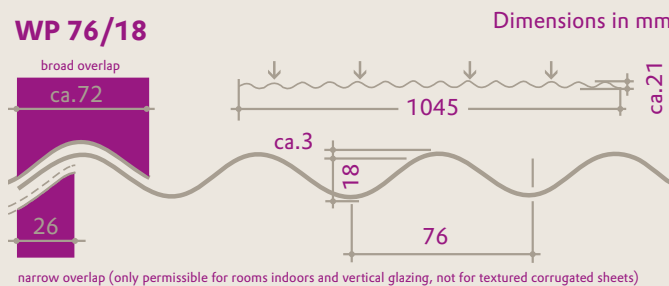


PLEXIGLAS® Heatstop Opal WP 76/18

Product Description



Cross-section of PLEXIGLAS® Heatstop Opal WP 76/18 (dimensions in mm)

Product and Benefits

PLEXIGLAS® Heatstop Opal 76/18 is a corrugated sheet made of impact-modified acrylic (polymethyl methacrylate, PMMA). It reflects infrared (IR) light and is highly weather-resistant. The Heatstop Opal coating is evenly integrated into the sheet and permanently fused with the sheet material.

PLEXIGLAS® Heatstop WP 76/18 is suitable for

- patio roofs
- carports
- porches
- verandas
- façades
- windbreaks
- sight screens
- infill panels for balconies, stairs, etc.
- lampshades, decorative elements, store fixtures, exhibition booths
- etc.

Advantages of PLEXIGLAS® Heatstop Opal WP 76/18

- The sheets significantly reduce heat buildup in rooms due to sunlight.
- They prevent glare by their very uniform diffusion of daylight.
- They offer excellent protection against harmful UV radiation.
- They are stable, safe and easy to handle.
- They are guaranteed to be resistant for 10 years to hailstones with a kinetic energy of 1 joule.

Stability and Impact Strength

Owing to their special formulation, PLEXIGLAS® Heatstop Opal WP 76/18 sheets are highly impact-resistant and are easy to machine using simple tools. They are also much thicker than many other corrugated sheets and therefore show high inherent rigidity and loadbearing capacity. This means that PLEXIGLAS® Heatstop Opal WP 76/18 sheets show much less deflection under snow load, making them safer and more attractive.

Heatstop Effect and Color

PLEXIGLAS® Heatstop Opal WP 76/18 sheets have an attractive reddish-purple surface sheen. Viewed from below, they appear pleasantly cool, as befits their function. This color has an iridescent effect. The color impression may vary depending on the viewing angle and lighting conditions. In addition to these benefits, the Heatstop Opal coating makes it possible to achieve interesting design and lighting effects in many applications.

Installation and Care Instructions

On roofs and façades, PLEXIGLAS® Heatstop Opal WP 76/18 sheets are fastened pointwise to an adequately sized supporting structure. Both sides of the sheet can be installed facing outwards. Given correct installation, rain washes off any soiling, but we still recommend that the PLEXIGLAS® Heatstop Opal corrugated sheets be cleaned once a year according to our care instructions, in order to conserve their full value.



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

Technical Data (typical values)

Available lengths	2,000 to 7,000 mm
Light transmittance τ_{D65}	
Heatstop White WZ002	ca. 48 %
Coefficient of linear thermal expansion α	0.08 mm/m °C
Possible expansion due to heat and moisture	ca. 6 mm/m
Maximum service temperature without load	70 °C

Support spacing

Load [N/m ²]	Support spacing [m]
200	1.70
400	1.20
600	1.00
800	0.80
1000	0.75
1200	0.65

Fire Behavior

- The fire behavior of PLEXIGLAS® is rated as European Class E to DIN EN 13501.
- PLEXIGLAS® burns almost entirely without smoke according to DIN 4102 and is easy to extinguish.
- 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

The guarantee conditions for this and other products are available at www.plexiglas.net.

Loadbearing Capacity

Support spacing

According to the installation instructions for PLEXIGLAS® corrugated sheets with pointwise fastening, the PLEXIGLAS® Heatstop WP 76/18 corrugated sheets require cross-members at the spacings shown in the adjacent table.

* = 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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