisture Protection Section: 07 46 00 - Siding

AAMA 509 Rainscreen: W1, V2

LARR - Los Angeles Department of Building Safety (LADBS) accepts ICC-ES reports as proof of compliance

Florida Product Code: FL41934

Miami Dade, Florida, Notice of Acceptance(NOA): NOA No. 22-0209.01 -Expiration Date: January 26, 2028

Impact testing: TAS 201

WUI (The Wildland-Urban Interface) – California Department of Forestry & Fire Protection Office of the State Fire Marshal Listing No. 8140-2286:0500



Fire Rating: Class A Non-Combustible by ASTM E136 & ASTM E84; A2-s1,d0 by EN 13501-1



Light Reflectance: 5% (Black) up to 73.2% (Ultra White)

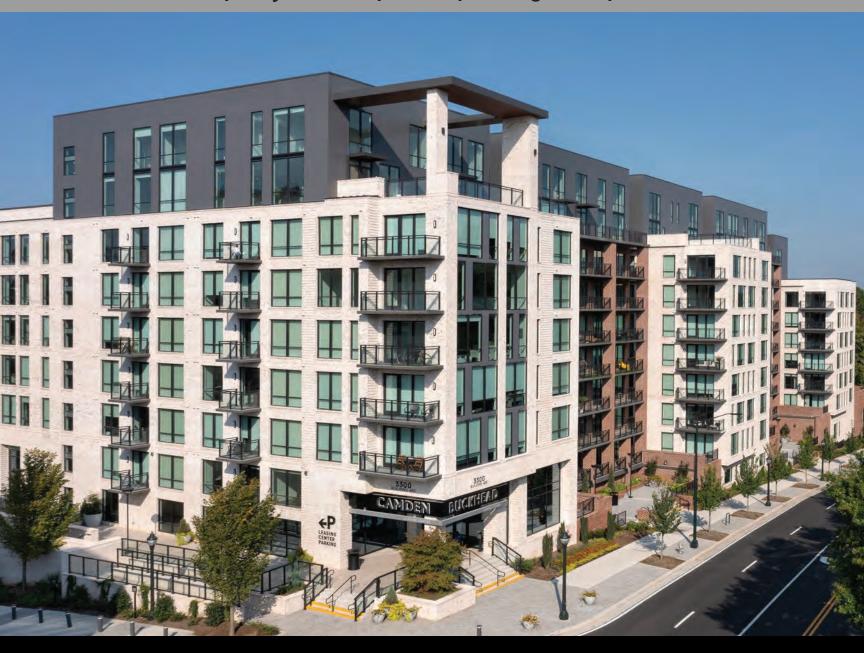


Wind load: Up to 121 psf (5794 Pa) TAS 202, TAS 203





Casement | Project-Out | Fixed | Sliding Door | Terrace Door



Clean and Stylish Architectural Solutions for the Modern Building World



The Modern Solution

Building in the 21st century is more complex than ever. In fact, it's no longer just building. It's harmonizing. It's modernizing. It's stylizing. It's building for today with the future in mind. The windows and doors that will help you do all of that are right here: Quaker's M600 Series -- the modern solution for every project.

Designed for Strength

- Life cycle tested to achieve NAFS certified AW-ratings
- Heavy-gauge aluminum allows for taller/wider sizes
- Impact Tested and FBC-approved models

Designed for Flexibility

- Integral nailing flange for new construction
- Multiple retrofit installation accessories
- Structural mull systems
- Interior and exterior trim packages
- Any color in the rainbow is available with our custom color capabilities

Designed for Long-Term Durability

- Quaker powder coat paint finishes resist fading and chipping much better than liquid paint alternatives
- Only high-quality components found throughout all models
- One of the industry's best commercial warranties

Designed for Energy-Efficiency

- Effective glass choices for every part of the U.S.
- Standard 1" glass pocket with optional 13%" to support and strengthen thermal performance
- Pour-and-Debridge thermal barriers





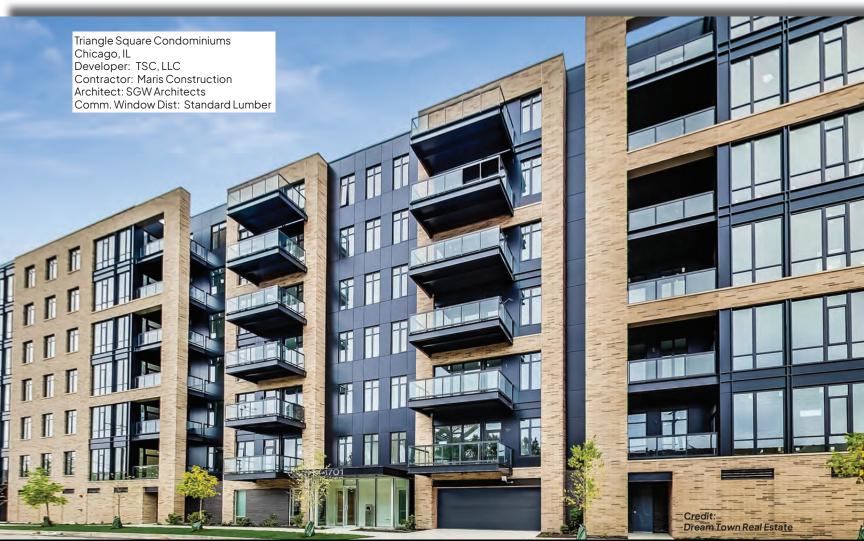
Selection Guide

Model	Frame Depth	Structural Test Rating	Test Size	Design Pressure	Air Infiltration	Water Resistance	U-Value Range#	SHGC Range#	STC Range ^X	OITC Range ^X
Casement	31/4"	AW-PG70	36" x 60"	70	<0.10	15	0.32-0.57	0.11-0.54	29-43	23-34
Project-Out	31/4"	AW-PG70	60" x 36"	70	<0.10	15	0.33-0.59	0.11-0.54	41-43	33-34
Fixed	31/4"	AW-PG70	60"×60"	70	<0.10	12	0.18-0.50	0.13-0.68	32-43	26-33
Terrace Door (inswing)	41/2"	AW-50	48" x 96"	50		10	0.33-0.58	0.09-0.52	34-38	30-33
Terrace Door (outswing)	41/2"	AW-70	39" x 95"	70		12	0.33-0.57	0.09-0.52	34-38	30-33
Terrace Door (outswing w/ADA sill)	41/2"	AW-50	48" x 96"	50		10	0.36-0.58	0.09-0.48	34-38	30-33
Sliding Door	5"	AW-50	123" x 96"	50		12	0.36-0.56	0.14-0.59		

^{#-}U-Value and SHGC ranges are NFRC certified based on I.G. combinations incorporating some or all the following: Low-E glass, clear glass, argon gas and/or air fill, and grids

x-STC and OITC Ranges based on multiple I.G. combinations

 $All \ ratings \ listed \ are \ NAFS \ certified. \ Periodic \ re-certification \ testing \ is \ required \ thus \ data \ shown \ may \ vary \ slightly.$

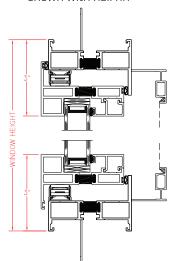




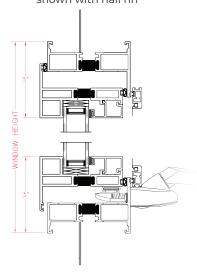
Casement

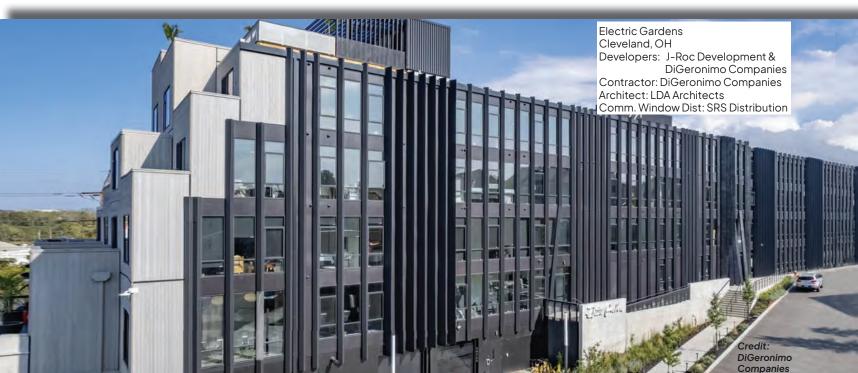
- AW-70 Rating
- Architectural grade aluminum
- Pour and debridge thermal barrier system
- 1" I.G. with warm-edge spacer
- Roto and Cam-Handle hardware
- Clean corner joints for greater aesthetic appeal
- Heavy-duty, sealed corner key construction eliminates sag
- With or without Integral nailing fin
- Single-frame combination capability
- Impact and Florida Building approved (M700)
- Standard and custom sizing for all models
- Green initiatives built into every product

M600 Push-out Casement shown with nail fin



M600 Roto Casement shown with nail fin

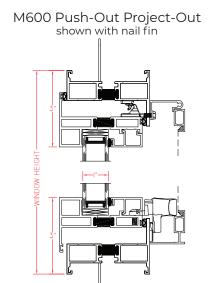




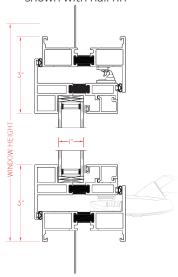


Project-Out

- AW-70 Ratings
- Architectural grade aluminum
- Pour and debridge thermal barrier system
- 1" I.G. with warm-edge spacer
- Roto and Cam-Handle hardware
- Clean corner joints for greater aesthetic appeal
- Heavy-duty, sealed corner key construction eliminates sag
- With or without Integral nailing fin
- Single-frame combination capability
- Impact and Florida Building approved (M700)
- Standard and custom sizing for all models
- Green initiatives built into every product



M600 Roto Project-Out shown with nail fin







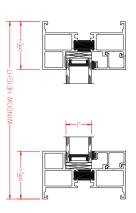
Products

Fixed

- AW-70 Rating
- Architectural grade aluminum
- Pour and debridge thermal barrier system
- 1" I.G. with warm-edge spacer
- With or without Integral nailing fin
- Single-frame combination capability
- Heavy-duty, sealed corner key construction eliminates sag
- Clean corner joints for greater aesthetic appeal
- Geometric shapes
- Impact and Florida Building approved (M700)
- Standard and custom sizing for all models
- Green initiatives built into every product

Fixed shown with nail fin

Fixed shown without nail fin







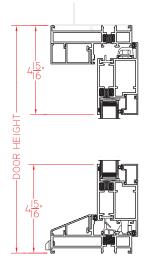
Products

Terrace Doors

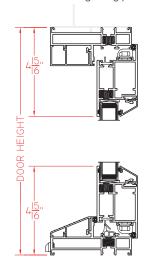
- AW-50/AW-70 Ratings
- Architectural grade aluminum
- Pour-and-debridge thermal barrier
- 1" I.G. with warm-edge spacer
- Inswing or Outswing operation
- Concealed or barrel hinges
- Multi-point hardware. Single-point optional.
- Keyed or unkeyed hardware option
- Heavy-duty corner keys eliminate sag
- Clean corner joints for greater aesthetic appeal
- Impact and Florida Building approved (M700)
- Optional ADA sill
- With or without nailing fin
- Standard and custom sizing
- Green initiatives built into every door
- Fixed Transom and Sidelite

M600 Inswing shown w/nail fin, standard sill &

square exterior glazing profile

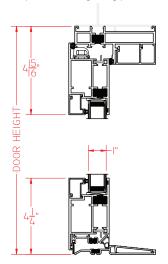


M605 Inswing shown w/nail fin, standard sill & beveled exterior glazing profile



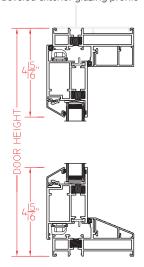
M600 Outswing shown w/nail fin, optional ADA sill

& square exterior glazing profile



M605 Outswing

shown w/nail fin, standard sill & beveled exterior glazing profile







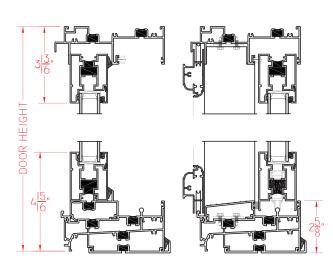
Products

Sliding Doors

- Up to AW-50 Ratings
- Architectural grade aluminum
- Pour-and-debridge thermal barrier
- 1" I.G. with warm-edge spacer
- 2-, 3- or 4-panel operation
- Steel rollers for smooth operation
- 3 1/16" threshold
- Optional 2 5/8" threshold (M300)
- Multiple handle choices
- Keyed or unkeyed hardware option
- Clean corner joints for greater aesthetic appeal
- Heavy-duty corner keys
- Impact and Florida Building approved (M700)
- With or without nailing fin
- Standard and custom sizing
- Green initiatives built into every door
- Fixed Transom and Sidelite

M600 Sliding Door w/ 3 %16" sill shown with nail fin

M300 Sliding Door w/ 2 5/8" sill shown with no nail fin





M6000 COMMERCIAL ALUMINUM SERIES

Products





Colors & Finishes

Quaker makes it easy to get your color right with more than 40 "Quick Pick" powder-coat paint colors. If that's not enough, Quaker offers full custom color capabilties, meaning you can grab any color in the spectrum for your project.

The Basics: Nearly 30 color tones that never go out of style.



Resembles: Powder coat, paint finishes made to resemble an anodized look.



- Resembles painted finishes have double the warranty (10 years vs. 5 years for anodized)
- Shorter lead times as Quaker paints all aluminum lineals in-house while anodized must be outsourced.
- Better pricing across the board vs. anodized
- Consistent painted finish for each rail as opposed to the industry-accepted ranges that come with the anodizing process.

Textured: Unique depth and feel to elevate your color choice.



Custom Colors:

- Custom colors are a Quaker specialty.
- Our state-of-the-art, in-house painting facilities allow you to easily choose a custom color without incurring an exhorbitant cost.
- From the purest white to the darkest black, any color is right at your fingertips.

Colors & Finishes

Paint Finishes:

- Standard: High-performance 2604 Powder Coat finish (an FGIA specificiation)
- Upgrade: Max-performance 2605 Powder Coat finish* (an FGIA specification)
 - *2605 finish not available for all colors

Heat Reflective: Keeps aluminum window and door exteriors cooler by repelling excessive solar heat.

- Available with these colors: Black, Dark Bronze, Textured Black, Textured Dark Bronze, & Textured Dark Espresso
- Proven technology adapted to work with windows
- Paint additive works much like Low-Eworks in glass
- Reduces the possibility of thermal heat transfer through windows, diminishing surface temperatures as much as 15%.

Anodized:

Available by request if commercial anodized finishes are a must for your project.

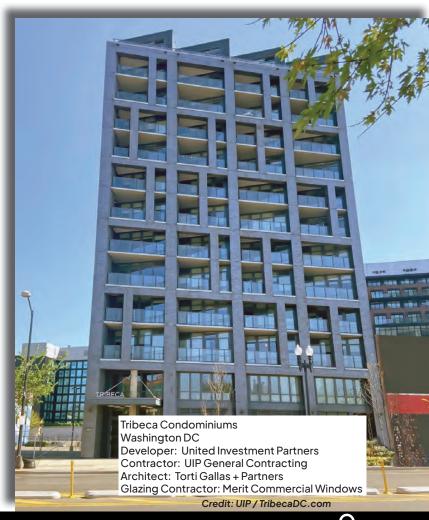
- Quaker offers only Class I anodized finishes, the highest grade available for exterior usage and vastly superior to Class II anodized
- Seven Anodized colors ranging from clear to black

Paint & Finish Warranty:

- 10 year limited warranty on 2604 paint finish
- Up to 20 year limited warranty on 2605 paint finish
- 5 year limited warranty on Anodized finishes
- See complete warranty details at QuakerCommercialWindows.com

Although every effort is made, the sample colors shown in this brochure may not perfectly reflect the actual paint color once it has been applied. For an exact color match, please contact Quaker.

Quaker Windows & Doors does not assume any responsibility for possible misrepresenations of our colors and reserves the right to add, remove or alter the color offerings and/or information shown here without notice.





Glass

Pane thickness

- 3/₃₂" 1/₈" 5/₃₂"

I.G. thickness

- 1" (Double pane)
- 13/8" (Triple pane)

Glass Types

- Dual Silver Low-E
- Triple Silver Low-E
- Interior Pane Low-E
- Tempered Safety Glass
- Laminated

- Spandrel
- Neat+ Low Maintenance
- Obscure (for privacy)
- Tinted
- Bird Glass

and many others

 $Some\ limitations\ may\ apply\ based\ upon\ several\ variables\ including,\ but\ not\ limited\ to,$ the window/door series chosen and requested/required specifications.

Super Spacer® Premium Enhanced

- Low conductivity
- Edge-seal durability
- High desiccant content for moisture absorption
- Superior argon gas retention
- Pleasing aesthetic appearance
- Excellent condensation resistance
- Great impedance to ozone, UV light and oxidation
- Optimized energy savings





Grids



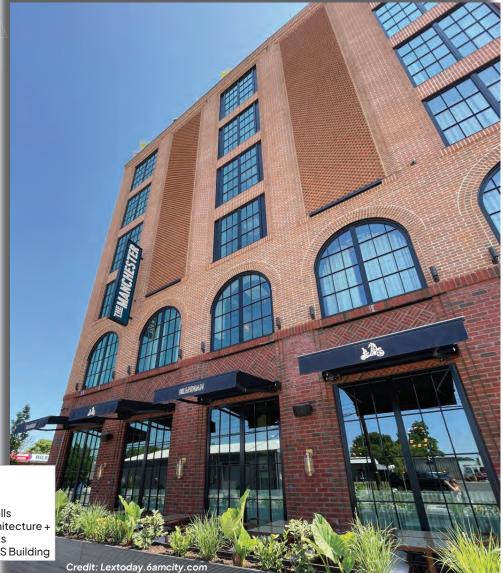
Simulated Divided Lites

• Dozens of flat and raised profiles with numerous combinations available

SDL profiles shown above are just a sampling of the many Quaker offers. Custom profiles available.

Grids Between the Glass

- Flat (5/8")
- Flat (3/4")
- Flat (1")
- Contoured (3/4")



The Manchester Hotel Lexington, KY

Owner: Astana LLC Contractor: Wells and Wells

Architects: Champlin Architecture + EOP Architects

Comm. Window Dealer: LS Building



Mulls

M600 Structural Mull Systems deliver ultimate confidence, whether you're stacking units or pairing them side-by-side. Or both.

- Vertical mulls Up to 3" wide
- Horizontal mulls 1" to 7" tall
- Post Mulls
- Mull Covers up to 8" wide
- 120° Angle Mull

Usage limitations may apply







Installation Accessories

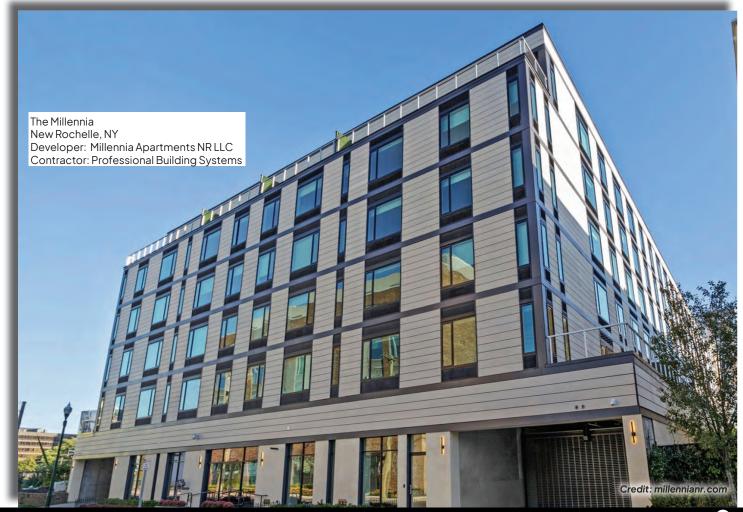
Quaker can provide a multitude of accessories for your M600 installation.

- Panning
- Anchor straps
- Receptor
- Interior and exterior trim
- Subsill
- Drywall channel

Other factory-applied* options and accessories include:

- Louver systems to accomodate HVAC (horizontal or vertical)
- WOCD (Window Operating Control Device). Meets ASTM F2090 requirements for window fall prevention.
- Trickle Vent (aka Background Ventilators) to allow for small amounts of air transfer
- Preserve Film protects against glass damage during construction stage and more.

*Some limitations may apply





Solutions for Special Applications

Impact (M700)

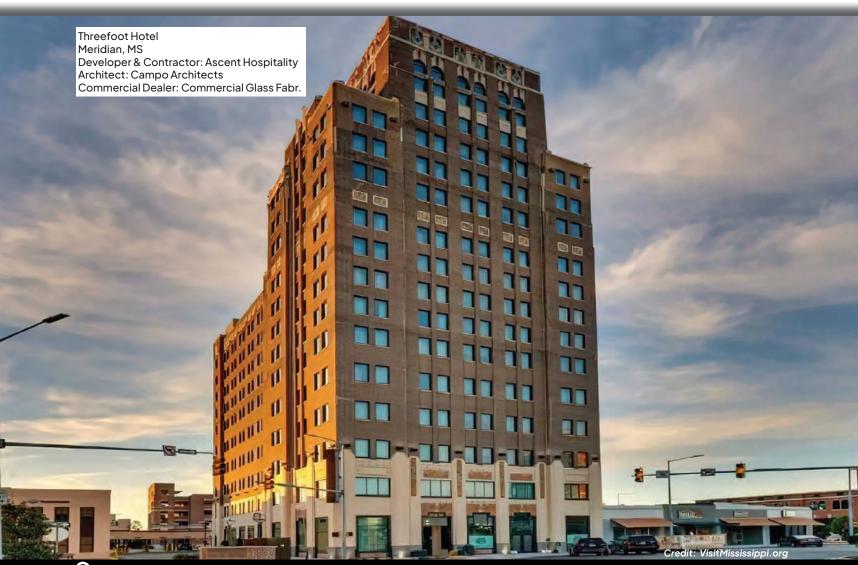
- Casement, Project-Out and Fixed window models
- Sliding and Terrace Door models
- Meet ASTM 1886 (Large Missile Impact - Level D) testing requirements
- Nail Fin or Trim/Clip anchorage systems for operating window models
- Nail Fin anchorage system for fixed window and sliding door
- Through frame anchorage system for terrace door

Texas Dept. (M700) of Insurance

- Products satisfy TDI's criteria for protection from windborne debris
- Fixed (60" x 96" test size): Evaluation ID: WIN-2500
- Fixed w/louver (60"x 94" test size): Evaluation ID: WIN-2501
- Fixed (48"x60" test size):
 Evaluation ID: WIN-2502
- Must be installed at height on structure that does not exceed DP rating for the assemblies.
- See full info at tdi.texas.gov

Florida Building Code

- Meets all required FBC calculations Casement: FL27673 (2020 Code Version)
- Project-Out: FL27676 (2020 Code Version)
- Fixed: FL23998 (w/louver) (2020 Code Version)
- Sliding Door: FL30496 (2020 Code Version)
- Terrace Door: FL28083 (2020 Code Version)
- Approved anchorage systems
- See full info at FloridaBuilding.org



M600 COMMERCIAL ALUMINUM SERIES

LEED®

- All window and door models from the M600 Series can assist with garnering LEED points for your commercial project
- LEED Building Design and Construction (LEED BD+C) works for both new construction and replacement commercial projects
- LEED is the world's preeminent green building organization
- Go to usgbc.org/leed for more information.







Support Services

Quaker's expertise and support services are unmatched in the industry. While every project is distinct, Quaker offers in-house processes which consistently cover every detail. These fool-proof procedures ensure your project and our M600 products are a perfect match.

- Quaker has a dedicated commercial team with nearly 200 years of industry experience
- Quaker's team will assist with every facet; design development, budgetary aspects, and project management



PROJECT AND SPECIFICATION REVIEW

How many stories are in the building?
Where is it located?
How large are the windows?
These and other important questions must be answered before moving forward.



ENGINEERING & DESIGN ASSESSMENT

After evaluating every component making up your project, our professional engineering expertise is put to work, as we carefully calculate customized solutions to best meet your spec's requirements.



LOCAL AND ARCHITECTURAL SALES SUPPORT

Quaker's Sales Representatives, many with 25+ years of knowledge and industry pedigree, have a vested interest in working beside you...not from afar. If you have questions, they want to answer them. If you have a concern, it's their concern too.



The Quaker Difference:

More than meets the eye.

What distinguishes Quaker from all other window companies isn't always in plain sight. It's The Quaker Difference -- tangible and intangible assets working together to form the most sought-after windows in the market.

- It's a standard of craftsmanship and engineering excellence we build into every product, distinguishing us from all other window companies in America.
- It's professional manufacturing specialists, some with more than 40 years of window experience, providing unparalleled attention to detail from start to finish.
- It's shying away from testing at only entry-level, gateway sizes. Instead, we test using exaggerated and even maximum sizing. This ensures the entire scope of a product's sizing will meet the advertised rating.
- It's multiple quality checks implemented throughout the manufacturing process to guarantee a paramount product.
- It's our state-of-the-art paint facilities. Unlike many manufacturers who must outsource, Quaker controls the quality and consistency of our finish in-house.
- It's employing thicker glass panes which will both lower the amount of stress cracks and raise your ability to control sound intrusion.
- It's our "can-do" attitude toward custom projects. Never is a job too custom for Quaker. Our option and accessory choices allow us to do what others can't.
- It's doing more than just selling windows and doors. It's finding the right window and door solution for your project.

That's The Quaker Difference.







Find more information on Quaker windows and doors



- www.QuakerCommercialWindows.com
- □ 1-800-347-0438
- □ commercial@quakerwindows.com



Made in America: All Quaker products are designed and manufactured in the United States at our state-of-the-art facilities in Eldon, MO (above) and Freeburg, MO.









January, 2025 - V5



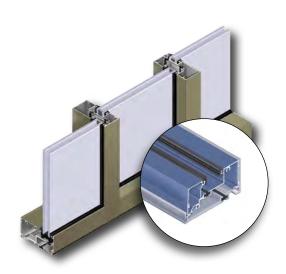
ON THE COVER:

Camden Buckhead Atlanta, GA Developer & Contractor: Camden Property Trust Architect: Niles Bolton Associates

Series 3000 Thermal Multiplane —

the versatility of standard storefront systems with improved thermal performance

The Series 3000 Thermal Multiplane extends the versatility of standard storefront systems by offering **improved thermal performance** and multiple glass plane options. The Series 3000 Thermal Multiplane provides more options for head and sill anchorage, **structural silicone glazing** and a front set installation option utilizing continuous head and sill members. Designed for 1" infill, the Series 3000 Thermal Multiplane has available glazing adapters and gasket options for infills ranging from 1/4" to 1-1/8".



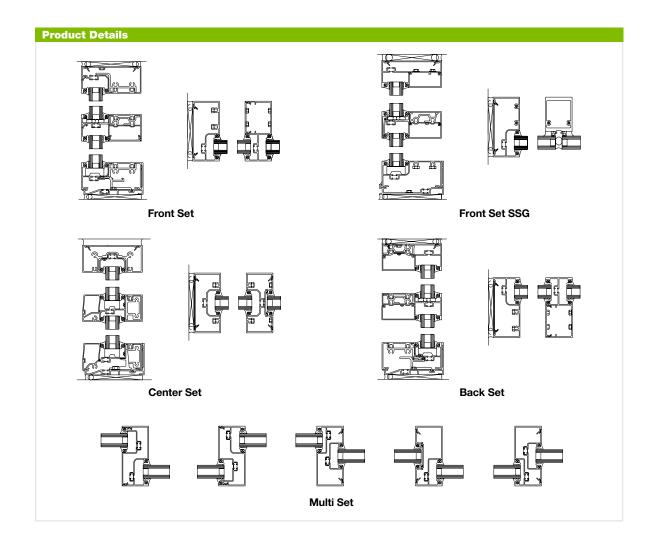


First Community Credit Union, St. Louis, MO Architect: TR,i Architects

Features

- Overall system dimensions: 2" x 4-1/2"
- Front Set, Center Set, Back Set or Multi Set glazing configurations
- Optional sill receptor requires no additional anchoring of sill member
- Optional thermally broken head anchor clip
- SSG glazing with patented funnel bridge option for Front Set
- Continuous head and sill assembly option for Front Set
- Screw spline and shear block assembly
- Outside and inside glazing options Complete
- 90° and 135° corners
- High sidelite base
- Thermally broken members with polyurethane thermal breaks
- Accommodates projected and casement vents
- Factory painted Kynar 500®/Hylar 5000® finishes, meeting all provisions of AAMA 2605
- Factory anodized finishing





Performance

- Air Infiltration: <.06 CFM/SQ FT @ 6.24 PSF per ASTM E283</p>
- Static Water: 10 PSF per ASTM E331
- Deflection Load: 40 PSF per ASTM E330
- Structural Load: 60 PSF per ASTM E330
- STC per ASTM E90:
 - 32 with clear glass (Center and Front Set) 37 with laminated glass (Center Set) 38 with laminated glass (Front Set)

- OITC per ASTM E90:
 - 26 with clear glass (Center and Front Set) 30 with laminated glass (Center and Front Set)
- Thermal Performance per AAMA 1503 for Low-E 1" insulating glass:

U-factor = 0.33, CRF = 68 Captured (Front Set)
U-factor = 0.31, CRF = 72 Captured (Front Set SSG)
U-factor = 0.32, CRF = 63 Captured (Center Set)

 NFRC Certified and Thermal Performance Characteristics per AAMA 507

OFFICE

Preliminary Development Plan August 7, 2025

















2 US Brick Black Satin or Similar Color



3 Tubelite Storefront



4 Centria Formawall Chromium Grey or Similar Product



5 Envisor Roof Screen or Similar Product



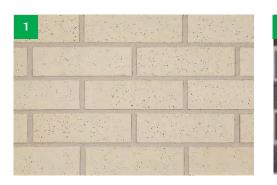
















2 US Brick Black Satin or Similar Color



3 Tubelite Storefront



4 Centria Formawall Chromium Grey or Similar Product



5 Envisor Roof Screen or Similar Product

























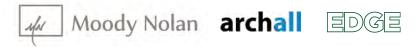
Glen Gery Light Buff Matt or Similar Color

2 US Brick Black Satin or Similar Color

3 Tubelite Storefront

4 Centria Formawall Chromium Grey or Similar Product

5 Envisor Roof Screen or Similar Product













Infill panel to match adjacent color before retail tenant move in







2 US Brick Black Satin or Similar Color



3 Tubelite Storefront



4 Centria Formawall Chromium Grey or Similar Product



5 Envisor Roof Screen or Similar Product



























Whitehall ♥ Save Product









Where To Buy





Download seamless tileable image



See this brick on your house



Project Estimation Calculator

Enter wall area (ft2)

Quantity of brick

0

Full Calculator

Calculation is based on the Modular size brick, view full calculator to select a different size. View available sizes below for the product shown here.

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ABOUT (

OUR BRICK
RESOURCES

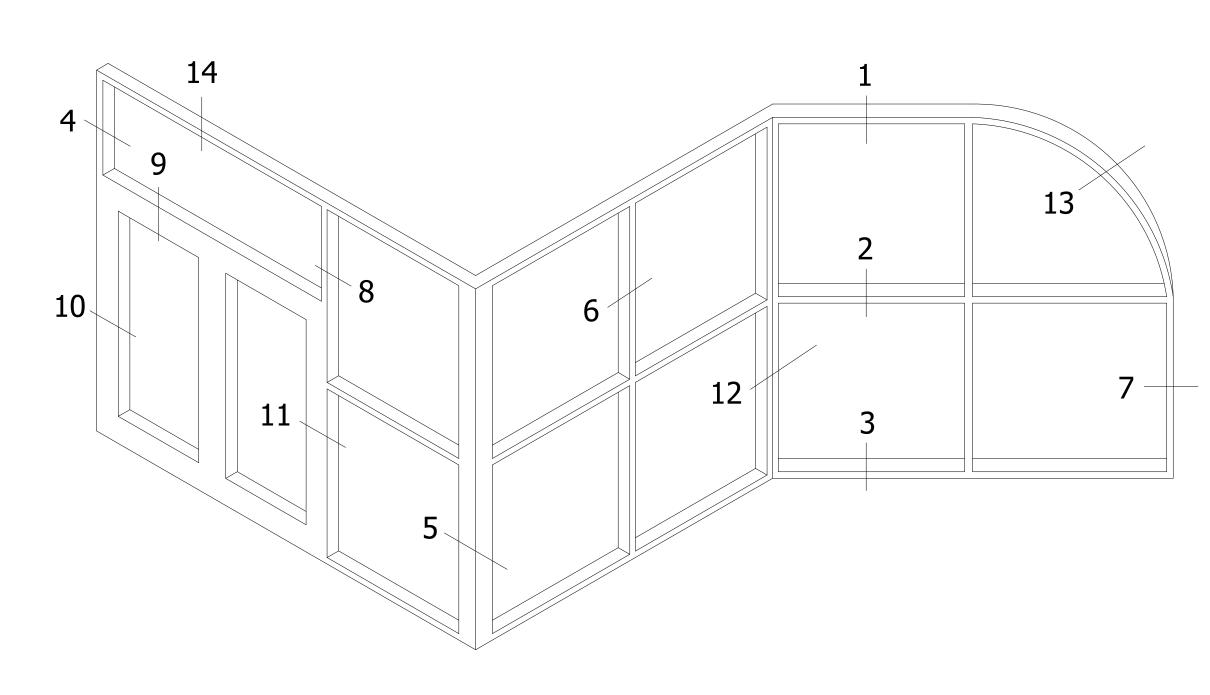
MATERIALS CONTACT WHERE TO BUY



Black Satin

A sleek, modern black brick designed for high-end commercial projects.

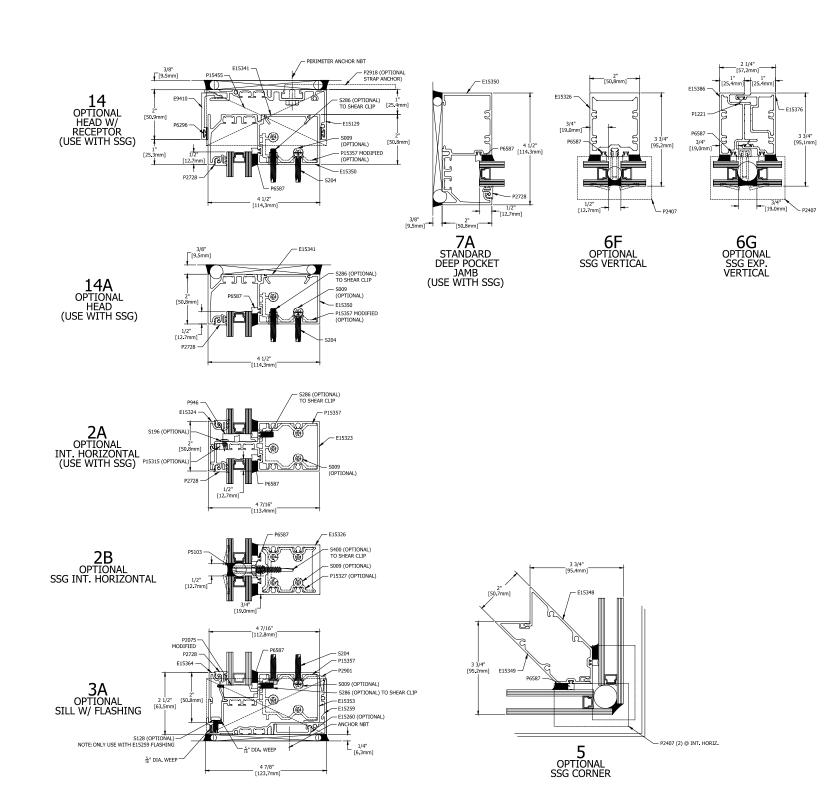
Available Sizes: Modular, Thin Brick, Utility



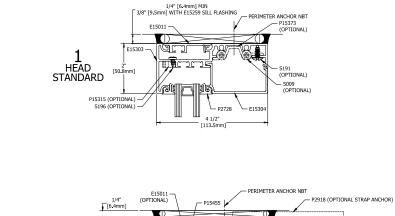
TYPICAL ELEVATION

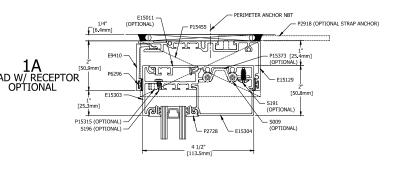
E14000 I/O SERIES STOREFRONT

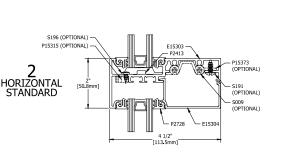
OUTBOARD PLANE INSIDE & OUTSIDE GLAZED

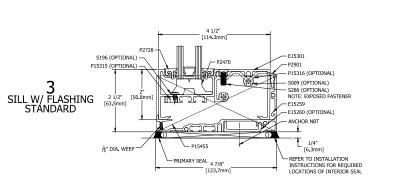


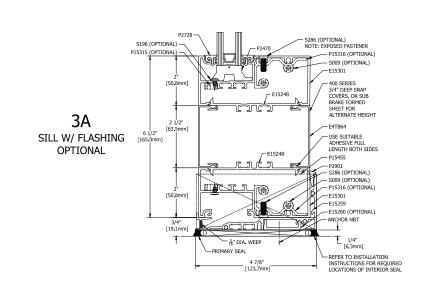
SSG OPTIONS (OUTSIDE GLAZE)



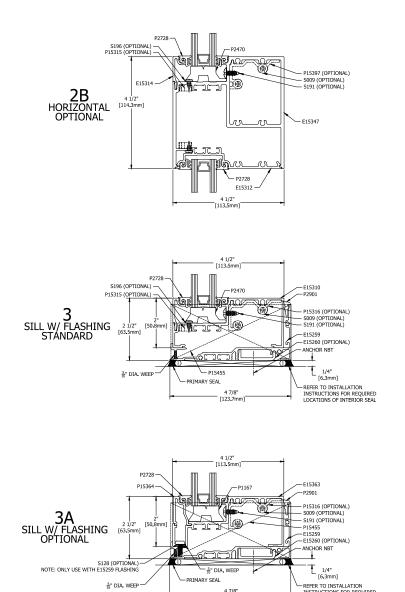


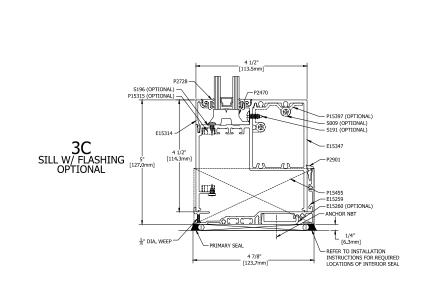




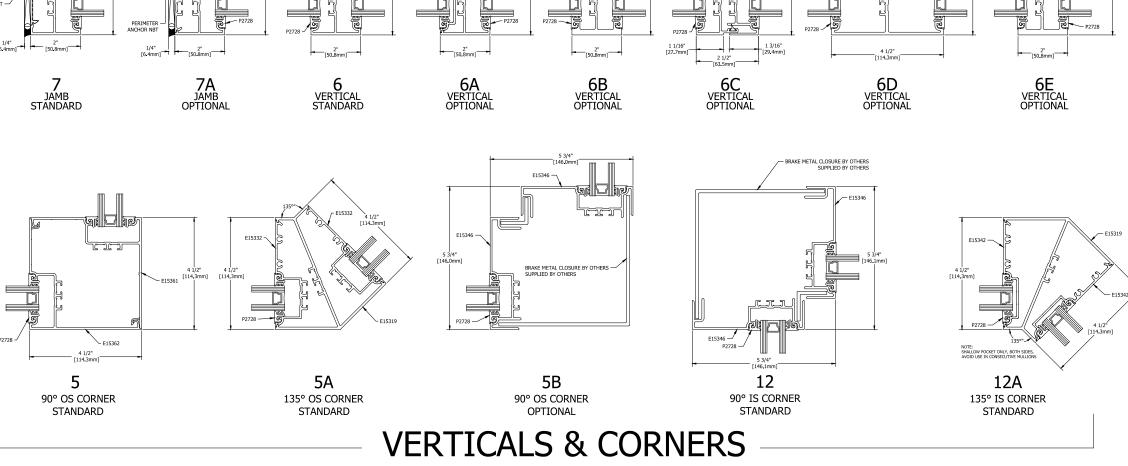


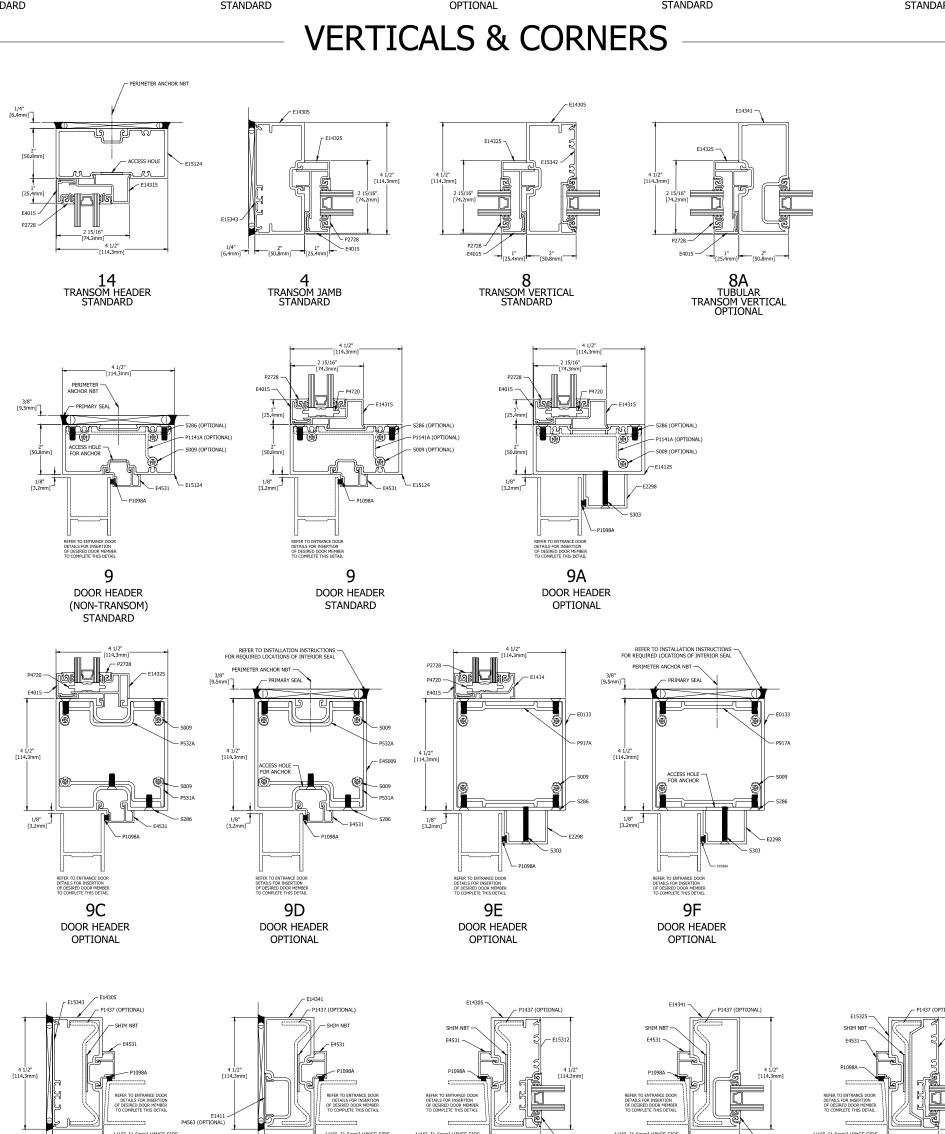
INSIDE GLAZED



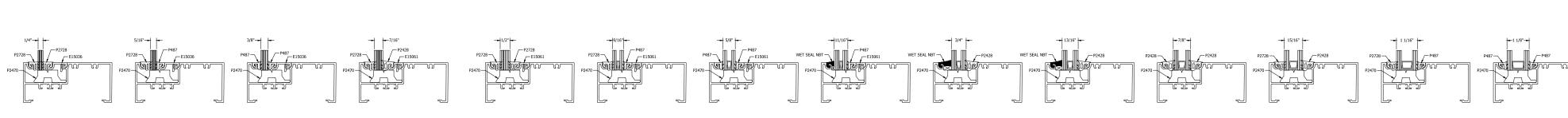


OUTSIDE GLAZED











GLASS SHOWN DOES NOT NECESSARILY REPRESENT FINAL CONFIGURATION.
CONSULT GLASS MANUFACTURER FOR SPECIFIC GLASS MAKE UP.



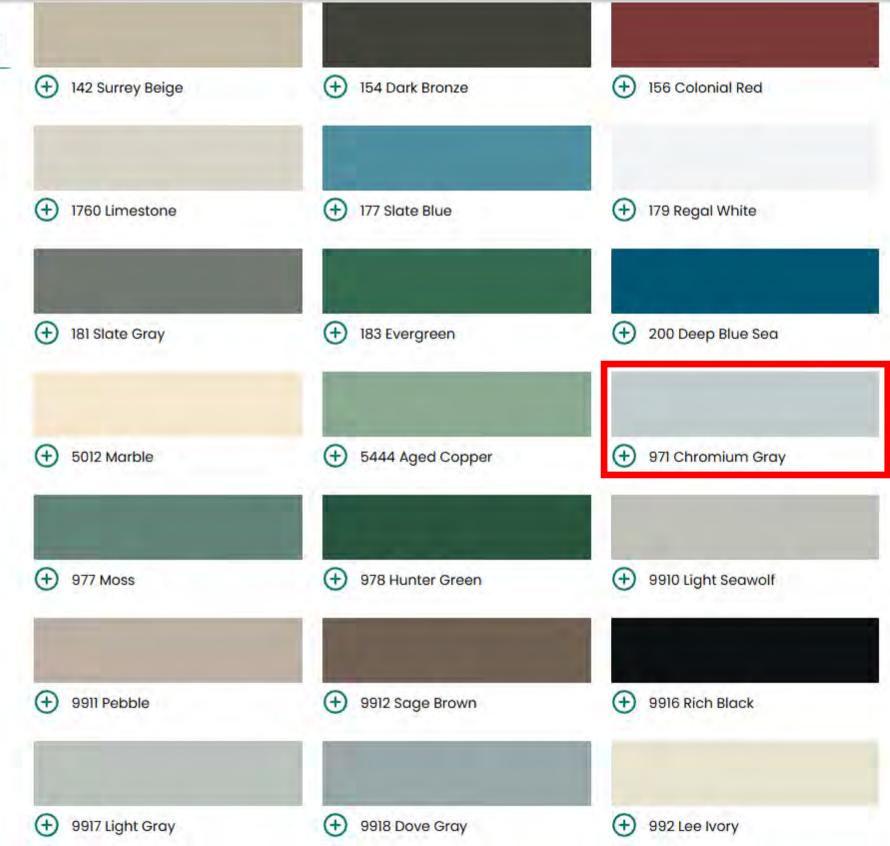
Last Revised: 8/22/2024

PRISMATIC™ SOLID COLOR SERIES

CENTRIA offers a popular line of durable, solid-color coatings made to last. Premium high-build architectural finishes deliver reliable color retention and fade resistance. Prismatic Series is available in a wide range of standard colors in Fluorofinish® color systems.

Note: Prismatic in Duragard®, Duragard® Plus, and Fluorofinish® Coastal color systems may be subject to a *minimum quantity fee*. Contact your sales representative for details.







FORMAWALL DIMENSION SERIES® **TECHNICAL DATA SHEET**





2" [51]

DESCRIPTION

Formawall Dimension Series panels provide a modern, monolithic appearance to the building façade. This system works as a single component to provide all necessary building control layers along with an outstanding aesthetic. Formawall Dimension Series panels integrate easily with our window, louver and sunshade systems to provide a complete building envelope system. This system provides an uninterrupted appearance in horizontal and vertical applications with concealed clips, fasteners, sealants, and the optional Insulated Metal Vertical (IMV) joint.

GENERAL DESIGN OPTIONS

	FORMAWALL	DIMENS	ION SE	RIES		
PANEL THICKNESS	2" [51mm], 2½" [64mm], 3"-T [76mm]					
PANEL MODULE	24" [610mm], 30" [762mm], 36" [914mm] Custom Modules: 10" [254mm] - 40" [1016mm]					
PANEL CORE	Red List-free, Foamed-in-placed polyisocyanurate (PIR)					
THERMAL VALUES *		U Factor BTU/hr•ft²•°F		R Value hr•ft²•°F/BTU		
	2"	0.069		16.0		
	2½"	0.056		20.1		
	3"-T	0.045		24.1		
END JOINT	5/8" Insulated Metal Vertical (IMV) Joint (Optional: 1", 2", 3" IMV or 5/8" Gasket)					
SIDE LAP	Double tongue and groove; pressure equalized					
SIDE LAP REVEAL	½" Horizontal ½" Vertical					
	Optional Reveal: ¼", 1" to 6" in ½" increments					
STANDARD PANEL LENGTHS °	Embossed		Flat - 5' [1.52m] - 37' [11.3m]			
	Embossed		Striated - 5' [1.52m] - 37' [11.3m]			
	Smooth		Flat - 5' [1.52m] - 16' [4.9m]			
			Striated - 5' [1.52m] - 20' [6.1m]			
	304 Stainless (Exterior only)		Flat - 5' [1.52m] - 16' [4.9m]			
STANDARD EXTERIOR FACE & GAUGE	22 ga. Embossed, Flat					
OPTIONAL EXTERIOR FACE & GAUGE	20 ga. Embossed, Flat, 20, 22, 24 ga. Embossed, Striated, 20, 22 ga. Smooth, Flat or Striated					
STANDARD INTERIOR LINER & GAUGE	26 ga. Embossed*, Planked					
OPTIONAL INTERIOR LINER & GAUGE	20, 22 ga. Embossed, Planked 20, 22 ga. Embossed, Flat 20, 22 ga. Smooth, Planked					
	2"		2.	2.72-4.57 lbs./sq. ft.		
WEIGHTS	2½"			2.88-4.81 lbs./sq. ft.		
	3"-T		3.	3.03-5.06 lbs./sq. ft.		



^{* 2&}quot; smooth exterior panels require 22 ga. non-planked/flat liner + U-Factor & R-Value per ASTM C1363/simulation & ASTM C518 and based on a mean temperature of 35° F; Standard I-P unit convention shown. ° Panel lengths may be limited from standard offerings based on color & thermal movement; contact CENTRIA for assistance.

FORMAWALL DIMENSION SERIES DESIGN FEATURES & BENEFITS

- May be installed horizontally or vertically and is available in a variety of reveals, thicknesses and profiles
- Concealed clips, fasteners and sealants, combined with optional Insulated Metal Vertical (IMV)
 joints, provide an uninterrupted appearance in horizontal applications
- Pressure-equalized side joint to help prevent water infiltration
- Pressure-equalized end joint available with optional Seal Plate
- Unlike laminated insulated metal panels, Formawall Dimension Series is factory foamed inplace, minimizing the potential for gaps within the panel
- Can be integrated with other Formawall profiles to create unique looks



FORMAWALL DIMENSION SERIES TESTING

TEST		TEST METHOD TEST TITLE		RESULTS			
DDD	FIRE US	ASTM E84	Surface Burning Characteristics of Building Materials	Flame Spread <20 Smoke Development <250			
		ASTM E119/UL 263	Fire Tests of Building Construction and Materials	See UL Fire Resistance Directory for tested assemblies			
		NFPA 259	Standard Test Method for Potential Heat of Building Materials	Potential heat of foam plastic insulation contained in the assembly tested in accordance with NFPA 285			
		NFPA 285	Evaluation of Fire Propagation Characteristics of Exterior Non-Load Bearing Wall Assemblies	Various tested assemblies meet the requirements of the standard			
		NFPA 286	Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth	Test specimen met the criteria of the IBC Section 803.1.2.1			
		FM 4880	Class 1 Fire Rating of Insulated Wall, Ceiling and Roof Panels	See FM Approval Listings			
		FM 4882	Class 1 Interior Wall and Ceiling Materials for Smoke Sensitive Occupancies	See FM Approval Listings			
П	STRUCTURAL	ASTM E72/E330	Standard Test Methods of Conducting Strength Tests of Panels for Building Construction	See Span Tables			
		FM 4881	Class 1 Exterior Wall Structural Performance	See FM Approval Listings (VSH Rating)			
	THERMAL PERFORMANCE	ASTM C518	Steady-State Thermal Transmission Properties by Means of the Heat-Flow Meter Apparatus*		U-Factor BTU/hr•ft²•°F	R-Value hr•ft²•°F/BTU	
			by Means of the Heat-Flow Meter Apparatus	2"	0.069	16.0	
		ASTM C1363	Thermal Performance of Building Materials and	2½"	0.056	20.1	
			Envelope Assemblies*	3"	0.045	24.1	
202020	AIR INFILTRATION	ASTM E283	Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors	< 0.01 cfm/ft² air infiltration rate at static pressure differential of 6.24 psf			
		ASTM E2357	Air Leakage of Air Barrier Assemblies	different psf Verti without	<0.04 cfm/ft2 air infiltration rate at static pressure differential of 1.57 psf, after 2,000 cycles at +/- 16.71 psf Vertical or Horizontal installation; with and without penetrations		
***	WATER INFILTRATION	ASTM E331	Water Penetration of Exterior Windows, Skylights, Doors and Curtain Walls by Uniform Static Air Pressure Difference	No uncontrolled water penetration at static pressure differential of 6.24 psf for 2 hours (IBC Section 1402) and 15 psf for 15 minutes		osf for 2 hours (IBC	
		AAMA 501.1	Standard Test Method for Water Penetration of Exterior Walls Using Dynamic Pressure	No leakage at a dynamic pressure of 15 psf for 15 minutes		ssure of 15 psf for 15	
	ACOUSTICAL	ASTM E 90 & ASTM	Airborne Sound Transmission Loss of Building Partitions	Assemblies available ranging from STC= 23 to 45 & OITC= 23 to 34; Contact CENTRIA for assistance			
		E 413	Classification for Rating Sound Insulation				

^{*}U-Factor per ASTM C1363/Simulation & ASTM C518 and based on a mean temperature of 35° F; Standard I-P unit convention shown.

SPECIAL APPROVALS

- CCRR Intertek Code Compliance Research Report (Intertek CCRR-0276)
- Florida Product Approval HVHZ (Miami-Dade NOA) (Approval No. FL20381 and FL31378)
- Florida Product Approval non-HVHZ (Approval No. FL31378)

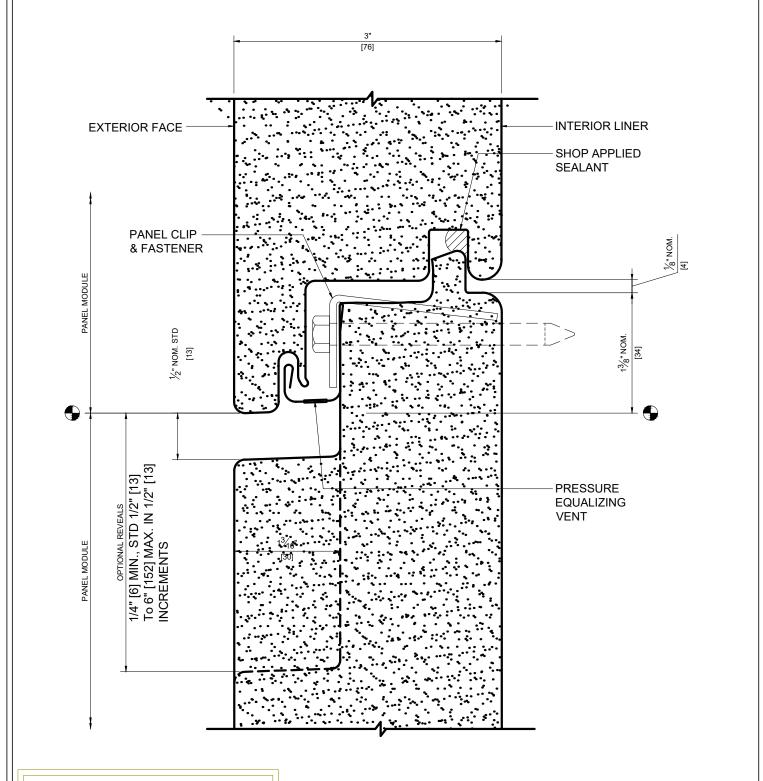
NOTES

- A. For information on special applications, contact your local CENTRIA Sales Representative.
- B. Maximum support spacing and panel length may be limited for medium and dark colors due to thermal stress, consult CENTRIA.
- C. Length limitations may vary based on color. Contact CENTRIA for details.

DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 1



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USED FOR CONSTRUCTION PURPOSES.

HORIZONTAL IMV APPLICATION

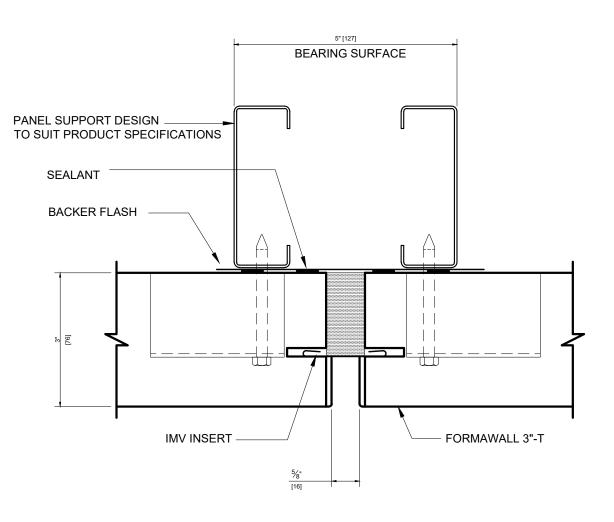
HORIZONTAL JOINT DIMENSION SERIES 3" (76mm)- T



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 2



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USED FOR CONSTRUCTION PURPOSES.

HORIZONTAL IMV APPLICATION

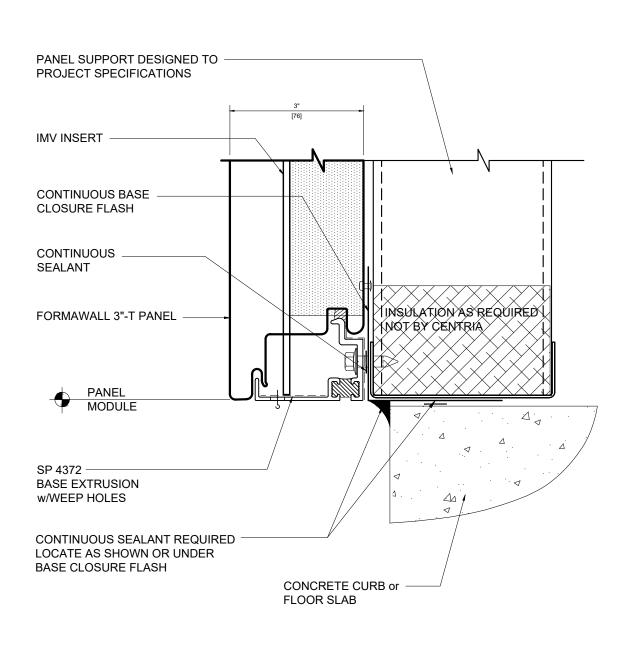
3" T IMV VERTICAL JOINT



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 3



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HORIZONTAL IMV APPLICATION

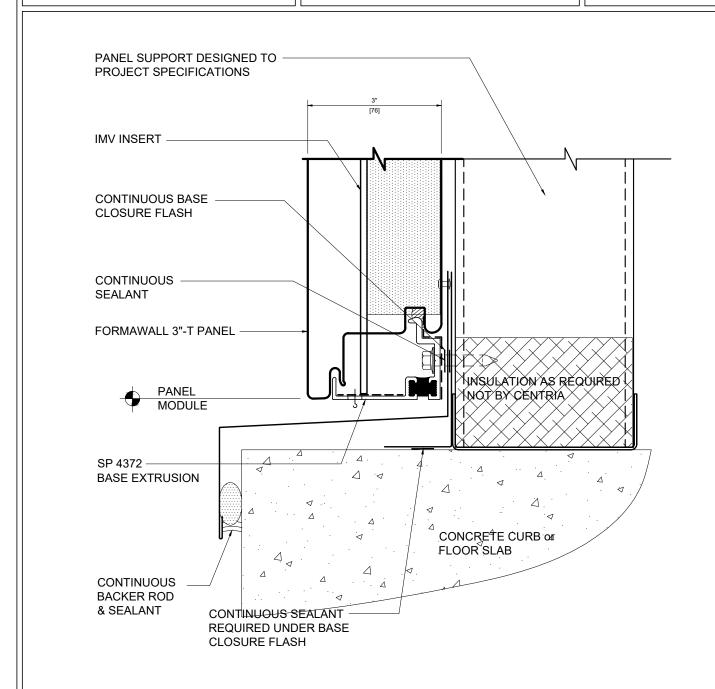
3" T IMV BASE - AT SLAB - ON MODULE



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 3A



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HORIZONTAL IMV APPLICATION

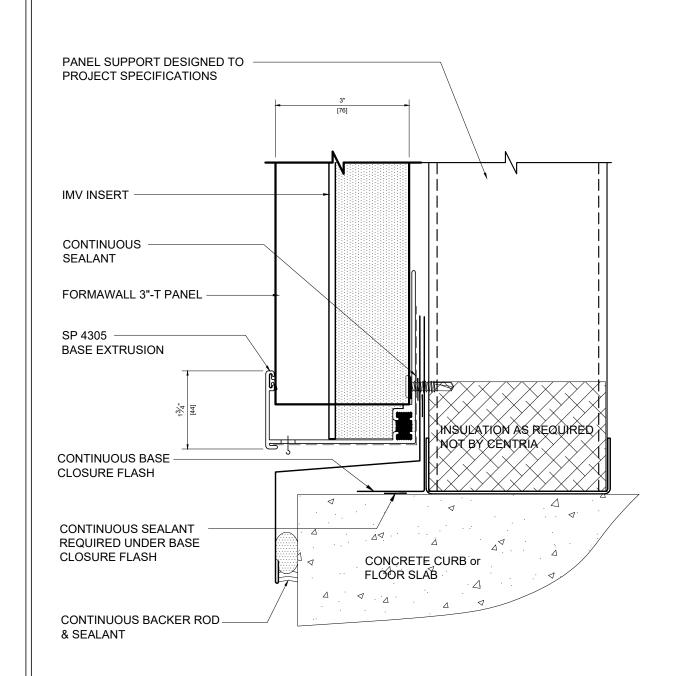
3" - T IMV BASE - AT CURB -ON MODULE



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 3B



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HORIZONTAL IMV APPLICATION

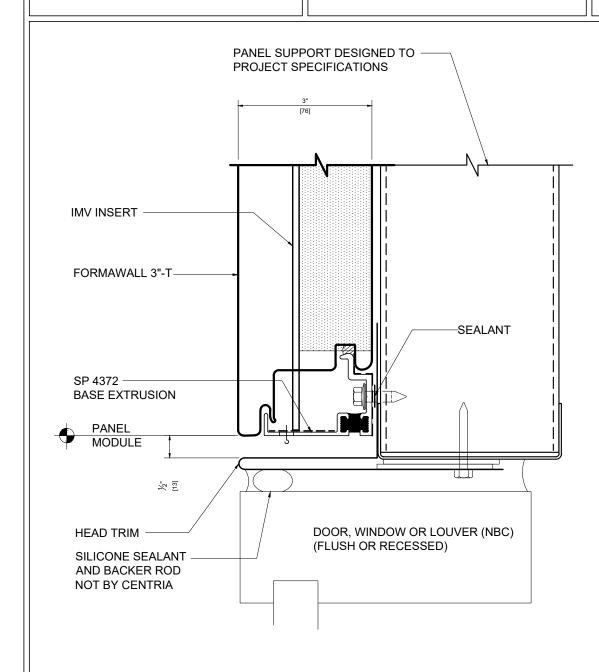
3" - T IMV BASE - AT SLAB -OFF MODULE



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 4



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USED FOR CONSTRUCTION PURPOSES.

NOTE: SEE CENTRIA INTEGRATED WINDOW AND LOUVER DETAIL FOR "TRIMLESS" OPTION.

HORIZONTAL IMV APPLICATION

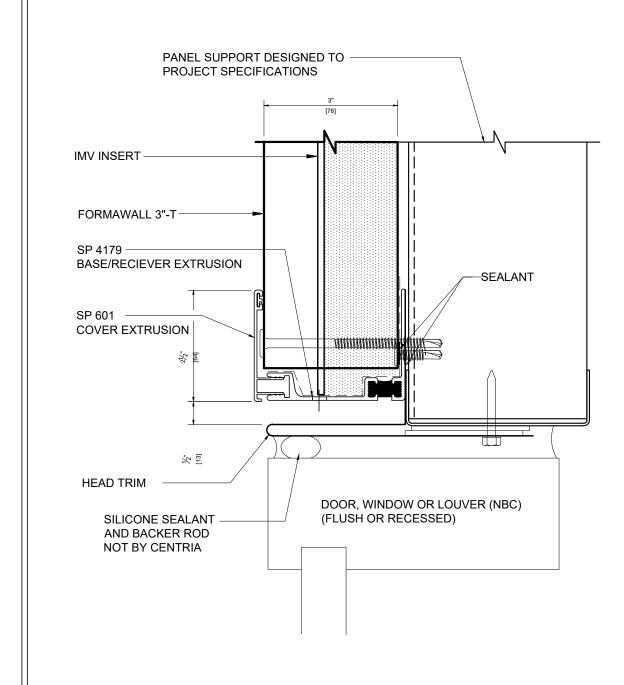
3" - T IMV HEAD ON MODULE



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 4A



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USED FOR CONSTRUCTION PURPOSES.

NOTE: SEE CENTRIA INTEGRATED WINDOW AND LOUVER DETAIL FOR "TRIMLESS" OPTION.

HORIZONTAL IMV APPLICATION

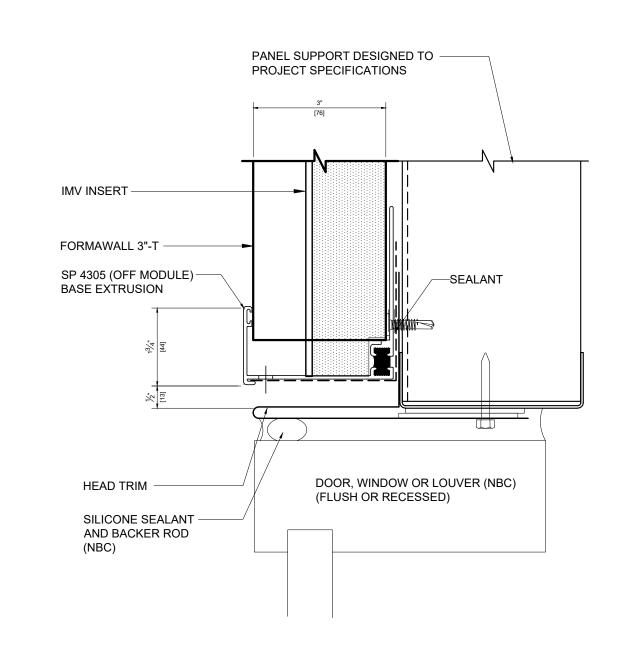
3" - T IMV HEAD - OUT PANEL



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 4B



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USED FOR CONSTRUCTION PURPOSES.

HORIZONTAL IMV APPLICATION

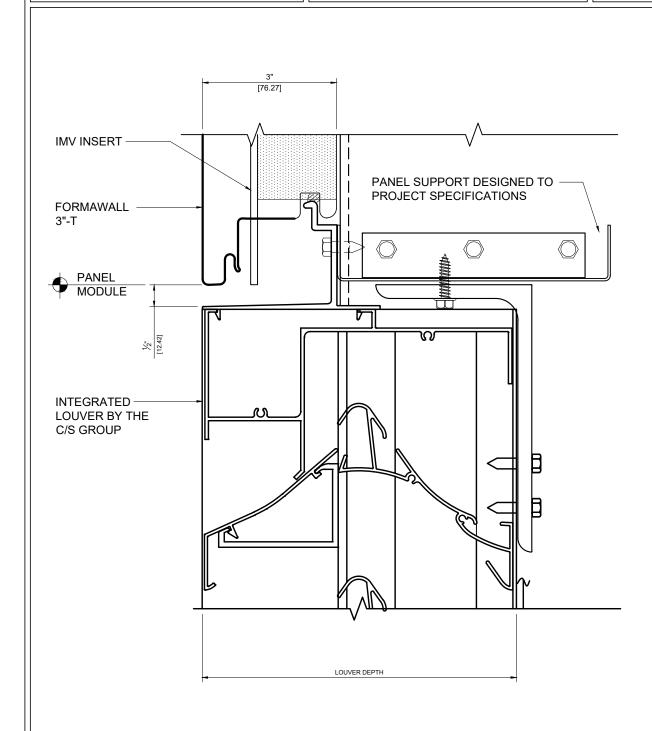
3" - T IMV HEAD - OUTPANEL



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 4C



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USED FOR CONSTRUCTION PURPOSES.

NOTE:

CONTACT CENTRIA FOR INTEGRATED LOUVER OPTIONS, DESIGN MAY CHANGE ON JOB TO JOB BASIS.

HORIZONTAL IMV APPLICATION

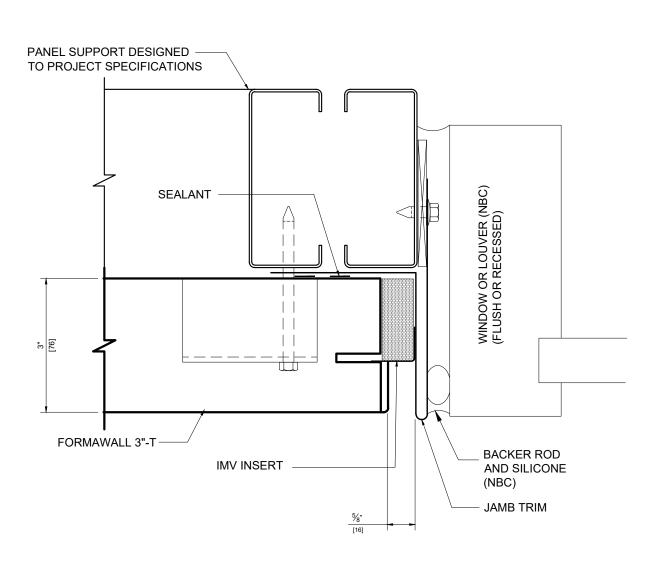
3" - T IMV LOUVER HEAD



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 5



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USED FOR CONSTRUCTION PURPOSES.

HORIZONTAL IMV APPLICATION

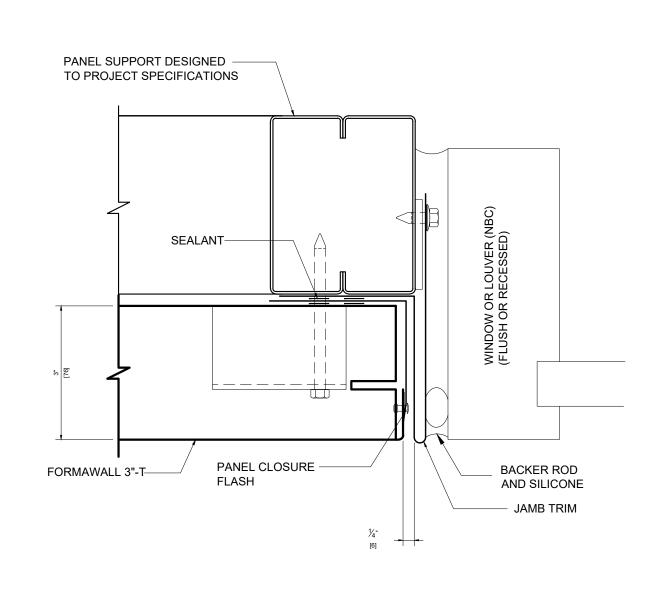
3" - T IMV JAMB



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 5A



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USED FOR CONSTRUCTION PURPOSES.

NOTE: SEE CENTRIA INTEGRATED WINDOW AND LOUVER DETAIL FOR "TRIMLESS" OPTION.

HORIZONTAL IMV APPLICATION

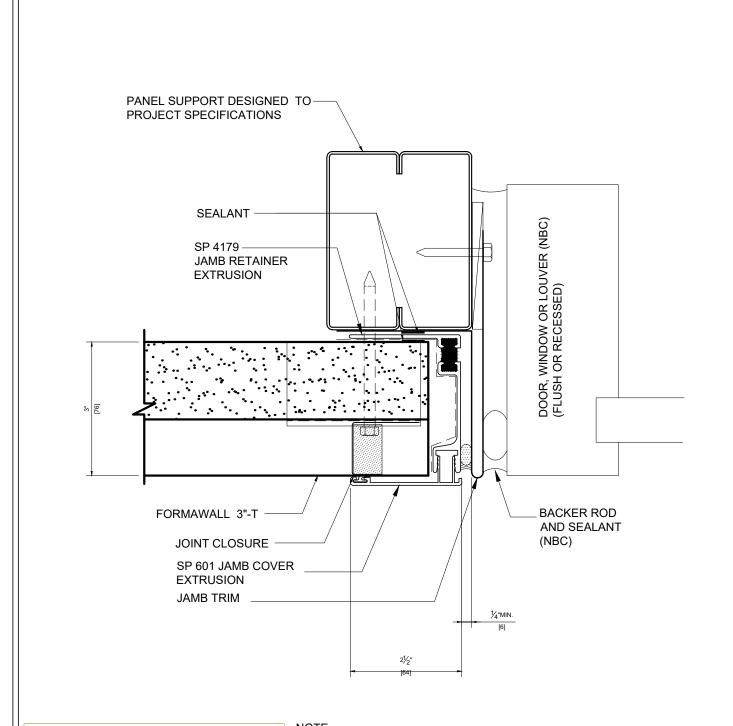
3" - T IMV JAMB



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 5B



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HORIZONTAL IMV APPLICATION

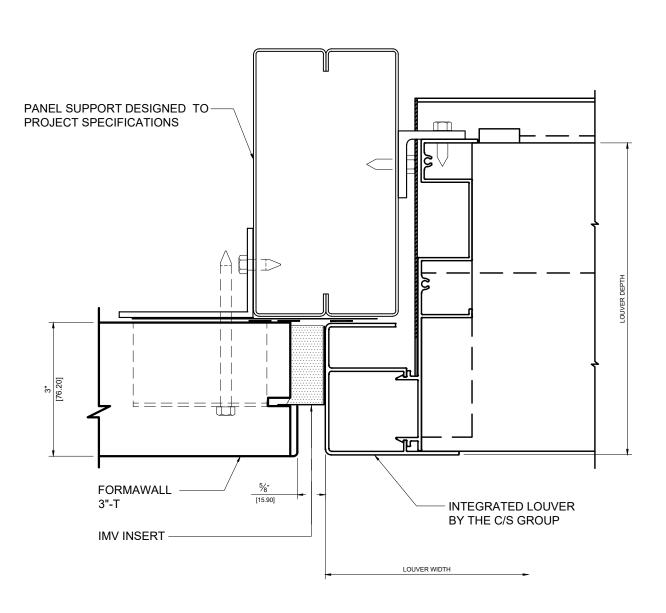
3" - T IMV JAMB - CUT PANEL EXTRUDED



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 5C



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HORIZONTAL IMV APPLICATION

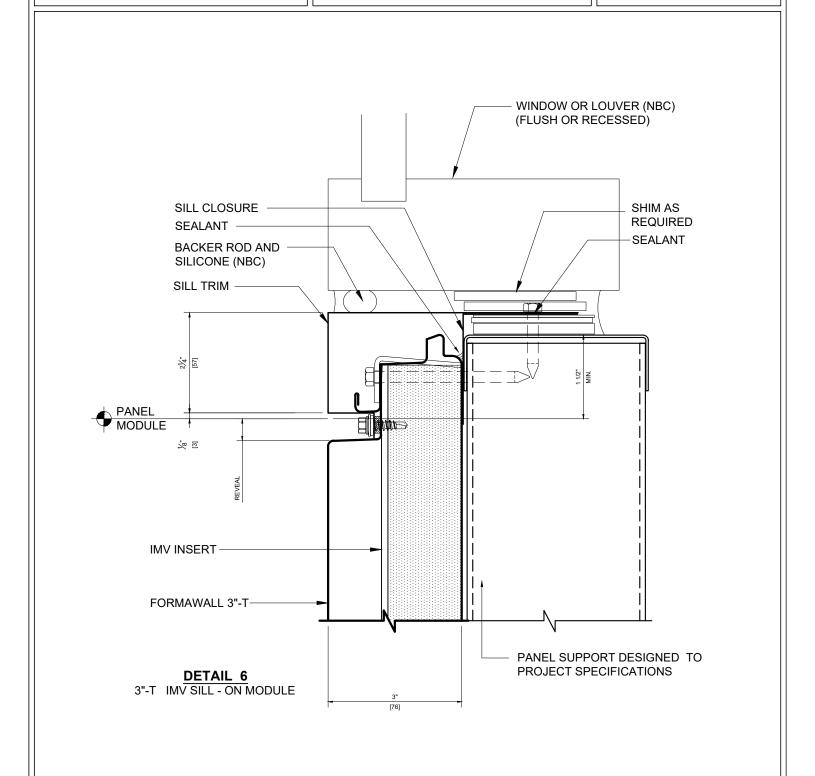
3" - T IMV LOUVER JAMB



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 6



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USED FOR CONSTRUCTION PURPOSES.

NOTE: SEE CENTRIA INTEGRATED WINDOW AND LOUVER DETAIL FOR "TRIMLESS" OPTION.

HORIZONTAL IMV APPLICATION

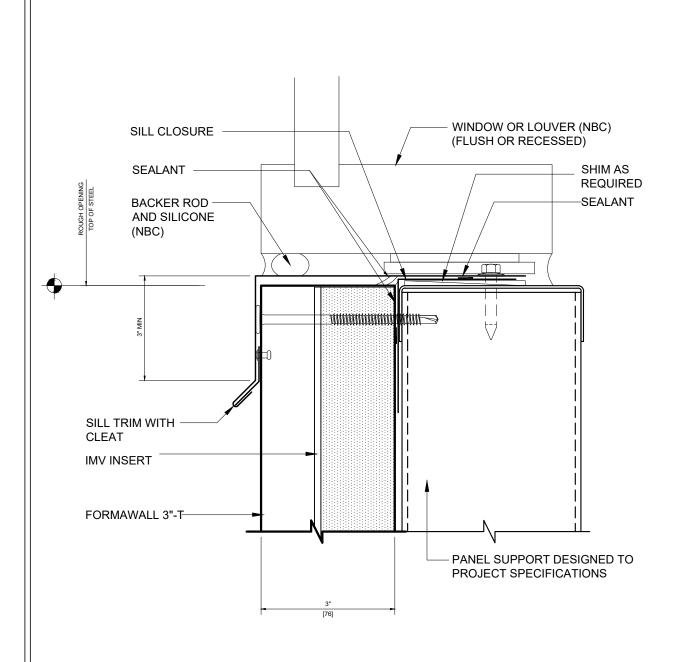
3" - T IMV SILL - ON MODULE



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 6A



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USED FOR CONSTRUCTION PURPOSES.

NOTE: SEE CENTRIA INTEGRATED WINDOW AND LOUVER DETAIL FOR "TRIMLESS" OPTION.

HORIZONTAL IMV APPLICATION

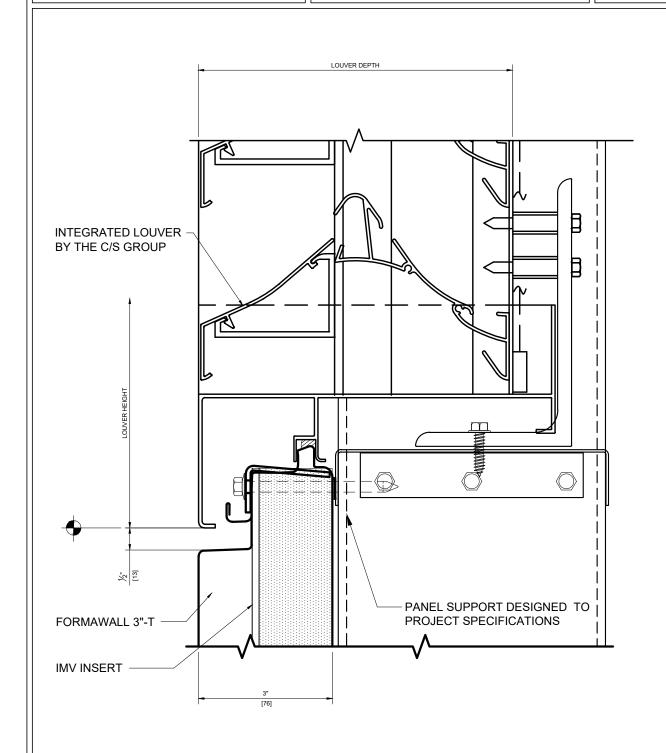
3" - T IMV OFF MODULE SILL



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 6B



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NOTE:

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HORIZONTAL IMV APPLICATION

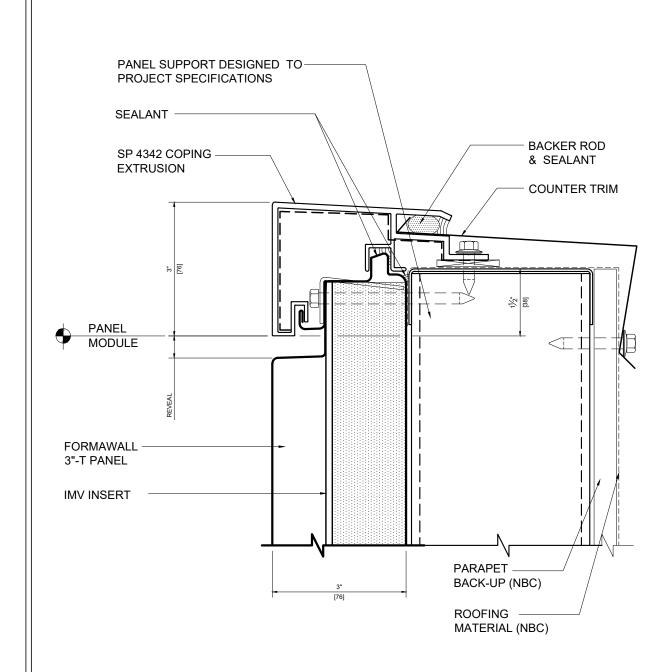
3" - T IMV LOUVER SILL



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 7



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USED FOR CONSTRUCTION PURPOSES.

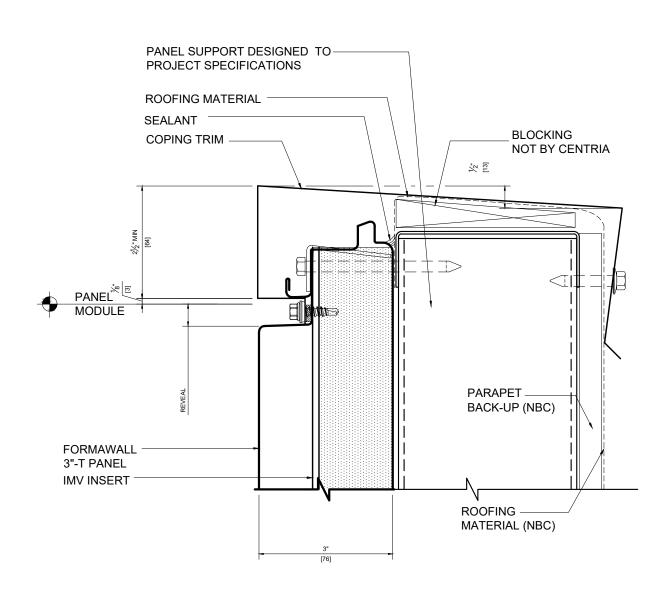
HORIZONTAL IMV APPLICATION

3" - T IMV PARAPET - EXTRUDED



PROMOTIONAL DETAIL:

DETAIL 7A



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HORIZONTAL IMV APPLICATION

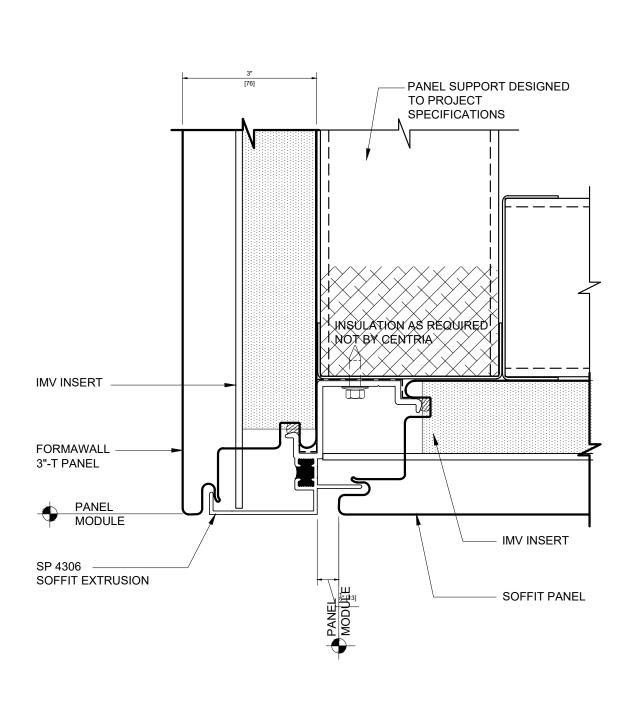
3" - T IMV PARAPET - FORMED METAL



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 8



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USED FOR CONSTRUCTION PURPOSES.

HORIZONTAL IMV APPLICATION

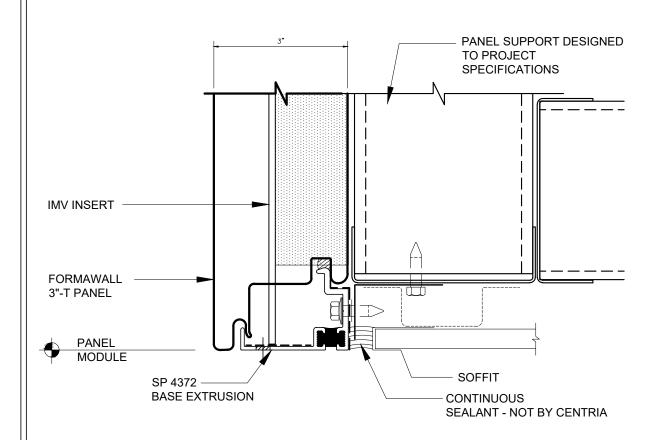
3" T IMV SOFFIT - -FRONT - ON MODULE



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 8A



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USED FOR CONSTRUCTION PURPOSES.

SOFFIT INSULATION AS REQUIRED NOT BY CENTRIA

HORIZONTAL IMV APPLICATION

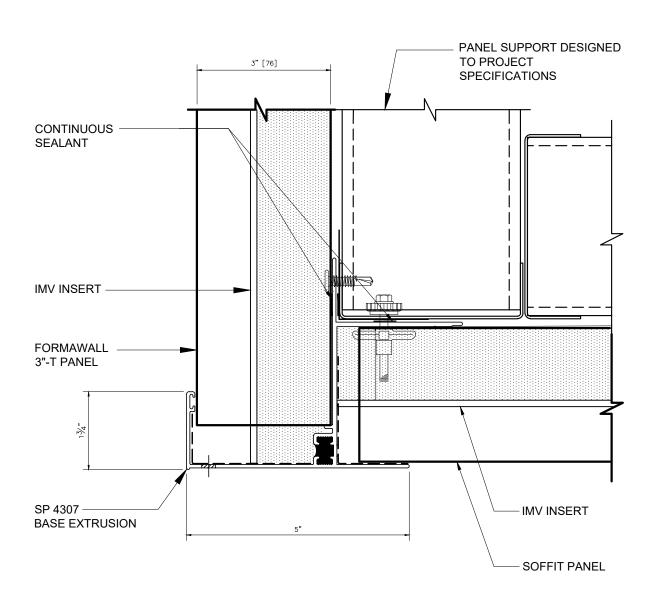
3" - T IMV SOFFIT - FRONT -BY OTHERS



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 8B



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HORIZONTAL IMV APPLICATION

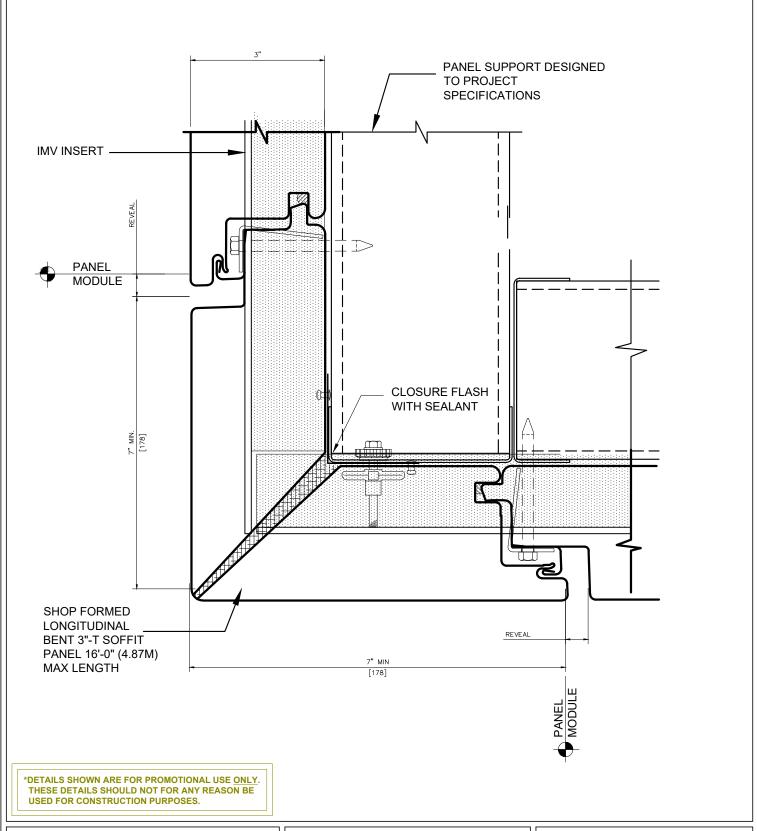
3" - T IMV SOFFIT - FRONT - OFF MODULE



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 8C



HORIZONTAL IMV APPLICATION

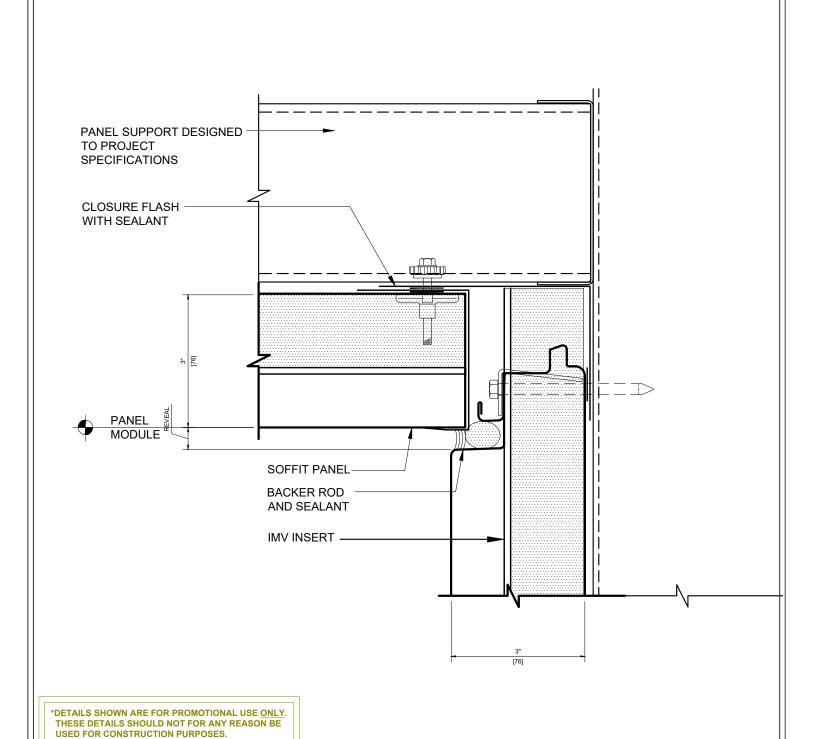
3" - T IMV SOFFIT -BENT PANEL



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 8D



HORIZONTAL IMV APPLICATION

3" - T IMV SOFFIT - REAR

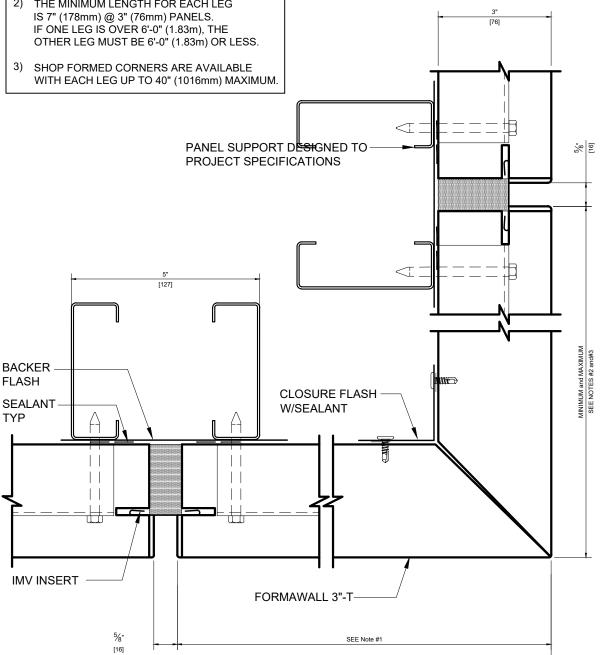


DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 9

- THE MAXIMUM UNSUPPORTED LENGTH FOR EACH LEG IS 3'-0" (.91m).
- 2) THE MINIMUM LENGTH FOR EACH LEG IS 7" (178mm) @ 3" (76mm) PANELS. IF ONE LEG IS OVER 6'-0" (1.83m), THE



*DETAILS SHOWN ARE FOR PROMOTIONAL USE ONLY. THESE DETAILS SHOULD NOT FOR ANY REASON BE **USED FOR CONSTRUCTION PURPOSES.**

HORIZONTAL IMV APPLICATION

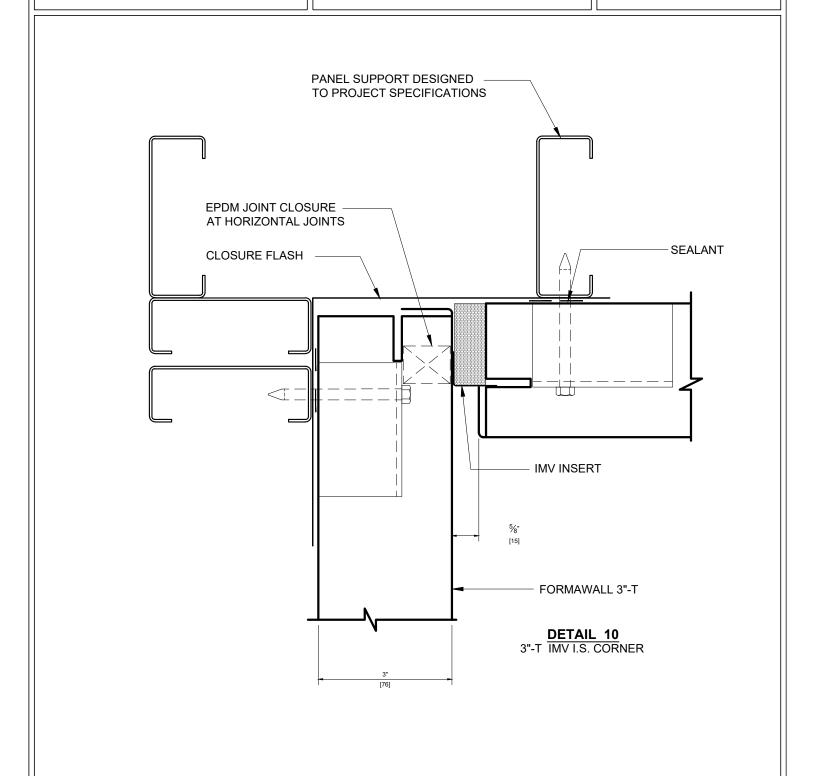
3" - T IMV OS CORNER - SHOP FORMED



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 10



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USED FOR CONSTRUCTION PURPOSES.

HORIZONTAL IMV APPLICATION

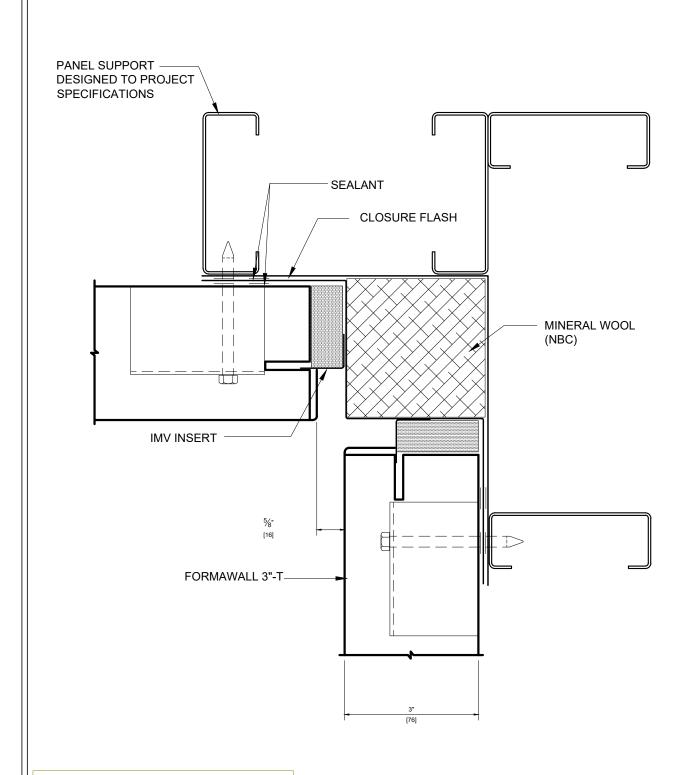
3" T IMV IS CORNER



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 10A



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USED FOR CONSTRUCTION PURPOSES.

NOTE: CONDITION CAN ALSO BE USED WITH FORMAVUE WINDOWS

HORIZONTAL IMV APPLICATION

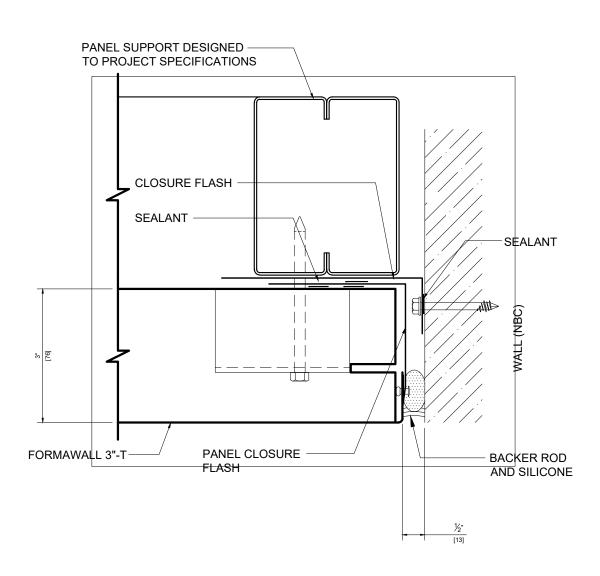
3" -T IMV IS CORNER - WITH INSULATION



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 11



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USED FOR CONSTRUCTION PURPOSES.

HORIZONTAL IMV APPLICATION

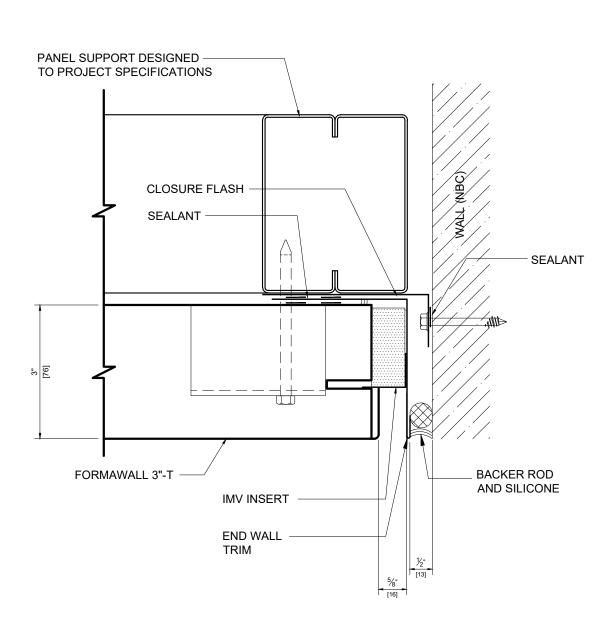
3" - T IMV - END WALL



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 11A



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HORIZONTAL IMV APPLICATION

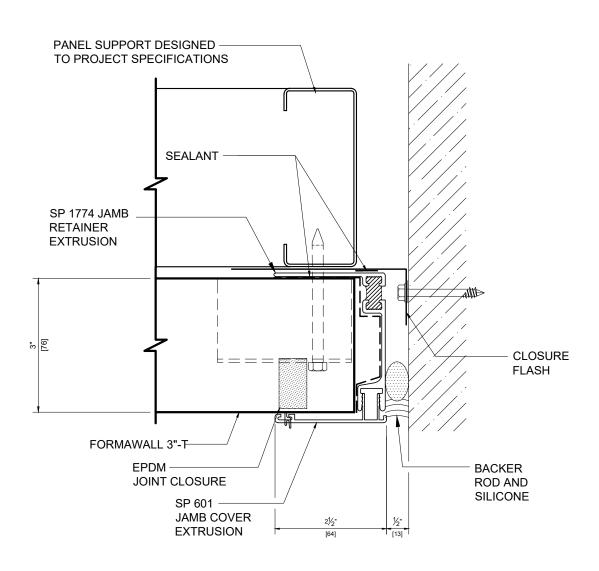
3" - T IMV - END WALL



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 11B



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HORIZONTAL IMV APPLICATION

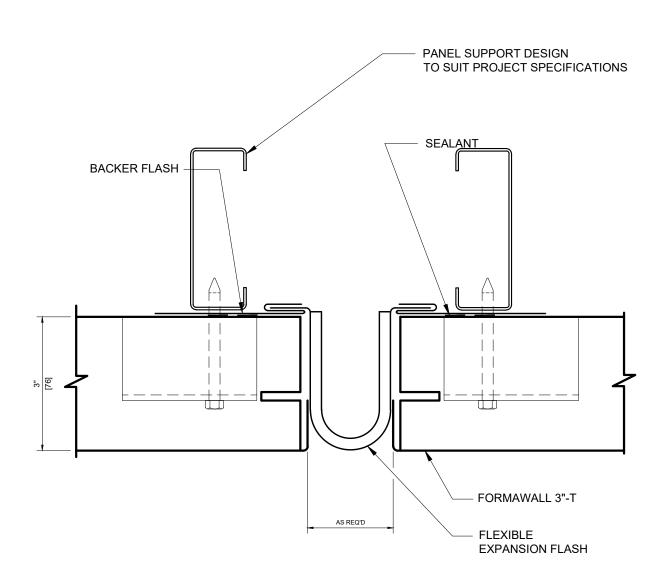
3" - T IMV - END WALL



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 13



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HORIZONTAL IMV APPLICATION

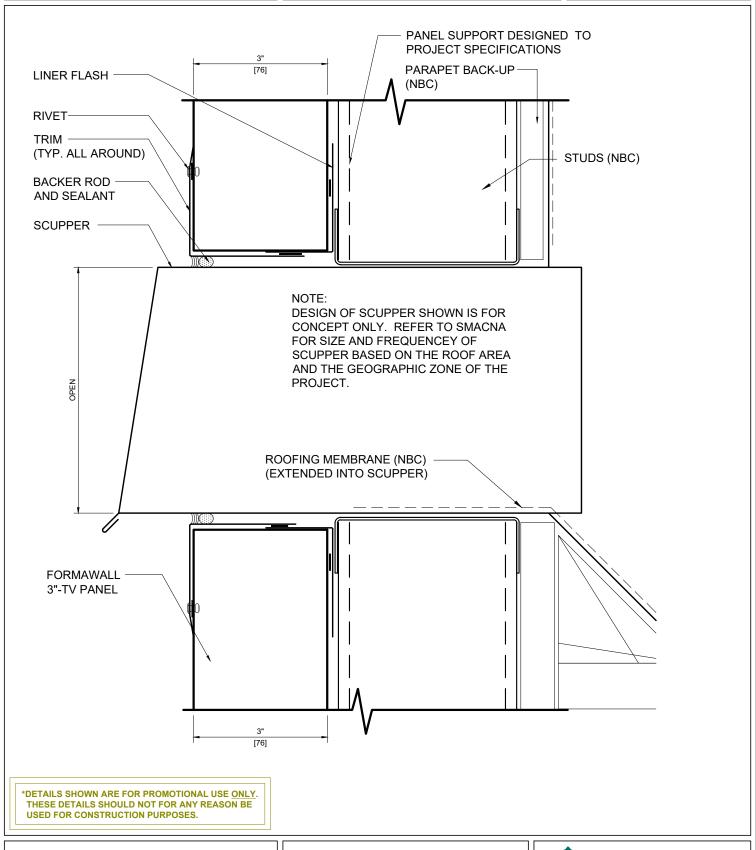
3" - T IMV - EXPANSION JOINT



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 14



HORIZONTAL IMV APPLICATION

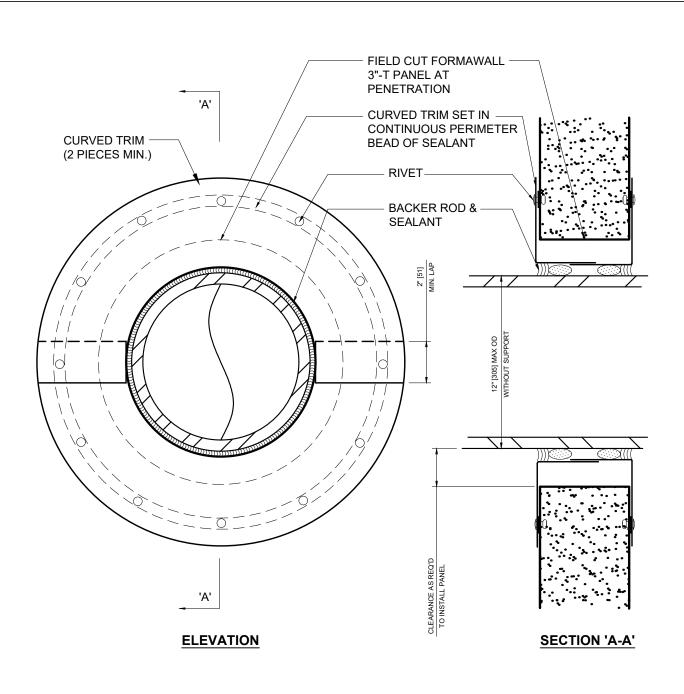
3" - T IMV - SCUPPER



DIMENSION SERIES

PROMOTIONAL DETAIL:

DETAIL 15



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HORIZONTAL IMV APPLICATION

PIPE PENETRATION





Innovative Rooftop Screens

Attractive, code-compliant and long lasting, Envisor equipment screens offer affordable, elegant, customized screening solutions that blend into the overall design, all with no rooftop penetration. Our patented roof screen system provides practical solutions for municipal screening requirements of HVAC units, chillers, air handlers, power exhausts, roof stacks and communication equipment. You name it, we can screen it!

- Zero Rooftop Penetration
- ABS or Metal
- Sliding Panels for Easy Service Access





THE LEADING ROOF SCREEN CHOICE OF ARCHITECTS, BUILDING OWNERS AND CONTRACTORS FOR MORE THAN 20 YEARS.







DESIGN OPTIONS

Envisor screens are the perfect alternative to parapet walls and they satisfy even the strictest screening code requirements. Both styles feature our patented attachment method, which secures our screens directly to the equipment with no rooftop penetration. Post mounted option is also available. Screen heights are available to shield virtually anything you desire.



PANEL STYLES

Panels are available in ten standard styles, allowing you to match or coordinate with the building design. The panels are constructed of thermoformed, high-impact ABS with a co-extruded UV protective layer on both sides or choose one of our metal series options in a variety of thicknesses and finishes. The panels are held firmly in place using a rust-free, double tracked aluminum rail system. This enables the panels to slide side-to-side for easy access to the unit during servicing and maintenance.

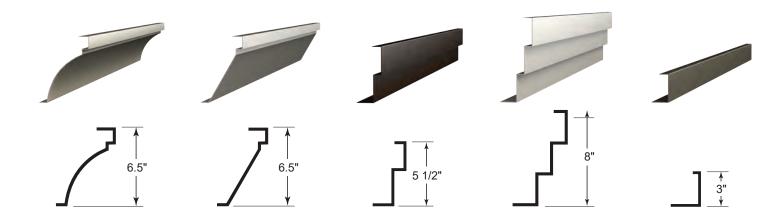
PAN



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TOP TRIM STYLES

OPTIONAL — Decorative top trim options offer the flexibility to further customize the elegant appearance of the screens by picking up building design elements and incorporating those details into the screen. Although optional, they offer one more way to make screens part of the design, not part of the problem. *Prices vary by style*.



COLORS

Our designer colors complement most architectural applications, but don't let standard colors limit your creativity. We have the ability to match any cross-referenced color specifications. Send us samples to match. We've even matched a color to a rock! Colors are approximations. Please call for actual samples.

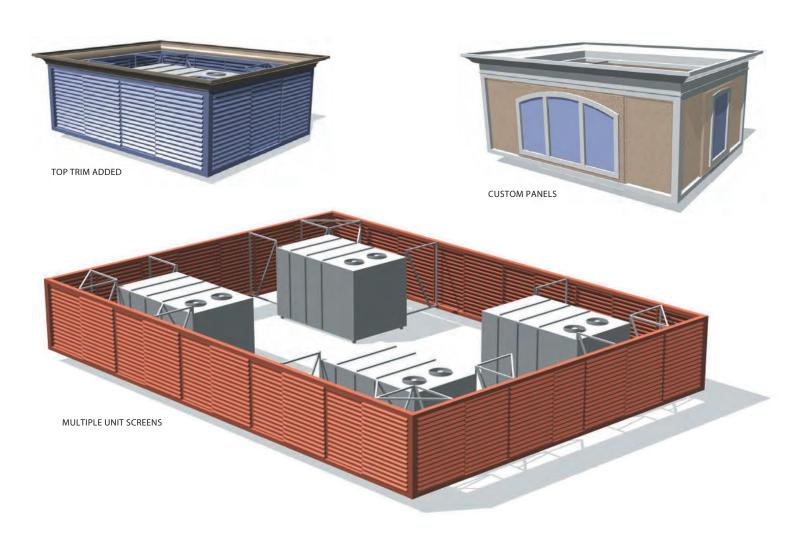


Need a custom color? Provide a Sherwin Williams or PMS code and we can color match.



CUSTOM SOLUTIONS

Envisor equipment screens can be manufactured in a limitless combination of shapes and configurations to help reduce cost, add to the aesthetics of a building or both. Let us design one for you! Just tell us the equipment manufacturer, the model numbers and any special requirements you might have. *Additional costs may apply.



Call **(877) 727-3367** today or visit our website at **cityscapesinc.com**.











THE COMPLETE SOLUTION

We get it. You're busy. We want you to be able to focus on the parts of your project that matter most to you. That's why we provide each customer with a project manager — a single point of contact. Tell us what you need and we'll coordinate everything from design and engineering to manufacturing and installation so you can spend your time on more important things.



architectural innovations

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