



PentaClad™

Product Data Sheet

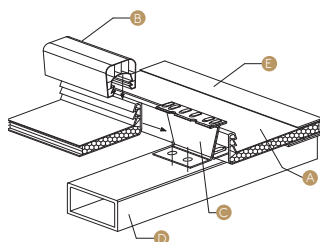
Polycarbonate Cladding Systems



Product Specifications



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



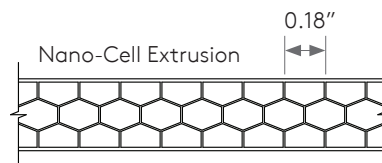
Product Specifications

Glazing	Pentaglas® translucent polycarbonate panel with Nano-Cell® extrusion
Thickness:	10 mm, 12 mm, or 16 mm
Width:	2 ft nominal (23 5/8 in) (600 mm)
Length:	Up to 40 ft long
Panel Weight:	12 mm = 0.53 lb/ft ² 16 mm = 0.70 lb/ft ²
Panel Joint:	Mechanically interlocking double-tooth connection
Color Options:	Standard - clear, white, ice white, blue, green, bronze, refl. gray
Note: all colors are available with a matte finish upon request - consult for other available color options	

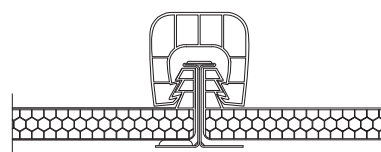
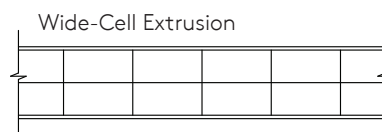
Glazing Extrusion



Our Pentaglas® translucent glazing is precision engineered with Nano-Cell® technology. This specialized panel extrusion results in the cells measuring smaller than 0.18 inches, providing the panel with superior durability and prolonged resistance to impact. The unique cell structure significantly improves the quality and balanced distribution of glare-free natural light. Pentaglas glazing panels are co-extruded with a specialized UV inhibitor on both sides of the panel.

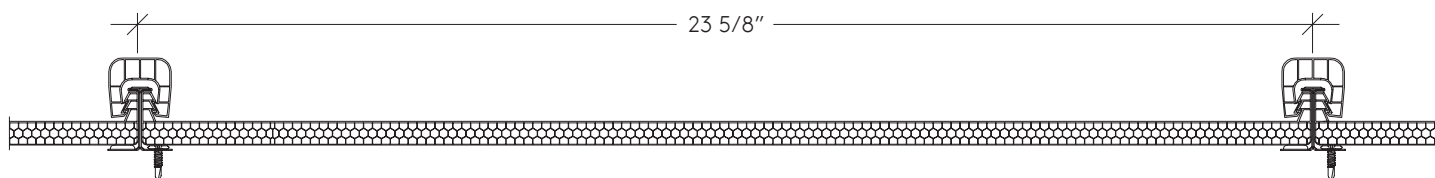


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Double-Tooth Connection

The double-tooth edge on the upstands of the glazing panels enables the system to withstand extremely high loads without concern for the panels disengaging. As the panels deflect, their grip on the u-shaped panel connector actually strengthens, ensuring long-term performance under loading conditions.



10, 12, & 16 mm

Testing/Performance

Test Description	Test Procedure	Results & Comments
Code Compliance, IBC	ASTM D635, D1929, D2843, E84 per ESR-4745	CC1
Uniform Load Structural / Span	ASTM E330	Up to ±105psf. Consult KLA for job specific span capabilities
High Velocity Hurricane Zone (HVHZ)	TAS 202, 203	Up to ±105psf. Consult KLA for job specific span capabilities
Concentrated Load 1 sqf Area		No damage - 800 lbs
Water Penetration	AAMA 501.2	No penetration

**Spanning capabilities are dependent on project specific design loads, which are determined based on several different factors, including location on the building, height above ground, wind speed, etc.*

Note: Pentaglas glazing panels come in several thicknesses. Please consult Kingspan Light + Air to verify individual test results specific to each panel thickness.

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Notes

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