

Product data sheet, February 2023

Exolon® multi UV Greca 5G

Multiwall polycarbonate sheet



Your benefits:

- good load bearing properties
- good light transmission
- easy to install

Exolon® multi UV Greca 5G is a polycarbonate sheet with a tunnel structure and a greca profile. It combines good load bearing properties, light transmission and excellent weather resistance. The sheet is lightweight, impact resistant and easy to install.

Exolon® multi UV Greca 5G is ideal for

- roofing
- combination of sandwich panels

The UV coating of **Exolon® multi UV Greca 5G** is applied by co-extrusion and is homogeneously fused with the sheet. We give a 10-year warranty on this highly effective protection against sunlight and weathering. It must be ensured when installing the sheet that the UV coating faces upwards/outwards (towards the sun).

TECHNICAL DATA (TYPICAL VALUES)

Thickness	12 mm	
Sheet width	1,000 mm +/- 5 mm	
Possible delivery lengths	on request	
Light transmittance τ_{D65} (UV-absorbing)	clear 1099 frost: white 1146:	ca. 80 % ca. 70 %
Total energy transmission g	clear 1099 frost: white 1146:	ca. 57 % ca. 53 %
Heat transfer coefficient $U_g^{(2)}$	2.4 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	
Fire rating ⁽¹⁾	clear 1099 frost } white 1146 }	B-s1, d0 (EN 13501-1)

TECHNICAL DATA (TYPICAL VALUES)

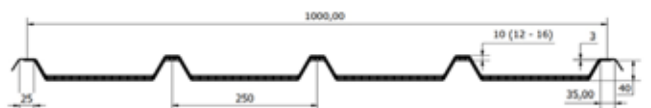
Thickness	10 mm	
Sheet width	1,000 mm +/- 5 mm	
Possible delivery lengths	on request	
Light transmittance τ_{D65} (UV-absorbing)	clear 1099 frost: white 1146:	ca. 80 % ca. 70 %
Total energy transmission g	clear 1099 frost: white 1146:	ca. 57 % ca. 53 %
Heat transfer coefficient $U_g^{(2)}$	2.6 W/m ² 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	
Fire rating ⁽¹⁾	clear 1099 frost } white 1146 }	B-s1, d0 (EN 13501-1)

TECHNICAL DATA (TYPICAL VALUES)

Thickness	16 mm	
Sheet width	1,000 mm +/- 5 mm	
Possible delivery lengths	on request	
Light transmittance τ_{D65} (UV-absorbing)	clear 1099 frost: white 1146:	ca. 78 % ca. 65 %
Total energy transmission g	clear 1099 frost: white 1146:	ca. 57 % ca. 52 %
Heat transfer coefficient $U_g^{(2)}$	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	
Fire rating ⁽¹⁾	clear 1099 frost } white 1146 }	B-s1, d0 (EN 13501-1)

⁽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 U_g according to EN ISO 10077-2



Adjustment of the edges could be required in the following range:
Min. 20 mm and Max. 40 mm

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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 Greca 5G** in roof 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.

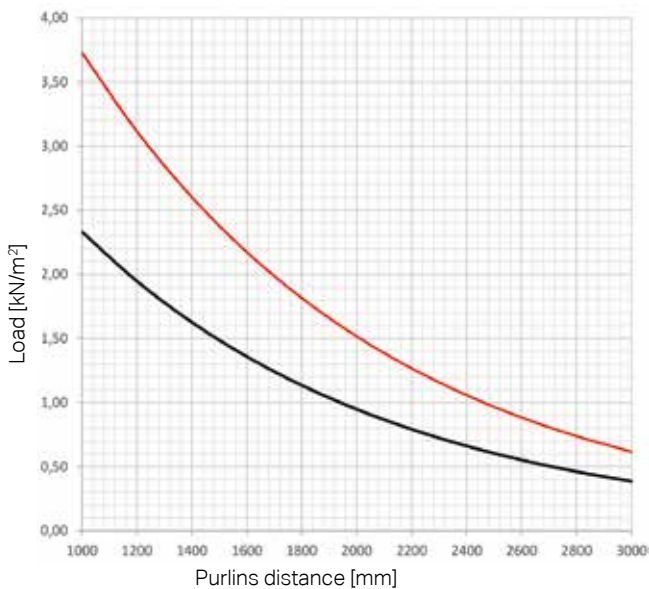
The diagram shows the load-bearing capacity of **Exolon® multi UV Greca 5G**

The values are indicative values, evaluated by tests on actual systems. The load values do not replace any official value calculated by an expert or a notified body.

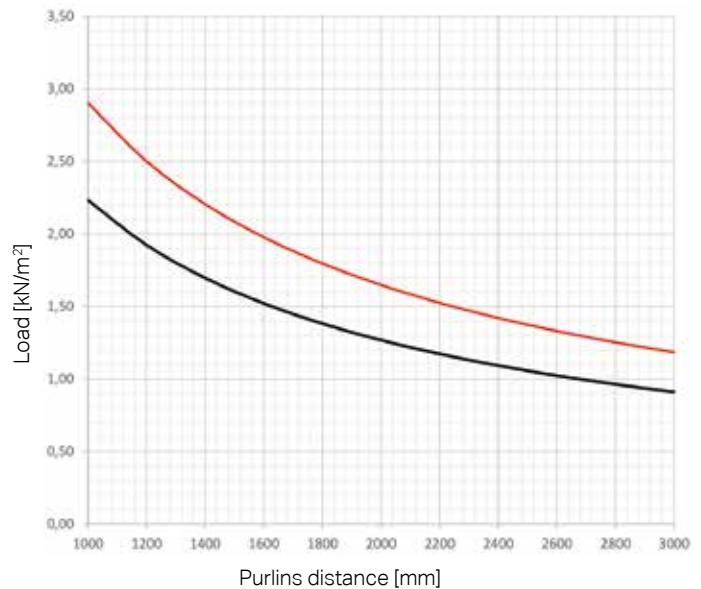
Adequate safety margins must be observed in addition to these values. The margins are to be assessed on a case-by-case basis.

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



— Exolon Greca 5G - Flat Application Single Sheet
— Exolon Greca 5G - Flat Application Multi Sheet



— Exolon Greca 5G - Curved Application R = 3300 mm - Single Sheet
— Exolon Greca 5G - Curved Application R = 3300 mm - Multi Sheet

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



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