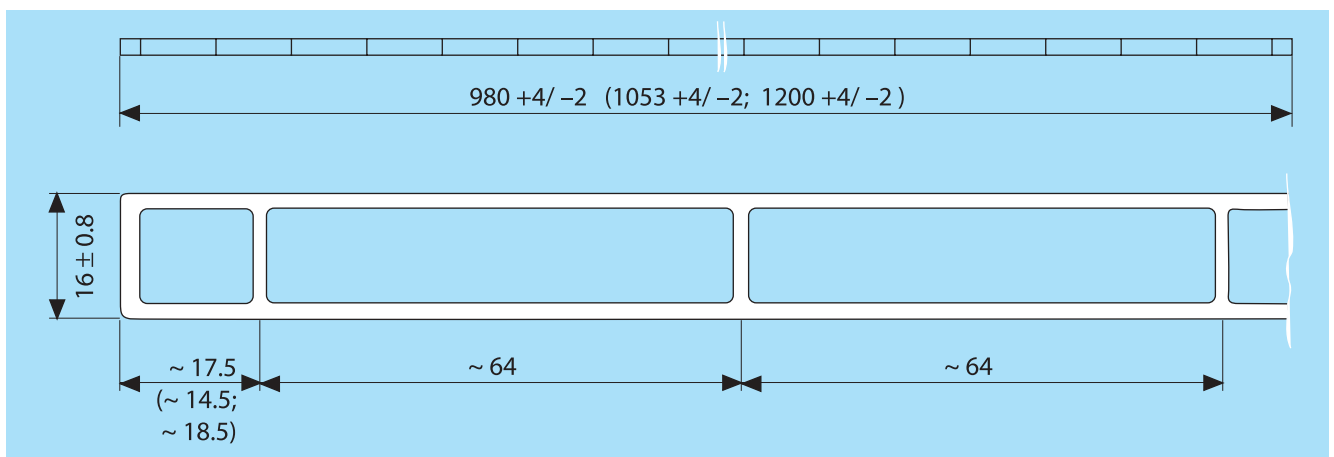


Technical Information

The "Noble" Sheet

Product Description

PLEXIGLAS ALLTOP® SDP 16/980 (/1053, /1200) - 64



Section of PLEXIGLAS ALLTOP® SDP 16 (Dimensions in mm)

Product and benefits

The PLEXIGLAS ALLTOP® SDP 16 double-skin sheet is a light-transmitting, heat-insulating and very weather-resistant sheet made from acrylic (polymethyl methacrylate, PMMA). It was designed with a particularly wide web spacing of **64 mm** for private or factory glazing and greenhouses which require a degree of **transparency** that is **above the normal for double-skin sheets** and which only need a minimum of supporting structure at the same time.

As opposed to multi-skin sheets type NO DROP, which carry the proven water-dispersing coating on one side only, **ALLTOP*** sheets are coated **on both sides and within the cavities**.

This creates additional advantages for the user:

- **Increased light transmission** of about 91 %, compared with 75 to 86 % for conventional double glazing.

- **Absence of fogging**, i.e. the physically unavoidable condensation remains practically invisible, both within and on the sheets.
- **No drop formation**, i.e. no uncontrolled dripping inside the room. Moreover, the outer surface is more effectively cleaned by rain, so that the glazing as a whole appears particularly clean and clear-transparent.
- **Increased energy saving**, because more solar energy is transmitted. Therefore heating costs can be reduced.
- **Further promotion of plant growth** because of the extra amount of light and UV-radiation that passes through the sheets.

The light transmission, rigidity and strength of PLEXIGLAS ALLTOP® SDP 16 are confirmed by a separate 10-year guarantee statement (Ref. No. 111-3).

*) Europ. patent 530 617

Technical Data (Typical values)

Available lengths	2000 to 7000 mm			
Light transmittance τ_{D65} (Clear: UV-transmitting)	Total energy transmission g	Clear 29070: Brown 43470:	~ 91 % ~ 50 %	~ 82 % ~ 63 %
U-value	2.5 W/m ² K (Test report 13-901399/P2/Fi, FMFA Stuttgart)			
Coefficient of expansion α	0.07 mm/m °C			
Possible expansion due to heat and moisture	c. 5 mm/m			
Max. permanent service temperature without load	70 °C			
Weighted sound reduction index	22 dB			
Fire rating	normally flammable B 2 Class 4 M 4	(to DIN 4102) (to BS 476, part 7) (to NF 16 - 101)		

The water-dispersing coating is covered by a protective layer applied during manufacture. This is washed off by rainwater or condensation, thus activating the coating. The protective layer can also be removed with water and a sponge or by using a hose.

No additional cross members are required for snow loads up to 750 N/m² when this sheet with the width of 980 mm is supported all round or even if it is only clamped in suitable glazing bars along the longitudinal edges.

If the skin of a cut-to-size sheet is to protrude more than 15 mm beyond the last web, INFILL SECTION 16 has to be inserted into the cut edge.

Support spacing

Supported or clamped all around, the multi-skin sheet with the width

Load [N/m ²]	PLEXIGLAS ALLTOP® SDP 16 Width as delivered 980 mm	PLEXIGLAS ALLTOP® SDP 16 Width as delivered 1200 mm
	Support spacing [m]	Support spacing [m]
750	∞	5.10
1000	4.80	4.20
1250	3.80	3.50
1500	3.10	2.90
1750	2.60	2.50
2000	2.25	2.20
2250	2.00	2.00
2500	1.80	1.80
2750	1.70	1.70
3000	1.60	1.60

of 980 mm requires for the usual load of 750 N/m² **no additional cross members**. For greater loads spacing is valid as given in the table.

This document describes the special features of the PLEXIGLAS ALLTOP® SDP 16 /980 (/1053, /1200)-64 double-skin sheet. Data on other multi-skin sheets are given in further product description leaflets.

For further information on multi-skin sheets, see our “Guidelines for Installation” (Ref. No. 314-1), “Example of conservatory roof and patio glazing...” (Ref. No. 314-4), “PROStyle guidelines” and similar documents available from the sheet stockist.

The availability of any particular product should be checked with your supplier.



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