

Makrolon® multi UV 2/6-8

Multiwall polycarbonate sheet



S Line
Standard

Your benefits:

- high impact strength
- cold-bendable
- ideal for barrel vaults

Makrolon® multi UV 2/6-8 is a twinwall polycarbonate sheet of 6 mm thickness. It combines high light transmission, thermal insulation and excellent weather resistance. The sheet is lightweight, impact resistant and easy to install.

Makrolon® multi UV 2/6-8 is ideal for cold-curved barrel vaults. It can also be installed as flat glazing.

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

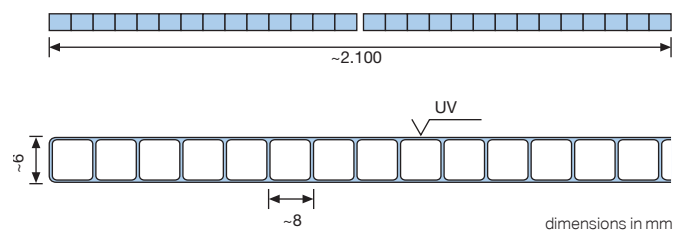
The manufacturing width of 2,100 mm is particularly suitable for sections that are cut to size across the width.

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 **Makrolon® multi UV** with a highly effective protection against weathering, guaranteed for 10 years.

TECHNICAL DATA (TYPICAL VALUES)

Area weight	1.3 kg/m ²	
Sheet width	2,100 mm	
Possible delivery lengths	2,000 to 12,000 mm	
Minimum permissible cold-bending radius ⁽¹⁾	900 mm	
Light transmittance τ_{D65} (UV-absorbing) – expected values	clear 1099: white 1125: white 1146: bronze 1845: green 1650: blue 1545:	ca. 82 % ca. 24 % ca. 77 % ca. 51 % ca. 58 % ca. 45 %
Coefficient of thermal expansion α	0.065 mm/m °C	
Possible expansion due to heat and moisture	3 mm/m	
Max. service temperature without load	120°C	
Fire rating ⁽²⁾ • Europe	clear 1099, white 1146 bronze 1845	} B-s1, d0 (EN 13501-1)

⁽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, except for Product rated "B1" in accordance with DIN 4102.



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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.

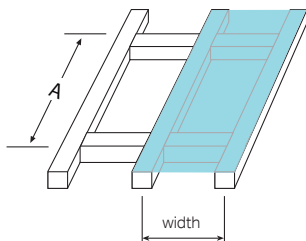
When using **Makrolon® multi UV 2/6-8** in roof or wall installations, the forces exerted by snow and wind loads must be absorbed by a suitable substructure. We recommend implementing the support distance indicated in the diagram for the respective loads.

The diagram shows the load-bearing capacity of **Makrolon® multi UV 2/6-8** (supported on all sides, rebate depth ≥ 20 mm) 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.

If the rebate depth is smaller, the support distances should be reduced in accordance with the relevant load. For wind forces alone, the loads are permitted to be multiplied by 1.1.

Load bearing characteristics (determination):

The component resistance (limit state of load-bearing capacity) of **Makrolon® multi UV 2/6-8** has been defined in accordance with the European guideline ETAG 010 regarding practical tests. The characteristic values identified were calculated on the longitudinal sides by considering the chocking effect (standard profiles). The results were partially applied to other widths using simplified, conservative models. The loads were applied as uniformly distributed linear loads, i.e. loads such as snow acting perpendicular to the sheet.

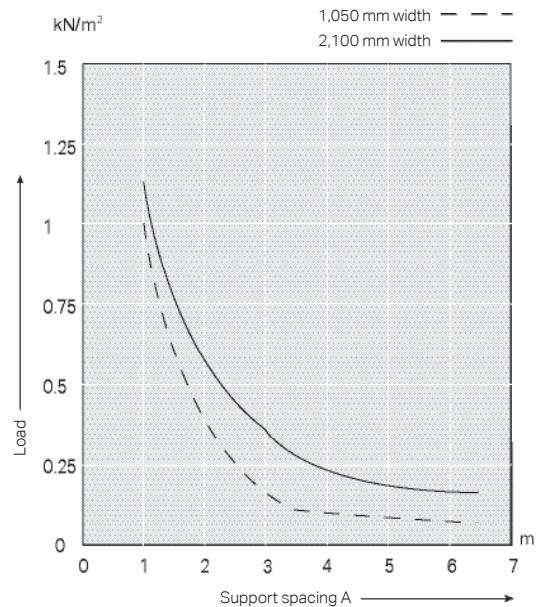


These values are guide values, evaluated using test reports on similar products. Adequate safety values, which should be assessed on a case-by-case basis, are to be observed with regard to these values.

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 specifications do not replace national regulations, such as building inspectorate approval in Germany (DIBt), Avis Techniques in France, etc.

* Further information can be obtained on request



Load	kN/m ²	0.5	0.75	1.0	1.25	Width in mm
Length or support	m	2.3	1.7	1.3	1	1,050
spacing A	m	1.7	1.4	1.1	0.7	2,100

Exolon Group also produces solid sheets in polycarbonate (Makrolon® GP) and in polyester (Vivak® and Axpert®). For more information, take a look at www.exolongroup.com.



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