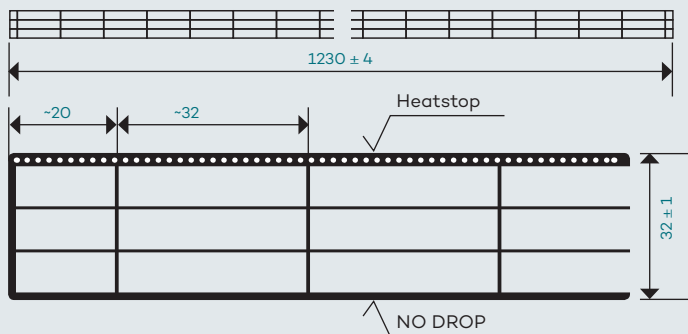




PLEXIGLAS® Multi-skin Sheet

PLEXIGLAS® Heatstop Cool Blue S4P 32/1230-32 White WZ008



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

Product

PLEXIGLAS® Heatstop Cool Blue S4P 32 is a quadruple-skin sheet of impact-modified acrylic (polymethylmethacrylate, 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.

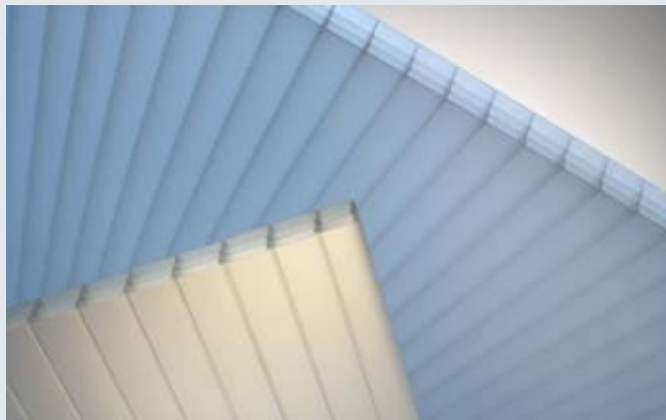
Properties

Besides the general properties of PLEXIGLAS® like

- Excellent light transmission and brilliance
- Outstanding weather resistance
- 100% recycling ability
- Easy to fabricate
- High surface hardness

PLEXIGLAS® Heatstop Cool Blue S4P 32 possesses the following properties:

- Incident solar energy is reduced by as much as 78 %.
- The color impression beneath the glazing is very pleasant and cool.
- The sheets offer excellent protection against an excess of harmful UV radiation.
- They are impact-resistant during transport, handling and installation.
- They are highly heat-insulating.
- They help to save energy and minimize CO² emissions.
- They are hail-resistant (to hailstones with an impact energy up to 1 joule).
- This comes with a 10-year guarantee.





Applications

Due to these properties PLEXIGLAS® Heatstop Cool Blue S4P 32 is suitable for the following applications:

- Carports
- Conservatories
- Façades
- Greenhouses
- Patio roofs
- Porches
- Skylights
- Verandas

Processing

For PLEXIGLAS® Heatstop Cool Blue S4P 32 the following processing guideline is available:

- Instructions for Installing PLEXIGLAS® Multi-Skin, Corrugated and Solid Sheets (Ref-No. 311-8)

Product range

PLEXIGLAS® Heatstop Cool Blue S4P 32 is available in the following grades and sizes:

- Length: 2000 – 7000 mm
- Width: 1230 mm
- Colors: White (bluish-golden)

For details please refer to the PLEXIGLAS® sales handbook.

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 wellbeing. 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.

NO DROP coating

The sheet is installed with the side bearing the water-dispersing NO DROP¹ 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.

Load-bearing capacity Support spacing

Thanks to their high rigidity, these sheets allow large spans, which reduce shadows inside the room and cuts construction costs.

Supported on all four sides, the PLEXIGLAS® Heatstop Cool Blue S4P 32/1230 quadruple skin sheet requires no additional cross-members at a load of up to 1,000 N/m². The spacing stated in the table applies to greater loads. The loadbearing capacity of PLEXIGLAS® Heatstop Cool Blue S4P 32/1230 is determined in line with ETAG 010 (Guideline for European Technical Approval for Self-supporting, Translucent Roof Kits), assuming a rebate depth of 20 mm for the multiskin sheets in the glazing system. The support spacing should be reduced correspondingly for smaller rebate depths.

¹ Europ. Patent 149 182



Support spacing

Load [N/m²]	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

Fire behavior

- PLEXIGLAS® is rated as European Class E in accordance with DIN EN 13501.
- PLEXIGLAS® burns almost entirely without smoke in accordance with DIN 4102 and is easily extinguished.
- The smoke gases formed by PLEXIGLAS® are neither acutely toxic in accordance with 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.

Technical data (Typical values)

Available length	2000 – 7000 mm
Light transmittance τ_{D65}	
White WZ008 NO DROP	approx. 20%
Total energy transmittance g	
White WZ008 NO DROP	approx. 22%
Heat transfer coefficient k	1.6 W/m²K
Coefficient of linear thermal expansion α	0.09 mm/m²K
Possible expansion due to heat and moisture	approx. 6 mm/m
Max. service temperature without load	70 °C
Weighted sound reduction index	approx. 24 dB
Area weight	approx. 5.6 kg/m²

Guarantee

You can find the guarantee statements on this and other products at www.plexiglas.de

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® = registered trademark

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