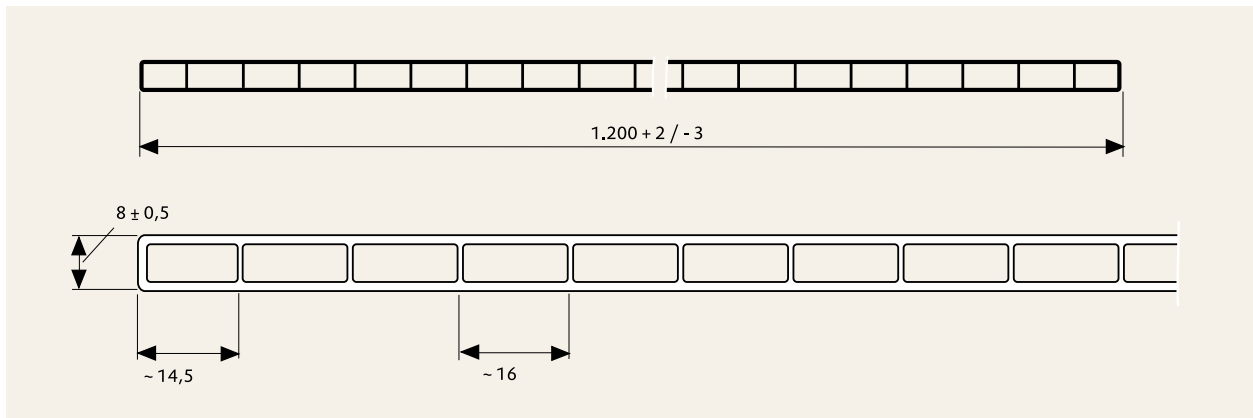


# PLEXIGLAS HEATSTOP®

## Opal SDP 8/1200-16 Product Description

### Technical Information



Section of PLEXIGLAS HEATSTOP® SDP 8 (dimensions in mm)

#### Product and Benefits

PLEXIGLAS HEATSTOP® SDP 8 double-skin sheet is made of impact-modified acrylic (polymethyl methacrylate, PMMA) that **reflects IR (infrared) light, is heat-insulating** and highly weather-resistant.

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..

Glazing with PLEXIGLAS HEATSTOP® SDP 8 offers the user major advantages:

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

A separate leaflet (Ref. No. 111-19) confirms the 10-year guarantee on the light transmission, hail resistance, rigidity and strength of PLEXIGLAS HEATSTOP® SDP 8.

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.

## Technical Data (Typical Values)

Available lengths	2000 to 7000 mm	
Light transmittance $\tau_{0.65}$	White WR004:	ca. 62%
Total energy transmission g	NO DROP: (UV-absorbing)	ca. 50%
Selectivity factor		1.24
U-value	3.4 W/m <sup>2</sup> K	
Coefficient of linear thermal expansion $\alpha$	0.09 mm/m°	
Possible expansion due to heat and moisture	ca. 6 mm/m	
Max. permanent service temperature without load	70°C	
Weighted sound reduction index (estimated)	23 dB	
Minimum permissible cold-curving radius	1.200 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.

## Loadbearing Capacity

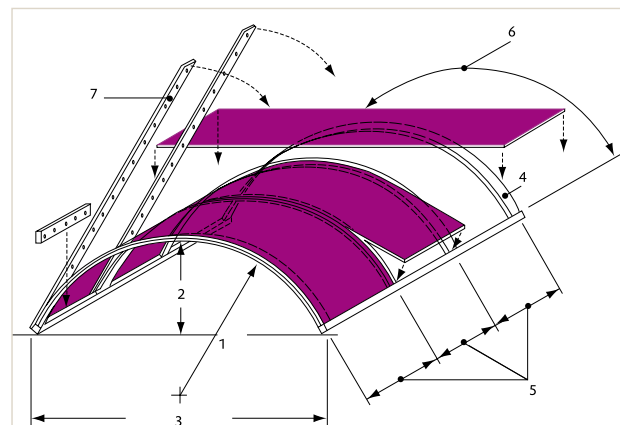
As **flat** glazing supported on all sides, the multi-skin sheet with the width of 1,200 mm requires **crosswise supports spaced at 2.7 m** for the load of 750 N/m<sup>2</sup>.

## 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 8 is **1,200 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.



1 = Radius  
2 = Pitch

3 = Span  
4 = Hoop

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

® = registered trademark

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

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