

Exolon® multi UV 2/10-10.5

Multiwall polycarbonate sheet



Your benefits:

- high impact strength
- cold-bendable
- virtually unbreakable

Exolon® multi UV 2/10-10.5 is a twinwall polycarbonate sheet of 10 mm thickness. It combines high light transmission, thermal insulation and excellent weather resistance. The sheet is lightweight, impact resistant and easy to install.

Exolon® multi UV 2/10-10.5 is ideal for cold-curved barrel vaults. It can also be installed as flat glazing.

- industrial glazing
- swimming pool covers
- greenhouses
- carports, porches, shelters
- covered walkways
- partition walls
- skylights, northlight glazing
- roofing

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, guaranteed for 10 years.

On request:

IQ-Relax

Exolon® multi IQ-Relax are opal white sheets, which dramatically reduce the heat of the sunlight, allowing the visible light to pass through. More light, less heat!

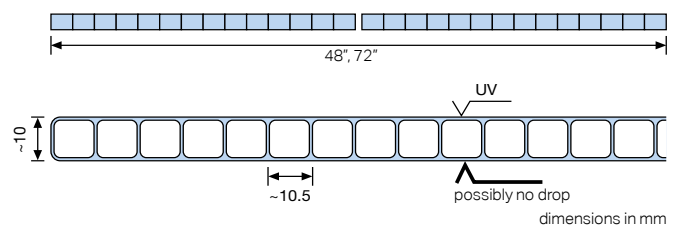
No drop

The "no drop" version of **Exolon® multi UV** has an extremely durable water-dispersing coating on one side (side facing indoors). This coating causes condensation to flow off as a continuous film, preventing drops forming on the inside of the roof.

TECHNICAL DATA (TYPICAL VALUES)

Area weight	0,348 lb/sqft	
Sheet width	48", 72"	
Possible delivery lengths	max 38 ft.	
Minimum permissible cold-bending radius ⁽¹⁾	59"	
Light transmittance τ_{D65} (UV-absorbing)	clear 1099: white 1146: IQ-Relax: white 1125: bronze 1845: blue 1545: green 1650:	ca. 80 % ca. 70 % ca. 70 % ca. 19 % ca. 41 % ca. 42 % ca. 54 %
Heat transfer coefficient U_g ⁽²⁾	0.520 BTU/h ft ² F ⁽¹⁾	
Coefficient of thermal expansion α	0.065 mm/m °C	
Possible expansion due to heat and moisture	1/9" per 1'	
Max. service temperature without load	248 °F	
Certificates ⁽²⁾	Class A - E84 Class CC1 - D635 Tsi > 650°F - D1929	

- ⁽¹⁾ The cold-bending must be parallel to the ribs of the sheets, never crosswise (risk of buckling).
⁽²⁾ 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.
⁽³⁾ Heat transfer coefficient U_g , calculated value



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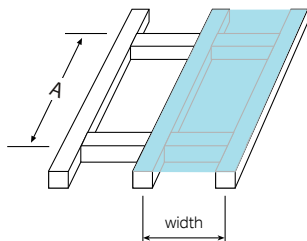
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Exolon Group S-Line, the standard product line, represents a range of certified quality products which offer the reliable solution for most applications.

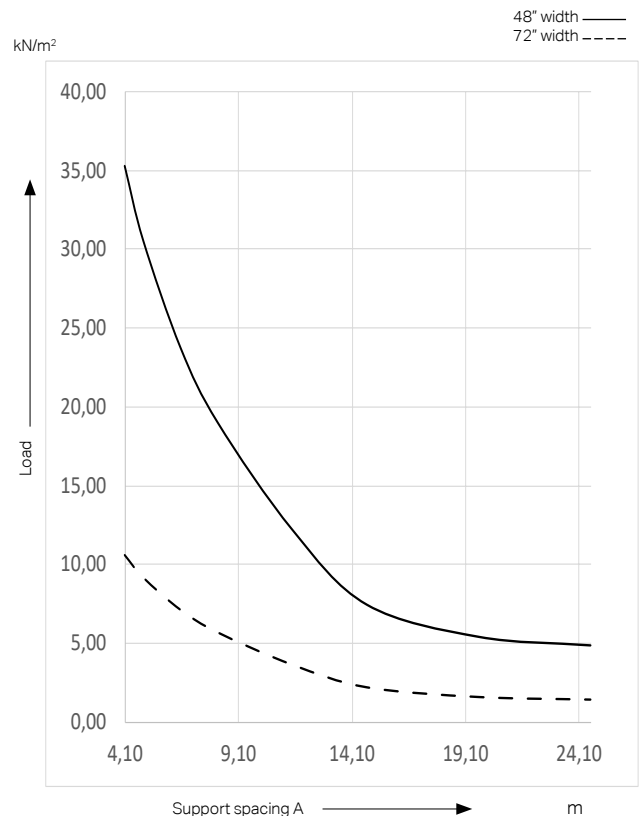
When using **Exolon® multi UV 2/10-10.5** in roof or wall installations, the forces exerted by snow and wind loads must be absorbed by a suitable substructure. We recommend implementing the support distance indicated in the diagram for the respective loads.

The diagram shows the load-bearing capacity of **Exolon® multi UV 2/10-10.5** (supported on all sides, rebate depth ≥ 0.78 "") with a standard profile on the longitudinal sides. The load-bearing curves enable the user to calculate the actual load-bearing characteristics of the multi-wall sheets in their support construction.



In general, experience has proven that a safety factor of 1.3 is adequate with regard to the measured resistance values. This safety factor is included in the load tables and 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]		7.3	6.0	5.0	4.4	—	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.



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