



GridSpan™ + Liteway™ Product Data Sheet

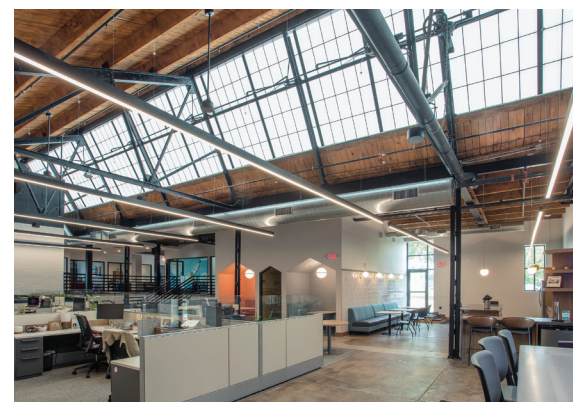
FRP Panel Skylight + Canopy Systems

GridSpan™ translucent panel skylights and Liteway™ canopy systems feature a lightweight sandwich panel design with fiberglass reinforced polymer (FRP) face sheets that provide light and solar heat gain control. Their high thermal performance and unique aesthetic make them a versatile design tool that's customizable for a range of applications. Specialty configurations for hurricane and blast protection, mixed glazed systems that integrate glass glazing, and more are also available. GridSpan™ is available with a variety of insulation options and a 4" panel option, enhancing thermal performance.

- Numerous standard shapes (pyramids, polygons, single slopes, ridges) as well as fully custom designs
- Standard or custom grid patterns allow for design flexibility
- FRP face sheet is available in a range of colors
- High-performance sealants protect against air and water infiltration
- Built-in gutters on framing members provide moisture management
- Thermally broken panels and framing available for enhanced condensation resistance
- Individual panels up to 5 feet wide and 20 feet long (depending on load requirements)
- Spectra-Grid™ color option provides a stained-glass-like look
- Numerous finish options – from clear anodize to custom color matching
- Integration of glass glazing for a combination of light control and views

GridSpan™ + Liteway™ Specifications

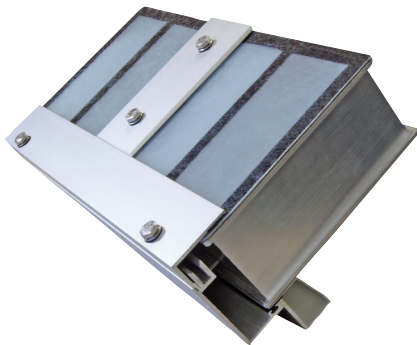
Panel Thicknesses	4" (102mm) and 2-3/4" (70mm)
Standard Panel Module	4ft or 5ft wide and 8ft or 10ft long
Panel Weight	1.5 to 2lbs/ft ²
Panel Assembly	Factory unitized fiberglass sandwich panel with interlocking aluminum I-beam Grid Core
Frame Depth	4-3/4" (120.65mm), and 3-1/2" (95.25mm)
Exterior Skin	Material: 0.070" FRP Sheet with erosion and UV stabilizing veil Standard Colors: White, Crystal Non-Standard Colors: Ice Blue, Aqua, Tan, Desert Rose
Interior Skin	Material: 0.045" FRP Sheet meeting CDHP limits for low VOC Standard Colors: White, Crystal
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 Glazing: All virgin material
Warranty	10 year leak, 20 year FRP color change, 25 year fiberbloom 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	2.75" System	4" System
Air Permeability	ASTM E 283	<0.01 CFM/sf @ 1.57psf & 6.24psf	<0.01 CFM/sf @ 1.57psf & 6.24psf
Water Permeability	ASTM E 331	Pass @ 6.24psf & 15psf	Pass @ 6.24psf & 15psf
Acoustic Insulation	ASTM E 90	STC: 30 - OITC: 21 or 22	STC: 34, 36, or 37 - OITC: 23 or 24
ICC Evaluation	N/A	ICC-ESR 2855	
Impact Strength	UL 972	Standard Exterior Sheet - 64 ft-lbs Standard Interior Sheet - 70 ft-lbs High-Impact Exterior Sheet - 360 ft-lbs High Impact Interior Sheet - 245 ft-lbs "Class A Roof" Exterior Sheet - 245 ft-lbs	
Adhesive Bond Strength	ASTM D 1002 Shear ASTM C 297 Tensile ASTM D 1037 Aging	Shear Unaged - lbf=Min 310, Avg 563, Max 837 Shear Aged - lbf=Min 836, Avg 1212, Max 1669 Tensile Unaged - Load=557.3 psi Tensile Aged - Load=913.6 psi	
Taber Abrasion Test	ASTM D 4060	1000 cycles @ 500 grams = 32.5mg wt. loss	
Color Difference	ASTM D 2244	$\Delta E = 2.86$ after 12 years	
Haze	ASTM D 1003	> 90%	
VOC Content	CDPH	Complies with Office and Classroom Limits	
Florida Product Approval (FPA)	TAS 201	Pass Small Missile Level A Pass Large Missile Level D	N/A
	TAS 202 + 203	Up to +65/-65psf	
	N/A	FPA#: FL42301 Not HVHZ Approved	
TX Department of Insurance	TDI	Listed	N/A
Fall Protection	ASTM E 661 in reference to OSHA: 1926.502(i) (2), and/or CalOSHA: Sections 1632(b) (3), 3212(b)	600 and 1100lb Concentrated Load per ASTM E 661	
Roof Assembly Classification	ASTM E 108	Class A Roof Construction (Optional) Class C Roof Construction (Standard)	
Span Information	N/A	Please refer to ESR-2855 for span guidelines Contact Kingspan Light + Air for additional information	

Performance Metric	Standard	Interior Sheet	Exterior Sheet
Reaction to Fire (Note: All KLA FRP types have varying results - all meet or exceed these values)	ASTM D 1929	Complies with Ignition Temperature (912F Actual > 650F Min Required)	Complies with Ignition Temperature (860F Actual > 650F Min Required)
	ASTM E 84 / UL 723	Flame Spread Index: 15 Complies with Smoke Developed Index (350 Actual < 450 Max Required)	Flame Spread Index: 170 Complies with Smoke Developed Index (450 Actual < 450 Max Required)
	ASTM D 635	Combustibility Class 1 (CC1) (Zero Burn Rate Actual < 2-1/2" Required)	Combustibility Class 2 (CC2) (1.1" Burn Rate Actual < 2-1/2" Required)



Thermal Performance Data

System	NFRC CPD #	Exterior Glazing	Interior Glazing	Insert	U-factor	SHGC	VT	CR
Non Thermally Broken	KLA-M-8 (GridSpan™)	Crystal	Crystal	-	0.59	0.45	0.44	42
		Crystal	White	-	0.59	0.33	0.24	42
		White	White	-	0.59	0.21	0.14	42
		Crystal	Crystal	Insul24	0.33	0.26	0.24	46
		Crystal	White	Insul24	0.33	0.22	0.19	46
		White	White	Insul24	0.33	0.15	0.12	46
		Crystal	Crystal	Insul15	0.30	0.25	0.19	47
		Crystal	White	Insul15	0.30	0.20	0.15	47
		White	White	Insul15	0.30	0.15	0.10	47
		Crystal	Crystal	IMG125	0.22	0.12	0.06	49
		Crystal	White	IMG125	0.22	0.12	0.05	49
		White	White	IMG125	0.22	0.09	0.04	49
Thermally Broken	KLA-M-9 (GridSpan™)	Crystal	Crystal	-	0.59	0.43	0.43	44
		Crystal	White	-	0.59	0.32	0.24	44
		White	White	-	0.59	0.2	0.14	44
		Crystal	Crystal	Insul24	0.32	0.25	0.24	48
		Crystal	White	Insul24	0.32	0.21	0.18	48
		White	White	Insul24	0.32	0.15	0.12	48
		Crystal	Crystal	Insul15	0.29	0.24	0.18	49
		Crystal	White	Insul15	0.29	0.19	0.14	49
		White	White	Insul15	0.29	0.14	0.1	49
		Crystal	Crystal	IMG125	0.22	0.11	0.06	50
		Crystal	White	IMG125	0.22	0.11	0.05	50
		White	White	IMG125	0.22	0.09	0.04	50

* Values are for GridSpan™ skylight systems and assume a 2-3/4" panel thickness and standard mullion profiles. Please see the NFRC Certified Products Directory (CPD) using the above CPD#s for complete offering.

Center of Panel U-Factor - 2.75"		Center of Panel U-Factor - 4"	
Insul 24	.20	Insul 10	.11
Insul 15	.17	IMG 125	.06
IMG 125	.08		

*Center of panel values determined by computer simulation using Window 5.2. Please note that center of panel values are for glazing comparison purposes only and are not meant as a replacement for system values when calculating overall system performance.



Color + Finish Options

FRP Sheet Color Options:

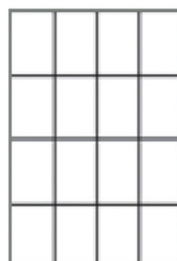
FRP sheet colors are available in two standard colors (Crystal and White) as well as special order and custom options. Please contact us for additional information.



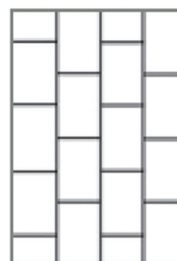
*Exterior colors shown for comparative use only and may differ slightly from actual product. Contact us for sheet color samples for interior/exterior use.

Grid Pattern Options:

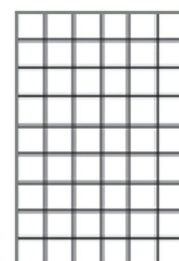
FRP panels are available in three standard grid pattern options (custom designs also available), and include in-line and staggered Shoji and Tuckerman (square) (examples at right). Please contact us for additional information.



In-Line Shoji



Staggered Shoji

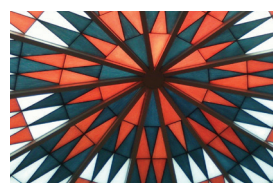
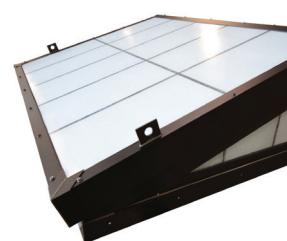
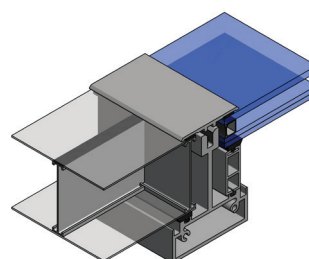


Tuckerman

Specialty Configurations

Whether you need a system that can handle extreme climates, the unique demands of a military facilities, or anything in between, we can help you achieve your performance goals.

- Additional Insulation for extreme climates
- Removable skylight systems for access to heavy machinery or medical equipment - or for ease of installation
- Pre-assembled systems that can speed up install times
- Mixed glazed systems that incorporate FRP panels with glass glazing
- Hurricane and blast systems
- Colored insulation options - great for creating a stained glass look or incorporating school or corporate logo colors



Kingspan Light + Air

North American Headquarters
28662 N. Ballard Dr.
Lake Forest, IL 60045
Toll Free: +1 800 759 6985
T: +1 847 816 1060
E: info@kingspanlightandair.us
www.kingspanlightandair.us



To ensure you are viewing the most recent and accurate product information, please scan the QR code

Care has been taken to ensure that the contents of this publication are accurate, but Kingspan Limited and its subsidiary companies do not accept responsibility for errors or for information that is found to be misleading. Suggestions for, or description of, the end use or application of products or methods of working are for information only and Kingspan Limited and its subsidiaries accept no liability in respect thereof.

For the product offering in other markets please contact your local sales representative or visit kingspan.com

© Kingspan and the Lion Device are Registered Trademarks of the Kingspan Group plc in the US, Canada and other countries.

© Kingspan Light + Air

MKT-PDS-0003-2611

