VITRIUS

High-Performance IGU Series

Standard: NFRC 100-2010 / ASTM E2190

FABRICATION CAPABILITIES

Max IGU Size:
10' 10" x 39' 4"
(3300mm x 12000mm)

Min IGU Size:
10" x 18"
(250mm x 450mm)

Spacer Options:
1/4" to 1" (6mm – 27mm)
Aluminum or Warm Edge



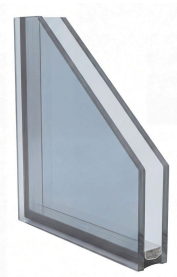


01. Ultra-Clear Low-Iron IGU (Phantom Aesthetic)

Configuration: 3/16" (5mm) FT Low-Iron | 1/2" (12mm) Air Space | 3/16" (5mm) FT Low-Iron

Core Advantage: Maximizes natural light transmission with true color fidelity. Eliminates the "green edge" characteristic of standard float glass for an invisible building envelope.

Tvis	U-Factor	SHGC	VLR-Ext
83%	0.47	0.83	15%





02. Solar Control Low-E IGU (Model: ZTCN8)

Configuration: 3/16" (5mm) FT Low-E (ZTCN8) | 1/2" (12mm) Air Space | 3/16" (5mm) FT Low-Iron

Core Advantage: Superior Solar Protection (0.43 SHGC) significantly reduces HVAC cooling loads in hot climates while maintaining excellent visual comfort (54% VLT).

Tvis	U-Factor	SHGC	VLR-Ext
54%	0.32	0.43	19%





03. High-Transparency Low-E IGU (Model: ZTCB6)

Configuration: 3/16" (5mm) FT Low-E (ZTCB6) | 1/2" (12mm) Air Space | 3/16" (5mm) FT Low-Iron

Core Advantage: An optically neutral solution with extremely low exterior reflectance (1). Perfectly bridges the performance gap between clear glass and solar control coatings.

Tvis	U-Factor	SHGC	VLR-Ext
72%	0.32	0.60	10%





04. Solar Control IGU w/ Internal Muntins (GBG)

Configuration: 3/16" Low-E (ZTCN8) | 1/2" Air Space w/ Muntins | 3/16" Low-Iron

Core Advantage: Simulates the classic aesthetic of divided lites while offering modern solar control. "Grilles Between Glass" (GBG) are completely maintenance-free.

Tvis	U-Factor	SHGC	Style
54%	0.32	0.43	GBG





05. Triple-Pane Ultra-Clear IGU (Extreme Insulation)

Configuration: 3/16" Low-Iron | 1/2" Air | 3/16" Low-Iron | 1/2" Air | 3/16" Low-Iron

Core Advantage: The ultimate thermal envelope. Dual-cavity construction achieves a 0.31 U-Factor and acts as a superior acoustic barrier for high-noise environments.

Tvis	U-Factor	SHGC	Sound
76%	0.31	0.76	High

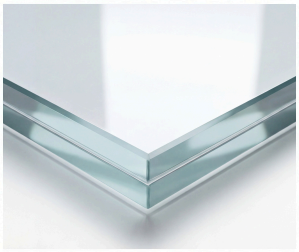
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Structural Laminates & Specialty

Tech: Kuraray SentryGlas® (SGP)

Max Laminate: 10' 10" x 29' 6" (3300mm x 9000mm) **Min Laminate:** 12" x 12" (300mm x 300mm)
Curved Glass: Min Radius 47" (1200mm) | Max Arc Height 19' 8"

06. Structural Laminate 2-Ply (Frameless)

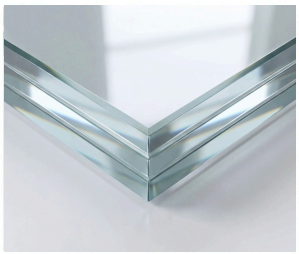



Configuration: 3/8" (10mm) FT Low-Iron | 0.060" SentryGlas® | 3/8" (10mm) FT Low-Iron

Core Advantage: SGP is 100x stiffer and 5x stronger than PVB, ensuring superior edge stability for frameless applications with zero delamination.

Tvis	U-Factor	SHGC	SGP
86%	0.86	0.83	0.060"

07. Heavy-Duty Structural 3-Ply (Walkable)

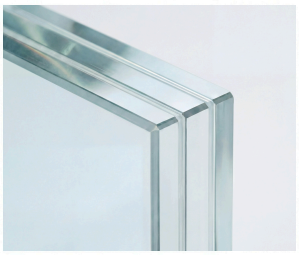



Configuration: 3/8" (10mm) FT Low-Iron w/ 0.060" SentryGlas®

Core Advantage: Engineered for extreme loads. Offers ballistic and blast-resistant properties, making it suitable for walkable flooring and high-security zones.

Tvis	U-Factor	Security	Load
83%	0.80	High	Heavy

08. Medium-Duty Structural 3-Ply

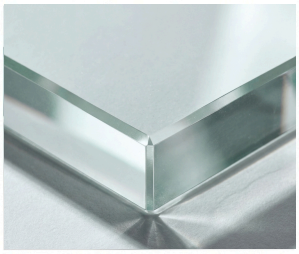



Configuration: 5/16" (8mm) FT Low-Iron w/ 0.060" SentryGlas®

Core Advantage: Optimized strength-to-weight ratio. Ideal for vertical fins and overhead glazing (skylights), ensuring safe post-breakage retention.

Tvis	U-Factor	SHGC	App
84%	0.82	0.81	Fins

09. Monumental Structural Laminate (Thick)



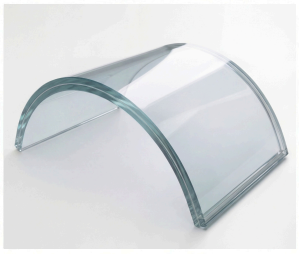

PRODUCT CODE: 15CH/1.52SGP/15CH

Configuration: 5/8" (15mm) FT Low-Iron | 0.060" SentryGlas® | 5/8" (15mm) FT Low-Iron

Core Advantage: Capable of >15ft Monumental Spans. The extra-thick substrate minimizes roller wave distortion, ensuring premium reflection quality.

Tvis	U-Factor	Span	Optics
83%	0.82	>15ft	Flat

10. Curved Structural Laminate (Organic Design)




Configuration: 5/16" (8mm) Bent Tempered FT Low-Iron w/ SentryGlas®

Core Advantage: Merges the organic beauty of bent glass with SGP rigidity.
Max Arc Height: 19' 8" (6000mm), Min Radius: 47" (1200mm).

Tvis	Radius	SHGC	Design
84%	≥47"	0.81	Curved