

# Exolon® multi UV 5X/10-25

## Multiwall polycarbonate sheet



### Your benefits:

- optimised area weight
- high surface quality
- lightweight

**Exolon® multi UV 5X/10-25** is a 5-wall polycarbonate sheet of 10 mm thickness, with an X-structure for enhanced stiffness. It combines high light transmission, good load bearing properties, good thermal insulation and excellent weather resistance. The sheet is lightweight, impact resistant and easy to install.

**Exolon® multi UV 5X/10-25** is ideal for flat glazing applications. It can also be installed as cold curved barrel vault.

- conservatories
- greenhouses
- covered walkways
- carports, porches,
- skylights, northlight glazing
- barrel vault

The sheets are produced with a coextruded UV-protective layer, which is homogeneously fused with the sheet material. This UV-protected side must be installed facing upwards/outwards. It provides **Exolon® multi UV** with a highly effective protection against weathering, with a limited 10 years warranty.

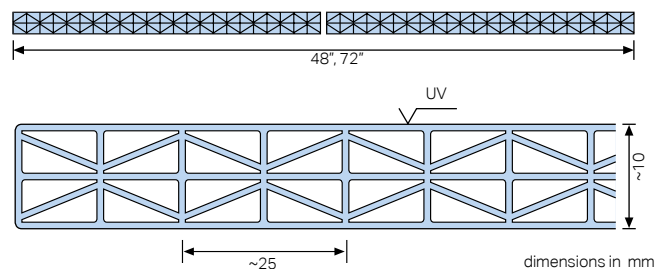
### TECHNICAL DATA (TYPICAL VALUES)

Area weight	0,307 lb/sqft	
Sheet width	48", 72"	
Possible delivery lengths	max 38 ft.	
Minimum permissible cold-bending radius <sup>(1)</sup>	66"	
Light transmittance $\tau_{D65}$ (UV-absorbing)	clear 1099:	ca. 68 %
	white 1146:	ca. 61 %
	bronze 1845:	ca. 35 %
	black X900 Moonlight	0 %
Heat transfer coefficient $U_g$ <sup>(3)</sup>	0.440 BTU/h fd2 F <sup>(1)</sup>	
Possible expansion due to heat and moisture	1/9" per 1'	
Max. service temperature without load	248 °F	
Certificates <sup>(2)</sup>	Class A - E84 Class CC1 - D635 Tsi > 650°F - D1929	

<sup>(1)</sup> The cold-bending must be parallel to the ribs of the sheets, never crosswise (risk of buckling). There may appear an optical distortion of the internal layers. This has no negative influence on the mechanical properties of the product providing our guidelines and installation tips are followed correctly.

<sup>(2)</sup> Fire certificates are limited in time and scope, always check if the mentioned certificate is valid for the purchased Polycarbonate sheet type at the date of delivery. Polycarbonate sheets may change their fire behavior due to ageing and weathering. The indicated fire rating was tested on new / unweathered Product in accordance with the indicated fire classification standards.

<sup>(3)</sup> Heat transfer coefficient  $U_g$  calculated value



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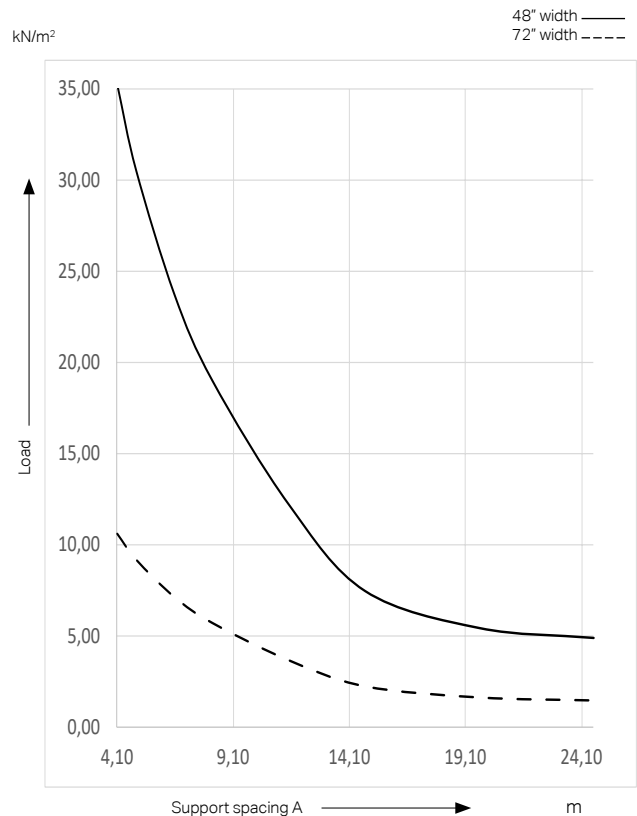
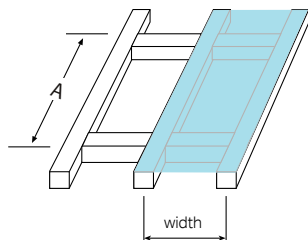
Exolon Group S-Line, the standard product line, represents a range of certified quality products which offer the reliable solution for most applications.

If **Exolon® multi UV 5X/10-25** is used in applications of roofing or walling, the forces applied by wind and snow loads must be absorbed by a suitable sub-structure. We recommend taking the support distance for each load from the diagram.

The diagram shows the load bearing capacity for **Exolon® multi UV 5X/10-25** (supported on all sides, rebate depth  $\geq 0,78''$ ). If the rebate depth is smaller, the support distances should be reduced suitably for the given load. For pure wind loads the loads may be increased by a factor of 1.1.

In general, experience has shown that a safety factor of 1.3 is adequate with regard to the measured resistance values. This safety factor is included in the load table and the diagram.

**These statements do not replace the specified national certificates, e.g. building inspectorate approval.**



Load	psi	15,7	20,9	26,1	31,3	41,8	Width in inch
Span [feet]		9.8	7.6	6.0	4.8	—	48"
A		—	—	—	—	—	72"

Exolon Group also produces solid sheets in polycarbonate (Exolon® GP) and in polyester (Vivak® and Axpet®). For more information, take a look at [www.exolongroup.com](http://www.exolongroup.com).



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