

Light + Air
North America



UniQuad[®] Product Data Sheet

Polycarbonate Wall Systems

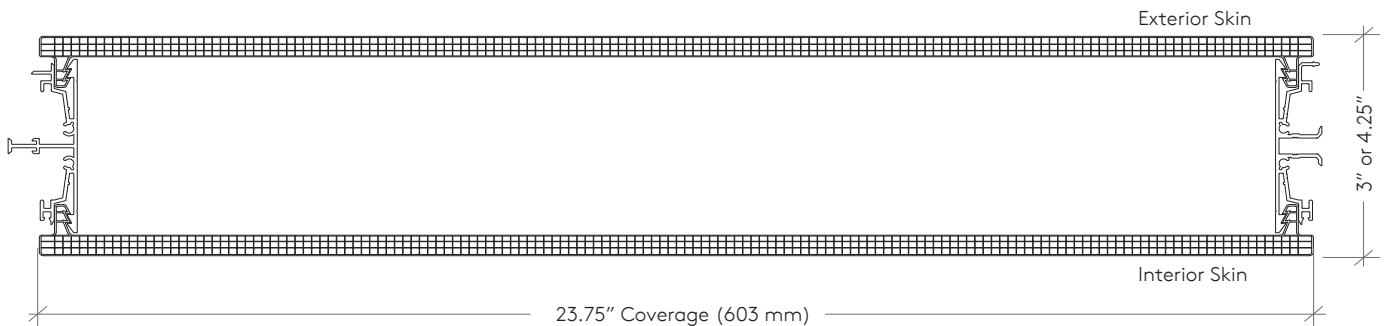


Product Specifications

UniQuad® polycarbonate translucent wall systems feature two polycarbonate multiwall sheets connected with internal aluminum supports to create unitized glazing panels. Panels can be configured with insulation options and numerous glazing color options are available. Panels are held in place with aluminum framing. Framing finish options include anodize and paint in standard and custom colors. Paint finishes meet AAMA 2603/2604/2605 standards.

Product Specifications

Thickness:	4.25 in. (108 mm) & 3 in. (76 mm)
Width:	2 ft. nominal (23.75 in) (603 mm)
Length:	Up to 38 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 translucent polycarbonate panel with Nano-Cell® extrusion
Interior Skin:	10 mm translucent polycarbonate 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, 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



Testing/Performance

Test Description	Test Procedure	Results & Comments
Ignition Temperature, Smoke Density and Combustibility Classification	ASTM D635, D1929, D2843, E84	Complies with Ignition Temperature and Smoke Density defined in IBC Section 2606.4. Combustibility Class: CC1. See ICC-ESR-4745 for full details.
Uniform Load Structural /Spans	ASTM E330	3-in. UniQuad®: Span 5' to 8' 4-in. UniQuad®: Span 7' to 12' NOTE: PROJECT SPECIFIC SPANS MUST BE CALCULATED USING PROJECT SPECIFIC VARIABLES.
High Velocity Hurricane Zone (HVHZ)	TAS 201, 202, 203	4-in. UniQuad: Missile Impact Level D, up to 95 psf dependent on span NOTE: PROJECT SPECIFIC SPANS MUST BE CALCULATED USING PROJECT SPECIFIC VARIABLES.
Water Penetration	ASTM E331 /TAS 202	3 in. UniQuad®: Pass 4 in. UniQuad®: Pass @ 15 psf
Air Infiltration	ASTM E283	Pass - less than 0.04 cfm/ft ² @ 75 pa (1.57 psf)
U-Factor	NFRC 100	0.17 to 0.29 (subject to color selections)
Solar Heat Gain Coefficient (SHGC)	NFRC 201	0.18 to 0.34 (subject to color selections)
Visible Transmittance (VT)	NFRC 202	0.10 to 0.34 (subject to color selections)
Sound Transmission Loss - STC	ASTM E90, E1332	STC: 24; OITC 17 (3 in. system) STC: 27-35; OITC 19-27 (4 in. system)

**Go to <https://search.nfrc.org/search/searchdefault.aspx> for complete list of Kingspan Light + Air NFRC listed products.

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