



# U-Lite™

## Product Data Sheet

### Low Slope Canopies with Monolithic Standing Seam Glazing

U-Lite™ canopy systems feature glazing panels with a slim profile, allowing them to provide a sleek, contemporary look without the high cost or difficult installation of glass. The system is designed without a perimeter frame, giving an exposed floating edge, and the glazing is lightweight, inherently flexible, and won't shatter upon impact - ensuring longevity and minimizing maintenance costs.

- Perfect for canopies with slopes as low as 1/2:12
- Systems utilize a 4mm thick monolithic standing seam glazing panel
- Designed without a perimeter frame
- Wide range of glazing colors with translucent and transparent options
- Can accommodate both standard and flared end designs
- Glazing panels are extremely durable and impact resistant
- Aluminum glazing bars enable larger spans, which can reduce both material and labor costs
- Lightweight system for fast, easy installation
- Systems available for high velocity hurricane zones (HVHZ)
- Co-extruded UV protection integrated within the glazing for superior color stability
- Wide variety of standard glazing color options - custom and color matching is also available

#### Product Specifications

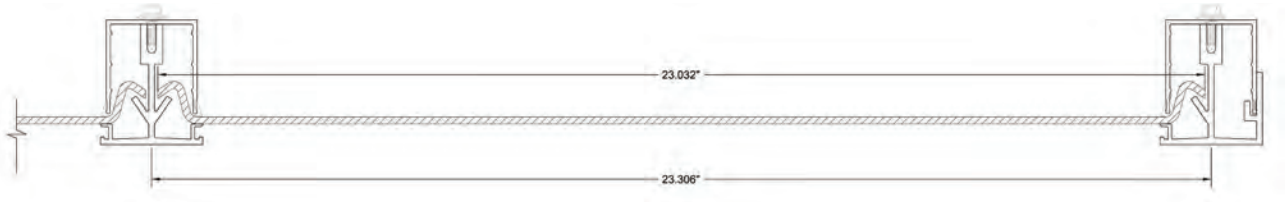
Panel Thicknesses	4mm Monolithic Polycarbonate
Panel Width + Length	Nominal 23" wide - continuous up to 20 ft (Contact us to check feasibility for longer applications)
Panel Weight	1.5 to 2lbs/ft <sup>2</sup>
Rafter Size	2" wide x 6" tall - 23-5/16" O.C. spacing
Minimum Slope	1/2:12
Glazing Finish	Gloss
Standard Glazing Colors	Clear, White Ice, White Opal, Light Blue, Light Green, Dark Bronze, Solar Grey, Dark Grey
Aluminum Finishes	Painted: AAMA 2605 - standard and custom colors (mica available) Anodized: AAMA 611 Class 1 - clear and color options
Material Content	Aluminum: Between 60 and 75% recycled content Polycarbonate: All virgin material
Warranty	10 year leak + glazing light transmission % 1 to 20 year aluminum finish depending on selection
Material Source	Kingspan Light + Air N.A. products are manufactured in the USA and most are designed with consideration for Buy America (BAA) and Build America - Buy America (BABA) requirements. BABA Compliance is project-specific. Please contact us to verify the compliance of your configuration.



# Test Data

Performance Metric	Standard	4mm Monolithic Polycarbonate
Florida Product Approval (FPA)	TAS 202 + 203	Up to +/-150 PSF
	Listing Number	FPA#: FL47324 - HVHZ Approved
TX Dept of Insurance	TDI	FL20323
Fall Protection	ASTM E 661 in reference to OSHA: 1926.502(i) (2), and/or CalOSHA: Sections 1632(b) (3), 3212(b)	800 lb. Concentrated Load
Reaction to Fire**	ASTM D 1929 ASTM D 2843 ASTM E 84 ASTM D 635	Complies with Ignition Temperature (1076F Actual > 650F Min Required) Complies with Smoke Development (60 Actual < 75 Max Required) Flame Spread Index: 20 - Smoke Developed Index: 400 (Class A) Combustibility Class 1 (CC1) (Zero Burn Rate Actual < 1" Required)
Environmental Product Declaration	ISO 14025 and ISO 21930	Available

\*\*Note: All KLA polycarbonate types have varying results - all meet or exceed these values



# Performance Data

Glazing Color	SHGC (ASTM E 424)	VT (ASTM D 1003)	Haze (ASTM D 1003)
Clear	0.87	0.90	<1
White Ice	0.87	0.80	100
White Opal	0.32	0.28	100
Light Blue	0.76	0.50	<1
Light Green	0.81	0.80	6
Solar Grey	0.33	0.20	67
Dark Grey	0.44	0.20	<1
Dark Bronze	0.45	0.20	<1

Span Chart*	
PSF	4mm Glazing
20	9.49'
30	8.57'
40	7.87'
50	7.32'
60	6.87'
70	6.38'
80	5.98'
90	5.65'

\*Guidelines only - confirm project specific spans with Kingspan Light + Air





# Color + Finish Options

## Monolithic Polycarbonate Sheet Color Options:

Polycarbonate sheet colors are available in seven standard colors (see examples at right) as well as custom options. Please contact us for additional information.



(Left to Right: Clear, White Ice, White Opal, Light Green, Light Blue, Solar Gray, Dark Bronze.  
\*NOTE: Colors shown above are for illustrative purposes only. Actual color may vary.)

## Clear Polycarbonate - A Glass Canopy Alternative:

The elegant, slim profile of the glazing panels gives the U-Lite™ system the sleek look offered by glass without the high price tag. Glass systems can also require a more complicated installation, but the simplicity of the U-Lite™ system and the lightweight nature of the materials enable it to be installed quickly. With the range of glazing color options available, you can also mix-and-match clear and translucent glazing for an eye-catching look. The glazing material is also inherently flexible and will not shatter upon high impact. The excellent durability of the U-Lite™ glazing panel helps to ensure the longevity of the system, curbing future costs.



## Aluminum Finish Color Options:

Painted finishes meet AAMA 2605 and are available in a wide range of colors. They offer excellent color retention, salt-spray resistance, simple field touch-up and repainting capabilities, and are applied in facilities that use air capture systems to destroy VOCs with a regenerative thermal oxidizer. Anodized options are also available. Please review our Finish Color Options brochure for additional details.



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