



Product data sheet, April 2021

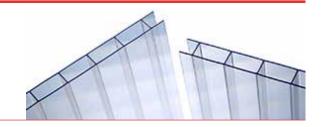
Exolon® multi UV 2/16-30

Multiwall polycarbonate sheet



Your benefits:

- excellent load bearing
- high surface quality
- •two-side UV-protection
- 20 years warranty



Exolon® multi UV 2/16-30 is a twinwall polycarbonate sheet with a thickness of 16 mm. It combines a high level of light transmission with thermal insulation and excellent weather resistance. The sheet is lightweight, impact-resistant and easy to install.

Exolon® multi UV 2/16-30 is ideal for flat glazing.

- industrial glazing
- greenhouses
- carports, porches, shelters
- covered walkways
- partition walls
- Restoration of glazed surfaces
- Hall skylights

The sheets are produced with a coextruded UV-protective layer on both sides, which is homogeneously fused with the sheet material. It provides **Exolon® multi UV 2/16-30** with a highly effective protection against weathering, guaranteed for 20 years.

On request:

No drop

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

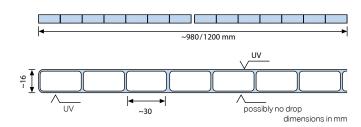
ClimateControl

Exolon® multi UV ClimateControl clear is a transparent polycarbonate sheet that largely absorbs infrared light on both sides. This therefore significantly reduces heat transfer whilst simultaneously providing a high level of light transmission.

TECHNICAL DATA (*	TYPICAL VALUES	S)		
Area weight	3.6 kg/m ²			
Sheet width	980/1.200 mm			
Possible delivery lengths	2.000 to 7.000 mm			
Minimum permissible cold-bending radius (1)	2.400 mm			
Light transmittance τ _{D65} (UV-absorbing)	clear 2099: white 2146: bronze 2845: CC clear 2070:	ca. 77 % ca. 57 % ca. 22 % ca. 70%		
Total energy transmission g	clear 2099: white 2146: bronze 2845: CC clear 2070:	ca. 74 % ca. 60 % ca. 46 % ca. 54%		
Heat transfer coefficient Ug ⁽³⁾	2.8 W/m ² K			
Coefficient of thermal expansion $lpha$	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	22 dB			
Fire rating ⁽²⁾ • Europe all colours	B-s1, d0 (EN13501-	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.

(3) Heat transfer coefficient Ug according to EN ISO 10077-2







Exolon® multi UV 2/16-30

Multiwall polycarbonate sheet



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.

When using **Exolon® multi UV 2/16-30** 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 2/16-30** (supported on all sides, rebate depth \geq 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):

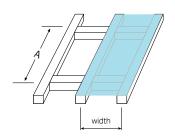
The component resistance (limit state of load-bearing capacity) of **Exolon® multi UV 2/16-30** has been defined in accordance with the European guideline ETAG 010 regarding practical tests. The characteristic values identified were calculated on the longitudinal sides by considering the chucking effect (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.

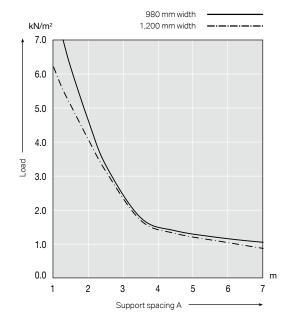
The values are reference values calculated by an independent and notified institute through tests on actual systems. Adequate safety margins must be observed in addition to these values. The margins are to be assessed on a case-by-case basis.

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	m	∞	∞	5.4	4.2	3.4	980
spacing A	m	8	6.2	4.8	4.0	2.3	1,200

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 The manner in which you use and the purpose to which you put and utilize our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations, are beyond our control. Therefore, it is imperative that you test our products, technical assistance, information and recommendations to determine to your own satisfaction whether our products, technical assistance and information are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by Evolon Group. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale which are available upon request. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume and hereby expressly release us from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with any claim of any patent.

 $\mathsf{Exolon}^{\texttt{o}}$ is a registered trademark of Exolon Group

