Product data sheet, June 2023

Exolon® multi UV HX/25-32

Multiwall polycarbonate sheet

I Line
Innovative

Your benefits:

- extremely heat-insulating
- high stiffness
- good load bearing capacity

Exolon® multi UV HX/25-32 is a polycarbonate sheet of 25 mm thickness, with a Hybrid-X-structure for enhanced stiffness. It combines good load bearing properties, good thermal insulation, light transmission and excellent weather resistance. The sheet is lightweight, impact resistant and easy to install.

Exolon® multi UV HX/25-32 is ideal for flat glazing applications.

- conservatories
- industrial glazing, sports halls
- partition walls
- skylights, northlight glazing
- roofing, cladding

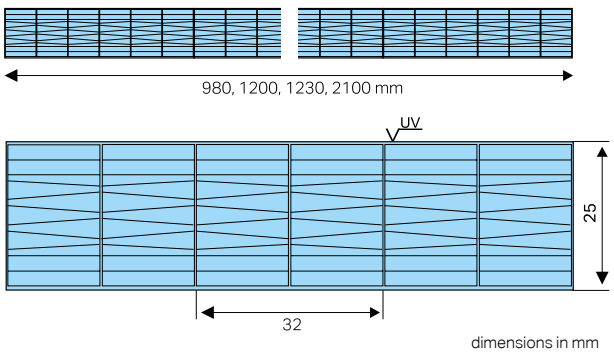
The sheets are produced with a coextruded UV-protective layer, which is homogeneously fused with the sheet material. This UV-protected side must be installed facing upwards/outwards. It provides **Exolon® multi UV** with a highly effective protection against weathering, guaranteed for 10 years.

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!

TECHNICAL DATA (TYPICAL VALUES)

Area weight	3.3 kg/m²	
Sheet width	980, 1,200, 1,230, 2,100 mm	
Possible delivery lengths	2,000 to 7,000 mm	
Light transmittance τ_{D65} (UV-absorbing)	clear 1099 white 1146: IQ-Relax:	approx. 49 % approx. 42 % approx. 35 %
Total energy transmission g	clear 1099: white 1146: IQ-Relax:	approx: 48% approx. 44 % approx. 36 %
Heat transfer coefficient Ug [2]	1.3 W/m² 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	
Fire rating [1] • Europe	clear 1099 white 1146 IQ-Relax	} B-s1, d0 (EN13501-1)

[1] 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.
[2] Heat transfer coefficient Ug according to EN ISO 10077-2



dimensions in mm

EPSE
CERTIFIED EUROPEAN QUALITY

exolon® multi UV

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Ideas, innovative, intelligent, interesting... Exolon Group i-line represents the next generation of quality products. This seal guarantees innovative and intelligent first-class solutions at all times for a multitude of requirements.

If **Exolon® multi UV HX/25-32** 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 HX/25-32** (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.

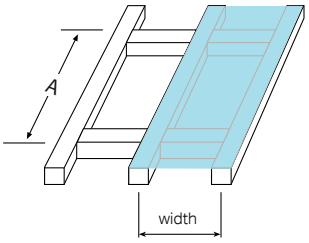
Load bearing characteristics (determination)*:
The component resistance (limit state of load-bearing capacity) of **Exolon® multi UV HX/25-32** has been defined in accordance with the European guideline ETAG 010 regarding practical tests. The characteristic values identified were calculated on the longitudinal sides by considering the chucking 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.

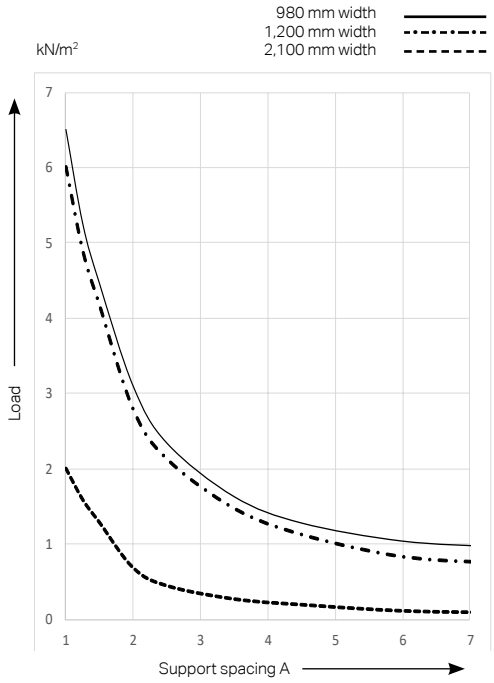
The values are reference values calculated by an independent and notified institute through tests on actual systems. Adequate safety margins must be observed in addition to these values. The margins are to be assessed on a case-by-case basis.

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/m²	0.75	1.0	1.25	1.5	2.0	Width in mm
Length or support spacing A	m	∞	6.9	4.7	3.9	3.0	980
	m	∞	5.2	4.2	3.5	2.7	1,200
	m	1.9	1.7	1.5	1.3	1.0	2,100

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.

Exolon Group S.p.A
Strada Di Vagno 15/A –
05035 Nera Montoro (TR)

Italy

www.exolongroup.com
sales@exolongroup.com