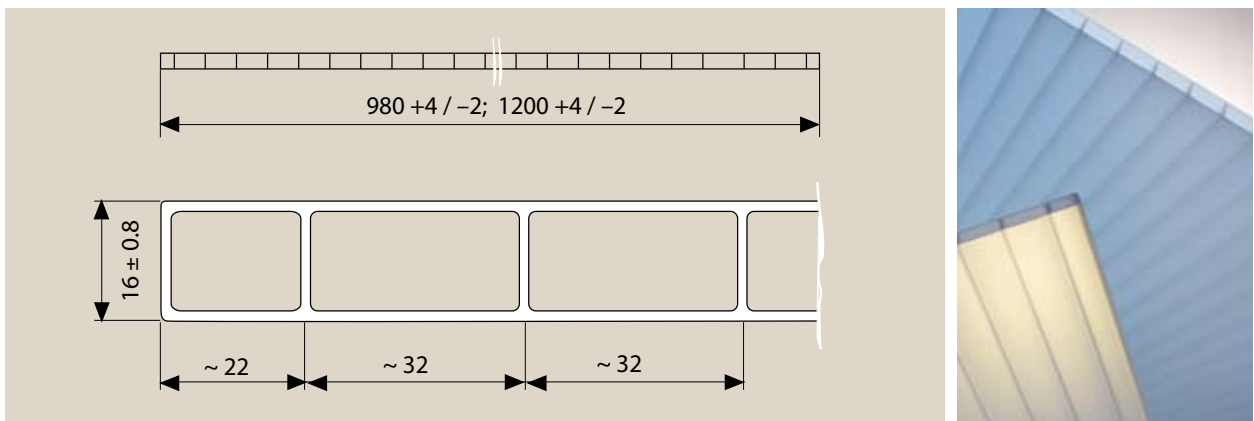


PLEXIGLAS HEATSTOP®

Cool Blue SDP 16/980 (/1200)-32 Product Description

Technical Information



Section of PLEXIGLAS HEATSTOP® Cool Blue SDP 16 (Dimensions in mm)

Product and Benefits

PLEXIGLAS HEATSTOP® Cool Blue SDP 16 is an **IR-(infrared) reflecting, heat-insulating** and highly weather-resistant double-skin sheet made of **impact-modified** acrylic (polymethyl methacrylate, PMMA). The HEATSTOP component is uniformly distributed throughout the entire sheet.

Glazing with PLEXIGLAS HEATSTOP® Cool Blue SDP 16 offers essential benefits:

- The impinging solar energy is **reduced by up to 75 %**.
- The color makes a very pleasant and cool impression beneath the glazing.
- **Impact strength** during transport, handling and installation.
- The sheets are **hail-resistant** and come with a 10-year guarantee.

Thanks to its special technology, the PLEXIGLAS HEATSTOP® Cool Blue multi-skin sheet effectively reduces the sun's heat radiation. It supports this effect with a specially chosen color that people associate with pleasant temperatures, thus enhancing their well-being. The HEATSTOP Cool Blue coating gives the sheets an attractive, golden surface sheen. Seen from below, the sheets appear pleasantly cool, as befits their function. This coloring has an iridescent effect. The color impression may change depending on viewing angle and lighting conditions.

NO DROP-Coating

When installed with the water-dispersing **NO DROP* coating** on one side facing upwards/outwards, this offers the advantages that the NO DROP coating ensures a better cleaning effect and more rapid drying in wet weather.

When installed facing downwards/inwards, any condensation flows off as a continuous film, preventing uncontrolled dripping and letting more light into the glazed area.

The NO DROP coating is covered by a protective layer applied during manufacture. This is washed off by rainwater or condensation, thus activating the NO DROP coating. The protective layer can also be removed with water and a sponge or by using a hose.

*) Europ. Patent 149 182



The sheet is completely protected against UV radiation by the "Naturally UV-Stable Technology."

Technical Data (Typical Values)

Available lengths	2,000 to 7,000 mm	
Light transmittance τ_{D65}	White WZ007	ca. 20 %
Total energy transmission g	NO DROP:	ca. 25 %
U-value	2,5 W/m ² K	
Coefficient of linear thermal expansion	0,09 mm/m °C	
Possible expansion due to heat and moisture	ca. 6 mm/m	
Max. permanent service temperature without load	70 °C	
Weighted sound reduction index (estimated)	24 dB	
Minimum permissible cold-curving radius	2.400 mm	

Fire Behavior

- PLEXIGLAS® is rated in Euroclass E to DIN EN 13501 with regard to fire behavior.
- PLEXIGLAS® burns almost without smoke according to DIN 4102 and is easy to extinguish.
- The smoke gases produced by PLEXIGLAS® are not acutely toxic according to DIN 53436 and are non-corrosive according to DIN VDE 0482-267.
- Roof surfaces glazed with PLEXIGLAS® open up by melting in the event of fire and allow smoke and heat to escape.

Guarantee

10-year guarantee for the light transmission, hail resistance, rigidity and strength (www.plexiglas.net).

Loadbearing Capacity

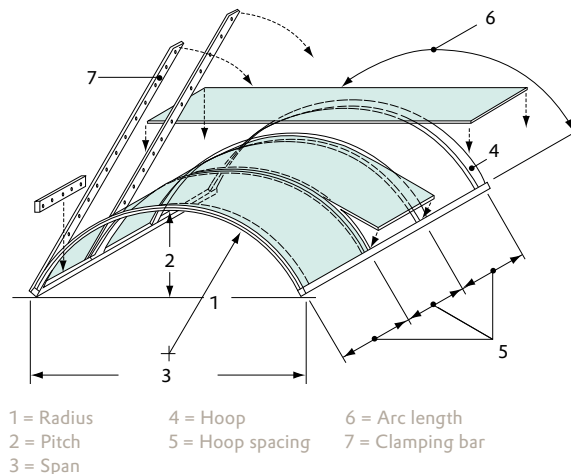
As **flat** glazing supported on all sides, the multi-skin sheet with the width of 980 mm requires **no additional cross members** for the load of 750 N/m²; the sheet width 1,200 mm requires **cross members spaced at 4.90 m**.

Cold-Curving

For roof glazing in the form of **barrel vaults**, the multi-skin sheets are usually **cold-curved** over the regularly shaped circular (metal) hoops.

A high loadbearing capacity is obtained at small radii. The **minimum cold-curving radius** for PLEXIGLAS HEATSTOP® Cool Blue SDP 16 is **2,400 mm (= 150 × thickness)**.

When spacing the hoops, the expansion and the rebate or clamping depth of at least 15 mm must be borne in mind.



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® = registered trademark

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Certified to DIN EN ISO 9001 (quality) and
 DIN EN ISO 14001 (environment)

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