



Uniclass	EPIC
L522:P*	E321:X*
CI/SFB	
(47)	Rn6

Super Strong and Lightweight

SUNLITE® X-Lite

Reinforced Multiwall Polycarbonate sheet



Introduction

With its reinforced structure, SUNLITE X-Lite offers increased durability and improved loading capacity with reduced deflection. On top of its low weight, SUNLITE X-Lite allows bigger spans between supporting rafters, thus significantly reducing the cost for the overall roofing structure. This strong sheet is designed to suit both construction and DIY applications.

Main Benefits

- Lightweight with no compromises
- Better Strength than 5 and triple wall
- Improved mechanical properties
- Better resistance to local compression
- Increased spans between supports
- Considerable impact resistance
- Considerable light transmission
- Weather and UV resistance
- Energy-saving thermal insulation
- Easy to handle and install
- Ten year limited warranty

Typical Applications

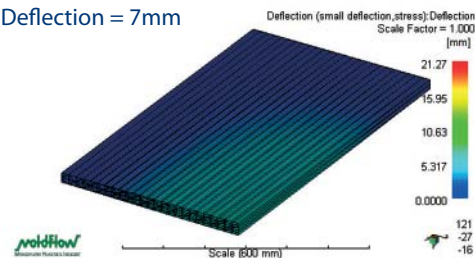
- Conservatories
- Canopies
- Skylights
- Architectural glazing
- Covered walkways
- Swimming pool covers
- Do It Yourself (DIY) jobs



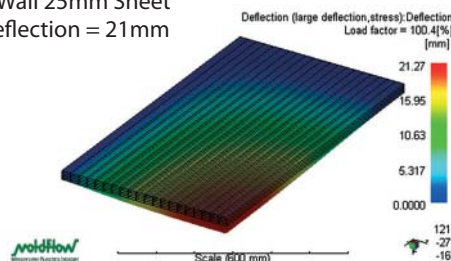
Reduced Deflections at Similar Loads

The load simulation below compares deflections at evenly spread 150 kg/m² load. Sheets clamped at four sides (quarter of each represented)

SUNLITE® X-Lite 25mm Sheet
Deflection = 7mm



5-Wall 25mm Sheet
Deflection = 21mm



► Typical Physical Properties

Property	Method***	Units	16mm	25mm	32mm	35mm	40mm	
Area weight		Kg/m ²	2.5	3.4	3.7	3.9	4.1	
Clear	Light transmission	D-1003	%	60	60	58	57	57
	Solar transmission	E-424	%	56	56	55	55	55
Bronze	Light transmission	D-1003	%	25	25	20	20	20
	Solar transmission	E-424	%	30	38	32	32	32
White Diffuser	Light transmission	D-1003	%	38	20	20	20	20
	Solar transmission	E-424	%	42	35	35	35	35
Bronze/Opal (ML)	Light transmission	D-1003	%	-	10	10	10	-
	Solar transmission	E-424	%	-	13	13	13	-
Solar-Control/White-Opal (ML Solar-Guard)	Light transmission	D-1003	%	-	5	5	5	-
	Solar transmission	E-424	%	-	7	7	7	-
Minimum cold bending radius (parallel with ribs)		m	3.2	5.0	6.4	7.0	8.0	
Heat transfer coefficient Ug	C-236	W/m ² ·°C	2.1	1.7	1.6	1.5	1.4	
Service Temperature - Short Term		°C				-50 to +120		
Service Temperature - Long Term		°C				-50 to +100		
Coefficient of Linear Thermal expansion	D-696	cm/cm °C				6.5 x 10 ⁻⁵		
Thermal expansion/contraction rate (practical)	C-177	mm/m				3		
Sound reduction value	EN ISO 140-3	dB	19	22	23	23	23	
Flammability rating							BS 476/7 (Class 1) ; EN 13501-1:2002 (B-s2, d0)**	

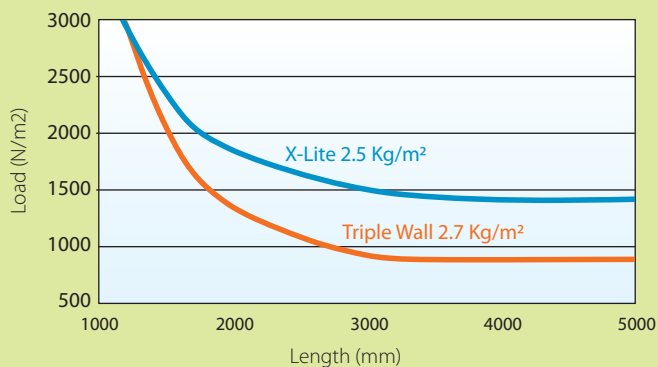
*Optional UV protection on both sides. **For additional flammability ratings please contact your SUNLITE distributor. ***ASTM unless noted otherwise.

► Standard Widths

Thickness mm	980mm	1050mm	1200mm	1220mm*	1250mm	1600mm	1800mm	1830m	2100mm
16	On Demand	Standard		On Demand	On Demand	Standard	On Demand	On Demand	Standard
25	On Demand	On Demand		On Demand	Standard	Standard	Standard	On Demand	Standard
32	On Demand	On Demand		On Demand	Standard	Standard	Standard	On Demand	Standard
35	On Demand	On Demand			Standard	Standard	Standard	On Demand	Standard
40						On Demand	On Demand	On Demand	Standard

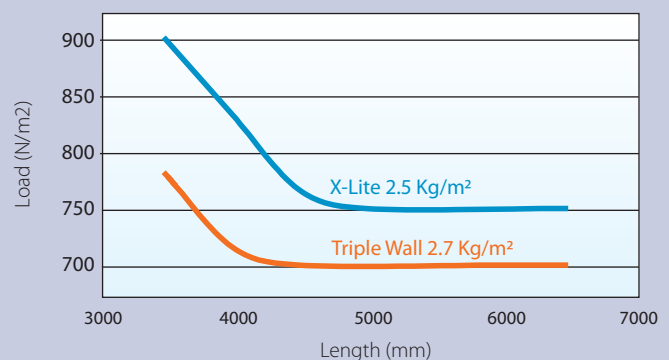
Flat Load Performance

Flat Glazing, 16mm Panels, 980mm Width, 2 sides clamped



Curved Load Performance

Curved Glazing, 16mm Panels, 2 sides clamped at 120 kg/m² Load



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