



Product data sheet, July 2009

Makrolon® multi UV 3X/16-25

Multiwall polycarbonate sheet



Your benefits:

- high stiffness
- good heat insulation
- light weight

Makrolon® multi UV 3X/16-25 is a triplewall polycarbonate sheet of 16 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.

Makrolon® multi UV 3X/16-25 is ideal for flat glazing applications. It can also be installed as cold curved barrel vault.

- conservatories
- industrial building
- greenhouses
- covered walkways
- carports, porches, shelters
- 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 **Makrolon® multi UV** with a highly effective protection against weathering, guaranteed for 10 years.

On request:

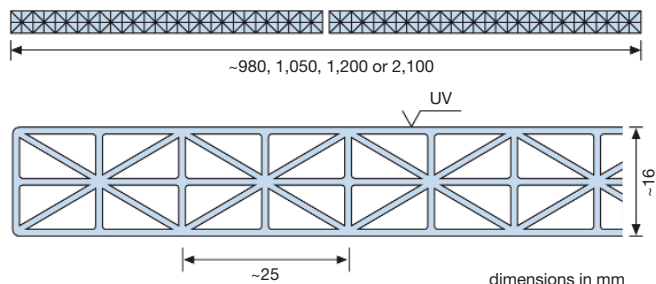
IQ-Relax

Makrolon® 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!

TECHNICAL DATA (TYPICAL VALUES)

Area weight	2.5 kg/m ²	
Sheet width	980, 1,050, 1,200 and 2,100 mm	
Possible delivery lengths	2,000 to 15,000 mm	
Minimum permissible cold-bending radius ⁽¹⁾	3,000 mm	
Light transmittance τ_{D65} (UV-absorbing)	clear 1099: white 1146: IQ-Relax: bronze 1845:	ca. 66 % ca. 54 % ca. 46 % ca. 26 %
Total energy transmission g	clear 1099: white 1146: IQ-Relax: bronze 1845:	ca. 62 % ca. 55 % ca. 44 % ca. 45 %
Heat transfer coefficient (ASTM C 976/90) U _g	2.0 W/m ² K	
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	
Weighted sound reduction index	18 dB	
Fire rating ⁽²⁾		
• Europe	clear 1099, white 1146, bronze 1850	} B-s1, d0 (EN 13501-1)
• UK	bronze 1850	
• France	clear 1099, white 1146	class 1Y (BS 476, Part 7)
• Italy	roof and wall	M1 (NF P 92501/505) Classe 1 (CSE/RF2/75A & 3/77)

⁽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, always check if the mentioned certificate is still valid



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makrolon®
multi UV