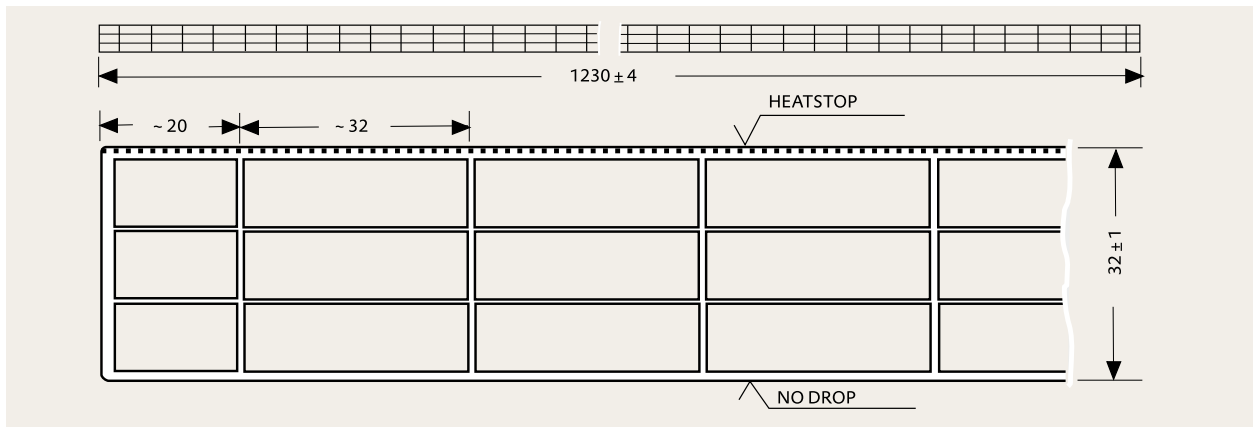


PLEXIGLAS HEATSTOP®

S4P 32/1230-32 Product Description

Technical Information



Section of PLEXIGLAS HEATSTOP® S4P 32 (Dimensions in mm)

Product and benefits

PLEXIGLAS HEATSTOP®* S4P 32/1230-32 NO DROP** is an **infrared-reflecting, highly heat-insulating** and weather-resistant quadruple-skin sheet made of **impact-modified** acrylic (polymethyl methacrylate, PMMA).

This quadruple-skin sheet is installed with the coextruded **HEATSTOP coating**, fused with the sheet material, facing upwards/outwards.

The PLEXIGLAS **HEATSTOP®** S4P 32 sheet offers the user major advantages:

- **greater impact strength** than conventional multi-skin PMMA sheets during transport, handling and installation,
- the sheet **reduces** the heat build-up in rooms due to sunlight by **almost 60%** and provides particularly **uniform day lighting**.

The HEATSTOP coating gives the sheets a particularly attractive, reddish-purple surface sheen. Viewed from below, the sheets give the impression of being pleasantly cool, as befits their function.

This color has an iridescent effect. The color impression may vary, depending on viewing angle and lighting conditions.

With its excellent **U-value of 1.6 W/m²K**, the sheet meets the requirements of the German statutory order on heat insulation. It is therefore suitable for **highly heat-insulating** glazing in private buildings as well as in factories and sports halls.

Owing to its **excellent** rigidity and its width of 1,230 mm, large spans can be obtained with this sheet. Few supports are required, which reduces shadows indoors.

No additional cross members are required for snow loads up to 750 N/m² when this sheet is supported all around or even if it is only clamped in suitable glazing bars along the longitudinal edges.

*) Europ. Patent 548 822

**) Europ. Patent 149 182



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

Technical data (typical values)

Available lengths	2000 to 7000 mm	
Light transmittance τ_{D65}	White WA013 NO DROP: (UV-absorbing)	ca. 40 %
Total energy transmission g		ca. 30 %
Selectivity factor		1.33
U-value	1.6 W/m ² K (Test report 13-901399/P4/Fi, FMPA Stuttgart)	
Coefficient of heat expansion α	0.09 mm/m°C	
Possible expansion due to heat and moisture	c. 6 mm/m	
Max. permanent service temperature without load	70 °C	
Weighted sound reduction index	ca. 24 dB	

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 and energy transmission, hail resistance, rigidity and strength (www.plexiglas.net).

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.

Support spacing

Supported or clamped all around, the multi-skin sheet requires for the load range of 750 to 1000 N/m² no additional cross members. For greater loads spacing is valid as given in the table.

PLEXIGLAS HEATSTOP® S4P 32 Width as delivered 1230 mm

Load [N/m ²]	Support spacing [m]
750	∞
1000	∞
1250	4.3
1500	3.8
1750	3.4
2000	3.1
2250	2.3
2500	2.0
2750	1.9
3000	1.8

® = registered trademark

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

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