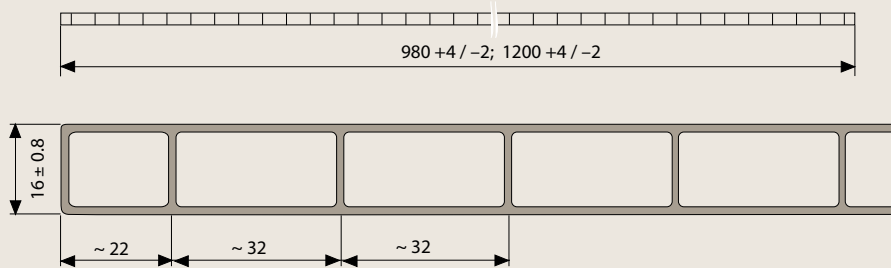


# PLEXIGLAS® Heatstop SDP 16/980 (/1200) – 32

## Product Description



Section of PLEXIGLAS® Heatstop SDP 16 (Dimensions in mm)

### Product and Benefits

PLEXIGLAS® Heatstop SDP 16 is an **IR-(infrared) reflecting, heat-insulating** and highly weather-resistant double-skin sheet made of **impact-modified** acrylic (polymethyl methacrylate, PMMA).

In this double-skin sheet, the Heatstop protection is not applied to one side as a surface coating, but is uniformly integrated into the sheet substrate.

The PLEXIGLAS® Heatstop SDP 16 double-skin sheet offers the user major advantages:

- **impact strength** during transport, handling and installation,
- **hail resistance** with a guaranteed long-term energy value of 1 joule,
- it **reduces** heat buildup in rooms due to sunlight by almost **50%** and provides particularly **uniform daylighting**.

The **Heatstop** protection gives the sheets an attractive, reddish-purple surface gloss. 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.

<sup>\*)</sup> Europ. Patent 149 182



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

### 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/m<sup>2</sup>; 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 SDP 16 is **2,400 mm (= 150 x thickness)**.

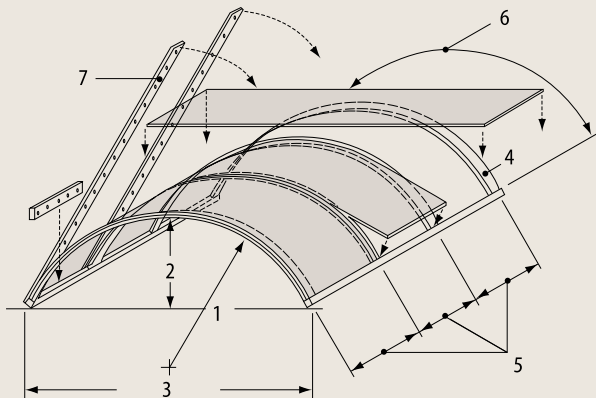
When spacing the hoops, the expansion and the rebate or clamping depth of at least 15 mm must be borne in mind.

### Fire Behavior

- The fire behavior of PLEXIGLAS® is rated as European Class E according to DIN EN 13501.
- PLEXIGLAS® burns almost entirely without smoke according to DIN 4102 and is easily extinguished.
- The smoke gases produced by PLEXIGLAS® are neither acutely toxic according to 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

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



1 = Radius  
2 = Pitch

3 = Span  
4 = Hoop

5 = Hoop spacing  
6 = Arc length  
7 = Clamping bar

### Technical Data (Typical Values)

Available lengths	2,000 to 7,000 mm
<b>Light transmittance <math>\tau_{D65}</math></b>	
White WR004 NO DROP (UV-absorbing)	~ 50 %
<b>Total energy transmittance <math>g</math></b>	
White WR004 NO DROP (UV-absorbing)	~ 40 %
<b>Selectivity factor</b>	
White WR004 NO DROP (UV-absorbing)	1.25
U-value	2.5 W/m <sup>2</sup> K (Test report 13-901399/P1/Fi, FMPA Stuttgart)
Coefficient of linear thermal expansion $\alpha$	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	1.200 mm

\* = registered trademark PLEXIGLAS is a registered trademark of Evonik Röhm GmbH, Darmstadt, Germany.

Certified to DIN EN ISO 9001 (Quality) and DIN EN ISO 14001 (Environment)

Evonik Industries is a worldwide manufacturer of PMMA products sold under the PLEXIGLAS® trademark on the European, Asian, African and Australian continents and under the ACRYLITE® trademark in the Americas.

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