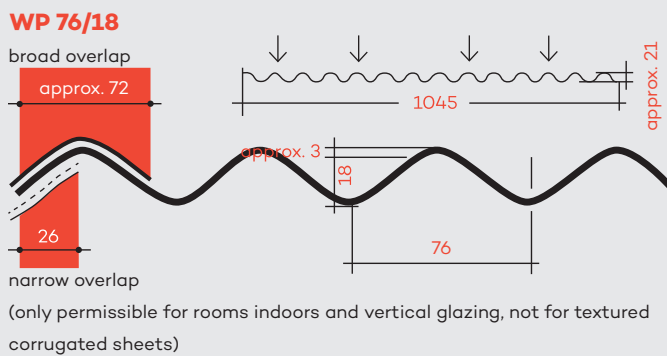
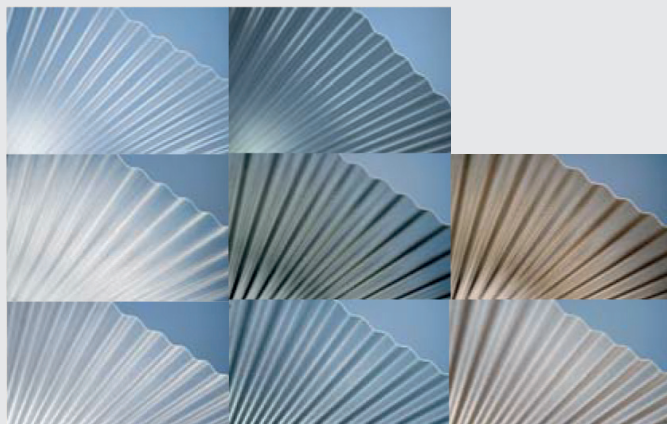


PLEXIGLAS®
Corrugated sheet

PLEXIGLAS® Resist WP 76/18/3



Cross-section of PLEXIGLAS® Resist WP 76/18 (dimensions in mm)



Product

PLEXIGLAS® Resist WP 76/18/3 is a highly light-transmitting and durably weather-resistant corrugated sheet made of impact-modified acrylic (polymethyl-methacrylate, PMMA).

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® Resist WP 76/18/3 possesses the following properties:

- They are extraordinarily UV-resistant and come with a 30-year guarantee against yellowing
- They offer excellent protection against excessive amounts of harmful UV radiation
- They are safe and easy to handle
- They are hail-resistant, with a 10-year guarantee for withstanding hailstones with an energy of 1 joule
- They are available in different colors and with different surface textures.

¹ European Patent 149 182

² This applies to Clear PLEXIGLAS® corrugated sheets according to the guarantee statement.

Applications

Due to these properties PLEXIGLAS® Resist WP 76/18/3 are suitable for the following applications

- Patio roofs
- Carports
- Porches
- Verandas
- Facades
- Windbreaks
- Sight Screens
- Infill panels for balconies, stairs, etc.
- Lampshades, decorative elements, store fixtures, exhibition booths

Processing

For PLEXIGLAS® Resist WP 76/18/3 the following processing guideline is available:

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

Product range

PLEXIGLAS® Resist WP 76/18/3 is available in the following grades and sizes:

- Length: 2,000 to 7,000 mm
- Width: 1045mm
- Colors: Clear, Grey, Brown

For details please refer to the PLEXIGLAS® Sales Handbook.

Stability and Impact Strength

Owing to their special formulation, PLEXIGLAS® Resist WP 76/18/3 sheets are highly impact-resistant and are easy to machine using simple tools. They are also much thicker than many other corrugated sheets and therefore show high inherent rigidity and loadbearing capacity. This means that PLEXIGLAS® Resist corrugated sheets show much less deflection under snow load, making them safer and more attractive.

Surface Textures and Color

Due to their neutral color and surface textures (Smooth, Honeycomb, C-Structure), PLEXIGLAS® Resist WP 76/18/3 sheets lend themselves perfectly to different building styles. In addition to these benefits, the color impression and surface textures enable interesting design and lighting effects to be obtained.

Installation and Care Instructions

On roofs and façades, PLEXIGLAS® Resist WP 76/18/3 are fastened pointwise to an adequately sized supporting structure. The textured side of the sheet is installed facing downwards/inwards. Given correct installation, rain washes off any soiling, but we still recommend that the PLEXIGLAS® Resist corrugated sheets be cleaned once a year according to our care instructions, in order to conserve their full value.

Load-bearing capacity

Support spacing

According to the installation instructions for PLEXIGLAS® corrugated sheets with pointwise fastening, the PLEXIGLAS® Resist WP 76/18/3 corrugated sheets require cross-members at the spacings shown in the adjacent table.

Support spacing [m]

Load [N/m²]	Support Spacing [m]
200	1.70
400	1.20
600	1.00
800	0.80
1000	0.75
1200	0.65

PLEXIGLAS®

Corrugated sheet

Technical data (typical values)

Available length	2,000 to 7,000 mm
Light transmittance τ_{D65}	
Clear 0A001 Smooth	up to 92 %
Clear 0A001 Honeycomb	up to 92 %
Clear 0A001C	up to 92 %
Grey 7RW01 Smooth	approx. 45 %
Grey 7RW01 Honeycomb	approx. 45 %
Grey 7RW01 C	approx. 45 %
Brown 8A001 Honeycomb	approx. 55 %
Brown 8A001 C	approx. 75 %
Coefficient of linear thermal expansion α	0.08 mm/m ² K
Possible expansion due to heat and moisture	approx. 6 mm/m
Max. service temperature without load	70 °C
Area weight	approx. 3.6 kg/m ²

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.

Guarantee

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

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Acrylic Products

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www.plexiglas.de
www.roehm.com

® = registered trademark

PLEXIGLAS is a registered trademark of Röhm GmbH, Darmstadt, Germany.
Certified to DIN EN ISO 9001 (Quality) and DIN EN ISO 14001 (Environment)

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