



December 3, 2018

Exterior Material Selections

For



New Hudson Middle School

Hudson City School District
77 N. Oviatt Street
Hudson, Ohio 44236

COLUMN COVERS AND BALUSTRADE

PLASTERFORM™ GFRC

Glass Fiber Reinforced Concrete



Plasterform™ GFRC columns and pilaster



Plasterform™ GFRC is a lightweight portland cement composite material reinforced with glass fibers that is an economical alternative to precast concrete.

KEY SELECTION ATTRIBUTES

- Cast into any shape or compound curve
- Weighs only 6-8 lbs. per square foot (castings may vary)
- Low maintenance
- 12 standard colors, two paint-grade natural finishes, and custom colors available
- Engineered to reduce installation time and cost
- Exterior and interior use

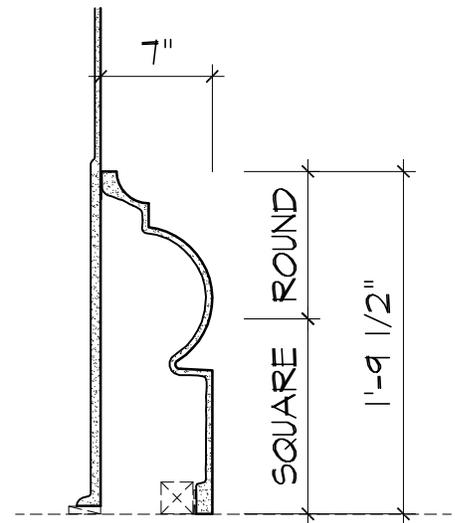
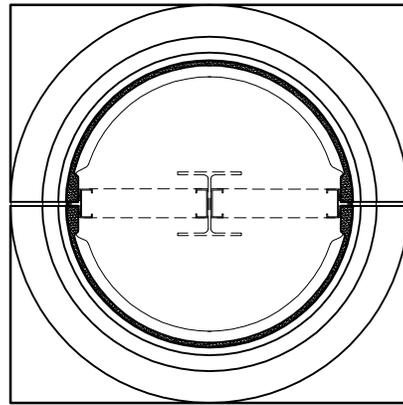
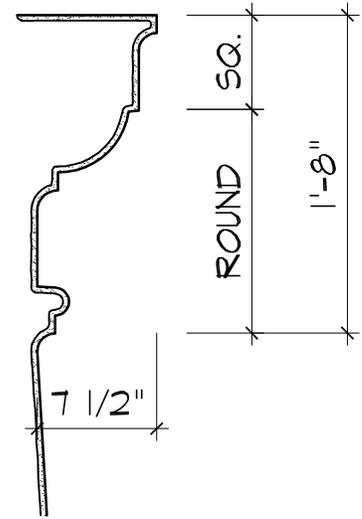
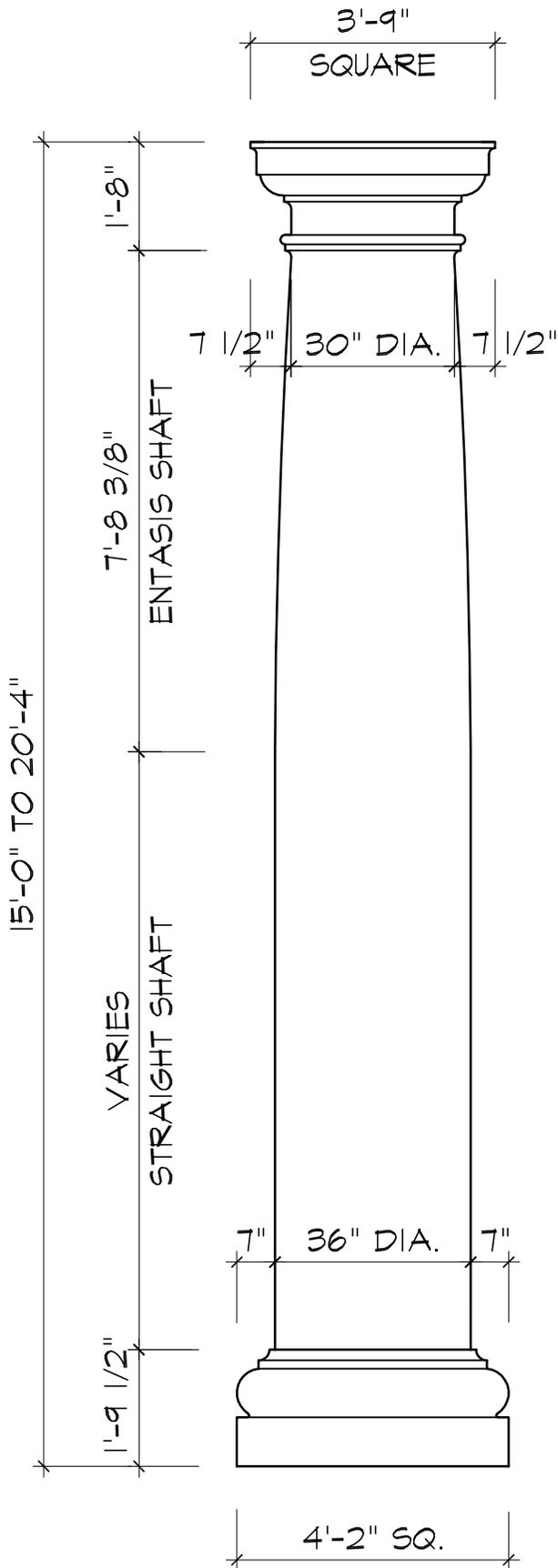
TYPICAL APPLICATIONS

- Columns
- Cornices
- Friezes
- Ceiling & Wall Panels
- Domes
- Finials
- Pediments
- Balustrades
- Rainscreens
- Historical Restoration

COLORS GFRC castings can be field painted to achieve any desired color. Due to printing limitations, shade may vary from actual product.

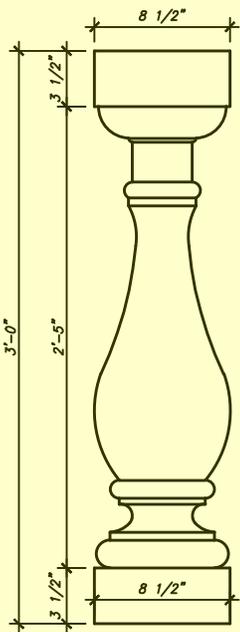


Main Entry Columns



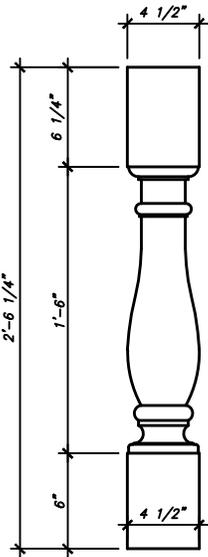
Balustrade

NOTE: ALL BALUSTERS CAN BE HEIGHT ADJUSTED $\pm 3"$ BASED ON THE NEEDS OF THE PROJECT



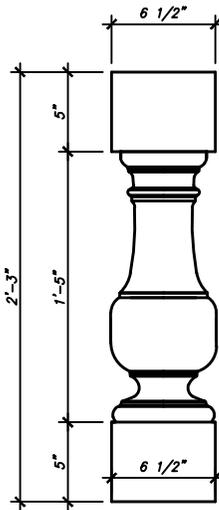
BS-110

USE WITH RAIL RT-130, RT-140, or RT-150.



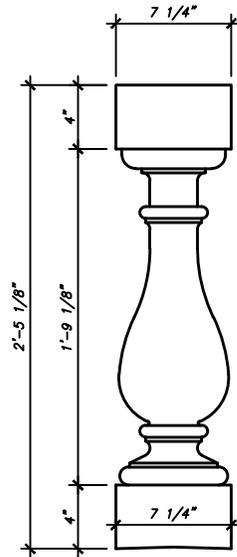
BS-120

USE WITH RAIL RT-110, RT-120, RT-160, RT-170, RT-180, RT-190, or RT-200.



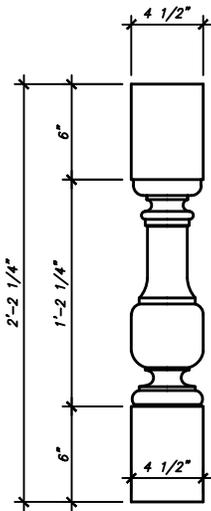
BS-130

USE WITH RAIL RT-130, RT-140, RT-150, RT-170, or RT-190.



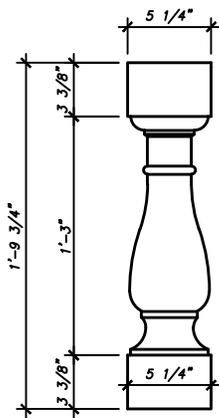
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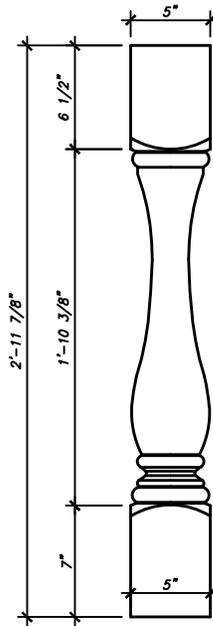
BS-150

USE WITH RAIL RT-110, RT-120, RT-160, RT-170, RT-180, RT-190, or RT-200.



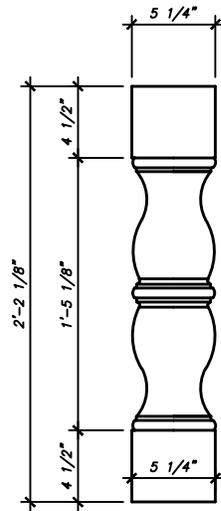
BS-160

USE WITH RAIL RT-110, RT-120, RT-150, RT-170, RT-180, or RT-190.



BS-170

USE WITH RAIL RT-110, RT-120, RT-150, RT-170, RT-180, RT-190, or RT-200.



BS-180

USE WITH RAIL RT-110, RT-120, RT-150, RT-170, RT-180, or RT-190.

BALUSTRADES

BALUSTERS

SHEET NO.

B-01

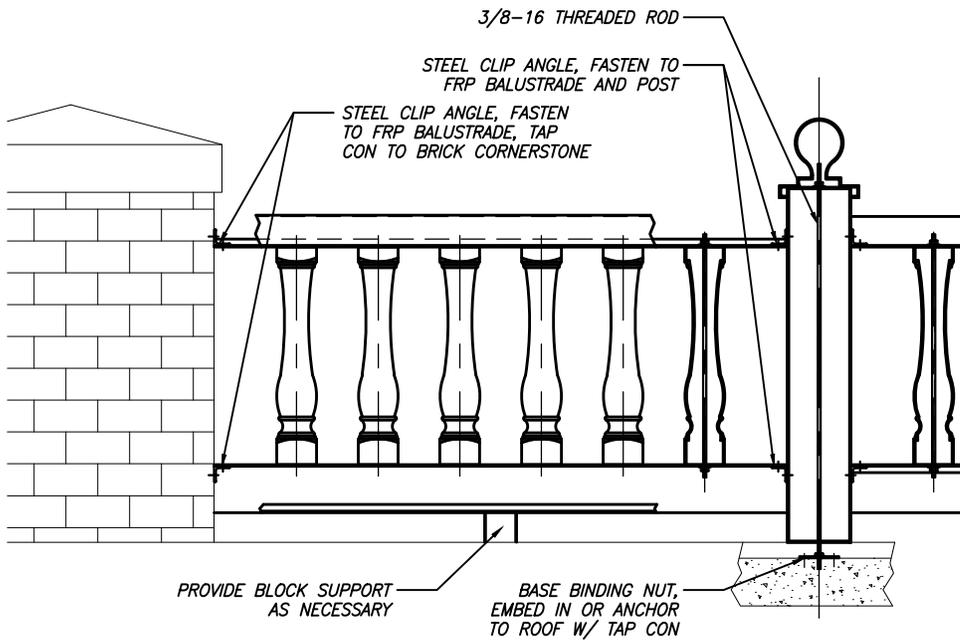
2013



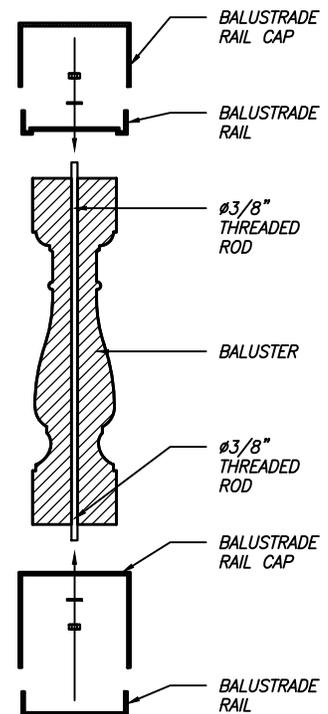
ARCHITECTURAL FIBERGLASS, INC.

8300 BESSEMER AVE., CLEVELAND, OHIO 44127-1839
(216) 641-8300 - FAX:(216) 641-8150
www.fiberglass-afi.com

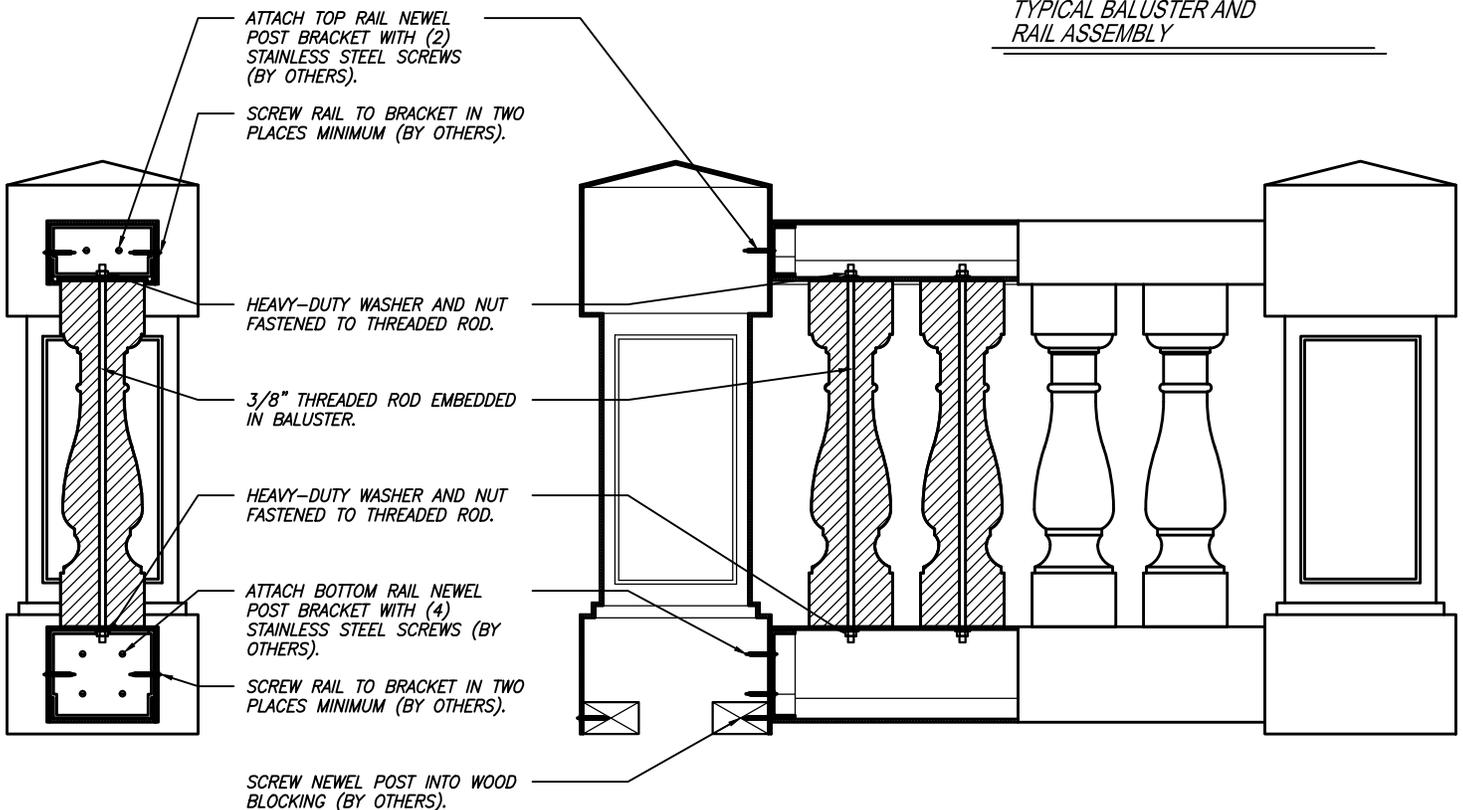
Balustrade



BALUSTRADE INSTALLATION - OPTION 1



TYPICAL BALUSTER AND RAIL ASSEMBLY



BALUSTRADE INSTALLATION - OPTION 2

BALUSTRADES

SHEET NO.

SD-01

2013

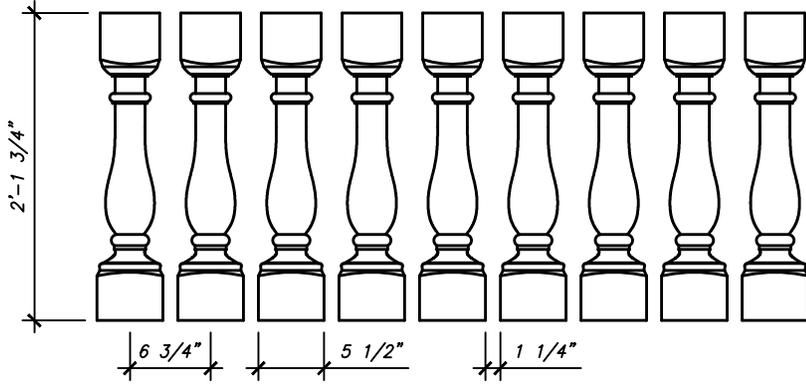
INSTALLATION



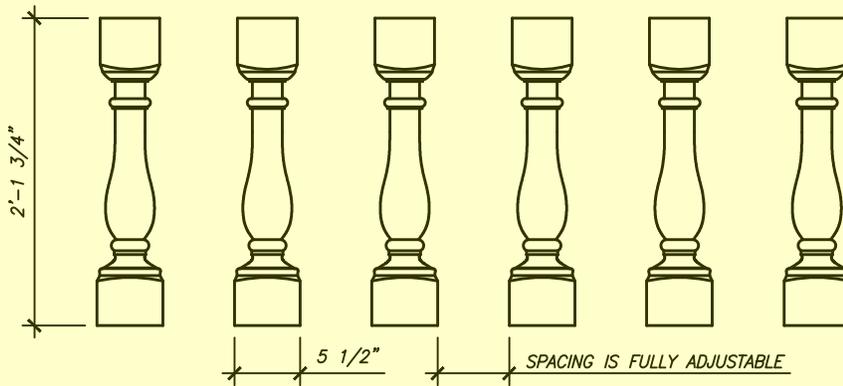
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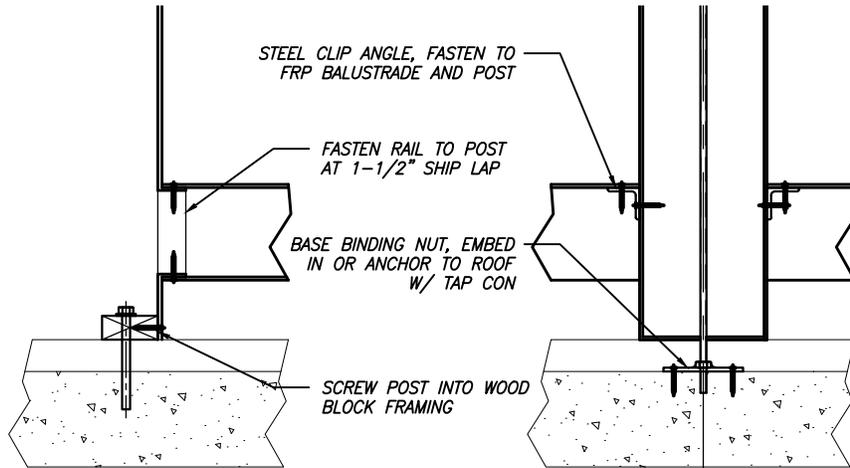
Balustrade



OPTION 1 - 4" SPHERE CODE SPACING



OPTION 2 - SPACING NOT TO CODE



NEWEL POST ATTACHMENT DETAILS

BALUSTRADES

SHEET NO.

SD-02

2013

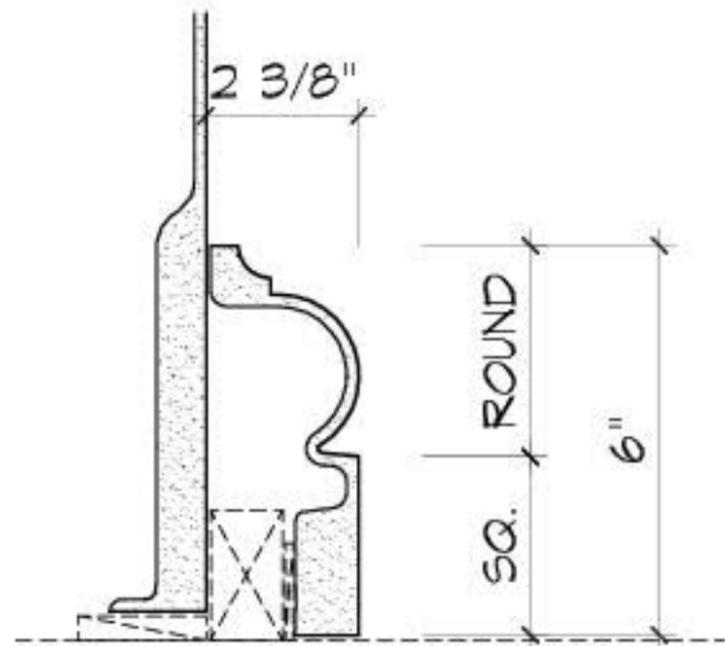
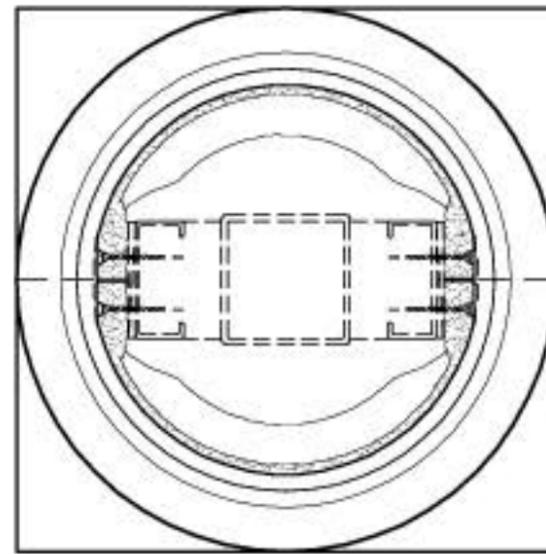
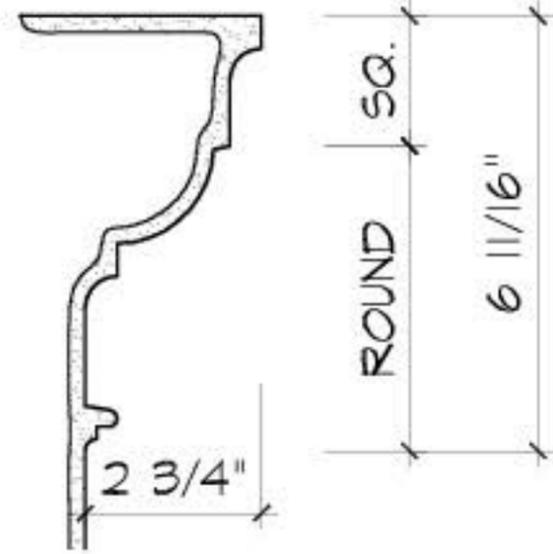
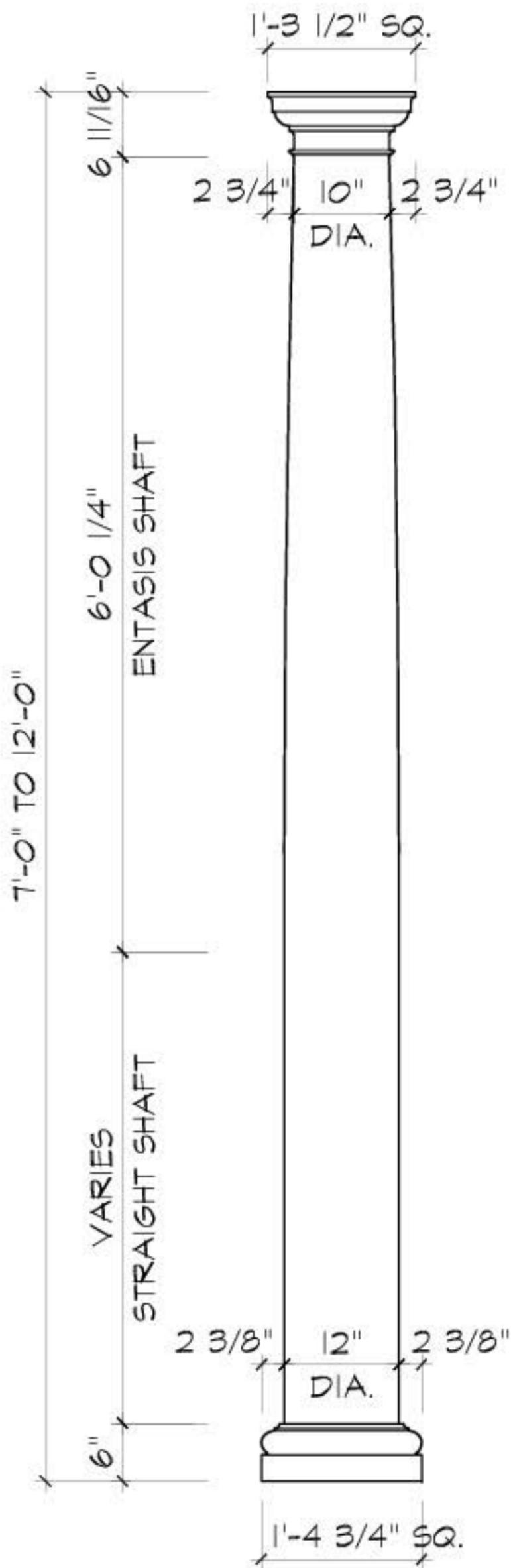
INSTALLATION



ARCHITECTURAL FIBERGLASS, INC.

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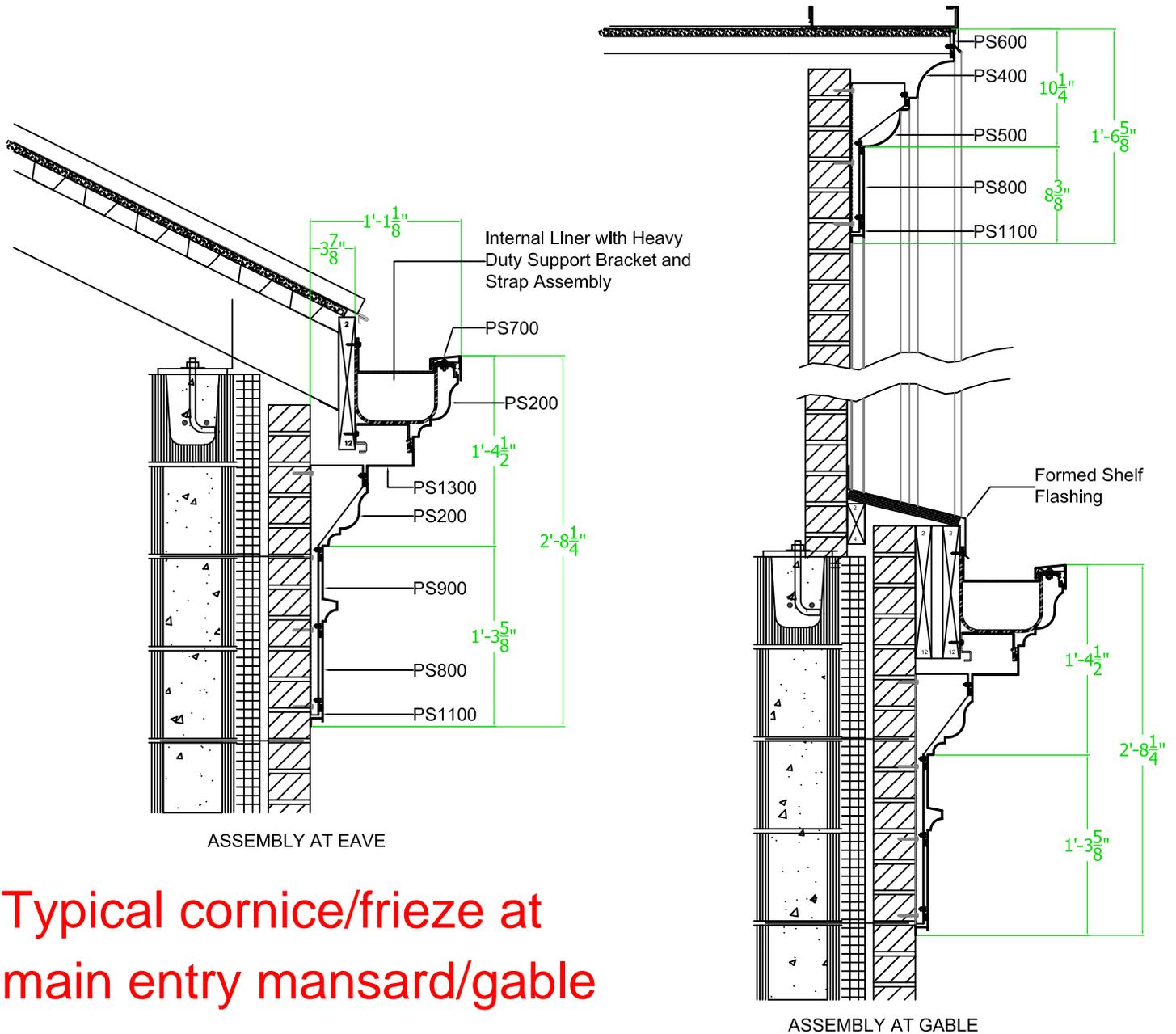
Phys. Ed Entry Canopy Columns, half-rounds on face of building



CORNICE SYSTEMS, PARAPET TRIM DETAILS



Designer Series Extruded Cornice System
Cornice Design 1EX



**Typical cornice/frieze at
 main entry mansard/gable**

Designer Series Extruded Cornice System: These commercial extruded cornice systems are based on our pre-designed formed cornice designs but with extruded profiles. Cornice trims, including radius sculptured shapes, extensions, friezes, and sills, are 0.085" - 6063-T5 extruded aluminum and are supplied in 10' lengths. Joints receive concealed extruded aluminum splices or formed where needed. If required, mounting gussets are furnished at 24" - 30" centers. Gussets replace conventional framing methods and are designed to allow the cornice to freely expand and contract. Cornice profiles are fastened to the gusset system with stainless steel, type 304, #10-24 x 0.75" machine screws with nylon core hex lock nuts. VHB assist / isolator tape is to be installed at fastening locations to separate the dissimilar metals.

Customer:

Project:

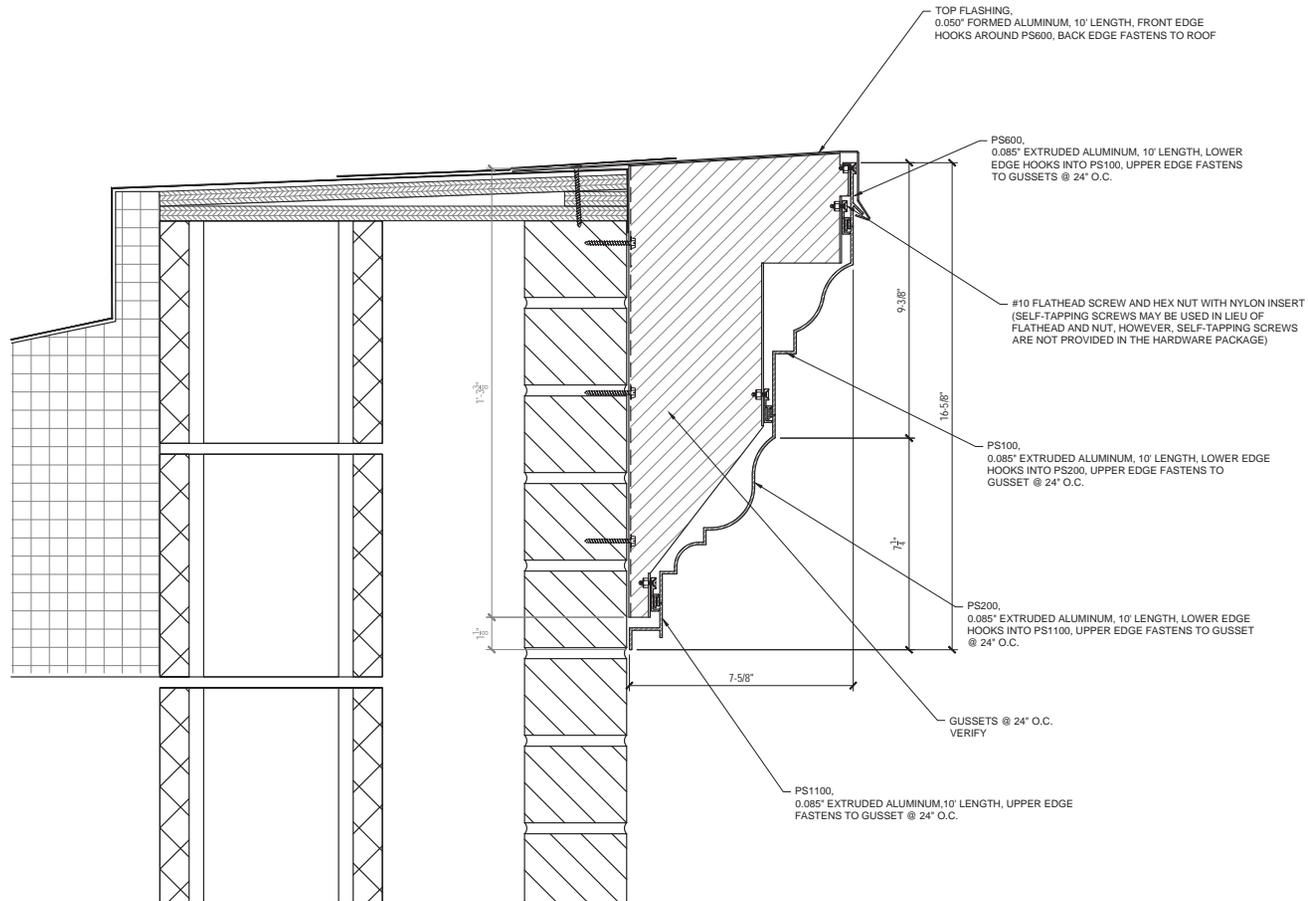
Address:

Location:

Phone / Fax:

Architect:

Typical cornice at parapets



01 TYPICAL CORNICE SECTION
3.02 6" = 1'-0"

REVISIONS	

S&E Metal Fabrication
 8370 HIGHWAY 78
 VILLA RICA, GA 30180
 PHONE: (770) 942-1207
 FAX: (877) 948-4759
 WWW.S&E.MFG.COM

ARCHITECT
 TheDesignArchitecture
 Willoughby, OH

CUSTOMER
 Willoughby Supply
 Mentor, OH

PROJECT
 NORTH OLMSTEAD 6-12
 SCHOOL
 NORTH OLMSTEAD, OH

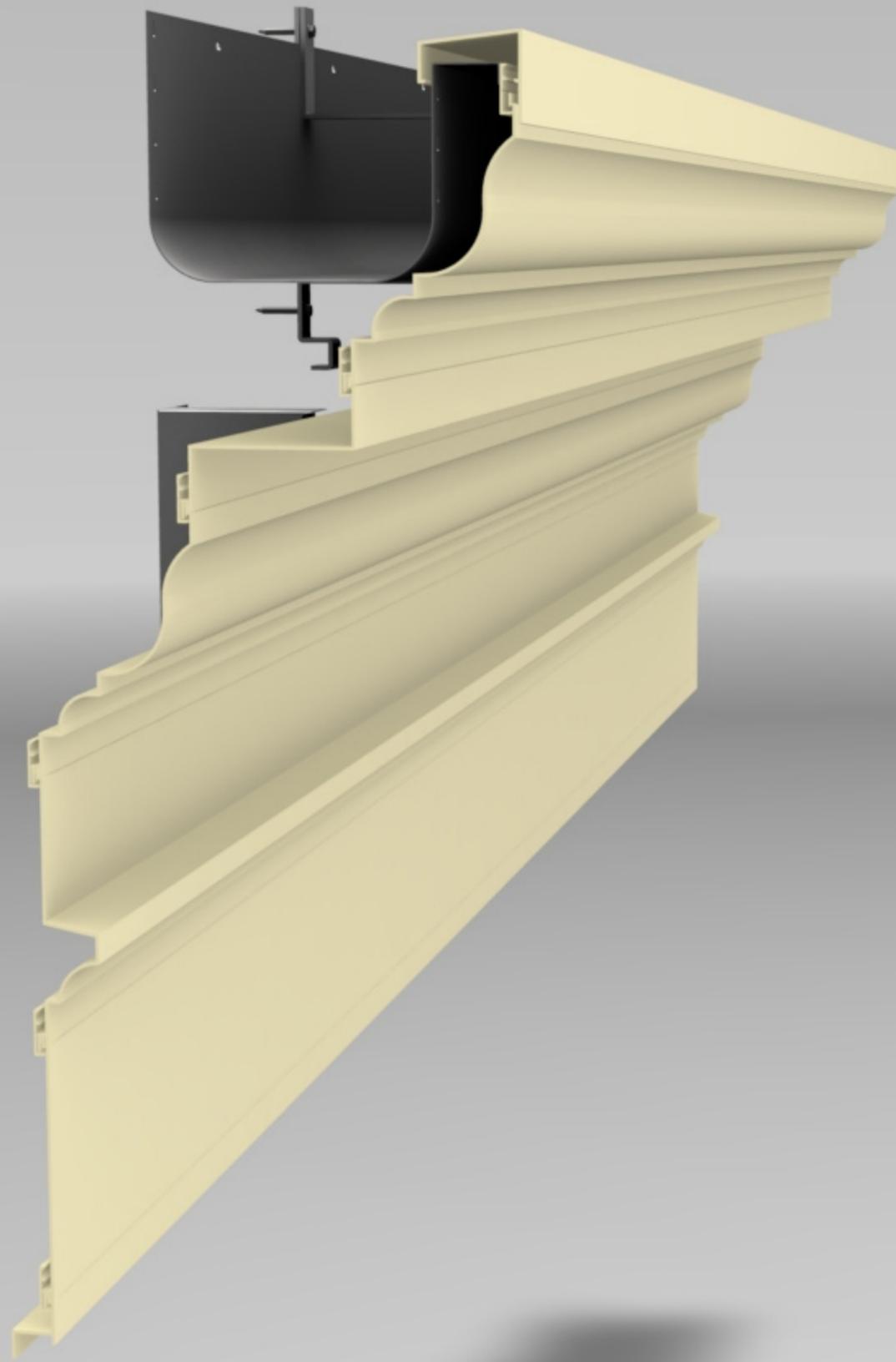
JOB NUMBER
68085
DRAWN BY TDD
DATE 12 NOV 2016
DRAWING TITLE
SECTIONS
DRAWING NUMBER
3.02





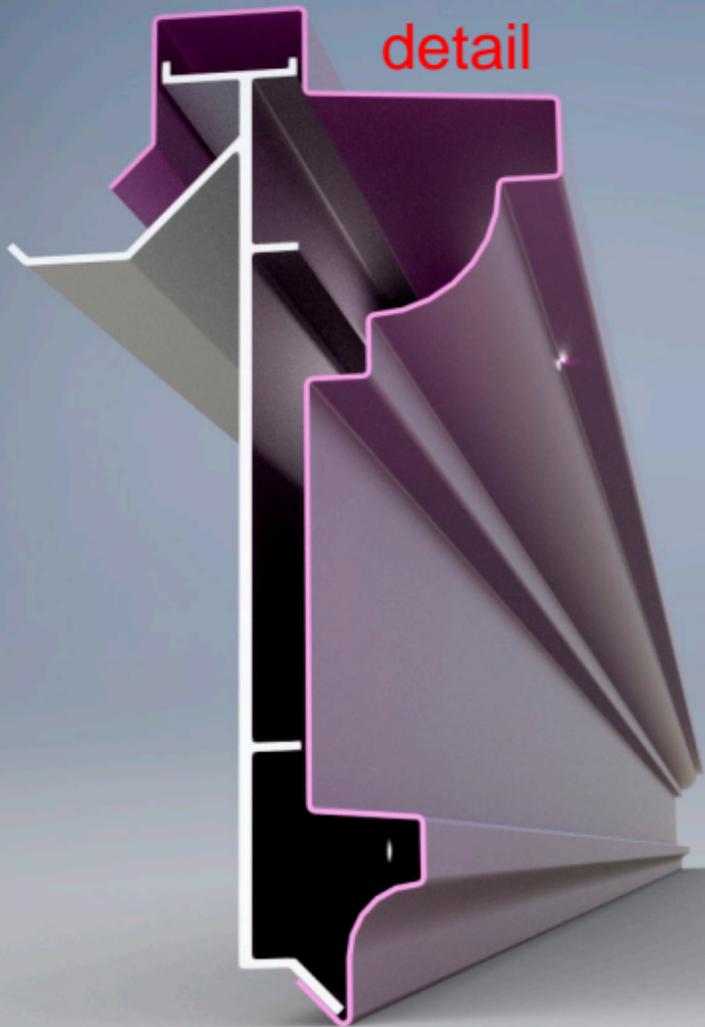
HANCOCK COUNTY JUDICIAL CENTER





Gutter/cornice
profile at mansard/
entry gable

Low Parapet edge detail





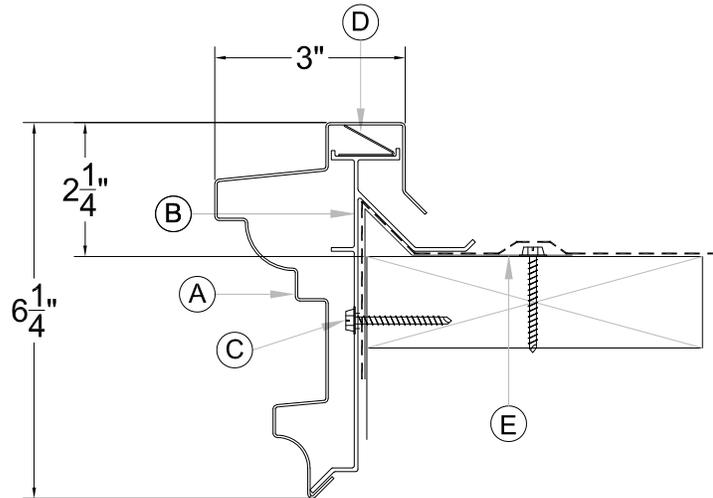
SUBMITTAL / DATA SHEET

Designer Series Press-Loc Gravel Stop

Crown Collection

6" Model PLGS.CC1-6

Low parapet edge detail



Legend:

- A: Snap-on Decorative Fascia, 10' lengths. Joint treatment consists of a 3/8" expansion reveal and 4" wide concealed splice plate.
- B: Extruded Aluminum Secure Bar, 10' Length
- C: #12 x 1.5" S.S. Wood Screws @ 12" centers
- D: Stainless Steel Tension Clips @ 24" centers
- E: Metal Edging by Installer

Material Options

Metal	Coping
Aluminum	
0.040	<input type="checkbox"/>
0.050	<input type="checkbox"/>
0.063	<input type="checkbox"/>
0.080	<input type="checkbox"/>
0.090	<input type="checkbox"/>
0.125	
0.1875	
0.250	
Copper	
16 oz	<input type="checkbox"/>
20 oz	<input type="checkbox"/>
32 oz	<input type="checkbox"/>

Finish Options

Finish	Coping
EZ Mix Kynar	<input type="checkbox"/>
Custom Kynar	<input type="checkbox"/>
Anodized	<input type="checkbox"/>
Mill Finish	<input type="checkbox"/>

Similar to the Standard Press-Loc Gravel Stop
Model PLGS-6.0 tested to meet
ANSI/SPRI/FM 4435/ES-1 and RE-2
Standard Requirements

Designer Series Press-Loc Gravel Stop, Model PLGS.CC1-6: Press-Loc is designed to accommodate the rigid performance criteria of today's advanced roofing systems. It doesn't matter if your roof membrane is E.P.D.M., Thermoplastic, Modified Bitumen, or a Built-up Roof, Press-Loc fits them all. Press-Loc allows you to install your metal edging to be flashed in accordance with your membrane manufacturer's specifications. The Secure Bar profile fully encapsulates your membrane ensuring a watertight and leakproof edge. Press-Loc's unique and simple design make installation fast and economical, while giving you a leak-proof gravel stop edge that is extremely resistant to wind uplift.

(Other Materials are Available upon Request)

*(Default Selections are **BOLD**)*

Customer:

Project:

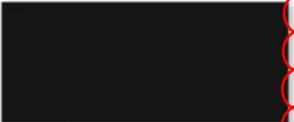
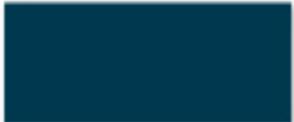
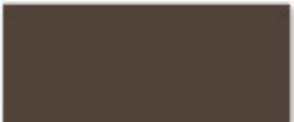
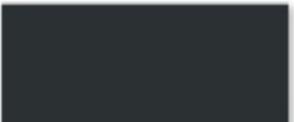
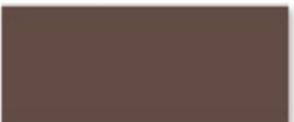
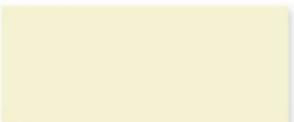
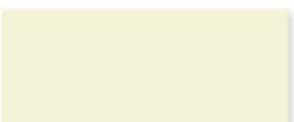
Address:

Location:

Phone / Fax:

Architect:

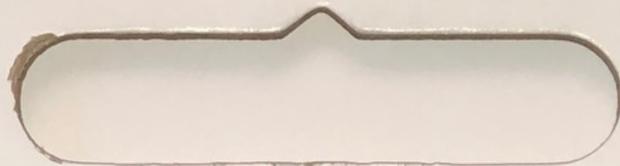
CORNICES, FRIEZE, COPINGS

RED TONES	BLUE TONES	GREEN TONES	BROWN TONES	BRONZE TONES	GRAY BLACK TONES	WHITE TONES
 Rose	 Regal	 Hartford	 Classic Brown	 Dark Bronze	 Black	 Bone White
 Terra Cotta	 Royal	 Edwardian	 Cocoa	 Classic Bronze	 Charcoal	 Ascot
 Hazel	 Wedge	 Forest	 Mocha	 Rocky	 Quaker	 Regal
 Sorrel	 Military	 Jungle	 Sahara	 Patrician Bronze	 Yorktown	 Polar
 Brick	 Legacy	 Sea Green	 Taupe	 Granger	 Stone	 Marble
 Colonial Red (Premium Pricing)	 Capri	 Olive	 Burnt Almond	 Brown Bronze	 Green Gray	 Pearl
 Rust	 Harbor	 Patina	 Pueblo	 Amber	 Portland	 Bon Jour
 Brandy	 Aqua	 Spring Hill	 Sandstone	 Roman Bronze	 Cement	 Birch

56 EZ MIX COLORS

BRICK/CAST STONE

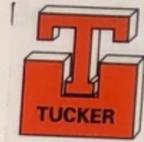
EST. 1929
BOWERSTON
OHIO QUALITY BRICK
BURGUNDY BLEND
MODULAR



BRICK TYPE 1
4" X 4" X 12"

BRICK TYPE 2
4" X 4" X 8"

Bowerston Plant



W. L. TUCKER SUPPLY CO. 2921
2800 Second Street
Cuyahoga Falls, OH 44221-1993

FBE Certified

Phone: 330.928.2155
Fax: 330.928.3688 Online: wltucker.com
Serving The Construction Industry Since 1915



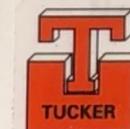
EST. 1929
BOWERSTON
OHIO QUALITY BRICK

HARBOUR COLLECTION:
HARVEST BLEND
MODULAR

BRICK TYPE 1
4" X 4" X 12"

BRICK TYPE 2
4" X 4" X 8"

Hanover Plant



W. L. TUCKER SUPPLY CO. 33-3921
2800 Second Street
Cuyahoga Falls, OH 44221-1993

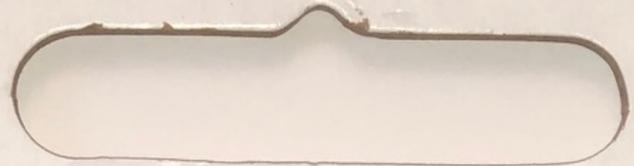
FBE Certified

Phone: 330.928.2155

Fax: 330.928.3688 Online: wltucker.com

Serving The Construction Industry Since 1915





Cedarville Full Flash
Modular

BRICK TYPE 1
4" X 4" X 12"

BRICK TYPE 2
4" X 4" X 8"

BEACHWOOD
27750 Chagrin Blvd.
Cleveland, OH 44122
T (216) 831-9116
F (216) 831-6805

THE
THOMAS BRICK
COMPANY
BRICK ♦ STONE ♦ TILE

WESTLAKE
975 Crocker Road
Westlake, OH 44145
T (440) 892-9400
F (440) 892-9401

www.thomasbrick.com



BRICK TYPE 1
4" X 4" X 12"

BRICK TYPE 2
4" X 4" X 8"



BRICK TYPE 3
8" X 4" X 16"

THE
THOMAS BRICK
COMPANY
BRICK ♦ STONE ♦ TILE
27750 Chagrin Blvd. Cleveland, OH 44122
T (216) 831-9116 F (216) 831-6805
www.thomasbrick.com E info@thomasbrick.com

Glen-Gery Brick

Tuscan Series
W181 Dolomite Grey
Modular

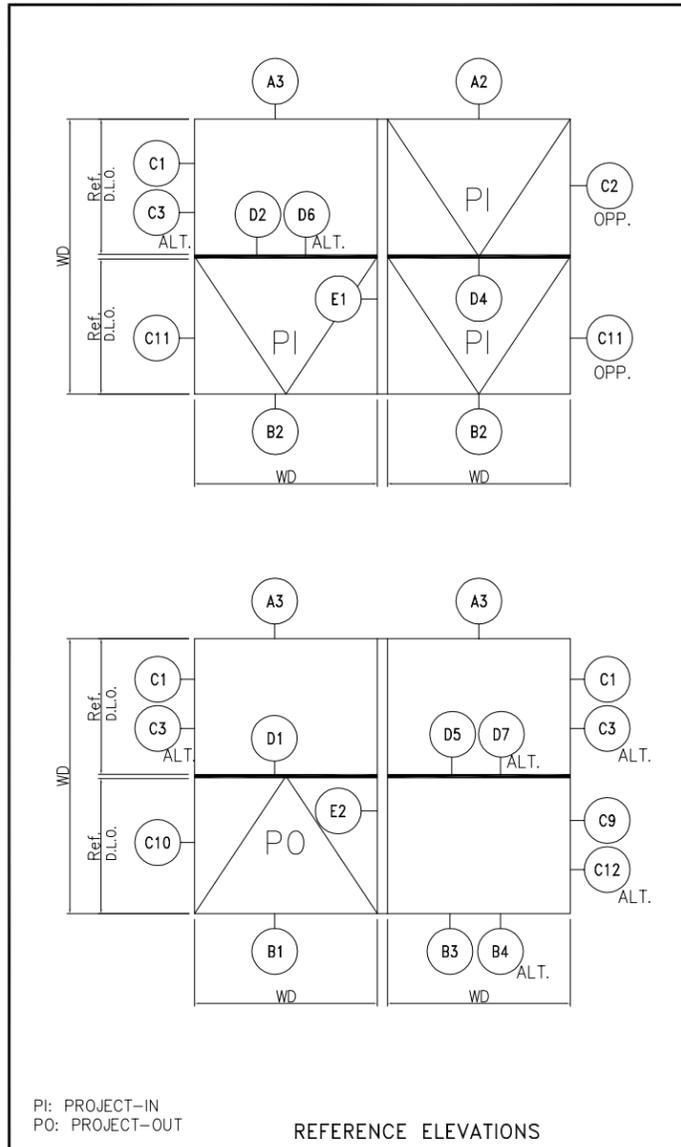




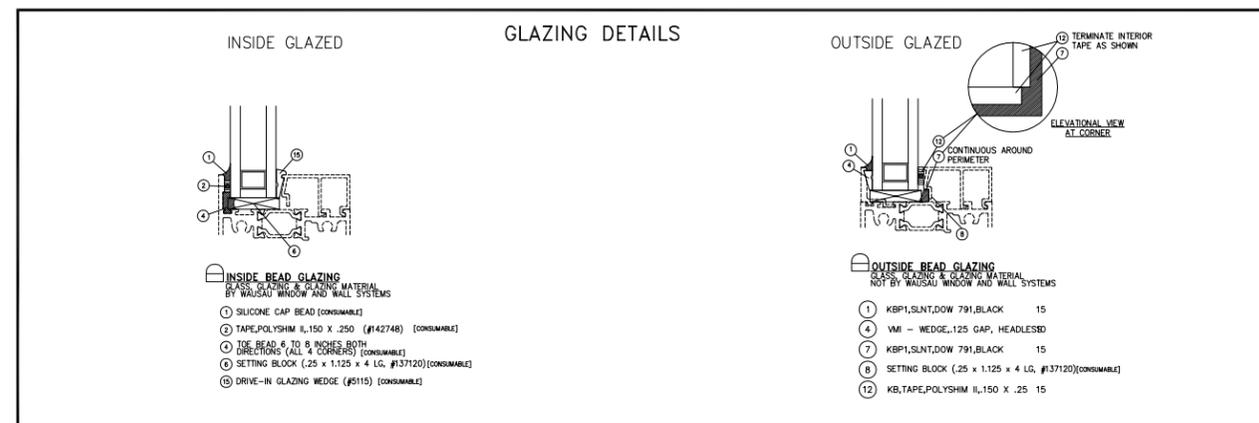
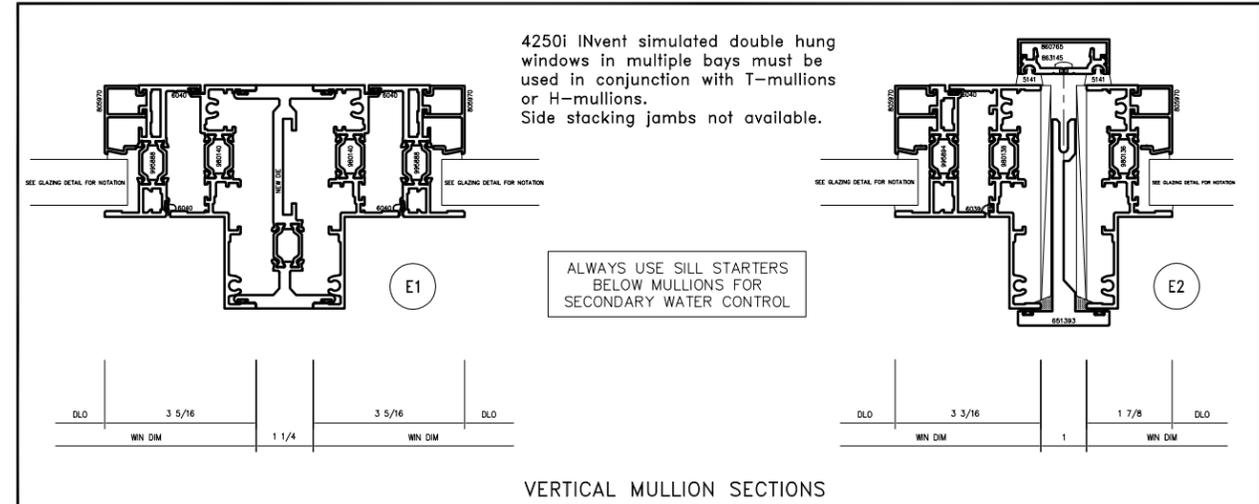
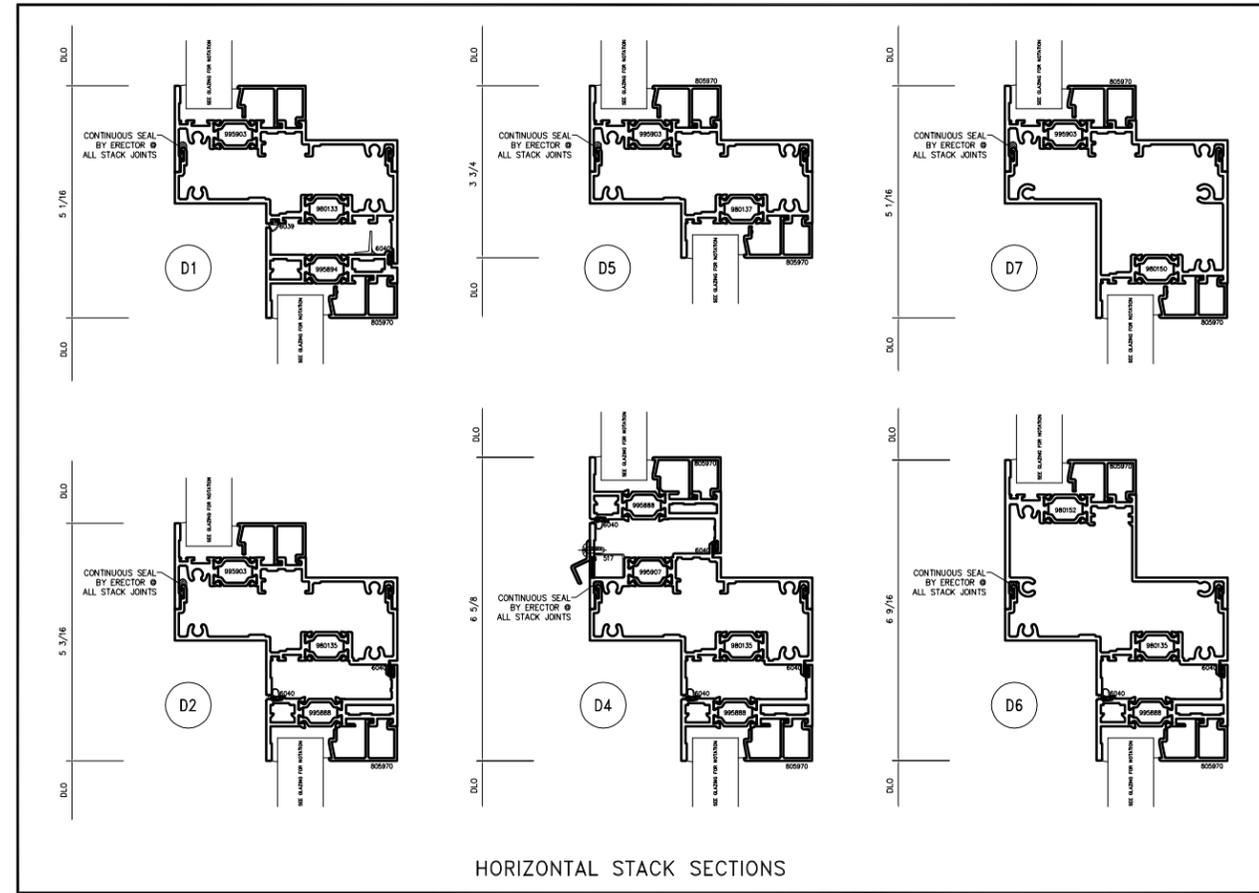
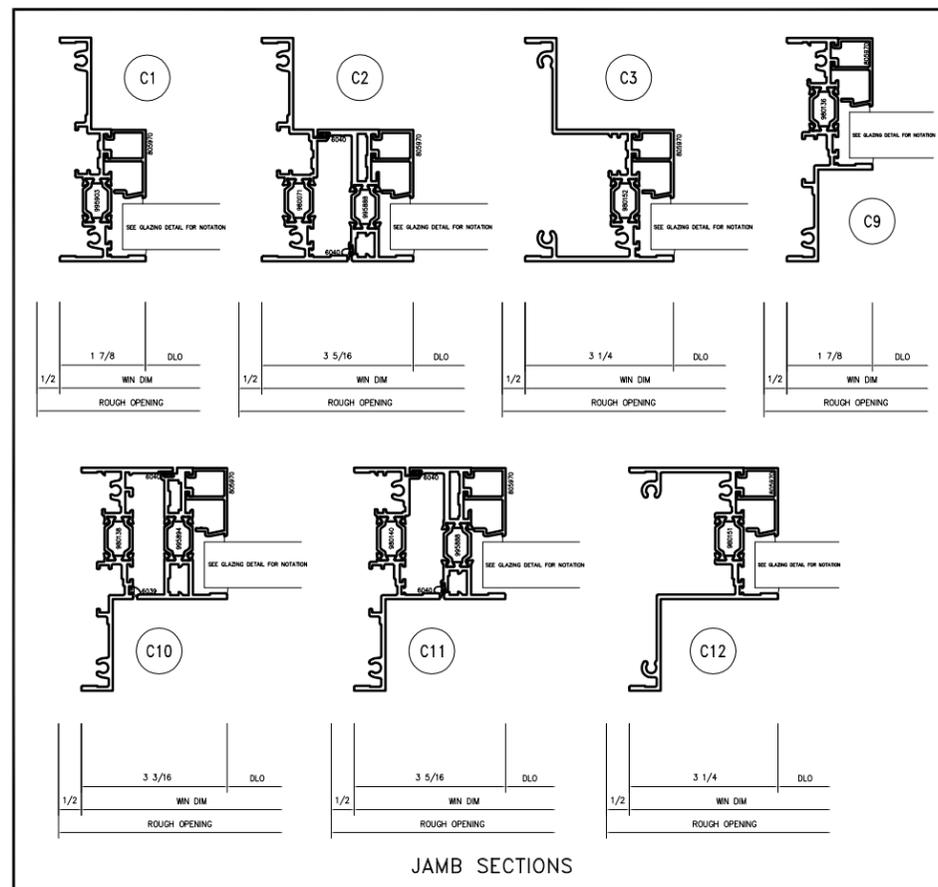
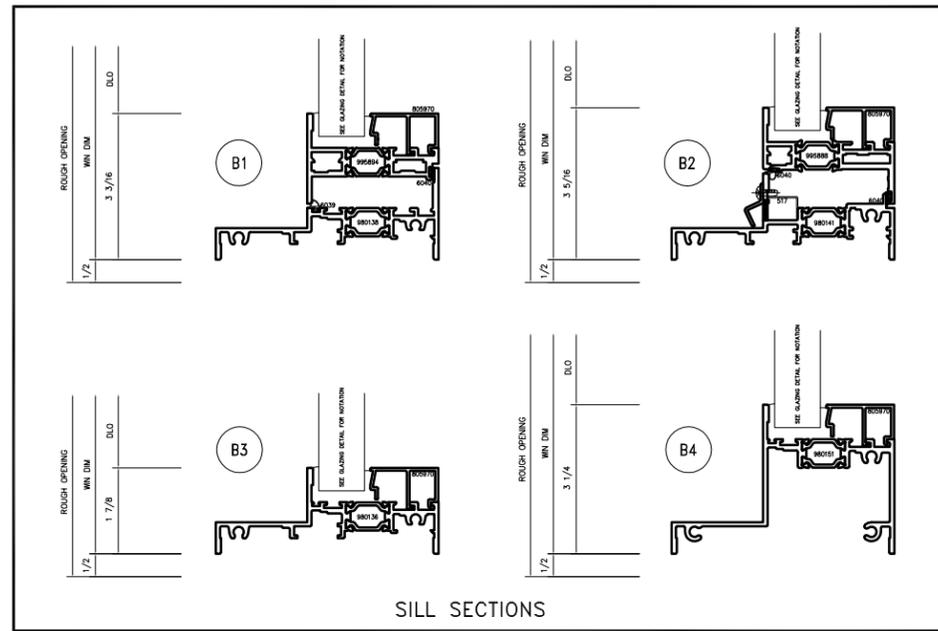
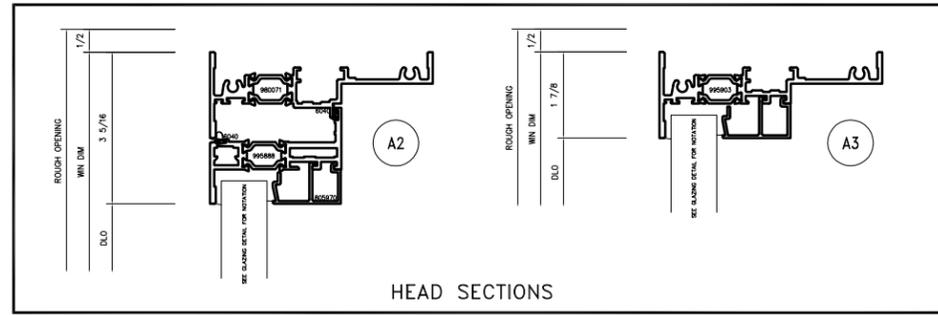
CAST STONE (SILLS, BANDING) SIMILAR TO ROCKCAST
"BUFFSTONE GP-A"



WINDOWS



- NOTES:
- SIZE LIMITATIONS
 - OPERABLE LITES: MAXIMUM AWNINGS & HOPPERS 60" w X 36" h.
 - FIXED TOP LITES: MAXIMUM 60" w X 36" h.
 - FIXED BOTTOM LITES: MAXIMUM 60" w X 84" h.
 - HARDWARE INFORMATION
 - S.S. 4-BAR HINGE, CAMS, KEEPERS, ROTO'S, LIMIT STOPS.
 - 5/8" OR 1" BLINDS INSTALLED BY WAUSAU,
 - AIR & WATER INFILTRATION
 - .1 cfm/ft @ 6.24 psf (vents)
 - 0.06 cfm/sqft @ 6.24psf (fixed)
 - 12 psf
 - FRAME CONSTRUCTION
 - HEAD & SILL RUN THROUGH.
 - SASH CONSTRUCTION
 - MITERED, CORNER BLOCKED, AND CRIMPED.
 - OPTIONAL: ACCESS DOORS AND SCREENS





Bone White LT411651



Ascot White LT410836



Polar White LT410085



Colonial White LT411575



Sierra White LT410468



Beige LT440745



Portland Stone LT420546



Fashion Gray LT420895



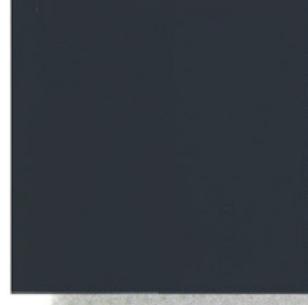
Yorktown LT420565



Seawolf LT442656



Sage Brown LT450802



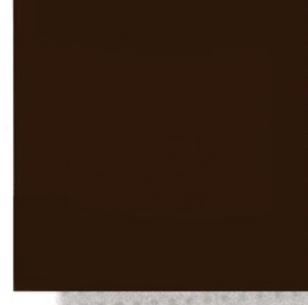
Charcoal Gray LT422496



Black LTV101



Brandywine LT490069



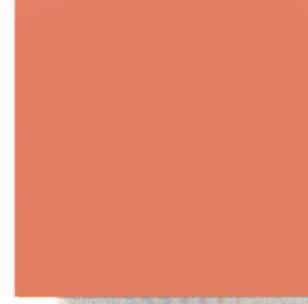
Cocoa Brown



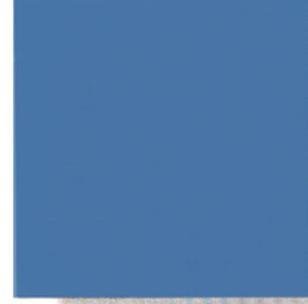
Conch LT430498



Rosewood LT490185



Desert Rose LT430253



Colonial Blue



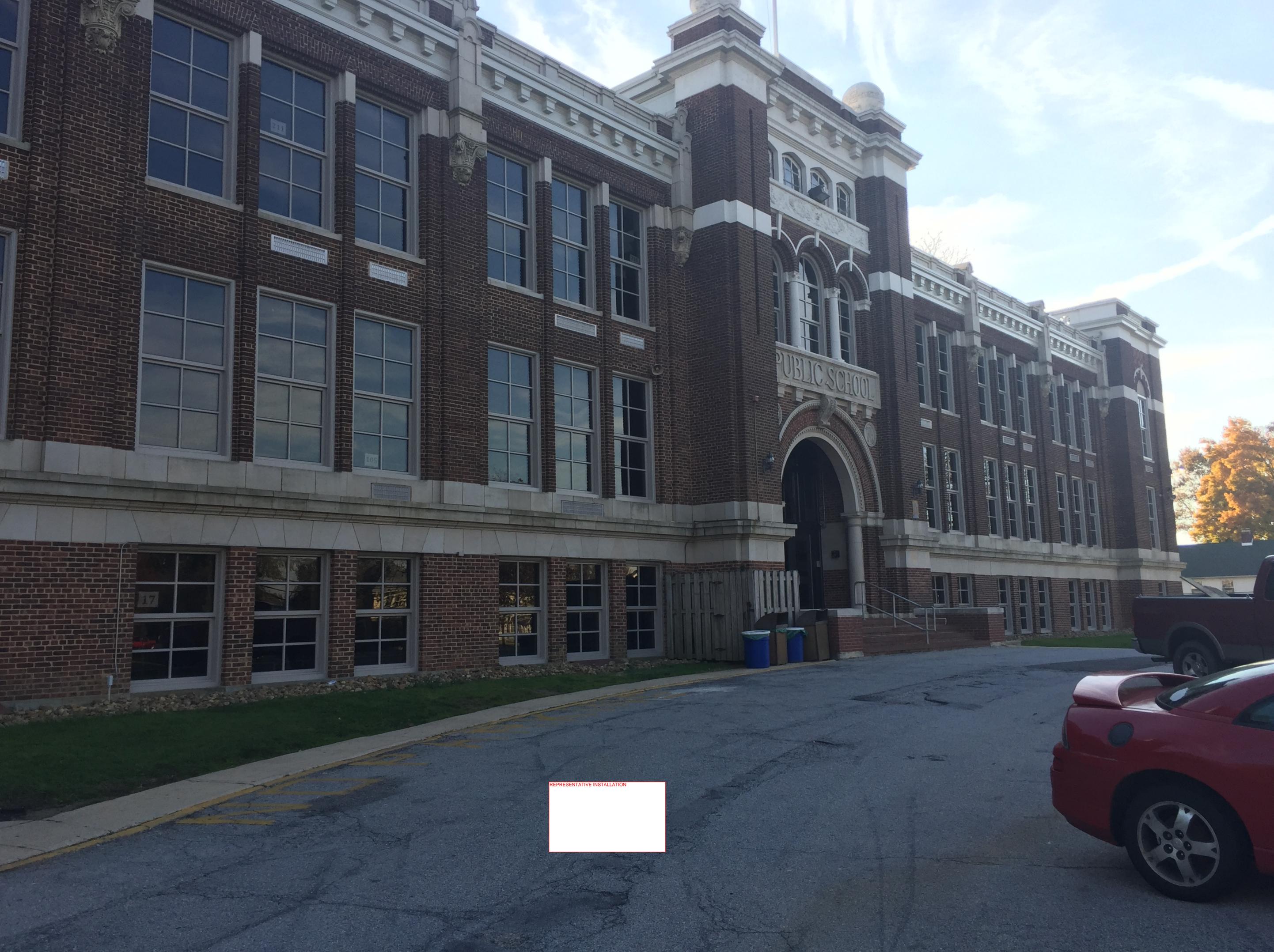
Arabian Blue LT481411

PROJECTED TYPE WINDOW
WITH THE APPEARANCE OF
A DOUBLE HUNG WINDOW

WINDOWS WILL HAVE MUNTIN
GRIDS INSTALLED WITHIN THE
SEALED GLASS UNITS

WHITE IN COLOR

SHIPPING &
RECEIVING



REPRESENTATIVE INSTALLATION

FINISH SYSTEM

Finish System on face of entry pediment, soffits

PAREX[®]



Architectural Coatings & Finishes (ACF)

- Acrylic Finishes
- Elastomeric Finishes
- Acrylic Coatings
- Elastomeric Coatings
- ACF Assemblies



HAWKINS HALL



Why Parex ACF?

Finishes and coatings contribute color, texture and an overall visual appeal to the wall. They also provide some protection from the elements or other exposure. By selecting appropriate finishes and coatings designers have greater freedom to create the surfaces they envision and to incorporate functional, protective attributes to withstand the rigors of time.

Success with finishes and coatings therefore depends on selecting the right products for the job and applying them correctly. This section describes finishes and coatings, and lists some of their essential features to help you make the right selection.

For more information, or if your project has unique requirements that might warrant special consideration, call ParexUSA Technical Services.

Before You Begin

The key to a lasting exterior finish or coating application is proper surface preparation.

Regardless which finish or coating will be applied, proper surface preparation is critical. Knowing the type and condition of the substrate determines how it must be prepared. Because of wide variations in substrates, we recommend that each substrate be individually inspected and prepared according to its specific need.

A simple rule of thumb to remember during this inspection is that the substrate must be sound, clean, and designed for exterior exposure.

The following information begins with the assumption of a properly prepared substrate.

Acrylics

Finishes and coatings include a range of products, each designed to do a specific job:

Primers

Once a surface is prepared to receive a finish or coating, a primer is recommended.

Key Benefits of using a primer:

- Reduce the chance of efflorescence that might result from cementitious surfaces.
- Promote uniformity in the finish coat.
- Enhance the appearance of the final coat.
- Improves coverage of either finish or coating applied over it.

Finishes

An acrylic finish is a product that is made up of polymers, aggregates, mineral fillers, and integral colorants. It is trowel or spray applied to provide the final coat for CI systems, stucco, masonry, concrete, or other substrates. Finishes have aggregate that will provide both texture and gauge thickness.

Key benefits of finish:

- Strong bonding
- Thicker layered top coat
- Vapor-permeable
- Flexible, can withstand thermal shock
- Resists UV and weathering
- Unlimited colors and a variety of textures

Coatings

Coatings are typically non-aggregated products which are roller or spray-applied. These products provide the final coat over nearly any substrate. Coatings can also be used to refurbish existing acrylic finishes.

Key benefits of coatings:

- Thin-layered topcoat
- Water vapor-permeable
- Resists UV and weathering
- Provides final color

Water-Based Sealers

Sealers are designed to provide additional protection over a vertical surface. The surface can be a coating or finish over CI systems, stucco, concrete, masonry and many other substrates.

Key benefits of sealer:

- Non-yellowing
- Transparent
- Seals topcoat
- Provides additional protection against mildew, algae and dirt
- Provides UV protection
- Enhances finish color stability

Elastomerics

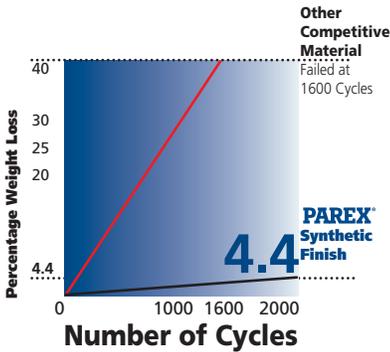
Elastomeric finishes and coatings are primarily used as the final coat over stucco surfaces. This chemistry provides a more flexible product that is well suited for stucco substrates.

Key features of elastomerics:

- Resists UV and weathering
- More flexible than acrylics
- Water vapor-permeable
- Withstands thermal shock

Wear Resistance

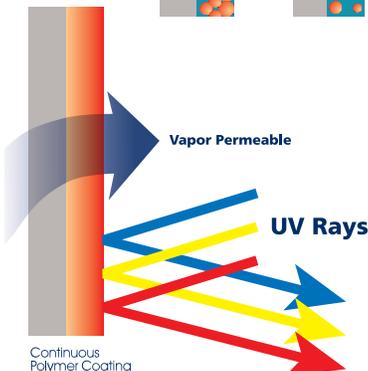
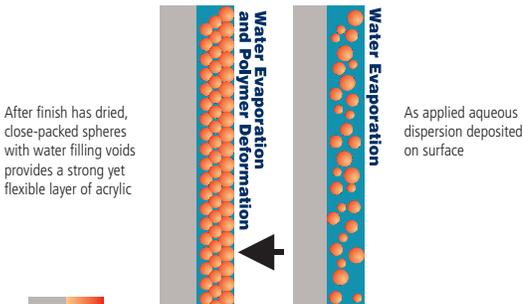
In test after test, Parex finishes endure: wash-out resistance, peel adhesion, wet abrasion. For instance, when a stiff brush scrubs back and forth 2000 times over a wet Parex sample, only 4.4% of the sample's weight is lost.



Test conducted by an independent laboratory on a Parex finish against a competitor's comparable product

Weather Resistance

Parex chemistry triumphs over the weather. The 100% acrylic formulation does not trap water vapor beneath it. At the same time, the film created by the acrylic polymers in the finish resists damaging UV rays, freeze/thaw cycling, and acid rain. The pigments in Parex finishes are all 100% exterior-grade for maximum colorfastness and UV resistance.



Weather Resistant

Parex 100% acrylic formulation allows vapor to permeate the layers of the system, while the film created by the acrylic polymers in the finish resists damaging UV rays.

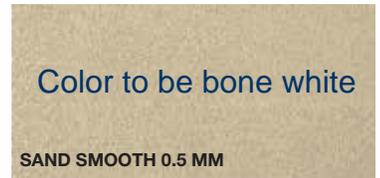
**Consistent color
Rust-free finish**

From the beginning, Parex has used marble aggregates as the texturing stone in all finishes. The white, bright marble improves color stability and consistency while providing sharper and cleaner looking colors than those of finishes based on other types of aggregates. No other aggregate yields consistent color like pure white marble. Using marble also eliminates the tiny iron mineral particles found in quartz sand, which can rust and streak as humidity and rain take their toll on buildings. Parex marble aggregates are rust-free.

DPR Technology

Parex finishes have remarkable resistance to dirt and stains. "DPR Technology" is the reason. Heat can cause other finishes to soften and become tacky. This can encourage dirt accumulation, mold, and atmospheric pollutant buildup. Parex DPR Technology fights back with specially formulated acrylic polymers that do not soften when exposed to heat. As an added protection, every Parex finish also contains EPA registered mildewcides and algicides.

Acrylic / Elastomeric Textures



*Multi Texture is an example of a finish possible with this texture. The product can be troweled and shaped into a number of different stucco looks.

Color to be bone white

FINISHES	USE	CHARACTERISTICS
Ultra e-lastic	Textured elastomeric finish For masonry, stucco, and concrete Especially recommended for old, dry and cracked surfaces	High elongation 100% acrylic Premium grade durability
Aquasol	Textured finish For CI systems, masonry, stucco, and concrete Especially recommended for old, dry and cracked surfaces	100% Acrylic Very high durability Self-cleaning Dirt pick up resistance
e-lastic	Textured elastomeric finish For masonry, stucco, and concrete Especially recommended for old, dry and cracked surfaces	High elongation 100% acrylic High grade durability
DPR Optimum	Textured finish For CI systems, masonry, stucco, concrete, or interior surfaces	Higher quality 100% acrylic Very high durability Dirt Pick-up Resistance
DPR Standard	Textured finish For CI systems, masonry, stucco, concrete, or interior surfaces	Superior quality 100% acrylic High durability Dirt Pick-up Resistance
COATINGS	USE	CHARACTERISTICS
Elastomeric Coating	Non-textured elastomeric coating For stucco, renovation of CI systems, concrete, and masonry renovation. Especially recommended for buildings with existing to hairline cracks	High-build, 100% acrylic, non-textured, Elastomeric properties Over 300% elongation Excellent adhesion properties
Aquasol	Non-textured coating For stucco, masonry, concrete, and CI systems renovation and other paintable substrates	100% Acrylic non-textured coating Very high durability Self-cleaning Dirt pick up resistance
DPR Coating	Non-textured coating For stucco, masonry, concrete, and CI systems renovation and other paintable substrates	100% acrylic non-textured coating Excellent adhesion properties High durability Dirt Pick-up Resistance
PRIMERS/SEALERS	USE	CHARACTERISTICS
Primer	Acrylic primer for finishes and coatings	100% acrylic Excellent adhesion properties Improves durability of finish Eases application of finish
Clear Sealer/Matte Clear Sealer	A clear sealer over finishes, To change appearance to matte finish or low e gloss appearance	100% acrylic Non-yellowing Resistant to mildew, algae and dirt accumulation Added UV protection Protection against fading

ASPHALT SHINGLES

Technical Data Sheet

Landmark® Premium Shingles

Landmark® PRO/Architect 80 Shingles (NW Region only)

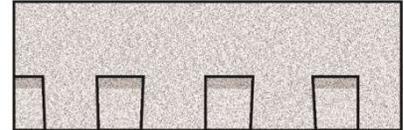
Landmark® PRO Shingles

Landmark® Shingles



PRODUCT INFORMATION

Landmark shingles reflect the same high manufacturing standards and superior warranty protection as the rest of CertainTeed's line of roofing products. Landmark Premium (and Algae Resistant-AR), Landmark PRO (and AR) and Landmark (and AR) are built with the industry's toughest fiber glass mat base, and their strict dimensional tolerance assures consistency. Complex granule color blends and subtle shadow lines produce a distinctive color selection. Landmark is produced with the unique NailTrak® nailing feature. **Please see the installation instruction section below for important information regarding NailTrak.**



In the Northwest Region Landmark PRO (AR) is double-branded as Landmark PRO/Architect 80 (AR).

Landmark algae-resistant (AR) shingles have the additional attribute of resisting the growth of algae especially in damp regions. AR shingles are not available in all regions

Colors: Please refer to the product brochure or CertainTeed website for the colors available in your region.

Limitations: Use on roofs with slopes greater than 2" per foot. Low-slope applications (2" to 4" per foot) require additional underlayment. In areas where icing along eaves can cause the back-up of water, apply CertainTeed WinterGuard® Waterproofing Shingle Underlayment, or its equivalent, according to application instructions provided with the product and on the shingle package.

Product Composition: Landmark Series shingles are composed of a fiber glass mat base. Ceramic-coated mineral granules are tightly embedded in carefully refined, water-resistant asphalt. Two pieces of the shingle are firmly laminated together in a special, tough asphaltic cement. All Landmark shingles have self-sealing adhesive strips.

Applicable Standards

ASTM D3018 Type I

ASTM D3462

ASTM E108 Class A Fire Resistance

ASTM D3161 Class F Wind Resistance

ASTM D7158 Class H Wind Resistance

UL 790 Class A Fire Resistance

ICC-ES ESR-1389 and ESR-3537

CSA Standard A123.5 (Regional)

Miami-Dade Product Control Approved

Florida Product Approval # FL5444

Meets TDI Windstorm Requirements

Technical Data:

	Landmark (and AR)	Landmark PRO* (and AR)	Landmark Premium (and AR)
Weight/Square (approx.)	222 / 238 lb **	250 / 270 lb **	300 lb
Dimensions (overall)	13 1/4" x 38 3/4"	13 1/4" x 38 3/4"	13 1/4" x 38 3/4"
Shingles/Square (approx.)	66	66	66
Weather Exposure	5 5/8"	5 5/8"	5 5/8"

*Includes Landmark PRO AR/Architect 80

**Dependent on manufacturing location

INSTALLATION

The following is a general summary of the installation methods. Detailed installation instructions are supplied on each bundle of Landmark shingles and must be followed. Separate application sheets may also be obtained from CertainTeed.

Roof Deck Requirements: Apply shingles to minimum 3/8" thick plywood, minimum 7/16" thick non-veneer (e.g. OSB), or minimum 1" thick (nominal) wood decks. The plywood or non-veneer decks must comply with the specifications of APA-The Engineered Wood Association.

Ventilation: Provisions for ventilation should meet or exceed current HUD Standards. To ensure adequate balance ventilation, use a combination of continuous ridge ventilation (using CertainTeed Ridge Vent products, or a comparable product with an external baffle) combined with soffit venting.

Valleys: Valley liner must be applied before shingles. The Closed-Cut valley application method is recommended, using CertainTeed WinterGuard Waterproofing Shingle Underlayment or its equivalent to line the valley prior to being fully covered by the shingles.

Underlayment:

On slopes 4" per foot or greater, CertainTeed recommends one layer of DiamondDeck® or RoofRunner™ Synthetic Underlayment, or Roofers' Select® High-Performance shingle underlayment, or shingle underlayment meeting ASTM D226, D4869 or ASTM D6757. Always ensure sufficient deck ventilation, and take particular care when DiamondDeck, RoofRunner, or other synthetic underlayment is installed. For UL fire rating, underlayment may be required. Corrosion-resistant drip edge is recommended and should be placed over the underlayment at the rake and beneath the underlayment at the eaves. Follow manufacturer's application instructions.

On low slopes (2" up to 4" per foot), apply one layer of CertainTeed's WinterGuard Waterproofing Shingle Underlayment (or equivalent meeting ASTM D1970) over the entire roof deck. Or, in areas not prone to snow or ice apply two layers of 36" wide felt shingle underlayment lapped 19", or two layers of CertainTeed's DiamondDeck, RoofRunner or other synthetic underlayment per the manufacturer's low slope application instructions. Shingle underlayment should meet ASTM D6757, ASTM D4869 or ASTM D226. Ensure sufficient deck ventilation when these types of underlayments are installed. Specific and more detailed installation instructions can be found on product packaging and in the CertainTeed Shingle Applicator's Manual.

Fastening (NailTrak):

Low & Standard Slopes: On low and standard slopes, four nails are required per shingle. There are three nail lines on NailTrak shingles. Position nails vertically between the upper and lower nailing-guide lines. It is acceptable to nail between either the middle and lower lines, or between the upper and middle lines. Nails must be of sufficient length to penetrate into the deck 3/4" or through the thickness of the decking, whichever is less. They are to be located 1" and 12" in from each side of the shingle (see instructions on product wraps). Nails are to be 11 or 12 gauge, corrosion-resistant roofing nails with 3/8" heads.

Steep Slopes: On slopes greater than 21" per foot, fasten each shingle with six nails and four spots of roofing cement placed under each shingle according to application instructions provided on the shingle package. Fasteners must penetrate the two-layer common bond area that is indicated by the middle and lower NailTrak lines, also illustrated on the shingle package.

Application: The recommended application method is the 'Five-Course, Diagonal Method' found on each bundle of shingles. In this method, shingle course offsets are 6" and 11". Instructions also may be obtained from CertainTeed. These shingles may be used for new construction or for reroofing over existing Metric-sized shingles.

Flashing: Use corrosion-resistant metal flashing.

Hips and Ridges: For capping hip and ridge apply CertainTeed Shadow Ridge[®], Cedar Crest[®] or Mountain Ridge[®] shingles of a like color.

MAINTENANCE

These shingles do not require maintenance when installed according to manufacturer's application instructions. However, to protect the investment, any roof should be routinely inspected at least once a year. Older roofs should be looked at more frequently.

WARRANTY

Landmark Premium (and AR), Landmark PRO/Architect 80 AR, Landmark PRO (and AR), and Landmark (and AR) shingles carry a lifetime limited, transferable warranty to the consumer against manufacturing defects. In addition, Landmark Premium (and AR), Landmark Premium/Architect 80, Landmark PRO (and AR), and Landmark (and AR) carry 10-years of SureStart™ Protection. For specific warranty details and limitations, refer to the warranty itself (available from the local supplier, roofing contractor or on-line at www.certainteed.com).

FOR MORE INFORMATION

Sales Support Group: 800-233-8990

Web site: www.certainteed.com

See us at our on-line specification writing tool, CertaSpec[®], at www.certainteed.com/certaspec.

CertainTeed Roofing

20 Moores Road
Malvern, PA 19355



TRANSLUSCENT PANELS (GYM WINDOWS)



Never Compromise. Always Innovate.

Quality Comes to Light

Kingspan Light + Air | CPI Daylighting is an award-winning innovator of translucent daylighting solutions for high-performance building envelopes headquartered just north of Chicago.

Since the 1980s, we have been a pioneer and leader of the daylighting industry. We continually innovate so clients never have to choose between efficiency, style, and safety, and our pledge to sustainability is instilled at every level of the company and at every step in the manufacturing process.

Our global team of highly-skilled and experienced professionals is a community of doers, ensuring we are the partner of choice for the ever changing world of modern construction. Together, we leverage our knowledge and expertise to serve as the leading daylighting consultants for the architectural community and building industry.

Never Compromise. Always Innovate. Kingspan Light + Air.



▲ **Project:** AVCRAD Facility id 29452
Location: Springfield, MO
Architect: Jacobs



▲ **Project:** Hologic, Inc. id 34563
Location: San Diego, CA
Architect: Smith Group Consulting



▲ **Project:** UNF Student Center id 24863
Location: Jacksonville, FL
Architect: Rink Design Partnership



The KLA Difference

We believe that good design can have a profoundly positive effect on the built environment, and improve the way that we work, learn, play, and live.

Our mission is to set new, higher standards for the quality and versatility of daylighting technology, as we strive to advance daylighting design.

▲ **Project:** Element LA id 39691
Location: Los Angeles, CA
Architect: Gensler

Collaboration is Key

As expert problem-solvers, we team up with architects and designers to develop solutions that will enhance and optimize the role that natural light plays in the design of buildings. We are here to assist you through each step of the process – from preliminary design to the final installation of the system.

Don't Compromise

As a designer, you shouldn't have to compromise your design due to product limitations or the rigidity of some manufacturers. Our goal is to enable architects to achieve the highest levels of building performance without sacrificing the aesthetic quality of their design. This is why we have worked tirelessly to develop the most versatile daylighting system on the market.

Challenge Us

We offer architects the unique opportunity to redefine daylighting. Be creative, and explore new ways to utilize our technology. Push the envelope with your designs, and inspire others to do the same.

We were founded on innovation, but it is your imagination that continues to drive our evolution. So, what's your next bright idea?



translucent panel window system

▲ **Project:** Grandview Heights Aquatic Centre id 36690
Location: Surrey, B.C.
Architect: HCMA Architecture + Design

Our Innovative Technology

Two-Panel System

Our system is designed with two independent glazing panels that are mechanically connected to an internal support structure. A key feature of this design is the internal cavity between the two glazing panels. The cavity can be filled with various inserts to customize the performance of the system based on the building's requirements. Rather than sourcing a different system for each type of daylighting application, utilize a single, trusted system that is designed to adapt to meet your building performance needs.

Our translucent daylighting system delivers outstanding performance, offering the best ratio of light transmission to insulation value in the industry, and is the ultimate in design freedom and flexibility.



Removable Skin Technology (RST)

The system is designed so that the interior and exterior glazing panels are independent of one another. Once installed, the interior panels remain intact, and each of the exterior panels can be disengaged and removed without compromising the integrity of the building envelope.

Removable skin technology ensures that if there is a future need for updating the exterior, those panels can be changed without interrupting ongoing building operations. The flexibility to replace individual panels, rather than the entire system, adds another level of dimensionality to a system that is already extremely versatile.



Multi-Color Panel Option

A different color can be selected for each of the two independent glazing panels that make up the system. As a designer, you may want to make a bold statement by using colorful panels on the exterior and utilize a neutral panel color on the interior for a clean, finished look.

While glazing color combinations offer an opportunity for creativity, they also serve a practical purpose when tailoring the performance of the system. Each glazing color has an inherent solar performance. By varying the combination of the glazing colors, not only can you create unique visual elements, but you can also customize the solar performance of the system. The optional matte finish on the panels will increase their ability to diffuse light and eliminate glare.



Longer Clear Spans

Due to the design of the internal support structure, the panel system can achieve longer spans and still comply with deflection and code requirements. The ability to span floor-to-slab minimizes the necessary support structures – reducing the cost of material and labor. It also improves the aesthetic quality of the system.

Nano-Cell® Glazing



Our patented Pentaglas® translucent glazing is precision engineered with Nano-Cell® technology. This specialized panel extrusion results in the cells measuring smaller than 0.18 inches, and provides the panel with increased durability and prolonged resistance to impact. The unique cell structure also significantly improves the quality and even distribution of glare-free natural light.



One trusted system
Infinite possibilities

What's your next bright idea?



▲ **Project:** Akron Children's Hospital Parking Garage id 35531
Location: Akron, OH
Architect: GPD Group



Dynamic Shading System



Military Facility per DoD Standards

Specialized Performance Options

We understand that due to budget, occupancy, and building type, not all building envelopes are made equal. That is why we designed a system with an internal cavity that can be modified with additional inserts to meet the performance requirements of any building. Whether you need a system that can dynamically manage light levels in a classroom, meet forced entry standards for a military facility, or anything in between, we can help you achieve your performance goals.

- Dynamic Shading System
- Additional Insulation
- LED Lighting
- Sound Reduction (STC)
- Forced Entry Resistance
- Perforated Metal Insert





▲ **Project:** Coquille Community Center id 31260
Location: Covington, LA
Architect: Holly & Smith Architects

LED Lighting

With the integration of LED lighting, the daylighting system is transformed into an elegant night-lighting feature. With the flip of a switch, your building becomes a beacon of creativity.



Graphics

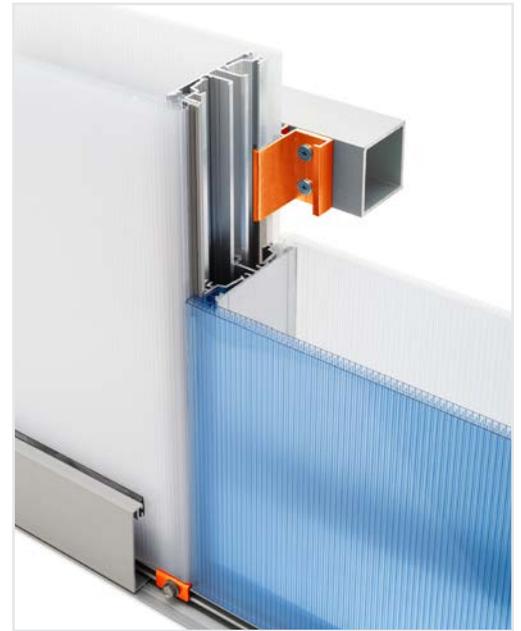
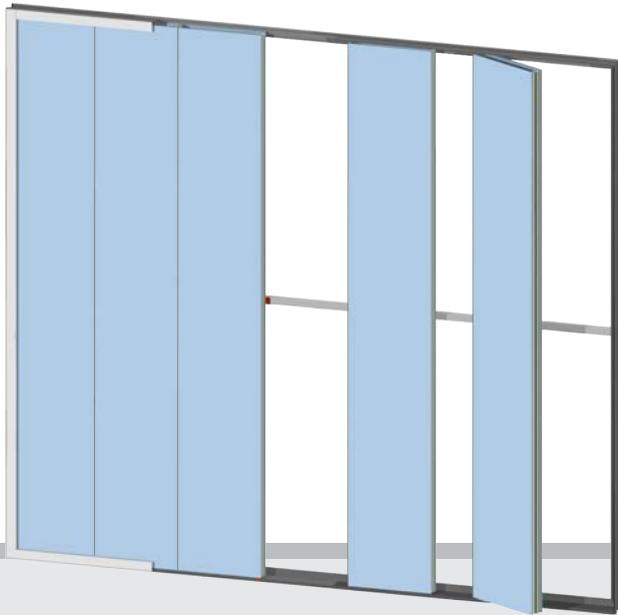
Graphics can be used to create an iconic look or to reinforce a building owner's brand through signage, logos, etc. Add textures, geometric patterns, or other unique visual elements to either the system's interior or exterior, and produce different effects that are sure to make your building stand out.



UniQuad® | Translucent Walls

Design + Engineer + Manufacture

The hallmark of the UniQuad® system is the innovative two-piece panel connection, which enables the system to be unitized. The panels themselves are factory glazed and assembled for superior quality control. The unitized construction of the system results in quick, cost-effective installation.



Our Innovative Technology



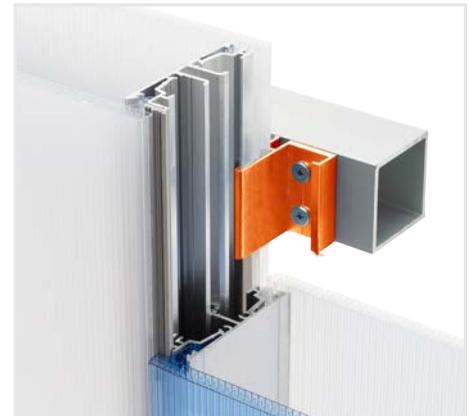
Frame System

The two-piece frame system consists of a sill and sub-sill. It is designed so that the necessary fasteners don't penetrate the sill frame. A thermally broken frame is also available.



UniClip™

The concealed UniClip™ is designed as a structural clip, capable of withstanding heavy loads. The specialized design enables the panels to be installed quickly and remain in place without needing frame caps.

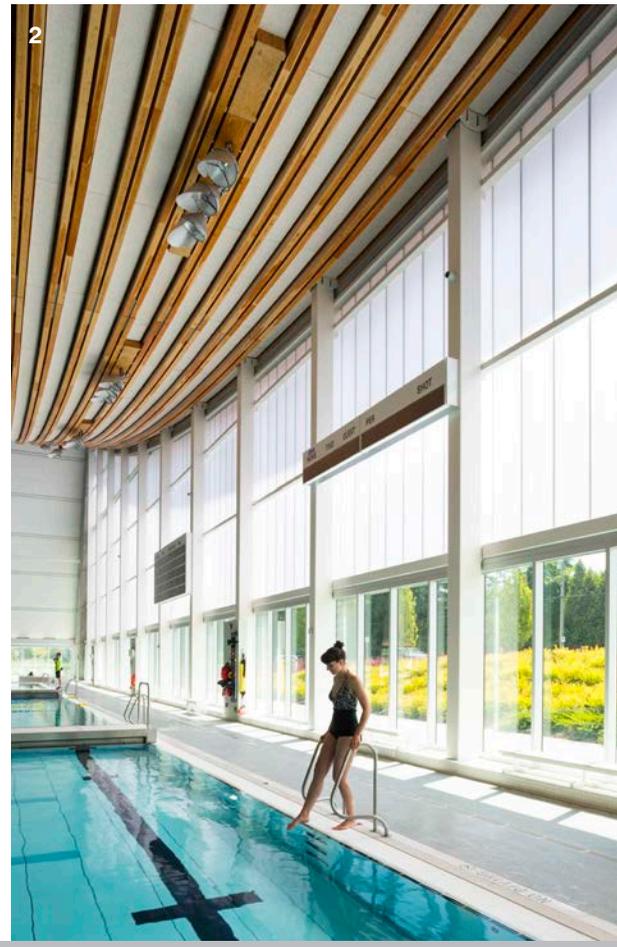


Panel Clip

The panel clip fastens directly to the internal UniQuad® structure, which prevents the glazing from breaking under extreme clip loads, as is common with other systems. The metal-to-metal connection enables the glazing to freely expand and contract. It also increases the system's ability to withstand high loads and span floor-to-slab.



1



2

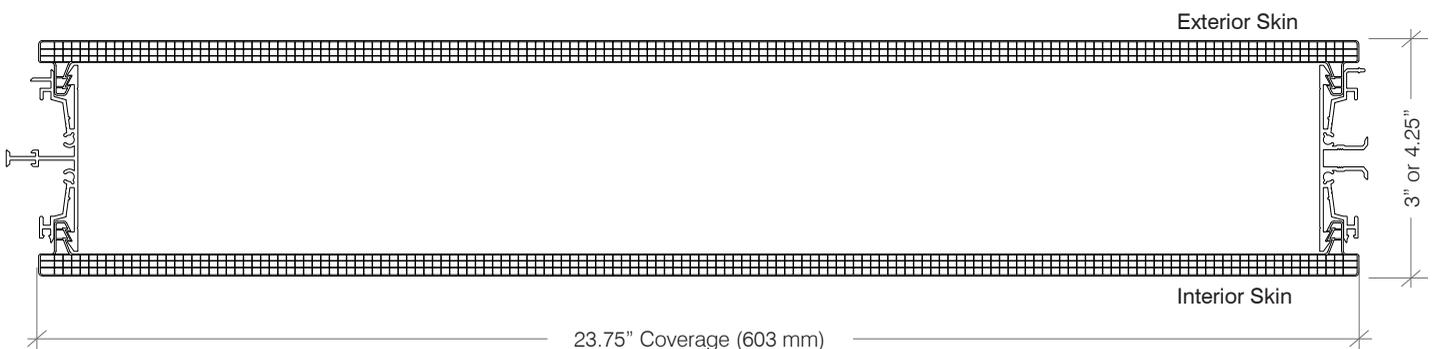


3

- ▲ 1 Eagle Academy id 35107
- 2 Grandview Heights Aquatic Centre id 36690
- 3 Virtua Health & Wellness Center id 23637

Product Specifications

Thickness:	4.25 in (108 mm) & 3 in (76 mm)
Width:	2 ft nominal (23.75 in) (603 mm)
Length:	Up to 44 ft long
Panel Weight:	1.5-2 lbs/ft ²
Technology:	Removable Skin Technology (RST) - Allows for the removal of the exterior panel while the interior panel remains in place
Panel Joint:	Structural member, mechanically interlocking, sealed joint
Exterior Skin:	10 mm Pentaglas® translucent panel with Nano-Cell® extrusion
Interior Skin:	10 mm Pentaglas® translucent panel with Nano-Cell® extrusion
Color Options:	Standard - Clear matte, white matte, ice white matte, blue matte, green matte Consult KLA for other available color options, including bronze matte, gray matte, white pearl low-E, and other exotic colors Note: all colors are available with a non-matte finish upon request
Bi-Color System:	Option to select one color for the exterior glazing panel, and a different color for the interior glazing panel



UniQuad® | Translucent Walls

Design + Engineer + Manufacture

The extreme versatility and unitized assembly of the UniQuad® system makes it the perfect system for walls and building facades. This system is also effective for clerestories and smaller scale punched openings.

UniQuad's sleek, linear aesthetic and modular construction enable the system to be easily integrated with other building envelope components.

With a wide range of colors, and the potential for incorporating graphics and lighting, UniQuad offers designers the opportunity to rethink daylighting in a creative and inspiring way.



- ▲ 1 AVCRAD Facility id 29452
- 2 Eagle Academy id 35107
- 3 Grandview Heights Aquatic Centre id 36690

Large Scale Facades

Individual panels can be manufactured up to 44 ft. tall and are able to span across floors of multi-level buildings. Panels can clear span floor-to-slab, depending on the height and loading conditions.

- ◀ **Project:** Richmond Olympic Oval id 20460
- Location:** Richmond, BC
- Architect:** Cannon Design

Daylighting Zones

Manage the level of transparency to create focal points and control views. Integrate a translucent system to maximize light while minimizing heat gain and glare.

- ◀ **Project:** Virtua Health & Wellness Center id 23637
- Location:** Washington Township, NJ
- Architect:** HGA

A Better, Brighter Building Envelope



▲ **Project:** Austin ISD Performing Arts Center id 35165
Location: Austin, TX
Architect: Pfluger Architects & Miró Rivera Architects



Pentaglas® | Cladding

Our Pentaglas® system can be used for cladding structures that enclose non-conditioned spaces.

Our cladding system can help you achieve a variety of goals:

- Modernize the exterior of a building
- Meet hurricane standards
- Create an area for signage
- Backlighting



◀ **1** W Hotel Atlanta id 25591
2 Mission Creek Kayak Storage id 24532
3 Sarasota Police Station id 25772
4 3rd & Pine Parking Garage id 22125

Quadwall® | Skylights

Design + Engineer + Manufacture

Kingspan Light + Air | CPI Daylighting utilizes the latest in daylighting technology to provide the market with efficient and effective solutions to meet their daylighting needs and enhance the environments where we work, learn, play and live.

We offer a wide variety of skylight options - ranging in scale from small and simple to monumental and complex. These skylights are available in a variety of standard shapes, including vaults, ridges, single slopes, pyramids, polygons, and domes. We also work with architects and designers to develop custom skylight systems.



“Not only do we now have more light in our atrium, along with watertight integrity, but we have strengthened our relationship with employees and customers by providing an environment in which they can thrive.”

– Pete Flood | Construction project manager, SAS

▲ **Project:** Stillaguamish Community Center id 38391
Location: Arlington, WA
Architect: Womer and Associates

▶ **Project:** Bogan Park Aquatic Center id 33261
Location: Buford, GA
Architect: Wright & Mitchell Architects

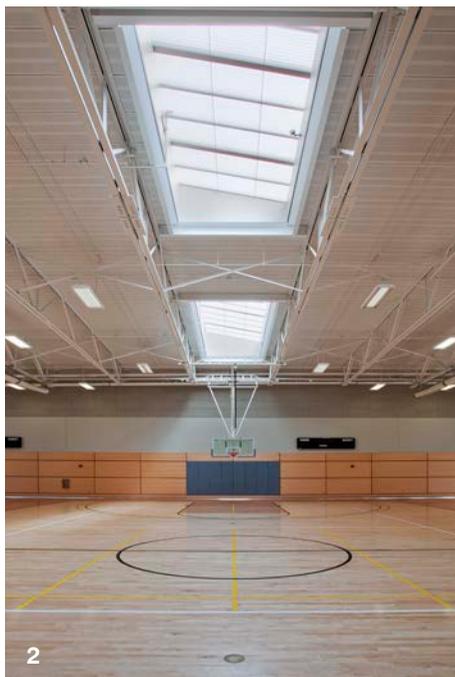


Skylights over atriums and large common spaces are an impactful design feature that can make a space more inviting and create an open and comfortable environment for occupants.

◀ **Project:** Hologic, Inc. id 34563
Location: San Diego, CA
Architect: Smith Group Consulting

◀ **Project:** Bloomingdale's at Beverly Center id 35264
Location: Los Angeles, CA

▶ 1 Allen High School id 42976
2 University of Oregon Student Rec id 36496
3 Mall Del Norte id 23445



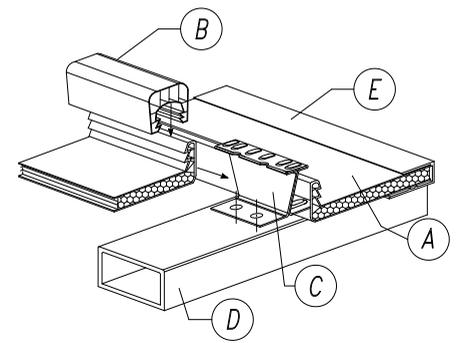
BriteWay™ | Canopies

Design + Engineer + Manufacture

Kingspan Light + Air | CPI Daylighting is a single source provider of BriteWay™ translucent canopies, offering flexible design options that include both pre-engineered and customized systems from the ground up.

Our canopies utilize patented Pentaglas® translucent glazing, which is precision engineered and extruded to have a Nano-Cell® configuration. This unique glazing extrusion results in superior durability and produces a more even distribution of glare-free natural light into adjacent spaces that would otherwise be cast in shadow.

Pentaglas is designed as a standing seam system that utilizes an interlocking mechanical connection. The innovative double-toothed edge on the up-stands of the panels enables this system to withstand extremely high loads. Systems designed and certified for hurricane resistance are also available.



- A** Pentaglas® glazing panel
- B** Double-toothed panel connector
- C** Stainless steel panel clip
- D** Aluminum purlin substructure
- E** Aluminum framing system



◀ **Project** Tanger Outlet Mall id 36369
Location Oxon Hill, MD
Architect Adams + Associates Architecture

◀ **Project** Monrovia Station Square id 40160
Location Monrovia, CA
Architect IBI Group



Clearspan Canopies ▶

The innovative clearspan design eliminates the need for cross-bracing, which opens up the space below the canopy structure. Our clearspan canopies are pre-engineered based on specific design criteria, and are an economical solution that provides shelter while also allowing natural light into adjacent spaces. The rust-free aluminum structure offers excellent durability and system longevity.



▲ **Project** Norwalk Hospital id 32016
Location Norwalk, CT
Architect Freeman White

▲ **Project** CTA - Cermak Green Line Station id 37707
Location Chicago, IL
Architect Ross Barney Architects

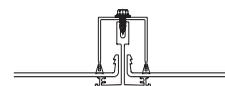
- ▼ 1 Metropolitan MSC id 40892
- 2 Kaiser Town Park Community Medical Center id 3356
- 3 USCB Recreation Center id 38857
- 4 Moanalua Shopping Center id 20809

“The versatility of the Pentaglas® canopy and framing system allowed us to get creative with the concept.”

– Christopher Souza | Architect, AECOM



◀ U-Lite

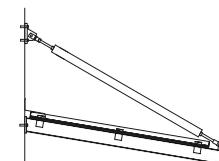


Monolithic standing seam panel system for low slope canopy applications

- High-impact resistant
- Long span capabilities
- Exposed edge design



◀ LiteBrow



Suspended translucent canopy system

- Highly durable (designed for +/- 120 psf combined loads)
- Economical modular system (Standard sizes: 4 ft, 8 ft & 12 ft)
- Custom design options available

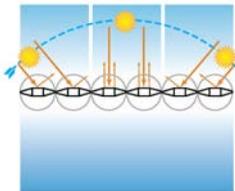
IntelaSun[®] is a dynamic shading system that adjusts based on the angle of the sun and user-controlled settings. IntelaSun effectively balances light-levels and eliminates solar heat gain and glare throughout the day. This dynamic system improves building efficiency by lowering peak loads and utility costs, and creates a comfortable environment for occupants. IntelaSun - the perfect solution for all your high-performance daylighting needs.

SolaBlades[®]

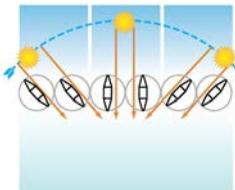
The key to IntelaSun's success is the series of rotating internal louvers, called SolaBlades[®]. The SolaBlades optimize building performance by regulating the amount of sunlight, solar heat gain and shading within a given space. With the ability to rotate a full 360 degrees, the blades gradually adjust their angle throughout the day to deliver and maintain the desired amount of light. With a system that adapts to harvest daylight when the sun is at a low angle and shade the space during peak sunlight hours, you are no longer limited to designing a system for a single daylighting scenario.



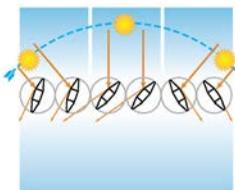
SolaBlade[®] Sun Tracking



Minimum light transmission
and solar heat gain



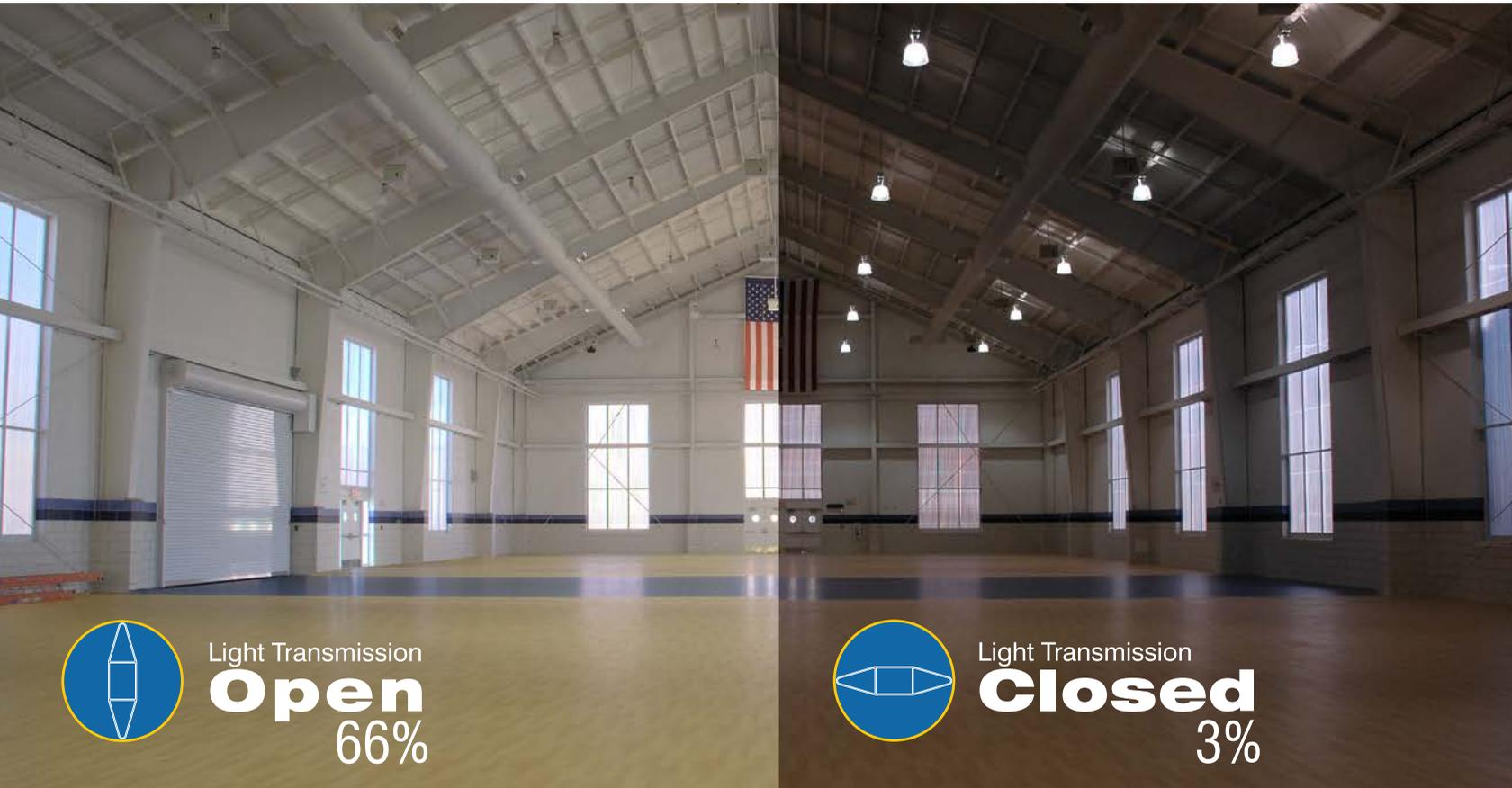
Maximum light transmission
regardless of sun angle



Blades are angled to diffuse
light transmission to suit user
preferences



▲ **Project:** San Benito High School id 40711
Location: Hollister, CA
Architect: Aedis Architects



Light Transmission
Open
 66%

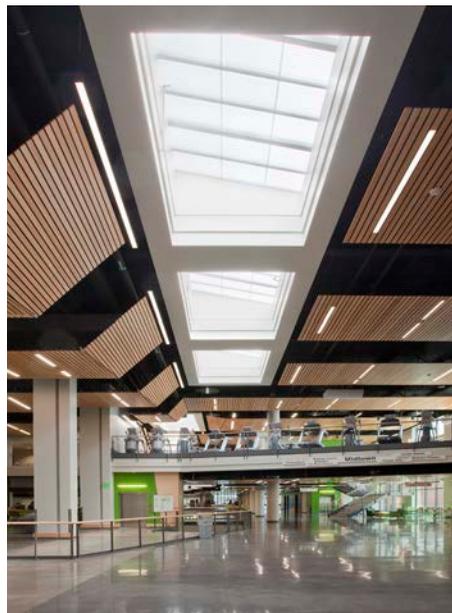


Light Transmission
Closed
 3%

▲ **Project:** Great Lakes Naval Training Facility id 20405
Location: Great Lakes, IL
Architect: Wight & Company

Dynamic Daylighting

Sensors on the exterior and interior of the building enable the system to track the sun and adjust to maintain optimal light levels throughout the day. The system can be programmed to be fully automated or operated manually from a wall-mounted control. When completely open, the system achieves a light transmission of sixty-six percent, while closing the blades will reduce the light transmission to a mere three percent.



▲ **Project:** University of Oregon Student Rec id 36496
Location: Eugene, OR
Architect: Robertson Sherwood Architects & RDG Planning Group



▲ **Project:** da Vinci Arts Middle School id 26248
Location: Portland, OR
Architect: SRG Partnership

Retrofits & Renovations

Design + Engineer + Manufacture

Why Renovate?

- Outdated or degenerating systems are underperforming
- Discoloration has resulted in a significant decrease in light levels
- Deterioration is causing leaks and potential structural failures

We offer a variety of simple and effective turn-key retrofit and renovation solutions designed to reglaze, over-glaze or replace existing systems that are underperforming or are in desperate need of repair due to damage or deterioration.

Our two-panel system ensures that your building envelope is not compromised in the future, as the interior panels will be able to remain intact indefinitely.

Skylight retrofits and renovations can play a key role in revitalizing environments that are suffering from lack of adequate natural lighting.

Deteriorating skylights often block out blue spectrum light, which accounts for the majority of health benefits associated with natural light.

We Renovate...

- Glass
- Acrylic
- Fiberglass
- Polycarbonate

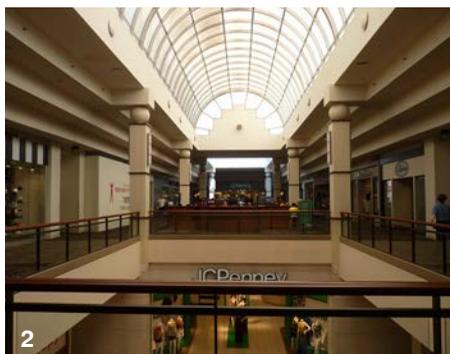


Reglaze

The glazing system will be replaced and the existing structure will be evaluated and reused when possible.

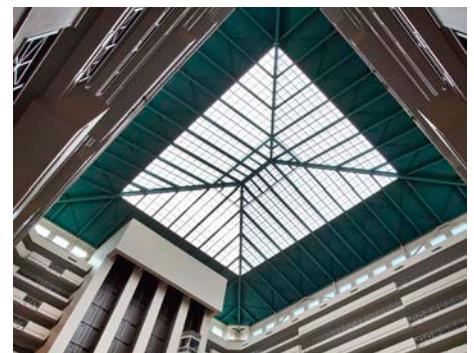
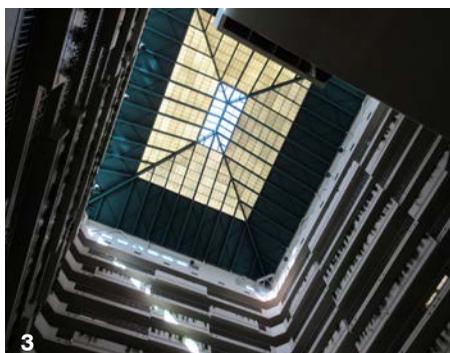
Overglaze

Pentaglas® systems can be designed to envelop leaking systems if their performance is otherwise uncompromised. This option is typical for systems that provide enough light, but may be deteriorating, leaking or need additional insulation performance.



Replace

The entire existing system is disassembled and removed and a new system will be installed in its place.



Before

After



Before



After

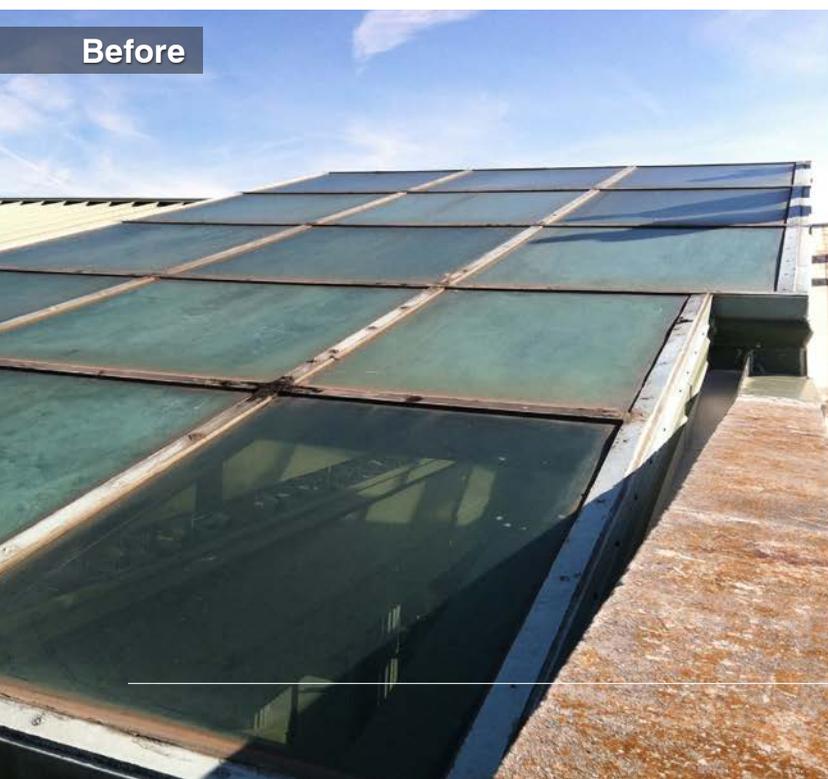
▲ **Project:** Pembroke Lakes Mall id 39972
Location: Pembroke Pines, FL

- ◀ 1 Lakewood Mall id 39224
- 2 Town Center at Cobb id 27224
- 3 Embassy Suites id 34534

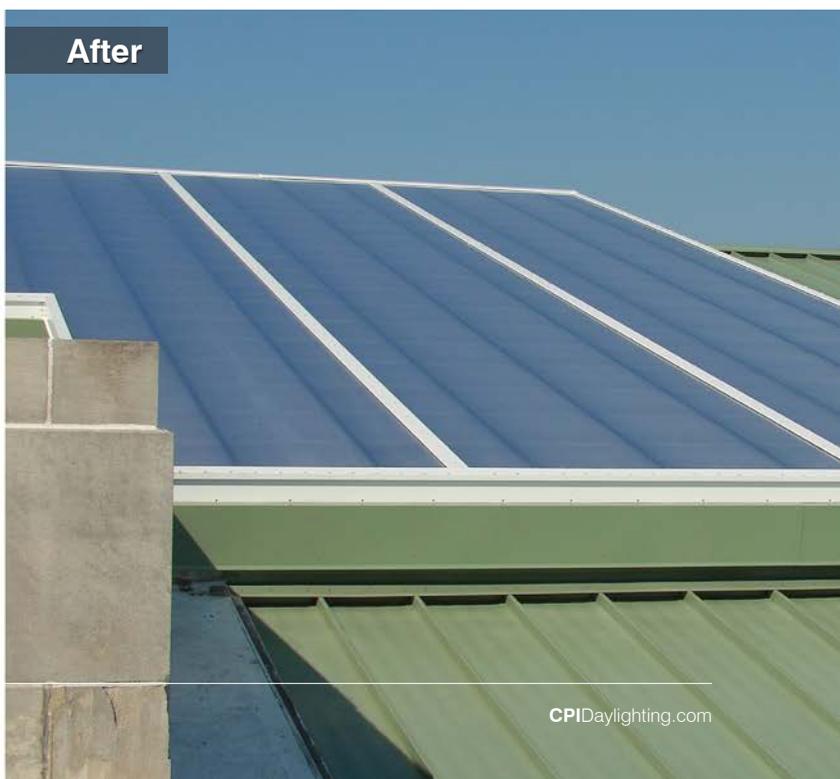
“ The difference in the lighting in the hallway and the gym is dramatic. We rarely need to use the lights in the hall because there is so much natural light. ”

– John Grote | Executive Director, Northside Community School

▼ **Project:** Raleigh Memorial Auditorium id 36730
Location: Raleigh, NC
Architect: REI Engineers



Before



After



To learn more, visit:

www.cpidaylighting.com
www.kingspanlightandair.com

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Fax 847.816.0425



DOORS



Architectural Solutions *for educational facilities*

Exterior & Interior Doors and Frames | Restroom Partitions

Exterior Doors -
see page 4



For new construction or renovation *choose the products with longer life*

Special-Lite, Inc. *the original "school door" company*

We want you to use the best door for your application.

Our super tough SL-17 with Speclite3® FRP in pebble grain texture – extremely resistant to dents, scratches, scuffs, paint and ink, so even tough stains like graffiti can be removed; our SL-20 with through-color FRP but in a finer grain sandstone texture; our SL-16 beautiful aluminum face sheet door for areas with high traffic but less vandalism; our Monumental (aluminum stile and rail door) that creates an open and inviting full-vision entrance, while providing the functionality, security, and long service life you require.

Have a locker room, computer room or food service area? You may want to consider one of our AF (all fiberglass) products that are completely sealed against moisture, water, and dirt. Paired with a pultruded fiberglass frame, this door offers a lightweight, economical solution for locations prone to moisture.



SL-17 FRP Flush Door



SL-18 Wood Grain Colonial Door



SL-17 Speclite3 Doors®

"I have 700 to 800 kids going through those doors daily. Junior high and high school kids think nothing of kicking doors open and slamming doors out hard. When no one else is around, they use pocket knives and paper clips to carve their initials in the door panels. They spray paint them, too. But since we started replacing the old doors with Special-Lite, we have taken their 'fun' away."

Director of Maintenance in a central Oklahoma school district

Doors for every application *from main entrance to receiving doors*

Since 1971, architects, facility managers and contractors who specialize in both K-12 and Higher Education facilities, have relied on Special-Lite for their projects. Our doors, panels and framing are engineered and built for high-cycle, high-abuse applications, and will outlive the term of the bond that funded their purchase. Whether you have a K-12 school, community college, private college or university, we know our doors will live and thrive in your environment better than any others on the market today.



SL-16 Aluminum Flush Door

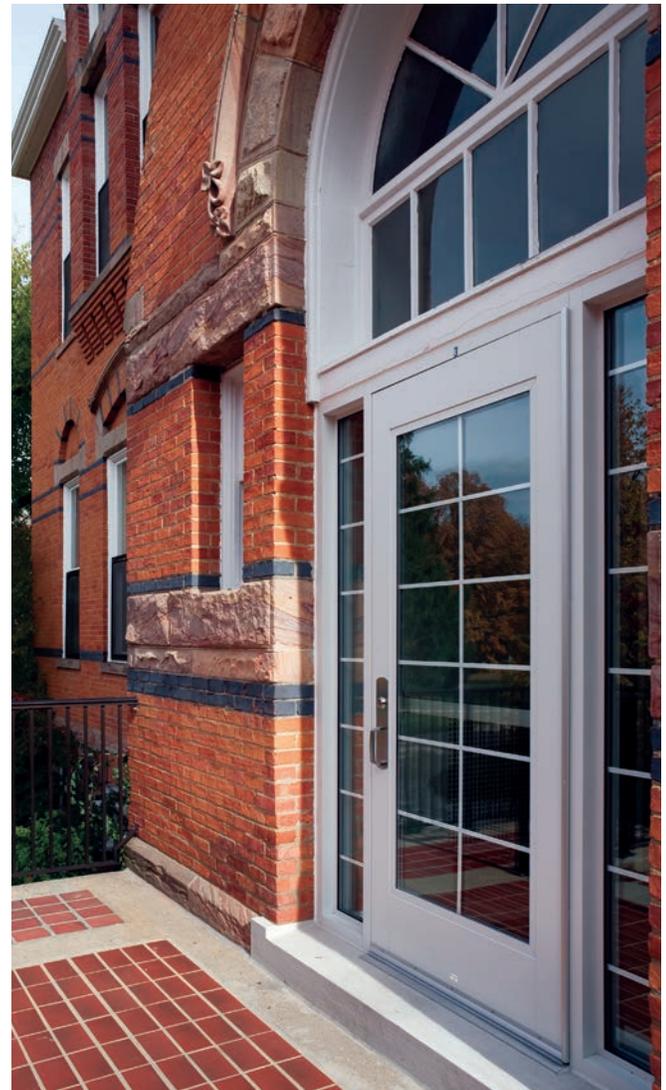


SL-19 Wood Grain Flush Door



AF-100 Pultruded Fiberglass Door
- pool environment

All across the country, educational leaders and facility managers are confronted with the challenges associated with providing safe facilities with low maintenance needs. Increasing student population, security concerns, and deferred maintenance are but a few items that place demands for building renovations or new construction projects. Whether you're planning new construction or renovating an existing structure, Special-Lite doors and framing can be designed, engineered and built to meet both your architectural and performance requirements.



SL-15 Monumental Door - *internal muntins*

Customize your entrance
with texture, color, size & special features



Your architecture...your identity

Every Special-Lite entrance is a custom solution. We work directly with architects, contractors, construction managers and end-users to create exactly the right entrance for your application. We can match any architectural style, from the classic arch-topped entrance of an ivy-covered dormitory, to the sleek, contemporary look of a mall-style high school lobby.

Colors and textures for every style

Special-Lite produces doors and frames in a wide variety of standard and optional anodized finishes and paint colors and can match any custom paint color you desire. All Special-Lite anodized finishes are architectural grade, class 1 (0.7 mil or greater) for durability. We offer a variety of textures, patterns, and surface performance in both FRP (fiberglass) and aluminum face sheets.



SL-15 Monumental - mid-panel with recessed pull



SL-20 FRP Flush Door - curved cove molding



SL-18 Wood Grain Colonial Door

Typical Exterior Door - recessed panel, internal muntins

SL-17 has SpecLite 3[®] FRP, available ONLY from Special-Lite! More resistance to whatever students can subject it to.

Custom options

We offer a number of custom features that can improve the functionality of your doors, as well as enhance your entrance design.



SL-16 Aluminum Flush Door - EPDM Vision Lites



SL-16 Aluminum Flush Door - angled vision lites and framing



SL-15 Monumental Door - oversized



Laser Cut Mid-Panel

A custom mid-panel can be designed with a school logo or mascot for displaying school spirit.



Bi-Fold Unit

For improved ventilation we can add bug-screened louvers or a screened bi-fold shuttered vision lite to allow fresh air in while keeping doors closed and locked. Think kitchens!

Heavy-duty engineering right to the core



FRP/Aluminum Hybrid & Aluminum Flush Door



Monumental Door



Fiberglass Pultruded



Fiberglass Composite

All Special-Lite® Entrances are engineered with advanced construction features to **outlast** our competitors' (*look-alike*) doors and will **outperform** any hollow metal door.

FRP/Aluminum Hybrid & Aluminum Flush Doors - A time proven design of strength, longevity and low maintenance. These doors have a closed-cell, thermal performing, poured-in-place, waterproof polyurethane foam core which bonds all components together to provide incredible strength and thermal insulation. Face sheets are locked in place by integral reglets in the aluminum door perimeter without separate screw-applied capping. Within this family of doors is the SL-17 Pebble Grain Door, known to many in the industry as "The School Door" for its proven performance in the Education market.

Monumental (Aluminum Stile & Rail) Doors - The appearance of a storefront door, but the aluminum wall thickness and corner joinery of a heavy-duty, high performance door. We feature the same tie rod joinery (corner lifetime warranty) as our FRP/Aluminum Hybrid Doors, plus true mortise-and-tenon construction for superior durability. The SL-15 Monumental Door with a mid-panel is the most popular choice for main entrances where a glass door is desired. Perfect for high traffic and abusive locations.

Pultruded Fiberglass Doors - This door provides a smooth, high gloss door surface, that is beautiful, yet is strong enough for impact resistance. Constructed with a 6 lb./cubic foot closed-cell foam core, wrapped in 4 layers of glass fiber reinforcements, and resin encapsulated to 1/8" thickness at the door face. This fiberglass door is perfect for any entrance in a corrosive environment — think school kitchens, laboratories, clean rooms, as well as restrooms and locker rooms.

Composite Fiberglass Doors - All the benefits of a Fiberglass Pultruded Door, yet more versatility in size. These doors are made-to-order in desired size, color and FRP door skin texture (smooth, pebble grain, sandstone texture and wood grain). Made with pultruded FRP stile and rail construction, mitered, bracketed corners and factory bonded FRP face sheets for durability. A choice of three core materials is available (EPS, closed cell foam, and polypropylene honeycomb). This commercial grade fiberglass door provides all the benefits of a pultruded fiberglass door, but with face sheet options.

Complete entry solutions

one source for all your entrance needs

Framing

The frame is the foundation of any entrance. It must be capable of holding the components of the entrance system in position securely to keep doors and hardware operating properly without the need for constant adjustment and repair. Many entrance problems attributed to doors are actually frame problems. Choose from any of our aluminum or fiberglass frame options.

Our Aluminum Framing is available in heavy wall flush glazed or applied stop heavy-duty tube frame for entrances subject to heavy traffic or other environmental challenges. Custom manufacturing allows for curves or special shapes. If energy savings is on your agenda, our thermally broken frame has great thermal performance that matches or exceeds the performance of glass.

All Fiberglass Pultruded Framing has 65% glass content which provides excellent impact resistance, corrosion resistance, and strength. It is best suited for damp, chemical or abusive environments. Our All Fiberglass Framing is dimensionally equivalent to hollow metal products, but offers improved aesthetics, performance, durability and longevity that hollow metal can't match.

Renovate entrances with Special-Lite® Retrofit Framing

When replacing metal doors, you can save yourself the hassle of tearing out old metal frames by covering them in place with our capping system and insert frames. It's a fast, money-saving way to make a tired entrance look and perform like new. Or use our insert framing alone for an even more cost-effective solution.



Aluminum Framing



Thermally Broken Framing



Fiberglass Framing

Removable Mullions provide ease of moving large items

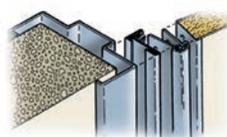
Your entrances can be specified with removable center posts or mullions to allow pianos, large equipment, even marching bands to pass through with ease.



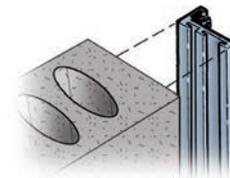
SL-61 Removable Center Post



10-31 Insert Frame for butt hinges



10-32 Insert Frame for continuous gear hinge



10-34 Insert Frame for SL-11 HD

Doors engineered with scalable safety and security options

hurricane and storm, intrusion resistant, ballistic, blast and fire-rated doors

Protect with relevant levels of security and safety

Order the Special-Lite® Fiberglass Door, FRP/Aluminum Hybrid Door, or Monumental Door of your choice engineered and independently tested to meet standardized testing or certification.



SL-17 FRP Flush Door

Storm or Hurricane



ASTM E283
ASTM E331
AAMA 1304
TAS 201, 202, 203
ASTM 1886
ASTM 1996

Blast

ASTM F2927-12
ASTM F1642-04
GSA-TS01-2003



Ballistic

ANSI UL-752, Level 3
NIJ-STD-0108.01, Level 3A



Intrusion Resistance

With today's security challenges both in K-12 and Higher Education, performance glazing can be added as an option to any of our doors or vestibules that require extra protection. The Vision Lite kit, FL-SecureLite, has been engineered for intrusion resistance. Kits are thru-bolted to the door, but have a "snap... cover for aesthetic appeal. Special-Lite partners with intrusion resistant glazing (polycarbonate and glass) manufacturers for the most effective design.



Fire-Rated Doors



For interior applications that require a fire rating, we offer fiberglass/stainless steel clad or all fiberglass fire-rated doors with ratings of 20, 30, 45, 60 or 90 minutes. Most Special-Lite door models have a fire rated door available that allows for a consistent design look on your building.

Easy solutions

Simple options to add security

When the location of your entrance mandates that a little extra security may be needed, consider adding one or more of these Special-Lite standard options:

Internal Proximity Card Reader Prep

Many Special-Lite Doors can be prepped for field installation of low-profile proximity card readers inside the door. Internal mounting keeps the reader out of sight, out of the weather, and out of the reach of vandals, improving security and protecting the card reader unit.

Security Grates and Vandal Screens

Security grates and vandal screens can provide additional security for doors that are subjected to abuse or vandalism. Our security grate can be used over vision lites, bi-fold units, louvers, or other areas where a high level of protection is required. Vandal screens provide moderate security while allowing excellent visibility.

Security Window

Add a vision lite peep door to allow staff to confirm the identity of visitors at the door before opening it, without allowing a continuous view inside the building.

Adjustable Bottom Brush

To compensate for out-of-level or out-of-position final floors, as well as normal settling of older buildings, SpecialLite offers a concealed Adjustable Bottom Brush unit that can be adjusted as required at the time of door installation to provide the best fit.



Adjustable Bottom Brush



Proximity Reader Prep



Security Grate



Vandal Screen



Security Window

Interior spaces that maximize natural light

An open environment that enhances learning

Create an open environment with aesthetically pleasing and stress-reducing natural light for your staff and students.

Whether you choose our Omega (Type 2 framing) or our LiteSpace (glass demountable wall framing), your glass walls and office fronts will be clean, elegant spaces. Our SLI Doors (interior aluminum framed doors) are designed for installation in both framing systems and can swing or slide.

Glass walls have many options for accessories, including glass erase boards.



SLI Door



Restrooms and showers

that hold up to damp and abusive environments

Restroom Partitions

SpecialLite® Restroom Partitions are the ideal choice for restrooms that are expected to endure heavy use and frequent abuse—such as K-12 schools, universities, dormitories and stadiums. Custom fabricated for each order using the same materials and processes as the Special-Lite® FRP/Aluminum Hybrid Door, they're remarkably durable and can withstand mistreatment and willful abuse.

Special-Lite restroom stall doors provide for the use of both an innovative continuous gravity hinge and continuous door-stop. This combined with the use of a full-length corner and wall bracket provides structural integrity and a "peek proof," no sightline compartment.



Fiberglass Restroom Partitions

Shower & Bathroom Doors

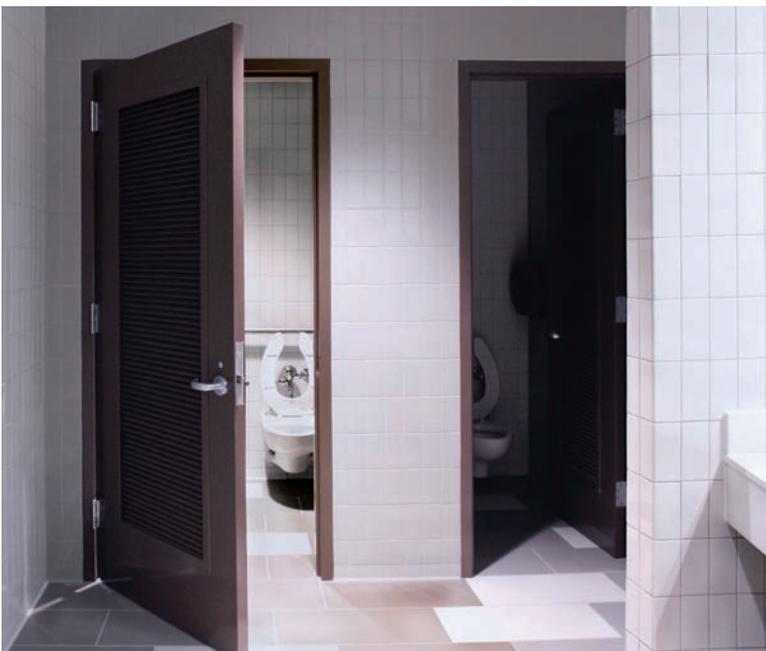
For challenging environments such as locker rooms, pools and rest rooms, Special-Lite offers several choices.

The FRP/Aluminum Hybrid Door can be specified in a wide range of sizes (full door or half). The doors have closed top and bottom rails with foam filled stiles and rails.

The All Fiberglass Pultruded Door is a heavy-duty completely sealed FRP Door. These doors are 1-3/4" thick, hermetically sealed and immune to moisture and corrosive gasses or liquids, making them an excellent choice around pools, locker rooms and bathrooms.



SL-17 FRP Flush Door



AF-100 Pultruded Fiberglass Flush Door

Sustainable solutions

with thermally efficient framing and doors



The proof is in the testimonial

A project involving the replacement of exterior doors with Special-Lite® FRP Doors resulted in a Wisconsin High School gaining excellent thermal benefits. On a cold December morning one boiler was running, where before there would have been four running.

According to the facility person, "I can tell by the temperature in the hallways, and teachers are saying that they are warmer. I'm turning down the temperature in their rooms. It is amazing."

The Director of Operations and Facilities attributes these changes to the replacement of the exterior doors with Special-Lite SL-17 FRP Doors.

Improve indoor air quality with Special-Lite Doors

By definition, one side of every exterior entrance is inside the building, so the entrance products specified play a role in determining indoor air quality (IAQ). Special-Lite's full line of exterior entrance products* are the first to be GREENGUARD Indoor Air Quality Certified®, including the stringent GREENGUARD Standard for Children & Schools.™ GREENGUARD Certification is your independent assurance of IAQ performance.



*Excludes fire-rated doors.
The GREENGUARD INDOOR AIR QUALITY CERTIFIED Mark is a registered certification mark used under license through the GREENGUARD Environmental Institute.

Go green

The importance of thermal efficiency to green building cannot be overstated. Improved energy efficiency is the top driver behind sustainable designs across all industries. The improvement of heating and cooling efficiency is the single most important attribute of the LEED standard, with efficiency requirements being raised with each subsequent version of the standard. It is also the metric with the most obvious return on investment.

Although only a small portion of a structure's surface area, exterior doors and frames are a functional part of the building envelope and can play an important role in the overall energy efficiency of a building. Many of our entrance products are tested per ASHRAE* test methods and their performance meets or exceeds the acceptable performance ratings.

*ASHRAE is accredited by the American National Standards Institute (ANSI) and follows ANSI's requirement for due process and standard development.

Contact your sales representative or Special-Lite for more information.



Special-Lite, Inc.

P.O. Box 6, Decatur, MI 49045
Ph: 800.821.6531 • Fx: 800.423.7610 • speciallite.com

Item #1102-R4
5M 8/17 RRP