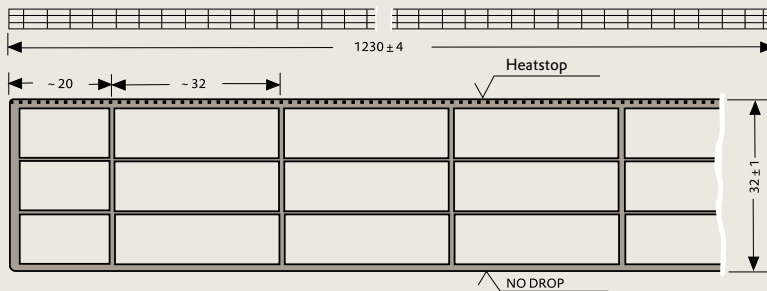


PLEXIGLAS® Heatstop Cool Blue S4P 32/1230-32

Product Description



Section of PLEXIGLAS® Heatstop Cool Blue S4P 32 (Dimensions in mm)



Product and benefits

PLEXIGLAS® Heatstop Cool Blue S4P 32 is a quadruple-skin sheet of impact-modified acrylic (polymethyl methacrylate, or PMMA). It is IR (infrared)-reflecting, highly heat-insulating, and durably weather-resistant. The coextruded Heatstop coating is homogeneously fused with the sheet material and, in outdoor applications, must be installed facing upward or outward.

PLEXIGLAS® Heatstop Cool Blue S4P 32 glazing offers the following major advantages:

- reduces incident solar energy by up to 78 percent,
- gives a pleasantly cool impression with its blue color under the glazing,
- is impact-resistant during shipping, handling, and installation,
- is highly heat-insulating, and
- is hail-resistant, with a 10-year guarantee for withstanding hailstones with a kinetic energy of 1 joule.

Heatstop® Cool Blue Effect

PLEXIGLAS® Heatstop Cool Blue multi-skin sheet uses a special technology for effectively reducing solar heat radiation. This effect is reinforced by 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. Viewed from below, they have a pleasantly cool bluish tinge, as befits their function, with an iridescent effect. The color impression may vary depending on viewing angle and lighting conditions.

Heat Insulation

With its excellent U-value, the sheet meets the requirements of the German Energy Conservation Regulation (EnEV). It is therefore suitable for highly heat-insulating glazing in private construction as well as factory units and sports halls.

Loadbearing Capacity

Owing to its high rigidity, this sheet can be used for large spans. Few supports are required- and no cross-members at all for loads of up to 1,000 N/m²- which produces fewer shadows indoors and reduces construction costs.

NO DROP Coating

The sheet is installed with the side bearing the water-dispersing **NO DROP coating** facing downwards/inwards. This offers the advantage that 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. If not automatically washed off by condensation, the protective layer can also be removed manually with water and a sponge or by using a hose. This activates the NO DROP coating.



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

Loadbearing Capacity

Support spacing

For loads of up to 1,000 N/m², PLEXIGLAS® Heatstop Cool Blue S4P 32 quadruple-skin sheet supported evenly on all four sides requires no additional cross-members. For higher loads, the spacings shown in the table apply. The loadbearing capacity of PLEXIGLAS® Heatstop Cool Blue S4P 32 is determined in accordance with ETAG 010 (the European Technical Approval Guidelines for self-supporting translucent roof kits), with a clamping depth of 20 mm being assumed for the sheet in the glazing system. For lower clamping depths the spacing of the supports is to be reduced accordingly.

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

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

Support spacing

Load [N/m ²]	Support spacing [m]
750	No cross-members
1000	No cross-members
1250	5.7
1500	4.2
1750	3.7
2000	3.3
2250	3.1
2500	2.9
2750	2.7
3000	2.6

Technical data (typical values)

Available lengths	2,000 to 7,000 mm
Light transmittance τ_{D65}	
White WZ008 NO DROP	ca. 20 %
Total energy transmission g	
White WZ008 NO DROP	ca. 22 %
U-value	1.6 W/m ² K
Coefficient of heat expansion α	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	ca. 24 dB

* = 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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