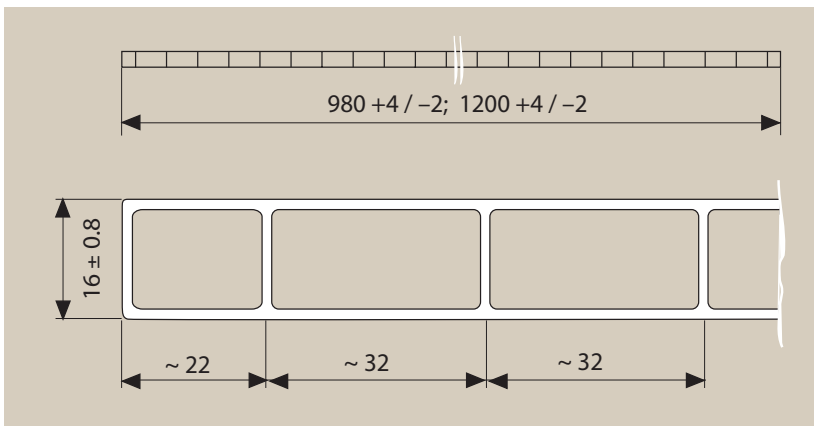


ACRYLITE® Heatstop high impact double-skinned acrylic sheet 16 mm Cool Blue White

Technical Information



Section of 16 mm ACRYLITE Heatstop Cool Blue (dimensions in mm)

Product and Benefits

ACRYLITE® Heatstop Cool Blue high impact acrylic sheet is an IR-(infrared) reflecting, heat-insulating and highly weather resistant double-skinned sheet made of high impact acrylic (polymethyl methacrylate, PMMA). The Heatstop component is uniformly distributed throughout the entire sheet.

Glazing with 16 mm ACRYLITE Heatstop Cool Blue double-skinned sheet offers essential benefits:

- The impinging solar energy is reduced by up to 75%
- Transmitted light results in a cool blue interior sheet color, making a very pleasant and cool environment beneath the glazing
- The sheet has an exterior gold sheen with reflected light
- Impact strength during transport, handling and installation
- The sheet is hail-resistant and comes with a 10-year guarantee

Thanks to proprietary technology, ACRYLITE Heatstop Cool Blue sheet effectively reduces the sun's heat radiation. It supports this effect with a specially chosen color that people associate with pleasant temperatures, thus enhancing their comfort and well-being. The Heatstop Cool Blue formulation gives the sheet an attractive, golden surface sheen. Seen from below, the sheet appears pleasantly cool. The coloring has an iridescent effect and the color impression may change depending on viewing angle and lighting conditions.

NO DRIP Coating

When installed with the water-dispersing NO DRIP surface facing outwards, rain has a natural cleaning effect. The sheeting action reduces streaking and water marks and reduces drying time after a rain.

When installed facing inwards, condensation flows off as a continuous film, preventing uncontrolled dripping.

Technical Data (Typical Values)

Available lengths	8 to 24 ft	(~2.4 to 7.3 m)
Light transmittance	~ 28%	
Total energy transmission g	~ 25%	
U-value	0.49 BTU/hr-ft ² -°F	(2.5 W/m ² K)
Coefficient of linear thermal expansion	0.00004 in/in/°F	(0.09 mm/m °C)
Possible expansion due to heat and moisture	~3/32 in/ft	(6 mm/m)
Max. permanent service temperature without load	160 °F	(70 °C)
Weighted sound reduction index (estimated)	24 dB	
Minimum permissible cold-forming radius	8 ft	(2.4 m)

Fire Behavior

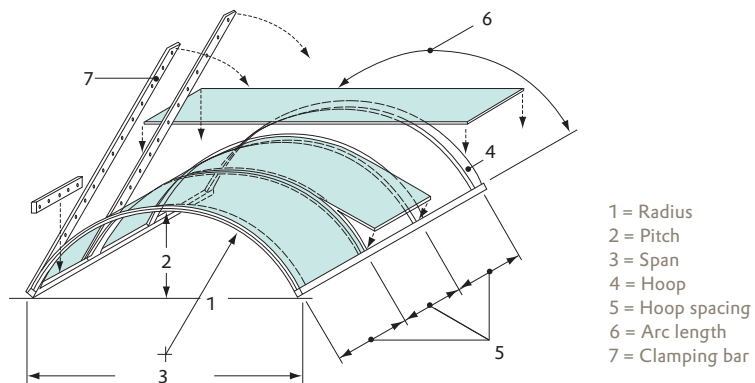
ASTM D-635	C2 or Burning Rate
CAN/ULC S102.2	< 150 Flame Spread Classification
DIN 4102	B2, normally flammable
DIN EN 13501	Euroclass E
DIN 4102	Burns almost smoke-free and is easily extinguished
DIN VDE 0482-267	The smoke gases produced are non-corrosive and non-acutely toxic
Roof surfaces glazed with ACRYLITE acrylic sheet open up by melting in the event of fire and allow smoke and heat to escape	

Guarantee

10-year guarantee for light transmission, hail resistance, rigidity and strength

Loadbearing Capacity

Flat glazing supported on all sides, double-skinned sheet with a width of 980 mm requires no additional cross members for a load of 15 lb/ft², 750 N/m²; at the same loading, 1200 mm wide sheet requires cross members spaced at 16 ft, 4.9 m. Refer to chart below for other loads.



Support Spacing

Load Lb/ft ²	15	20	25	30	35	40	45	50	55	60
Imperial	193"	157"	135"	116"	102"	91"	83"	75"	71"	69"
Metric	4.9	4.0	3.4	2.9	2.6	2.3	2.1	1.9	1.8	1.5

Cold Forming

A high loadbearing capacity can be obtained at tight radii. The minimum cold-forming radius for 16 mm ACRYLITE® high impact double-skinned acrylic sheet is 8 ft, 2.4 m (= 150 x thickness) with a minimum sheet length of 8 ft, 2.4 m.

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