



DELTA
FIBERGLASS

An exceptional Durabuilt product



Design Information

Delta Project Consideration

Multi-Family / Mixed Use & Institutional Buildings
Luxury & High-Performance Residences

Punched Openings

Ideally suited for living spaces –
home, classroom and workplace



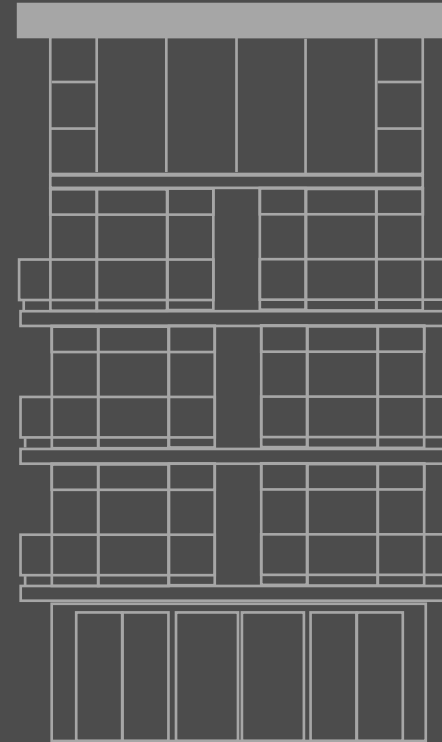
Builder Benefits

Cost & Schedule Control

- ▲ Factory assembled windows installed by on-site trades
- ▲ No typical aluminum frame site assembly and certified glaziers required
- ▲ Reduced labour cost and improved time to completion
- ▲ Easier and faster building envelope tie in with reduced risk

Window / Door Wall

A warm alternative to
aluminum for slab-to-
slab windows & doors
in living spaces, work
place and storefronts
applications



Curtain Wall Insert

Venting inserts into
aluminum or fiberglass
curtain wall



An exceptional Durabuilt Product



Fiberglass

Material Information

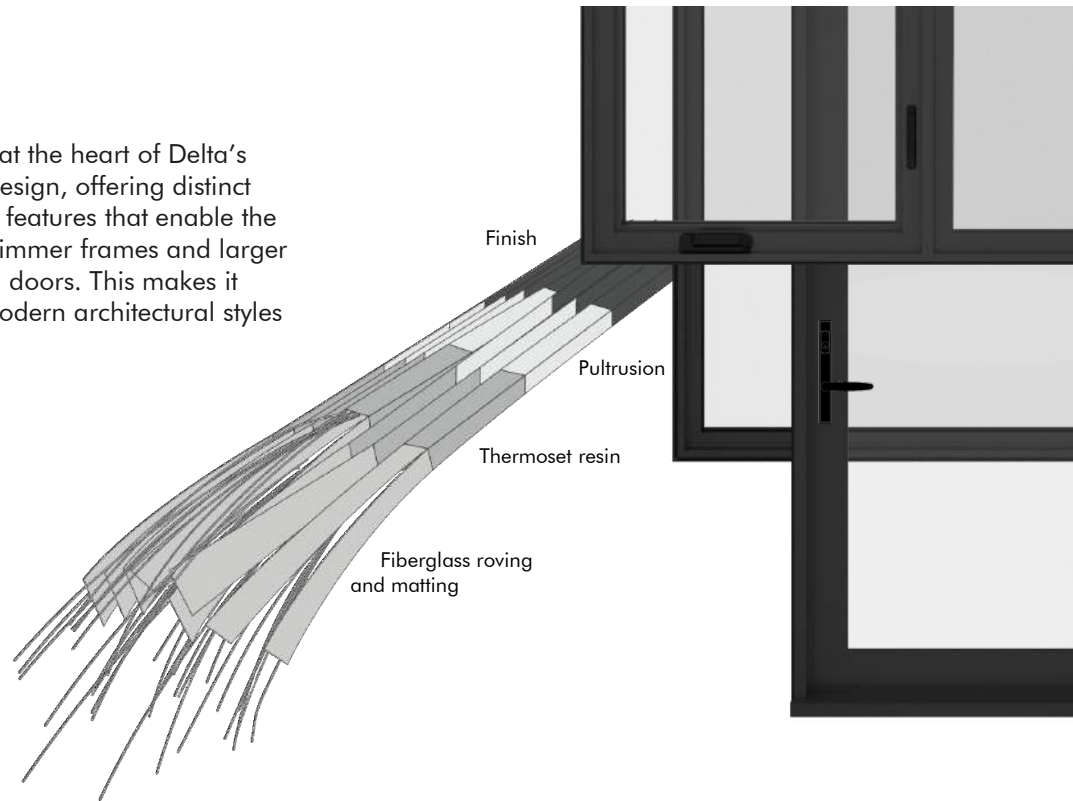


Fiberglass is at the heart of Delta's proprietary design, offering distinct performance features that enable the creation of slimmer frames and larger windows and doors. This makes it perfect for modern architectural styles

Fiberglass, known for its sustainability and eco-friendliness, is the top choice material for green building. Fiberglass roving strings and matting mainly consist of silica sand, a sustainable natural resource. The pultrusion profile process used in creating fiberglass consumes the least embodied energy, making it more environmentally friendly compared to common window frame materials like aluminum and vinyl.

Composed of around 65% fiberglass and 35% thermoset resin, this material is pulled through the profile die, resulting in an exceptionally stable and rigid linear structure. It offers nearly identical expansion and contraction properties, leading to reduced stress, long-term seals, and ease of operation.

The low conductivity of fiberglass, along with the incorporation of insulation in the closed die frame and sash, in addition to our diverse range of comfort-designed glass options, leads to significantly low overall window u-values.



Incredibly Strong

- Greater specific strength compared to steel and aluminum
- Highly rigid and impact resistant to withstand any environment

Dimensionally Stable

- Expands and contracts virtually the same as glass holding its shape in heat and cold
- Low stress results in long-term seals and ease of operation

Thermally Superior

- Low conductivity profiles – foam filled - significantly contribute to superior energy performance and comfortable surroundings
- Passive House and Net Zero ready

Material	Stiffness (GPa)	Thermal Dynamics	Thermal Expansion ($\mu\text{m}/\text{m}\cdot\text{K}$)	Thermal Conductivity ($\text{W}/\text{m}\cdot\text{K}$)	U-Value ($\text{W}/\text{m}^2\text{K}$)
Fiberglass	30–50	Good insulator, low thermal mass	10–15	0.2–0.5	1.5–2.5
Aluminum	70–80	Conducts heat well, high thermal mass	22–24	205	5.0–7.0
Thermally Broken Aluminum	70–80	Improved insulation due to thermal break	22–24	205	2.5–4.0
Soft Wood	10–20	Moderate insulator, lower thermal mass	3–5	0.1–0.2	0.1–0.2
PVC	2–4	Poor conductor, good insulator	70–90	0.14–0.19	1.6–3.0

NOTES: Stiffness – Measured in GPa (Gigapascals), indicates the material's ability to resist deformation.

Thermal Dynamics – Reflects the material's ability to insulate or conduct heat.

Thermal Expansion – Indicates how much the material expands per unit length per degree Kelvin.

Thermal Conductivity – Measures how well the material conducts heat ($\text{W}/\text{m}\cdot\text{K}$).

U-Value – Represents the rate of heat transfer (lower values indicate better insulation).

Design

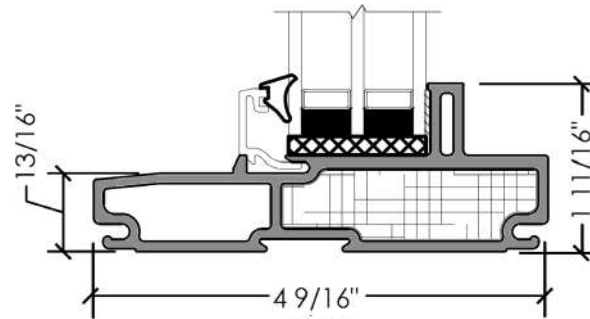
Four profiles – countless combinations



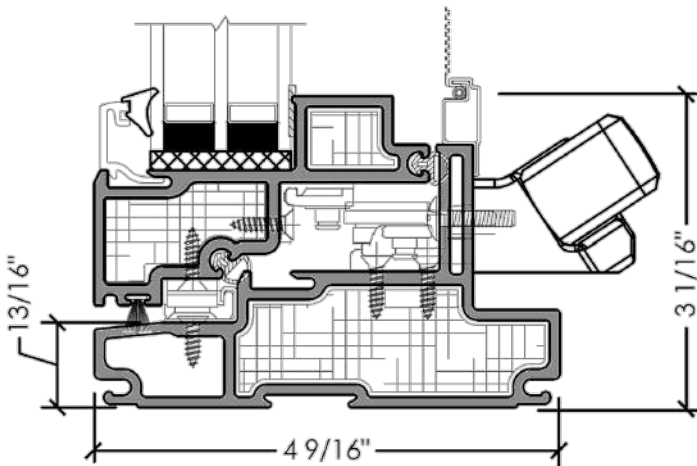
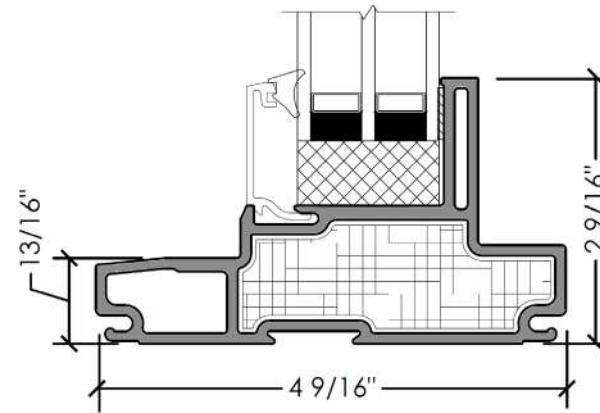
Our proprietary full 4 9/16" profile designs offer the flexibility to craft distinctive combinations that seamlessly enhance your architectural theme.

By prioritizing human experience, these profiles not only serve aesthetic purposes but also foster an environment that engages and inspires individuals.

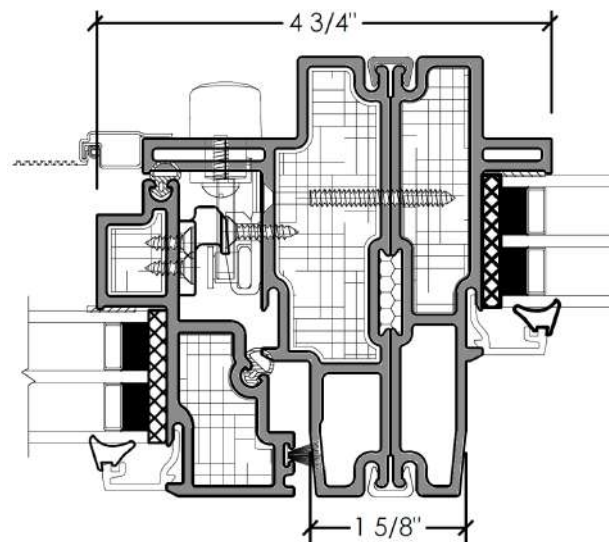
Picture



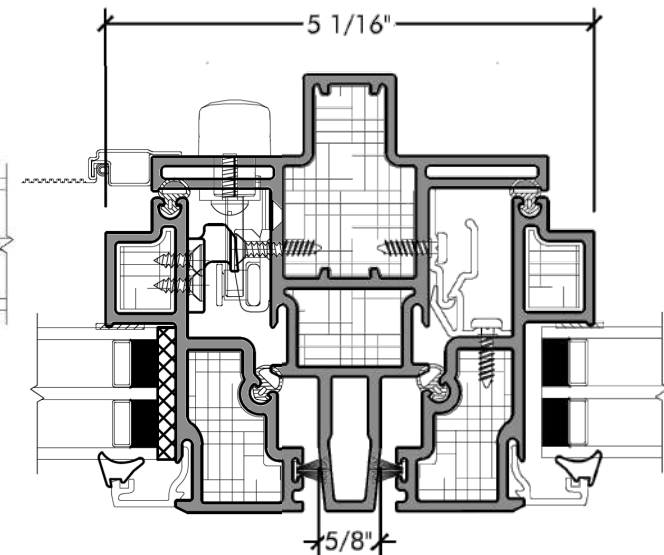
Direct Set



Casement / Awning



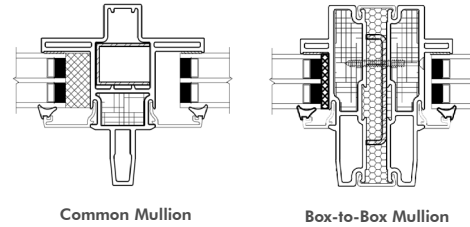
Box-to-Box Mullion



Common Mullion

Sightlines

Mullions & Frames

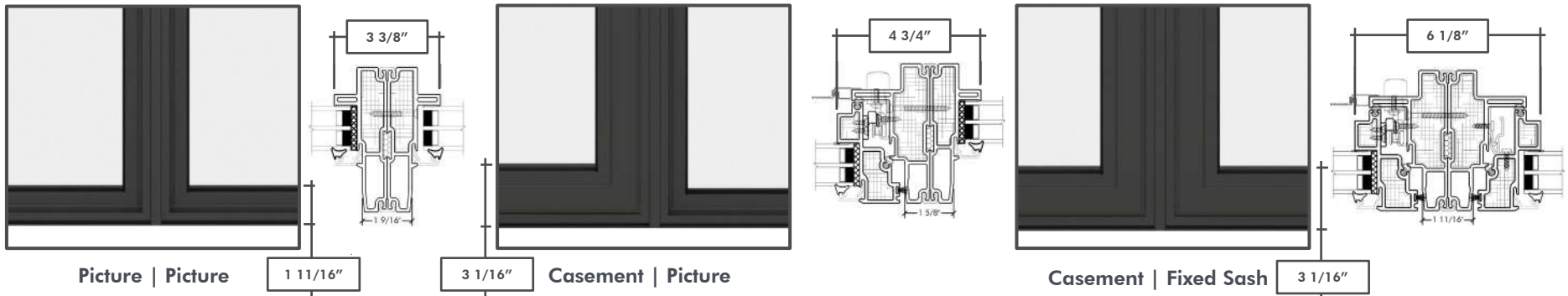


Reinforced Mullion

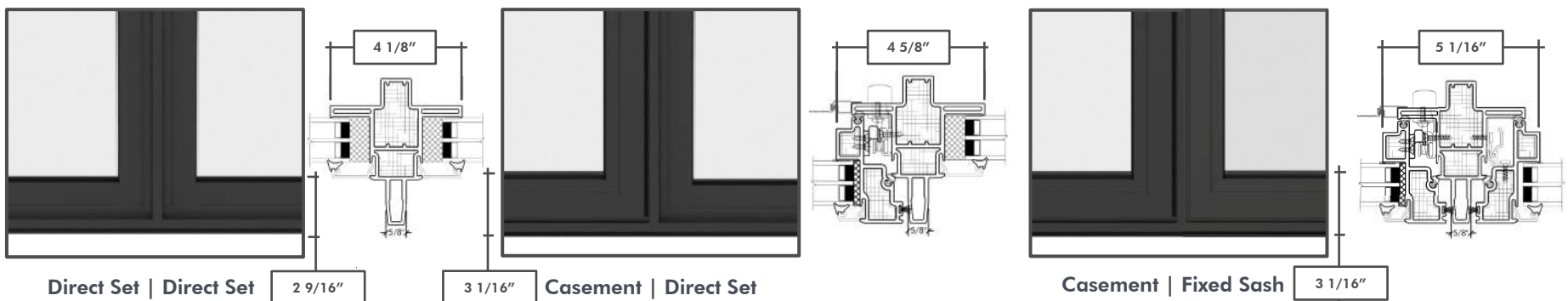
Depending on the mullion span and window configuration reinforcing may be required. This will add 1/2" to the Box-to-Box window sightline.

Common mullions can also be reinforced with no effect to the sightline.

Box-to-Box Mullion



Common Mullion



Light & View

Cross Section Details



Picture

Thinness profile – maximum light and view – single or box-to-box combinations

Direct Set

Glass set in a venting frame – higher sightline – single, common mullion and box-to-box combinations

Fixed Sash

Sash fixed in a venting frame – equal glass sightline to casement / awning for a traditional look – single, box-to-box and common mullion combinations



Notable Features

- 1 Fiberglass frame and sash - strong and dimensionally stable, low stress and extremely long-life cycle – low conductivity and foam filled for thermal performance
- 2 Triple Pane ready – generous selection of comfort oriented LoE choices
- 3 Optional Slimline aluminum brickmould w/ nailing fin securely sets the window into the wall – SEE Exterior Trims Info Sheet for more selections

Minimum & Maximum Sizes

Dimensions = Inches OSM frame

Light & View	Min W	Max W	Min H	Max H	Min SF	Max SF
Picture	10	120	120	10	0.70	55
Direct Set	14	120	120	14	1.36	55
Fixed Sash	16	120	120	16	1.78	55

W=Width H=Height SF=Square Foot

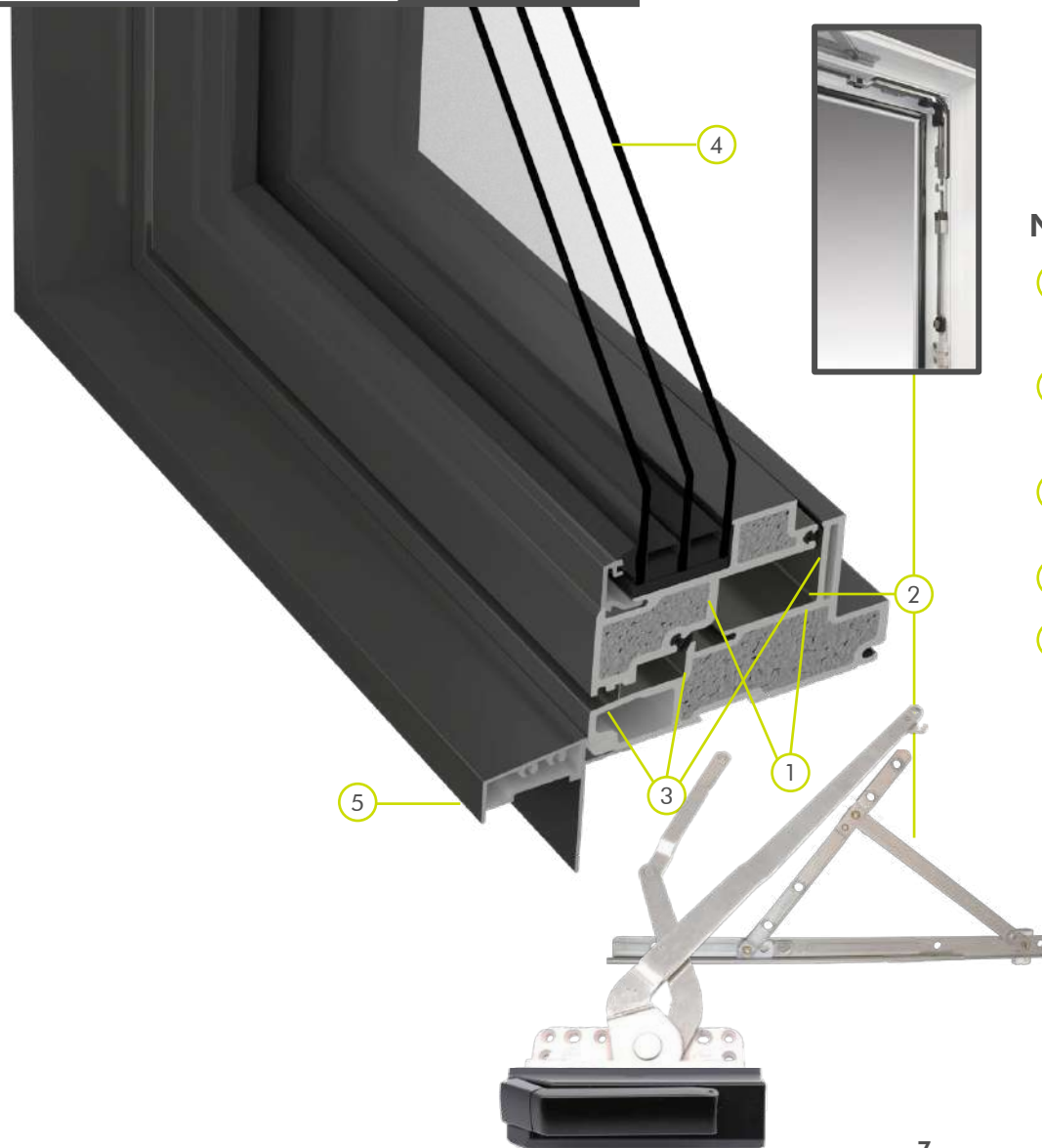
Venting

Cross Section Details



Awning
Opens outward from the sill
for veiled indirect airflow

Casement
Opens outward to 90° for
plentiful direct ventilation



Notable Features

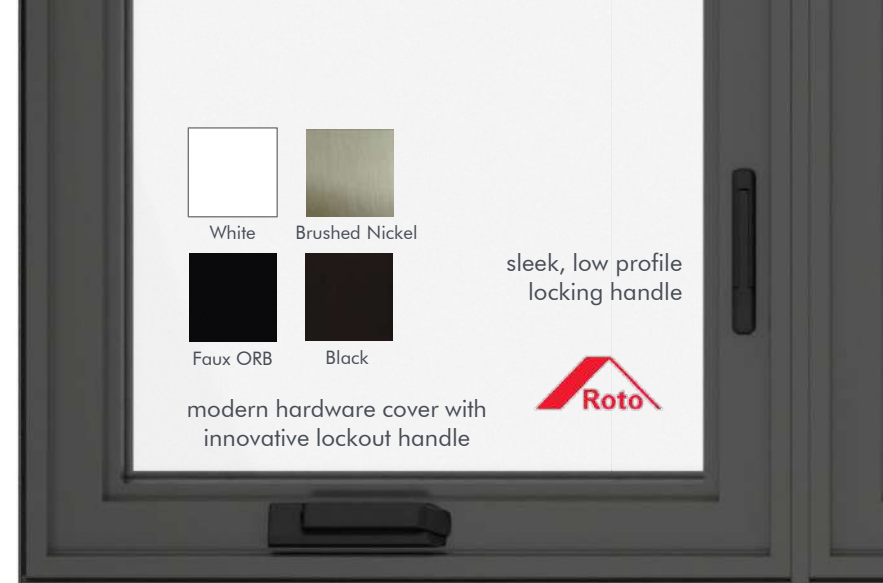
- 1 Fiberglass frame and sash - strong and dimensionally stable, low stress and extremely long-life cycle – low conductivity and foam filled for thermal performance
- 2 Heavy-duty, stainless-steel roto operator and hinges (up to 150lb sash) – easy to operate and life-long durability – Corner Drive locking for tall casement and wide awning windows for added performance
- 3 Tight sealing and supple EPDM rubber primary compression seals and fin-seal mohair low-friction secondary seal
- 4 Triple Pane ready – generous selection of comfort oriented LoE choices
- 5 Optional Slimline aluminum brickmould w/ nailing fin securely sets the window into the wall – SEE Exterior Trims Info Sheet for more selections

Minimum & Maximum Sizes

Dimensions = Inches OSM frame
Maximum Sash weight = 150lbs

Venting	Min W	Max W	Min H	Max H	Min SF	Max SF
Awning	16	72	14	48	1.75	24
Casement	14	40	18	90	1.75	25

W=Width H=Height SF=Square Foot



Finishes

7 Standard Laminate Surfaces



All Delta surfaces are highlighted with a stylish and high-performance laminate finish that offers long-lasting durability, and consistent uniformed surfaces.



Jet Black

Espresso

Sable

Brushed Silver

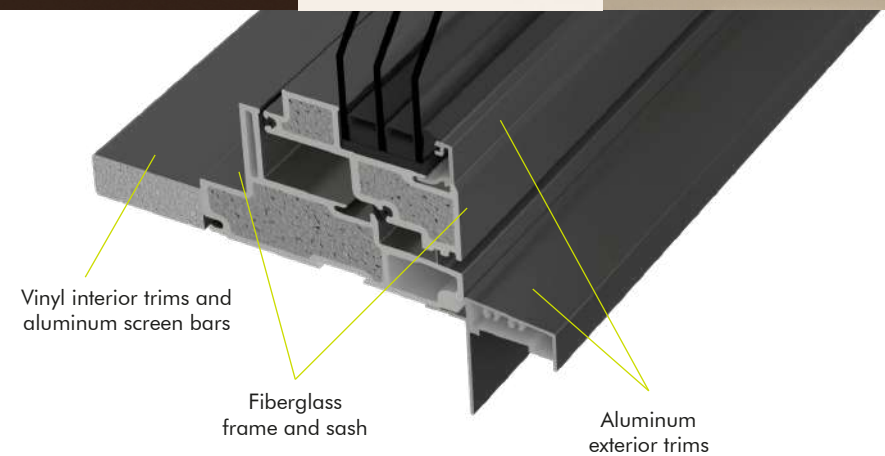
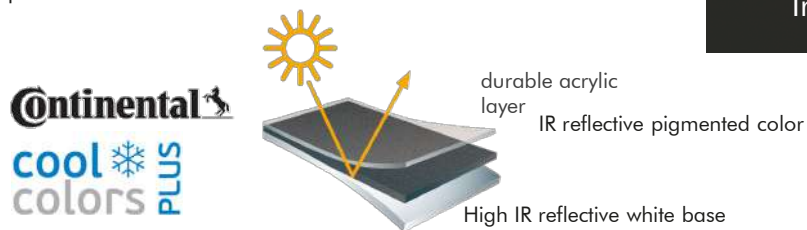
Linen

Silica

Iron Ore

Enduring fashion – consistent uniformed look and performance

The cool colors PLUS patented film is characterized by a 3-layer structure, which makes it extremely efficient in reducing heat absorption, especially on dark surfaces. Up to 80% of the near infrared radiation will be reflected and this technology also achieves excellent results in weathering due to its innovative, 60-micron thick acrylic layer with outstanding UV-protection characteristics.



All components are laminated for a consistent finish throughout.

Tested / Passed – AAMA 307-16 Voluntary Specification for Laminates

Finishes

14 Premium Laminate Surfaces

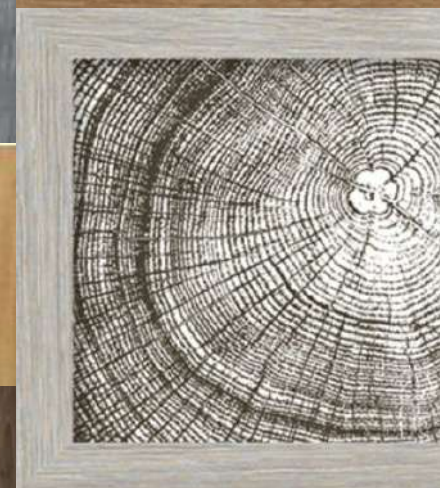
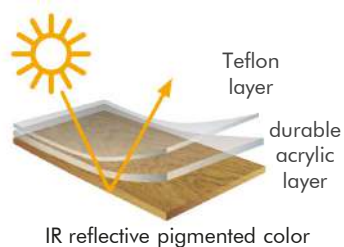


Matte Surfaces

Extremely matte.
Extremely durable.

Our sand matte finish, known as Conti® Mattex, perfectly reproduces the appearance of powder-coated aluminum and features a top layer of Teflon giving the surface high temperature resistance, water-repellent and resistant to chemicals.

In turn, this makes it particularly easy to clean and keeps it in top shape in every respect, even after years of extreme weathering.



Woodec Surfaces

Matte touch.
Wood look

With expressive and modern designs, Woodec ensures a perfect genuine wood look. Almost indistinguishable from a wooden window.

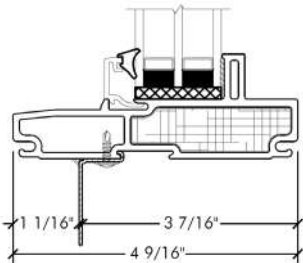
Woodec designs share the Mattex durability and are characterized by a unique matt finish and deep embossing. The perfect combination gives window profiles a particularly high-quality and realistic look.

Exterior Trims

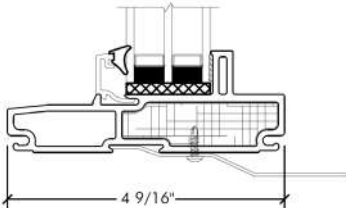
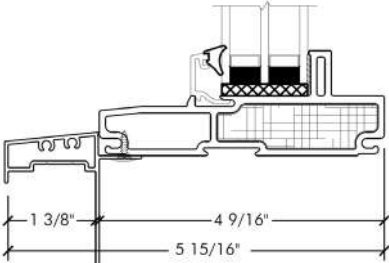
Cross Section Details



Nailing Fin
Aluminum fin set back – creates a minimal look

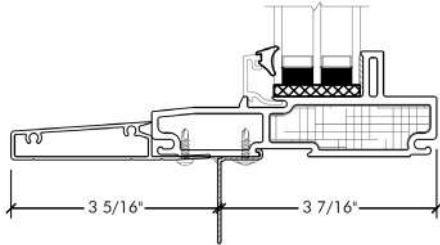
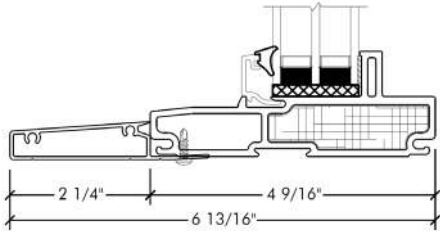


Slimline Brickmould
Aluminum w/ integral nailing fin – continuous for single and combinations and use for doors to create a consistent appearance



Installation Strap
Use for box window or Panning installation

Panning
Ideal for wide wall and exterior insulation applications – position the window where you want and create pleasing shadow box presence



Panning w/ Nailing Fin
Provides a fixed location for application to the wall

Interior Trims

Cross Section Details

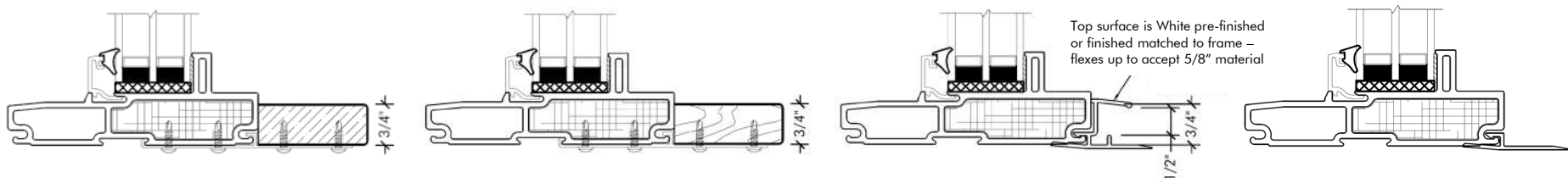


Composite Vinyl
White or laminate finish
match to frame

Stain Grade Wood
Select Fir

Combination Return
White vinyl – easily accepts
your choice of site applied
1/2" x 5/8" or 3/4"
material

Jamb Guide
Handy guide to line up your
choice of site applied jamb
material for a precise fit to
the frame



Composite Vinyl and Stain Grade wood are
available up to 5 7/8" additional width to the frame

Slimline Brickmould Max. jamb depth = 10 7/16"
Nailing Fin Max. jamb depth = 9 5/16"



Jamb Guide Tip for Drywall

A Vinyl Rip L-Bead can provide an
exceptional finish to the window frame.
Tear-away strip offers a protective edge
and guide for drywall finishing
knives. Once joint compound is
applied, finished and painted,
the tear-away strip is removed
to form a crisp, clean edge



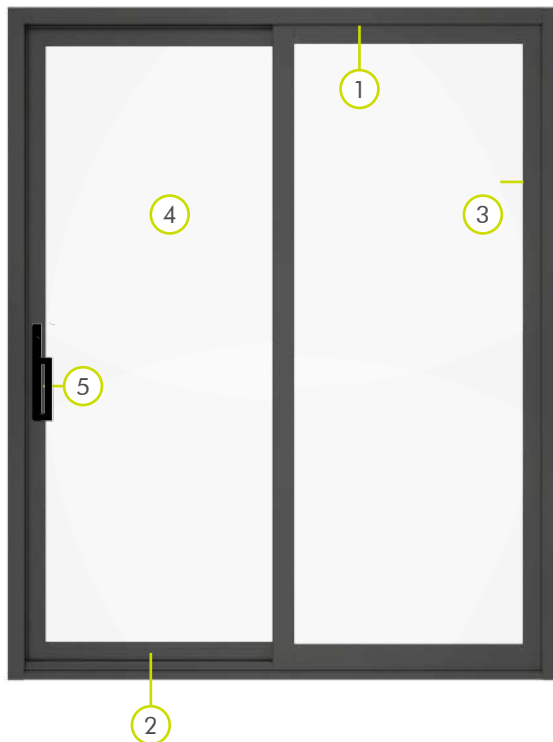
Swing & Sliding Patio Doors

Product Details



Sliding Patio Doors

Selecting a patio door is about more than style; it's about enhancing daily moments. Choose a design that invites light, offers seamless transitions, and enriches connections with family and nature, transforming your living space into a haven.



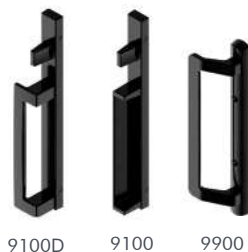
Notable Features

- ① Strong and stable fiberglass modern 4" stile & rail panels and fiberglass frame – available in 2-panel, 3-panel and 4-panel bi-parting configurations
- ② Heavy-duty stainless-steel rollers with precision bearings for exceptionally smooth and easy operation
- ③ Stylish and durable laminate finish that offers long-lasting durability, and consistent uniformed surfaces.
- ④ Triple Pane ready – generous selection of comfort oriented LoE choices
- ⑤ Standard multipoint locking mechanism – stylish handle options



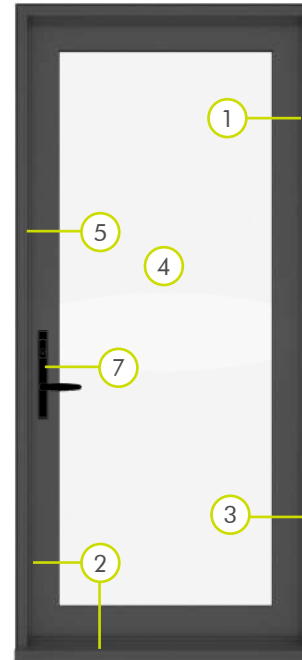
Finishes

White
Black
Satin Nickel
Faux ORB



Swing Patio Doors

Swing patio doors with their stile and rail design enhance light and views, whether in-swing or out-swing, creating welcoming spaces that connect you effortlessly with nature and loved ones.



Notable Features

- ① Strong and stable fiberglass modern 4" and slimline 3 1/2" stile & rail panel and fiberglass frame – available in single and double doors, sidelites and transoms
- ② Weatherstripping and sill system delivering unmatched performance against air and water infiltration,
- ③ Slimline aluminum brickmould w/ nailing fin securely sets the window into the wall – optional exterior panning also available
- ④ Triple Pane ready – generous selection of comfort oriented LoE choices
- ⑤ Ferco Secury automatic multipoint locking with typical lever low set up tightly seals the door and offers added security
- ⑥ Heavy-duty ball-bearing hinges in matching finishes
- ⑦ Wide selection of fashionable Emtek levers and backplates in 5 finishes – Danalock and Tedee smart lock keyless entry available

EMTEK



Large Format Doors Product Details



Lift Slide Doors

Strong and stable fiberglass modern 4" and slimline 3 1/2" stile & rail panels and fiberglass frame

Slimline aluminum brickmould w/ nailing fin securely sets the door into the wall – optional exterior panning also available

Low profile sloped sill – flush sill also available

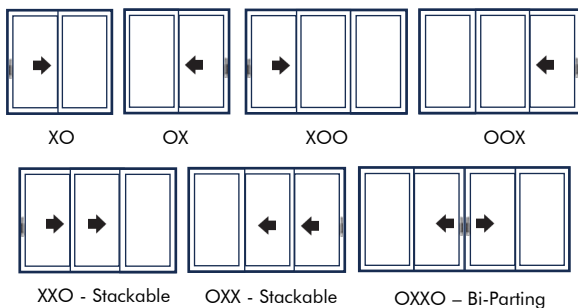
Unparalleled effortless gliding with Roto® Hardware lift slide system, engineered for smooth operation and lasting durability.

Triple Pane ready – generous selection of comfort oriented LoE choices

Black and Stainless Steel handle selections

Available with the Elite sliding or Vista retractable screen

Lift Slide Album



Modern Entry Swing & Pivot Doors

Artema specializes in custom fiberglass doors using innovative ideas allowing you to create a one-of-a-kind entryway.

Swing doors up to 48" x 120" and Pivot doors up to 60" x 120"

Pre-finished smooth & lifelike woodgrain fiberglass finishes. Design as you'd like with grooves, inlay and flush glass options.

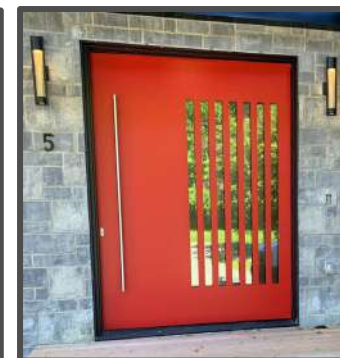
Remarkable hardware offering and Delta Fiberglass colors & options.



Swing Album



Pivot Album



Sizing Guidelines



Windows	Min width	Max width	Min height	Max height	Min area (sq. ft.)	Max area (sq. ft.)	Max Sash weight (lbs)
Picture	10"	11'8"	10"	11'8"	0.69	55	
Direct Set	1'2"	11'8"	1'2"	11'8"	1.36	55	
Awning	1'4"	6'0"	1'2"	4'0"	1.75	24	150
Casement	1'2"	3'4"	1'6"	7'8"	1.75	25	150
Fixed Sash	1'2"	9'0"	1'6"	9'0"	1.75	40	250

Swing Door Sizing Guidelines	Min width	Max width	Min height	Max height
Swing Door - Single	2'2"	3'8"	5'0"	10'0"
Swing Door - Double	4'3"	7'3"	5'0"	10'0"
Swing Door Sidelite	1'0"	3'8"	5'0"	10'0"
Swing Door Transom	1'0"	9'0"	1'0"	4'0"

Sidelite / Transoms less than 1'2" available in direct set only

Sidelite / Transom more than 1'2" up to 9" wide available in direct set and panel

Sidelite wider than 3'8" and up to 55 sf available in direct set only

Sliding Patio Door Sizing Guidelines	Min width	Max width	Min height	Max height
2 Wide Sliding Patio Door	4'0"	10'0"	5'0"	10'0"
3 Wide Sliding Patio Door	6'0"	15'0"	5'0"	10'0"
4 Wide Sliding Patio Door	8'0"	19'8"	5'0"	10'0"

COMBINATION AND MULLION RULES

Combination units with (Picture, Casement, Awning, Fixed sash and Doors)

Maximum of 24' x 10' or 10' x 24" (240 sq. ft.)

Site mulling required for any combination window with both width and height exceeding 10' frame size and any combination wider or taller than 24'

All units larger than our maximum single and combination rules require DURABUILT engineering evaluation.

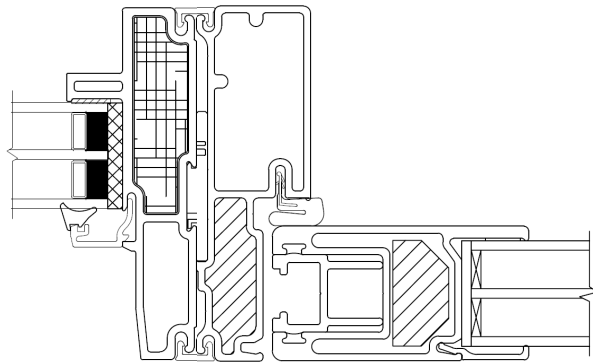


Lift Slide Sizing Guidelines	Max width (up to 8' height)	Max width (up to 10' height)	Max height (in)
Lift Slide 2-Panel	13' 9"	11' 9"	10'
Lift Slide 3-Panel Stackable (2 sliding, 1 fixed)	20' 6"	17' 6"	10'
Lift Slide 3-Panel (1 sliding, 2 fixed)	20' 9"	17' 9"	10'
Lift Slide 4-Panel (2 sliding, 2 fixed)	27' 6"	24' 6"	10'
Transom (Direct set)	up to 36"		

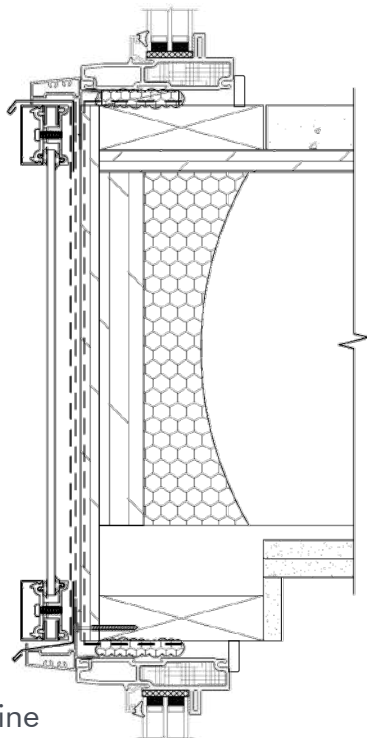
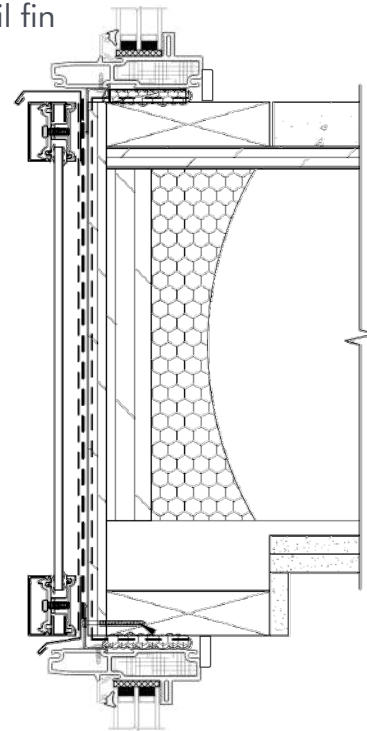
Picture w/ nail fin

Commercial Design Solutions

Window Wall



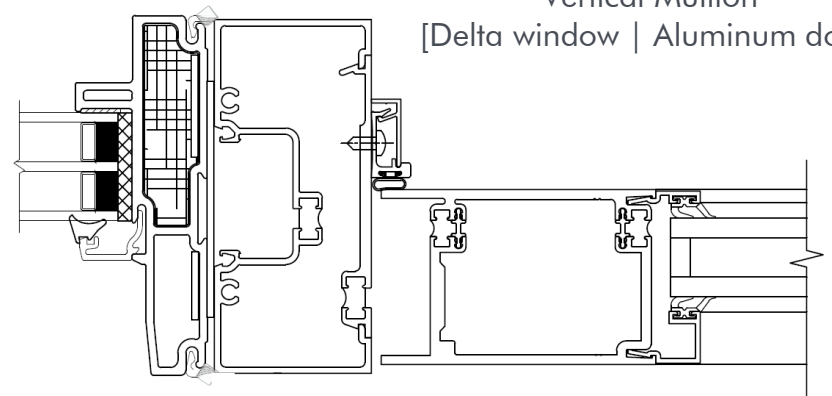
Vertical Mullion
[Delta window | Delta door]



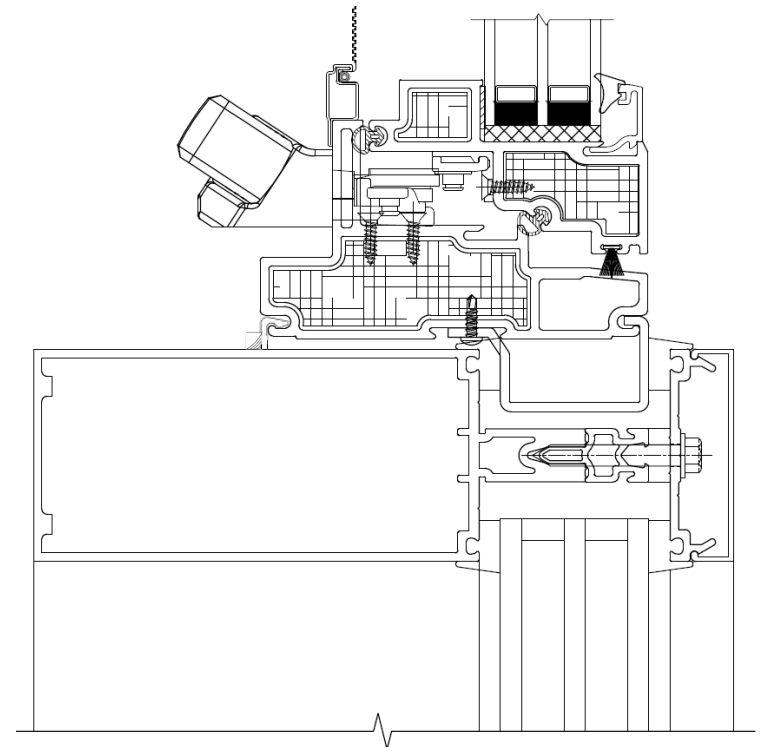
Picture w/ Slimline
brickmould & nail fin

Storefront

Vertical Mullion
[Delta window | Aluminum door]



Curtain Wall Insert



Energy Performance Windows



Delta Fiberglass windows deliver impressive energy performance.

Our low conductivity fiberglass foam filled frames, warm edge spacer bars and glazing types provide ample selections to meet your energy code requirements and comfortable surroundings.

U-Factor is the rate of heat transfer from warm to cold areas in watts per square metre Kelvin (W/m²K) or in British thermal units per hour per square foot Fahrenheit (Btu/h x sq. ft. x °F). In either case, the lower the number, the more efficient the product.

(ER) Energy Rating is a value demonstrating the balance between U-factor, SHGC and air leakage. The higher the number, the more efficient the window.

(SHGC) Solar Heat Gain Coefficient is the fraction of solar radiation admitted through a window transmitted directly and/or absorbed, and subsequently released as heat inside a home. SHGC is a whole window rating and includes the impact of the frame area, or a Centre of Glass values that take in glass VLT only. The lower the SHGC, the less solar heat it transmits and the greater its shading ability.

(VLT) Visible Light Transmittance is an optical property that indicates the fraction of visible light transmitted through the window. VT is a whole window rating and includes the impact of the frame area, or a Centre of Glass values that take in glass VLT only. The higher the VT, the more light is transmitted.

(UV) Ultraviolet Light Transmittance is a portion of the solar spectrum (300 to 380 nm) of the energy that accounts for the majority of fading of materials and furnishings. It is measure as the percentage transmitted through the glass only. It has also been shown that experimentally fading damage can also occur from light in nearly the entire visible light spectrum.

DELTA Glazing Configuration Make Up	
Triple Pane	
Sun Gain ER	Cardinal 180 (surface 5), argon fill
Sun Gain ER2	Cardinal 180 (surface 2), Cardinal 180 (surface 5), argon fill
Solar Block U	Cardinal 270 (surface 2), argon fill
Solar Block U2	Cardinal 270 (surface 2), Cardinal 180 (surface 5), argon fill
Solar Block UX	Cardinal 366 (surface 2), argon fill
Solar Block UX2	Cardinal 366 (surface 2), Cardinal 180 (surface 5), argon fill
Dual Pane	
Sun Gain ER	Cardinal 180 (surface 3), argon fill
Solar Block U	Cardinal 270 (surface 2), argon fill

All values are based on 3mm glass without grids. Specific information with different glass thickness and grid type are available.



Window Type / Glazing Type			Total Window Energy Ratings					COG (Centre Of Glass) Comfort Ratings				
			U-factor (imp.)	U-factor (metric)	ER	SHGC	VLT	U-factor (imp.)	U-factor (metric)	SHGC	VLT	UV Trans.
Picture	Triple Pane	Clear	0.29	1.63	40	0.61	0.66	0.29	1.64	0.70	0.75	48%
		Sun Gain ER	0.20	1.11	47	0.54	0.63	0.18	1.04	0.61	0.73	20%
		Sun Gain ER2	0.15	0.86	49	0.49	0.61	0.13	0.75	0.56	0.70	13%
		Solar Block U	0.20	1.13	32	0.30	0.56	0.18	1.05	0.34	0.64	14%
		Solar Block U2	0.15	0.84	38	0.29	0.54	0.13	0.73	0.33	0.62	7%
		Solar Block UX	0.20	1.11	28	0.22	0.52	0.18	1.03	0.25	0.59	9%
		Solar Block UX2	0.15	0.83	34	0.21	0.50	0.13	0.72	0.24	0.57	2%
	Dual Pane	Clear	0.44	2.48	25	0.68	0.72	0.45	2.58	0.78	0.82	58%
		Sun Gain ER	0.27	1.53	41	0.60	0.69	0.26	1.48	0.69	0.79	29%
		Solar Block U	0.26	1.47	26	0.32	0.61	0.25	1.41	0.37	0.70	14%
	Solar Block UX	0.25	1.44	22	0.24	0.22	0.24	1.37	0.27	0.65	5%	
Direct Set	Triple Pane	Clear	0.28	1.59	38	0.57	0.61	0.29	1.64	0.70	0.75	48%
		Sun Gain ER	0.20	1.11	45	0.50	0.59	0.18	1.04	0.61	0.73	20%
		Sun Gain ER2	0.16	0.89	47	0.46	0.56	0.13	0.75	0.56	0.70	13%
		Solar Block U	0.20	1.13	31	0.28	0.52	0.18	1.05	0.34	0.64	14%
		Solar Block U2	0.15	0.87	37	0.27	0.50	0.13	0.73	0.33	0.62	7%
		Solar Block UX	0.20	1.11	28	0.20	0.48	0.18	1.03	0.25	0.59	9%
		Solar Block UX2	0.15	0.86	33	0.20	0.46	0.13	0.72	0.24	0.57	2%
	Dual Pane	Clear	0.42	2.40	24	0.63	0.67	0.45	2.58	0.78	0.82	58%
		Sun Gain ER	0.27	1.51	39	0.56	0.64	0.26	1.48	0.69	0.79	29%
		Solar Block U	0.26	1.45	26	0.30	0.57	0.25	1.41	0.37	0.70	14%
	Solar Block UX	0.25	1.43	21	0.22	0.52	0.24	1.37	0.27	0.65	5%	
Casement	Triple Pane	Clear	0.26	1.49	34	0.47	0.50	0.29	1.64	0.70	0.75	48%
		Sun Gain ER	0.20	1.11	39	0.41	0.48	0.18	1.04	0.61	0.73	20%
		Sun Gain ER2	0.16	0.92	41	0.37	0.46	0.13	0.75	0.56	0.70	13%
		Solar Block U	0.20	1.12	28	0.23	0.42	0.18	1.05	0.34	0.64	14%
		Solar Block U2	0.16	0.91	33	0.22	0.41	0.13	0.73	0.33	0.62	7%
		Solar Block UX	0.20	1.11	25	0.17	0.39	0.18	1.03	0.25	0.59	9%
		Solar Block UX2	0.16	0.90	30	0.17	0.38	0.13	0.72	0.24	0.57	2%
	Dual Pane	Clear	0.38	2.15	23	0.52	0.54	0.45	2.58	0.78	0.82	58%
		Sun Gain ER	0.25	1.44	35	0.46	0.52	0.26	1.48	0.69	0.79	29%
		Solar Block U	0.25	1.40	23	0.25	0.46	0.25	1.41	0.37	0.70	14%
	Solar Block UX	0.24	1.38	20	0.18	0.43	0.24	1.37	0.27	0.65	5%	
Awning	Triple Pane	Clear	0.26	1.50	34	0.47	0.50	0.29	1.64	0.70	0.75	48%
		Sun Gain ER	0.20	1.11	39	0.41	0.48	0.18	1.04	0.61	0.73	20%
		Sun Gain ER2	0.16	0.93	41	0.37	0.46	0.13	0.75	0.56	0.70	13%
		Solar Block U	0.20	1.13	28	0.23	0.42	0.18	1.05	0.34	0.64	14%
		Solar Block U2	0.16	0.91	33	0.22	0.41	0.13	0.73	0.33	0.62	7%
		Solar Block UX	0.20	1.11	25	0.17	0.39	0.18	1.03	0.25	0.59	9%
		Solar Block UX2	0.16	0.91	29	0.17	0.38	0.13	0.72	0.24	0.57	2%
	Dual Pane	Clear	0.38	2.15	22	0.52	0.54	0.45	2.58	0.78	0.82	58%
		Sun Gain ER	0.26	1.45	34	0.46	0.52	0.26	1.48	0.69	0.79	29%
		Solar Block U	0.25	1.40	23	0.25	0.46	0.25	1.41	0.37	0.70	14%
	Solar Block UX	0.24	1.38	20	0.18	0.43	0.24	1.37	0.27	0.65	5%	



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Structural Performance Windows



NAFS Overview

The North American Fenestration Specifications (NAFS) provide standardized performance criteria for windows, doors, and skylights. It ensures product reliability by defining testing methods for air and water leakage, structural integrity, and operational performance. The Canadian Supplement tailors these guidelines to meet the unique climate conditions and regulations of Canada.

Structural Performance | NAFS

In accordance with AAMA/WDMA/CSA 101/.S./A440-11 Standard, "NAFS – North American Fenestration Specifications and A440SI-17 Canadian Supplement



The information is based on tested sizes of single units and a composite (combination) window with a span of 80" and 50 square feet.

Delta Fiberglass windows may have a different Performance Grade based on the window type, size and configuration.

To obtain your project specific NAFS Performance Grade ratings contact deltafiberglass@durabuiltwindows.com

Window Type	Air	Air Leakage L/s.m2 (cfm/ft2)	Performance Grade (Test Size)	Water
Picture	Fixed	Fixed	CW - PG55 (60" x 108")	720 Pa (15.04 psf)
Picture	Fixed	Fixed	CW - PG50 (72" x 72")	720 Pa (15.04 psf)
Picture	Fixed	Fixed	CW - PG55 (86" x 92")	720 Pa (15.04 psf)
Picture	Fixed	Fixed	CW - PG55 (130" x 66")	720 Pa (15.04 psf)
Direct Set	Fixed	Fixed	CW - PG55 (72" x 108")	720 Pa (15.04 psf)
Direct Set	Fixed	Fixed	CW - PG70 (72" x 72")	720 Pa (15.04 psf)
Direct Set	Fixed	Fixed	CW - PG55 (88" x 90")	720 Pa (15.04 psf)
Direct Set	Fixed	Fixed	CW - PG55 (130" x 66")	720 Pa (15.04 psf)
Casement	A3	0.1 (0.02)	CW - PG55 (30" x 90")	720 Pa (15.04 psf)
Casement	A3	0.1 (0.02)	CW - PG70 (32" x 60")	720 Pa (15.04 psf)
Casement	A3	0.1 (0.02)	CW - PG45 (40" x 90")	720 Pa (15.04 psf)
Awning	A3	0.1 (0.02)	CW - PG55 (60" x 48")	720 Pa (15.04 psf)
Awning	A3	0.1 (0.02)	CW - PG55 (48" x 32")	720 Pa (15.04 psf)
Awning	A3	0.1 (0.02)	CW - PG45 (72" x 48")	720 Pa (15.04 psf)
Fixed Sash	Fixed	Fixed	CW - PG40 (72" x 108")	720 Pa (15.04 psf)
Fixed Sash	Fixed	Fixed	CW - PG70 (72" x 72")	720 Pa (15.04 psf)
Composite (Mullion)	A3	0.1 (0.02)	R - PG75 (90" x 80")	720 Pa (15.04 psf)



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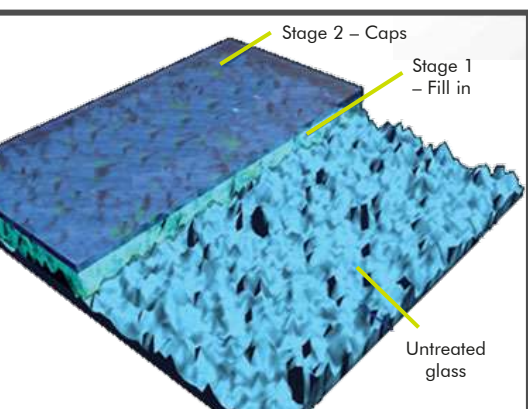
EasyClean+ Glass Technology



Technical Overview & Features

Untreated glass is a naturally porous surface, which means it contains thousands of microscopic peaks and valleys. As a result, environmental contaminants can penetrate the surface of glass causing stains and corrosion. This inevitably makes the glass tougher to clean and eventually results in damaged glass that cannot be restored. The solution?

EasyClean+ glass technology - an optically clear, low-maintenance coating that fills in the peaks and valleys of the surface via a two-stage chemical process:



Stage 1

EasyClean+ fills in the glass by creating a chemical reaction that causes a cross-linked and branched silicone film to be grown from below the surface out.

Stage 2

The second stage caps the entire chain of atoms. This unique capping substantially increases the hydrophobicity and durability of the glass.

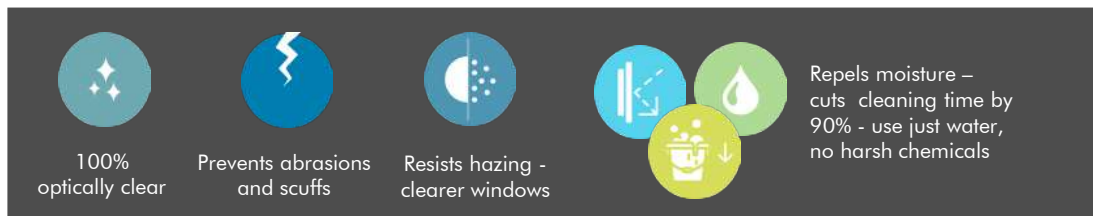
EasyClean+ Nanochemistry – Covalent Bond

The chemical reaction bonds to form an ultra-thin protective layer of optically clear durable material, a web-like nano structure, making the surface significantly smoother. This method is called nano-chemistry. This patented process is a covalent bond, meaning that the coating shares the electrons within the glass itself, thus becoming a part of the glass.

Sparkling Glass Protection

Large views and streaming natural light evoke a sense of calming to a homes surrounding. Our extensive selection of LoE coatings offer thermal and heat protection but we take it one step further by making certain your glass surface is protected – both outside and inside.

EasyClean+ coating turns ordinary glass into extraordinary glass. The coating creates a covalent molecular bond making glass smooth and clear. As a result, enjoy crystal-clear, scratch resistant and high performing windows for the entirety of their lifetime, guaranteed.



EasyClean+ Features & Benefits

- Hydrophobic [water repellency] – 90% easier to clean
- Oleophobic [Oil repellency] – Stain and graffiti resistant: easier to remove
- Optical clarity – 100% optically clear
- Environmentally friendly – No harsh chemical cleaners needed
- Brilliance – adds more shine
- UV resistant – Won't breakdown in sunlight
- Scratch resistant – Prevents abrasion and scuffs



Contact Angle Greater Than 100°

How high a bead of water stands on a surface. More specifically, it measures the angle created between the edge of a drop of liquid and the surface of the substrate. The more repellent a surface is to that liquid, the higher the contact angle.

Sliding Angle Less Than 15°

Measures the "smoothness" of a surface by placing a drop of water at the end of the glass and tilting the glass until the drop begins sliding. The tilt of the glass at that very instant is the sliding angle. This is also known as the coefficient-of-friction (COF). The lower the sliding angle, the smoother the surface.



An exceptional Durabuilt product



Frame / Sash Profiles and Construction

- 4 9/16", heavy profile, pultruded fiberglass frame, double interior wall as a glazing tower and for secure hardware placement for casement and awning windows, galvanized backing inserted into the profile to secure hardware fasteners, polystyrene foam filled for optimal thermal insulation.
- Heavy profile, pultruded fiberglass sash, double interior wall as a glazing tower, galvanized backing inserted into the profile to secure hardware fasteners, polystyrene foam filled for optimal thermal insulation.
- Frame and sash corners are mechanically fastened using a combination of a reinforced polymer key, injected sealant and screws, silicone sealed at the edges.
- Typical box-to-box mullion for combinations are securely fastened and sealed and have a flush exterior and interior mullion cap, 1/2" steel reinforced mullion available if required.
- Composite designs feature a continuous frame, and a common mullion placed vertically or horizontally; steel reinforcing available if required.

Finish

- Continental® durable and high-performance laminate film applied to fiberglass profiles, aluminum exterior trims and interior trims for a consistent appearance and weathering.
- Tested / Passed – AAMA 307-16 Voluntary Specification for Laminates
- Seven (7) standard finishes, 10 premium Mattex® finishes and 4 Woodec® finishes, split finish (different exterior and interior finishes) available.

Hardware

- Roto® heavy-duty, stainless-steel casement and awning outward opening hardware allowing for up to 150 lb. sash weight.
- Heavy-duty, stainless-steel hinges, multipoint locking hardware with stainless-steel tie bar, sash lock / keepers based on sash height, concealed steel snubbers on hinge jamb.
- Sash restrictors and egress hinges are available.
- Optional Corner Drive locking hardware available for tall casement and wide awning windows
- Contemporary hardware cover and folding handle and low profile camlock available in four finishes.
- Insect screens are roll-formed aluminum laminate film finish to match the frame and sash, mitred at the corner, spring loaded with tab pulls, fiberglass screen cloth.

Weatherstripping

- Triple weather-stripped, two compression EPDM closed-cell weather-stripping applied continuously around corners around the sash for a tight positive seal to the frame, one friction mohair fin-seal weather-stripping open at the corners to allow water egress.

Glazing / Glass

- Exterior aluminum glazing stops with EPDM glazing wedge, vented for water egress, interior closed cell glazing tape.
- Flat glass complying with CAN/CGSB-12.3 with standard thicknesses of nominal 3mm, 4mm & 5mm combinations. Maximum glass thickness for a triple pane is 5mm. 6mm glass available in a dual pane configuration.
- Dual pane sealed units 19mm (3/4") or 25mm (1"), triple pane sealed units 35mm (1 3/8"), warm edge Super Spacer® backed with polysulfide sealant.
- Glazing options include: Dual pane and triple pane Clear, Sun Gain ER (Cardinal LoE180 – surface 2 or 5), Solar Block U (Cardinal LoE270 – surface 2), Solar Block UX (Cardinal LoE366 – surface 2), triple pane two-surface LoE; Solar Gain ER2 (LoE180 – surface 2 & 5), Solar Block U2 (LoE270 – surface 2, LoE180 – surface 5), Solar Block UX2 (LoE366 – surface 2, LoE180 – surface 5)
- Tinted glass options include Solarcool Grey, Solarcool Bronze. Privacy glass options include Pinhead, Satin Etch, Rain and Reeded
- A selection of internal 5/16", 3/4 and 1" grilles between glass and 1", 1 1/2" and 2 3/8" simulated divided lite with shadow bars.

Trims

- Exterior trims include slimline aluminum brickmould extending 1 3/8" from the frame with an integral nailing fin, aluminum nailing fin fixed to the frame with a 1" setback providing a 3 1/4" jamb, exterior aluminum exterior panning extending 2 1/4" from the frame; can be combined with the aluminum nailing fin for an overall setback of 3 1/4". Aluminum installation strap available.
- Interior trims include applied composite vinyl jamb extension as white or laminate finished to match the frame, combo return that accepts 1/2", 5/8" or 3/4" material in white or laminate finished to match the frame, white vinyl jamb guide that allows for correct placement of your choice of jamb material.

Manufacturer

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P. 780-455-0440

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We're here for you.

The success of your project is important to us, and we've assembled a team of dedicated experts that are backed by proven and engaged internal teams all aligned to deliver an experience beyond expectations.

Our Design Gallery locations inspire with engaging displays and workspaces to help get all the details right.

All our local sales professionals are connected and experienced and will be involved through out the entire process – from start to finish.

Lethbridge Design Gallery

1350 39 St N
Lethbridge, AB
T1H 5L8

Tel: 403-320-8201

Calgary Design Gallery

2105, 6027 79 Ave SE
Calgary, AB
T2C 5P1

Tel: 403-723-0410

Edmonton Manufacturing Plant & Design Gallery

10920 178 St NW
Edmonton, AB
T5S 1R7

Tel: 780-455-0440

Saskatoon Design Gallery

3247A Millar Ave
Saskatoon, SK
S7K 5Y3

Tel: 306-665-0870

Winnipeg Design Gallery

101 - 455 De Baets St,
Winnipeg, MB
R2J 4K3

Tel: 204-415-4351

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