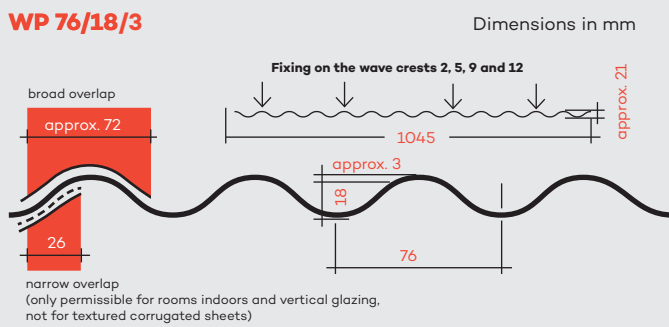
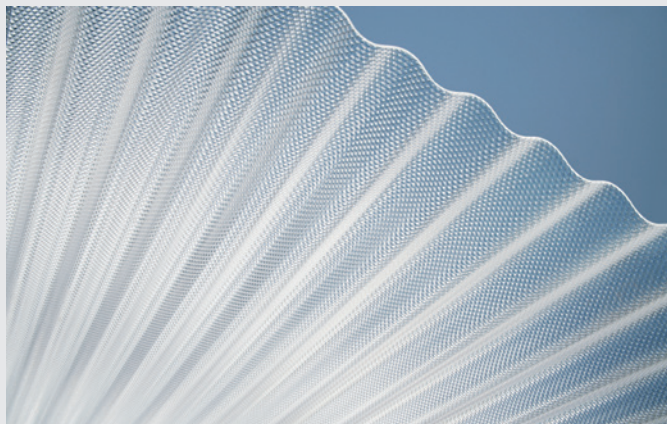


PLEXIGLAS®
Corrugated sheet

PLEXIGLAS® proTerra WP 76/18/3



Cross-section of PLEXIGLAS® proTerra WP 76/18/3



PLEXIGLAS® proTerra WP 76/18/3

Product

PLEXIGLAS® proTerra WP 76/18/3 is a highly light-transmitting and durably weather-resistant corrugated sheet made of impact-modified acrylic (polymethylmethacrylate, PMMA) with increased proportion of recycled PLEXIGLAS® raw materials.

Properties

Besides the general properties of PLEXIGLAS® acrylic sheets like

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

PLEXIGLAS® proTerra WP 76/18/3 possesses the following properties:

- They are extraordinarily UV-resistant and come with a 30-year guarantee against yellowing¹.
- They offer excellent protection against excessive amounts of harmful UV radiation.
- They are safe and easy to handle.
- They are hail-resistant, with a 30-year guarantee for withstanding hailstones with an energy of 1 joule.

¹ This applies to Clear PLEXIGLAS® corrugated sheets according to the guarantee statement.

Applications

Due to these properties PLEXIGLAS® *proTerra* 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

Thank high percentage of recycled raw material, PLEXIGLAS® *proTerra* WP 76/18/3 is particularly suitable for applications with special requirements with regard to sustainability.

Processing

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

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

Stability and Impact Strength

Owing to their special formulation, PLEXIGLAS® *proTerra* 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® *proTerra* 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® *proTerra* WP 76/18/3 sheets lend themselves perfectly to different building styles. In addition to these benefits, the surface textures enable interesting design and lighting effects to be obtained.

Installation and Care Instructions

On roofs and façades, PLEXIGLAS® *proTerra* 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® *proTerra* 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® *proTerra* WP 76/18/3 corrugated sheets require cross-members at the spacings shown in the adjacent table.

Support spacing [m]

Load [N/m ²]	Support Spacing [m]
200	1.70
400	1.20
600	1.00
800	0.80
1000	0.75
1200	0.65

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Technical data (typical values)

Available length	2,000 to 7,000 mm
Light transmittance τ_{D65}	
Clear ORW04 Honeycomb	up to 92 %
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

Guarantee

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

Fire behavior

- PLEXIGLAS® acrylic 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® sheets open up by melting in the event of fire, allowing smoke and heat to escape.

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® = 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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