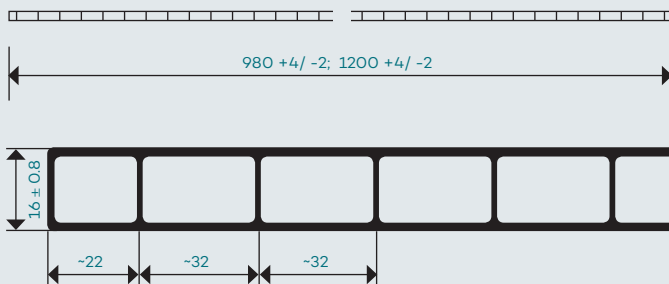




PLEXIGLAS®
Multi-skin Sheet

**PLEXIGLAS® Heatstop Cool Blue SDP 16/980 (/1200)-32
White WZ007**



Section of PLEXIGLAS® Heatstop Cool Blue SDP 16/ (Dimension in mm)

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® Heatstop Cool Blue SDP 16 possesses the following properties:

- Incident solar energy is reduced by as much as 75 %.
- The color impression beneath the glazing is very pleasant and cool.
- The sheets offer excellent protection against an excess of harmful UV radiation.
- They are impact-resistant during transport, handling and installation.
- They are heat-insulating.
- 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.

Applications

Due to these properties PLEXIGLAS® Heatstop Cool Blue SDP 16 is suitable for the following applications:

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

Product

PLEXIGLAS® Heatstop Cool Blue SDP 16 is an infrared (IR)-reflecting, heat-insulating and extremely weather-resistant double-skin sheet made of impact-modified acrylic (polymethyl methacrylate, PMMA). The Heatstop coating is uniformly and permanently fused with the sheet material and is equally effective on the upper and lower side of the sheet.



Processing

For PLEXIGLAS® Heatstop Cool Blue SDP 16 the following processing guideline is available:

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

Product range

PLEXIGLAS® Heatstop Cool Blue SDP 16 is available in the following grades and sizes:

- Length: 2000 – 7000 mm
- Width: 980 mm, 1200mm
- Colors: White (bluish-golden)

For details please refer to the PLEXIGLAS® sales handbook.

Heatstop Cool Blue Effect

The PLEXIGLAS® Heatstop Cool Blue multi-skin sheet very effectively reduces solar heat radiation by means of special technology. This effect is supported by its specific color, which also has a favorable influence on the perceived temperature, a factor that is very important for human wellbeing. The Heatstop Cool Blue coating gives the sheets an attractive golden surface gloss. Seen from below, the sheets have a cool, bluish look, as befits their function. This color has an iridescent effect. The color impression varies depending on the viewing angle and lighting conditions.

NO DROP coating

The water-dispersing NO DROP¹ 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

Thanks to their high rigidity, these sheets allow large spans, which reduce shadows inside the room and cuts construction costs. Supported on all four sides, the PLEXIGLAS® Heatstop Cool Blue SDP 16/980 double skin sheet requires no additional cross-members at a load of up to 1,000 N/m². The spacing stated in the table applies to greater loads. 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 [m]

Load [N/m²]	980 mm	1200 mm
750	No cross-members	No cross-members
1000	No cross-members	4.0
1250	4.2	3.1
1500	3.4	2.8
1750	3.1	2.6
2000	2.9	2.5
2250	2.7	2.4
2500	2.5	2.2
2750	2.4	2.1
3000	2.3	2.0

¹ Europ. Patent 149 182



Technische Daten (Richtwerte)

Available length	2000 – 7000 mm
Light transmittance τ_{D65}	
White WZ007 NO DROP	approx. 20%
Total energy transmittance g g	
White WZ007 NO DROP	approx. 25%
Heat transfer coefficient k	2.5 W/m²K
Coefficient of linear thermal expansion α	0.09 mm/m²K
Possible expansion due to heat and moisture	approx. 6 mm/m
Max. service temperature without load	70 °C
Weighted sound reduction index (estim.)	24 dB
Minimum permissible cold-curving radius	2400mm (150xsheet thickness)
Area weight	approx. 4.0 kg/m²

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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® = registered trademark

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