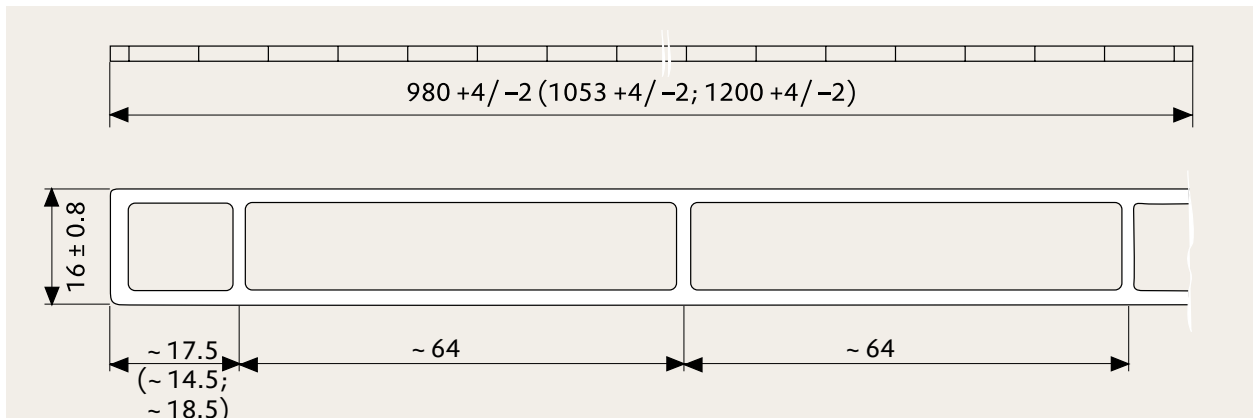


# PLEXIGLAS ALLTOP®

## SDP 16/980 (/1053, /1200) - 64 Product Description

### Technical Information



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 meth-acrylate, 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.

We guarantee that PLEXIGLAS ALLTOP® will show no yellowing and will retain a high level of light transmission for 30 years. For information on further guarantees, go to [www.plexiglas.net](http://www.plexiglas.net).

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.

<sup>\*)</sup> Europ. patent 530 617



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



## Technical Data (Typical values)

Technical Data (Typical values)		2,000 to 7,000 mm		
Light transmittance $\tau_{D65}$ (Clear: UV-transmitting)	Total energy transmission g	Clear 29080:	~ 91 %	~ 82 %
		Brown 43480:	~ 50 %	~ 63 %
U-value		2.5 W/m <sup>2</sup> K (Test report 13-901399/P2/Fi, FMPA Stuttgart)		
Coefficient of expansion $\alpha$		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 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.

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/m<sup>2</sup> 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 of 980 mm requires for the usual load of 750 N/m<sup>2</sup> **no additional cross members**. For greater loads spacing is valid as given in the table.

PLEXIGLAS  
ALLTOP® SDP 16  
Width as delivered  
980 mm

PLEXIGLAS  
ALLTOP® SDP 16  
Width as delivered  
1200 mm

Load [N/m <sup>2</sup> ]	Support spacing [m]	Support spacing [m]
750	∞	5.10
1,000	4.80	4.20
1,250	3.80	3.50
1,500	3.10	2.90
1,750	2.60	2.50
2,000	2.25	2.20
2,250	2.00	2.00
2,500	1.80	1.80
2,750	1.70	1.70
3,000	1.60	1.60

® = registered trademark

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

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