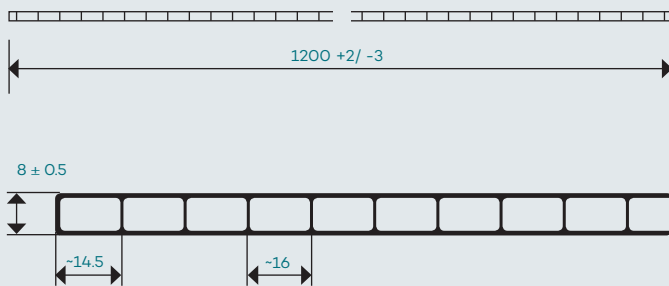


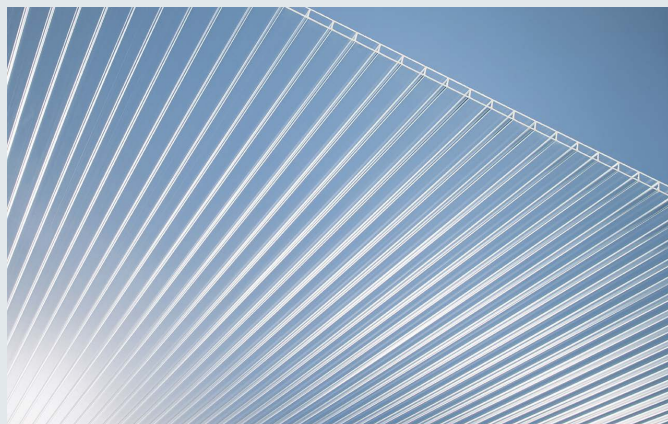


PLEXIGLAS®
Double-skin Sheet

PLEXIGLAS® Resist SDP 8/1200-16



Section of PLEXIGLAS® Resist SDP 8 (Dimension in mm)



Product

PLEXIGLAS® Resist¹ SDP 8 is a heat-insulating, highly light-transmitting and durably weather-resistant double-skin sheet made of impact-modified acrylic (polymethylmethacrylate, PMMA).

Properties

Besides the general properties of PLEXIGLAS® like

- Excellent light transmission and brilliance
- Outstanding weather resistance
- 100% recycling ability
- Easy to fabricate
- High surface hardness

PLEXIGLAS® Resist SDP 8 possesses the following properties:

- They offer extremely high resistance to UV light and come with a 30-year non-yellowing guarantee².
- They offer excellent protection against an excess of harmful UV radiation.
- They are very safe during handling.
- They help to save energy and minimize CO₂ emissions.
- They are hail-resistant (to hailstones with an impact energy up to 1 joule).
- This comes with a 10-year guarantee.

¹ European Patent 733 754

² Applies to clear-transparent PLEXIGLAS® multi-skin sheets as per guarantee statement



PLEXIGLAS® Double-skin Sheet

Applications

Due to these properties PLEXIGLAS® Resist SDP 8 is suitable for the following applications

- Carports
- Conservatories
- Façades
- Greenhouses
- Patio roofs
- Porches
- Skylights
- Verandas

Processing

For PLEXIGLAS® Resist SDP 8 the following processing guideline is available:

- Instructions for Installing PLEXIGLAS® Multi-Skin, Corrugated- and Solid Sheets (Ref-No. 311-8)

Product range

PLEXIGLAS® Resist SDP 8 is available in the following grades and sizes:

- Length: 2,000 – 7,000 mm
- Width: 1200 mm
- Colors: Clear, (White on request)

For details please refer to the PLEXIGLAS® sales handbook.

NO DROP coating

The water-dispersing NO DROP³ coating applied to one side of the sheet causes any surface water to flow off as a thin, continuous film.

When the sheet is installed with the NO DROP coating on the outside of the roof, it supports natural cleaning by rainwater. Installed on the inside of the roof, the coating helps to prevent dripping from condensation and the damage this may cause.

The NO DROP coating is covered with a protective layer applied during the manufacturing process. This protective layer can be washed off with water and a sponge, or by hosing down the sheet. This activates the NO DROP coating.

Load-bearing capacity Support spacing

Supported on all four sides, the PLEXIGLAS® Resist SDP 8/1200 double skin sheet need cross-members as stated in the table.

The load-bearing capacity is determined in line with ETAG 010 (Guideline for European Technical Approval for Self-supporting, Translucent Roof Kits), assuming a rebate depth of 20 mm for the multi-skin sheets in the glazing system. The support spacing should be reduced correspondingly for smaller rebate depths.

Support spacing

Load [N/m ²]	Support spacing [m]
100	5.20
200	3.50
300	3.10
400	2.70
500	2.50
600	2.40
700	2.20
800	2.20

³ Europ. Patent 149 182



Technische Daten (Richtwerte)	
Available length	2000 – 7000 mm
Light transmittance τ_{D65}	
Clear 00721 NO DROP	approx. 84%
White W1621 (on request)	approx. 80%
Total energy transmittance g	
Clear 00721 NO DROP	approx. 82%
White W1621 (on request)	approx. 79%
Heat transfer coefficient k	3.4 W/m ² K
Coefficient of linear thermal expansion α	0.09 mm/m ² K
Possible expansion due to heat and moisture	approx. 6 mm/m
Max. service temperature without load	70 °C
Weighted sound reduction index	approx. 23 dB
Minimum permissible cold-curving radius	1200mm (150xsheet thickness)
Area weight	approx. 2.8 kg/m ²

Fire behavior

- PLEXIGLAS® is rated as European Class E in accordance with DIN EN 13501.
- PLEXIGLAS® burns almost entirely without smoke in accordance with DIN 4102 and is easily extinguished.
- The smoke gases formed by PLEXIGLAS® are neither acutely toxic in accordance with DIN 53436 nor corrosive according to DIN VDE 0482-267.
- Roof surfaces glazed with PLEXIGLAS® open up by melting in the event of fire, allowing smoke and heat to escape.

Guarantee

You can find the guarantee statements on this and other products at www.plexiglas.de

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www.polyvantis.com

® = registered trademark

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