

PRODUCT PROFILE



THE SCOBATHERM-NANOGEL® DOUBLE-SIDED ELEMENTS IN REINFORCED POLYESTER FILLED WITH NANOGEL AEROGEL

The combination of Scobatherm and Nanogel has recently been developed by the Swiss company Scobalith, in order to fulfill the increasing need for highly insulating translucent roofing and vertical panels.

The Scobatherm-Nanogel elements enable an aesthetic, rational and economic construction.

Main benefits of Nanogel:

- High thermal insulation: 0,018 (W/m.K)
- High light transmission
- Excellent light diffusion
- Low weight: 60-80 kg/m³
- Improved sound insulation
- Aesthetic
- No reflection
- UV stability
- Elimination of glare

Main benefits of the Scobalith elements (50 mm) in reinforced polyester, filled with Nanogel:

- Excellent U-value U: 0,48 W/m².K (test report EMPA n° 427377/1)
- Low weight (12 kg/m²)
- G-value: 25% (test report EMPA n° 427377/2)
- Very good mechanical properties
- Possibility of wide span
- Light fastness and UV stability
- High diffused light transmission
- Temperature resistance: from -40°C to +120°C
- Very good chemical resistance
- Low coefficient of linear thermal expansion (3×10^{-5} m/m °C)
- Translucent colours or natural translucent
- Sound reduction: 25 to 30 dB (test report EMPA n°402279)
- Conform with maximum dimension specifications
- Fire test according to DIN 4102-16 B1 (test report IBS DW 812)

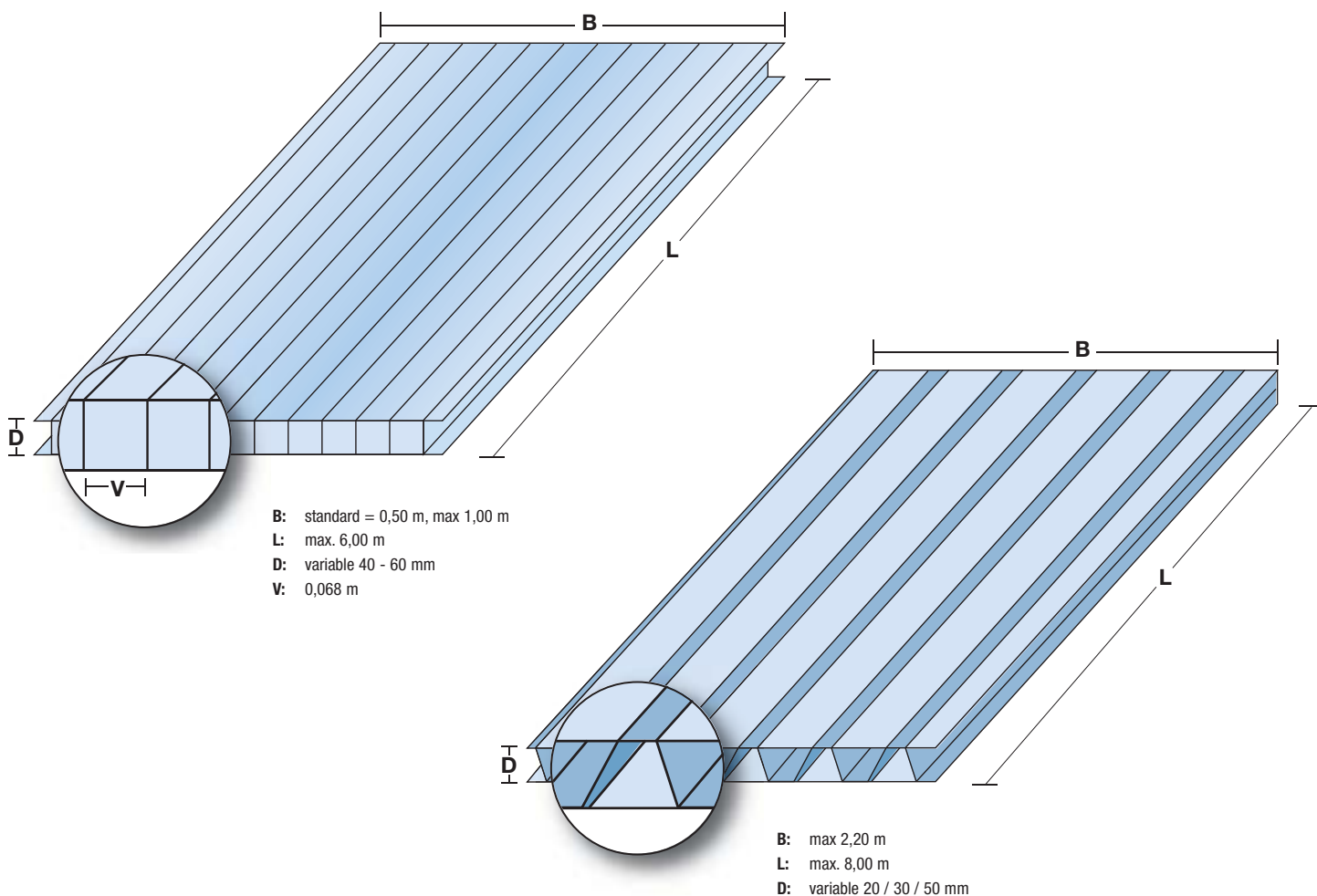
Target applications:

- Industrial glazing
- Public buildings and private housing
- Roof and facades
- Shortly, wherever one wants to benefit from natural day lighting, while keeping privacy.

Technical characteristics

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- Colours: natural, translucent (standard); other RAL colours on request
- Fire resistance: BKZ 4.2 (standard), BKZ 5.2, BKZ 5.3 et B1 (DIN 4102) on request
- Maximum length of the panels: 8,00 m
- Maximum width of the panels: 2,40 m
- Thickness: M20 (20 mm), M30 (30 mm), M50 (50 mm), P25 (25 mm), P40 (40 mm)
- Weight: maximum 12,5 kg/m²



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