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DuroSpan Translucent FRP Roof & Wall Panels Structural Daylighting Panels for Commercial & Industrial Buildings

Natural Light Transmission

• Better Work Conditions • Lower Energy Cost

DuroSpan translucent panels from Enduro Composites offer natural lighting for buildings along with superior structural performance and appearance. End users love the improved workplace and reduced energy bills resulting from maintenance-free, FRP cladding panels.

Superior Strength

• Leak Protection • Less Fasteners • Lower Cost Installation

DuroSpan glass fiber reinforced plastic panels are much stronger than polycarbonate or chopped strand materials. With high content of glass fiber reinforcements, 48% by weight, aligned for optimum performance, the panels have superior strength and stiffness. This results in leak protection, fewer fasteners, and low installation cost.

UV Protection & Corrosion Resistance

• Better Appearance • Lower Life Cycle Cost

DuroSpan materials do not corrode in coastal or tough industrial conditions. Its premium, UV stabilized polyester resin and exterior coating ensure extended retention of aesthetic and light transmitting properties. For exterior cladding, UV Coating Protection is standard with minimal added cost.

Certifications & Product Options

• Profile, Color & Finish Options • Lengths Cut to Order

Certifications for DuroSpan 12x1.25R–LC2 150 panels include UL Class 90 Wind Uplift and Florida Building Code Approval. The fiberglass roofing and siding panels are offered in a range of profiles and translucent colors that transmit soft, diffused natural lighting. Finish options include: 1) smooth on both sides; 2) embossed on exterior side with smooth finish on reverse side.



DuroSpan Material										
DuroSpan Material	450	300	210	150	050	Glass Fiber Content				
Weight, Oz/SF (nom.)	16	12	10	8	5	48% by Weight				
Tensile Strength, ASTM D638, 43,5	500 psi		Building Code Class, CC2 (Note 2)							
Tensile Modulus, ASTM D638, 2.52	x 10 ⁶ psi	i	Burning Rate, ASTM D635, <2.5 in/min							
Flexural Strength, ASTM D790, 40,	700 psi		Smoke Density, ASTM E84, 300							
Flexural Modulus, ASTM D790, 1.2	4 x 10 ⁶ ps	i	% Elongation, ASTM D638, 2.3%							
Translucent Colors: Clear, Opal, Sm	oke Gray,	Mist Gree	n, Daylighi	t Blue, Fro	st, and otl	ners.				
Light Transmission, ASTM D1494:	Translucer	nt Clear: L	p to 80%	Translue	cent Opal:	Up to 55% (Note 3)				

1) ASTM data is based on tests conducted on Series 150 (8 oz.) materials.

2) For CC1 Code Class or FM Approved materials, please contact Enduro Composites for Tuff Span™ FRP building panels.

3) Light transmission % varies with color, profile, and thickness. Nominal % n this table is for Series 150 (8 oz.) material.

DuroSpan building panels are manufactured at our ISO 9001 certified, state of the art, facility in Houston, Texas. Please contact us for assistance.



16602 Central Green Blvd. Houston, TX 77032 sales@endurocomposites.com Tel: 800.231.7271 | 713.358.4000 Fax: 713.358.4100 www.endurocomposites.com

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DuroSpan 12 x 1.25R



Metal Building Light Transmitting Panels

Load, PSF			20			30			40			50		180		
Span		1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
Roof	LC2-150	5.16	6.91	6.33	4.50	5.66	5.58	4.08	4.91	5.00	3.75	4.33	4.66	2.25	2.25	2.58
Wall	LC2-150	6.75	8.00	8.33	5.92	6.50	7.25	5.33	5.67	6.33	4.92	5.08	5.66	2.67	2.00	2.33

Spans for uniform loads are in lineal feet and based on 9 panel fasteners with 1.125" diam. washers at each support.

Root	fing Positive Loa	L/D =	45	Momen	nt FOS =	2.5										
Load, PSF			20 30				30 40					50	60			
Span		1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
s	LC2-450	6.75	9.08	8.41	5.91	7.83	7.33	5.41	6.75	6.66	5.00	6.00	6.16	4.66	5.50	5.83
E R	LC2-300	6.08	8.16	7.50	5.33	6.83	6.58	4.83	5.91	5.91	4.50	5.25	5.50	4.17	4.75	5.16
I E	LC2-210	5.58	7.41	6.91	4.91	6.00	6.08	4.41	5.25	5.50	4.17	4.66	5.08	3.92	4.25	4.75
Š	LC2-150	5.16	6.91	6.33	4.50	5.66	5.58	4.08	4.91	5.00	3.75	4.33	4.66	3.58	4.00	4.41

Roof	Roofing/Siding Wind Load									Momer	nt FOS = 1.88 Pul			lover $FOS = 1.88$		
Load, PSF 20				30			40			50			60			
Span		1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
	LC2-450	8.92	11.00	11.00	7.75	9.00	9.58	7.08	7.75	8.66	6.58	6.92	7.75	6.17	6.33	7.08
	LC2-300	8.00	9.58	9.83	6.92	7.83	8.58	6.33	6.75	7.58	5.83	6.08	6.75	5.50	5.50	6.16
	LC2-210	7.33	8.50	9.08	6.42	7.00	7.83	5.83	6.00	6.75	5.42	5.42	6.00	4.92	4.92	5.50
	LC2-150	6.75	8.00	8.33	5.92	6.50	7.25	5.33	5.67	6.33	4.92	5.08	5.66	4.58	4.58	5.16
	LC2-050	4.50	6.00	5.50	4.17	5.58	5.16	3.92	5.25	4.83	3.67	5.00	4.08	3.50	4.75	4.41

Roofing/Siding Wind Load

Roofing/Siding Wind Load									60	Momen	nt FOS = 2.5 Pull			over $FOS = 1.88$		
Load, PSF			20 30						40		50			60		
Span		1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
s	LC2-450	6.17	8.25	7.66	5.42	7.25	6.66	4.92	6.58	6.08	4.50	6.00	5.58	4.25	5.50	5.25
E R	LC2-300	5.50	7.42	6.83	4.83	6.50	5.91	4.33	5.83	5.41	4.08	5.25	5.00	3.83	4.75	4.75
I E	LC2-210	5.08	6.83	6.33	4.42	6.00	5.50	4.00	5.25	5.00	3.75	4.67	4.66	3.50	4.25	4.33
s	LC2-150	4.67	6.25	5.75	4.08	5.50	5.00	3.67	4.92	4.58	3.42	4.33	4.25	3.25	4.00	4.00

1. Spans for uniform load are in lineal feet and based on 6 panel fasteners with .729" diameter washers at each support. Shaded spans for Series LC2-050 have fasteners with 1.125" diameter washers.

2. Structural properties and maximum spans are based on large scale tests that consider: Bending Moment at failure; Flexural Stiffness; Pullover Force per fastener. 3. Tables with deflection (L/D) criteria of L/45 and L/20 comply with ASTM D3841 Standard for Glass Fiber Reinforced Plastic Panels. Data with deflection criteria of L/60

is provided for specifications with IBC code requirements or more conservative limits.



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