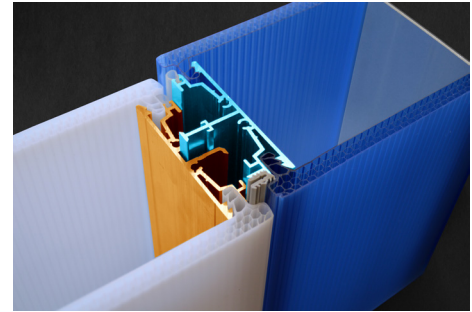
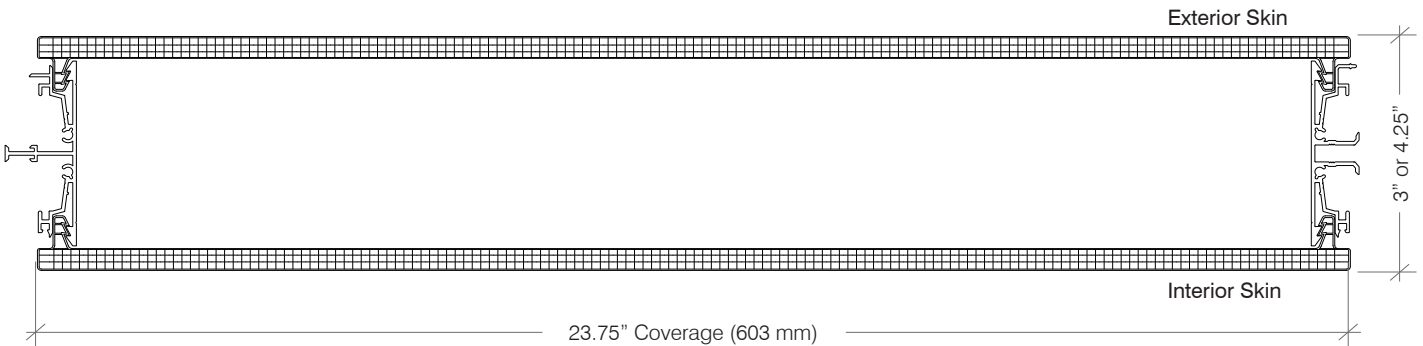


**Technical & Test Data Sheet**



**Product Specifications**

- Thickness:** 4.25 in (108 mm) & 3 in (76 mm)
- Width:** 2 ft nominal (23.75 in) (603 mm)
- Length:** Up to 40 ft long
- Panel Weight:** 1.5-2 lbs/ft<sup>2</sup>
- Technology:** Removable Skin Technology (RST) - Allows for the removal of the exterior panel while the interior panel remains in place  
Internal cavity can accommodate inserts for specialized performance: Military Forced Entry, Custom Insulation, Sound Reduction (STC), & perforate metal - consult for other available applications
- Panel Joint:** Structural member, mechanically interlocking, sealed joint
- Exterior Skin:** 10 mm Pentaglas Nano-Cell translucent panel
- Interior Skin:** 10 mm Pentaglas Nano-Cell translucent panel
- Color Options:** Standard - Clear matte, white matte, ice white matte, blue matte, green matte, bronze matte, refl. gray matte  
Note: all colors are available with a non-matte finish upon request - consult for other available color options
- Bi-Color Option:** Color selected for the exterior skin may be different from the color selected for the interior skin



## Technical & Test Data Sheet

Test Description	Test Procedure	Results & Comments
Code Compliance, IBC	ICC -Es report ESR-1253	Complies as specifically detailed in the ESR-1253 report
Uniform Load Structural	ASTM E330-10	Pass -150 psf Higher loads or larger spans are available
Cyclic Test	ASTM E1886-13a	Pass- 100 psf, Wind Zone 4
Large Missile Impact	ASTM E1996-12/E 1886-13a FBC 2004, TAS 201-94	Pass - Missile Impact Level D, Wind Zone 4 Pass - Missile Impact Level D, 354 lbf-ft
High Velocity Hurricane Zone (HVHZ)	TAS 201-94, 2012-94, 203-94	FL17695 - Approved for design load of +-100 psf @ 5' span Higher loads or larger spans are available
Concentrated Load 3" Diameter	ASTM E661-09	No Damage, 400 lbf load
Concentrated Load 1 sqf Area	(OSHA) 29 CFR Section 1910.23(e)(8) California Code of Regulation Title 8, Section 1632 (b)(3) California Code of Regulation Title 8, Section 3212(b)	No Damage 600 lbf load No Damage 600 lbf load No Damage 600 lbf load
Water Penetration	ASTM E331-09	Pass - 15 psf
Air Infiltration	ASTM E283-12	Pass requirements per NFRC 400 at 1.57 psf and 6.24 psf Canadian CSA Standard
U-Factor	NFRC 100	0.23 to 0.08 center of glass
SHGC	Calorimeter	0.41 to 0.08 subject to color selections
Fire	ASTM E1929, D2842, D635	Approved light transmitting plastic with CC1 Rating
Interior Flame Spread	ASTM E84,CAN/ULC,S102.2-M88	Class A Rating
Sound Transmission Loss - STC	ASTM E90-09, E413-10, E1332-10a, E2235-04	Standard STC rating is 26 Special panels with acoustical inserts are available at STC rating of 30-43

## Span Guidelines

Panel Thickness	Design Load (PSF)	Allowable Span (ft)	
4.25 in	20	12.55 ft	
	30	10.96 ft	
	40	9.96 ft	
	60	8.70 ft	
	100	7.15 ft	
3 in	20	8.10 ft	<b>Note:</b> Spanning capabilities are governed by the International Building Code (IBC) and the deflection limitations as per IBC table 1604.3. Longer spans can be achieved for applications allowing larger deflections than stated per the IBC.
	30	7.08 ft	
	40	6.43 ft	
	60	5.62 ft	
	100	4.65 ft	

The above tests were performed and verified by certified independent third parties. If you have questions on a specific test or product, please contact a CPI Representative. CPI Daylighting Inc. does not assure compliance with any plans or specifications and it remains the responsibility of the customer to confirm compliance of the product with applicable local, state, and national codes and other laws or regulations.