

STADECK™ SC552RS85 PANEL

PRODUCT DATASHEET

DESCRIPTION

STADECK™ is a new heavy-duty panel based on long glass fibre reinforced Polypropylene which could serve as scaffolding panel, frame work, sheathing, gardening, fencing etc. The STADECK™ heavy-duty panel is NEN-EN 12811-1 certified for use in scaffolding applications, replacing traditional scaffold panels with a more sustainable and a lighter polymer solution. STADECK™ heavy-duty panels offer a weight of only one third of standard wooden planks, which can be highly beneficial in handling and the total weight of a construction.

STADECK™ panels offer a remarkable strength, long-term weather- and chemical resistance and anti-slip properties.

TYPICAL PROPERTY VALUES

PROPERTY	TEST METHOD	UNITS	VALUE
PHYSICAL			
Weight/m ²	ISO 1183	kg/m ²	8.50
MECHANICAL			
Permanent load 1 hour	EN12810-1&2	6 kN/ m ²	deformation < 1%
Concentrated load 500mm-500mm for 1 hour	EN12810-1&2	3 kN	deformation < 1%
Concentrated load 200mm-200mm for 1 hour	EN12810-1&2	1 kN	deformation < 1%
Partial load 1 hour	EN12810-1&2	10 kN/ m ²	deformation < 25mm
Safety Margin 1 hour	EN12810-1&2	30 kN/ m ²	No visual effects
Horizontal load 300mm-300mm Side board 1 hour	EN12810-1&2	0.15 kN	No visual effects
Horizontal load 300mm-300mm Fence board 1 hour	EN12810-1&2	0.30 kN	No visual effects
Creep behaviour 500mm-500mm 1 hour	EN12810-1&2	3kN	No visual effects
<i>NOTE: All loads are tested on a span of 1300mm</i>			
IMPACT			
Charpy impact, notched 23°C, 3.0 mm	ISO 179/1eA	kJ/m ²	75
Izod impact, unnotched 23°C, 3.0 mm	ISO 180/1U	kJ/m ²	NB
Izod impact, notched 23°C, 3.0 mm	ISO 180/1A	kJ/m ²	70
THERMAL			
Heat deflection temperature at 1.80 MPa (HDT/A)	ISO 75/A	°C	156
Coefficient of linear thermal expansion -30 °C to 30 °C	ASTM D696	µm/mK	51
23 °C to 80 °C	ASTM D696	µm/mK	41
Durability : UV aging 3000 hours 60-60mm T=65± 2°C, RH= 50±5% and dry/wet cycle of 102/18min	EN-ISO 4892-2 / EN-ISO 6603-2	Xenon test	Pass
FIRE RATINGS			
Building & Construction			
Europe		-	
Flammability class	EN 11925	-	E,d0
Horizontal burn (measured on injection molded parts)	UL94 HB	-	HB
Electrical			
Glow Wire Flammability Index (measured on injection molded parts)	IEC-60695-2-12	°C	Pass 850°C (2-3mm)

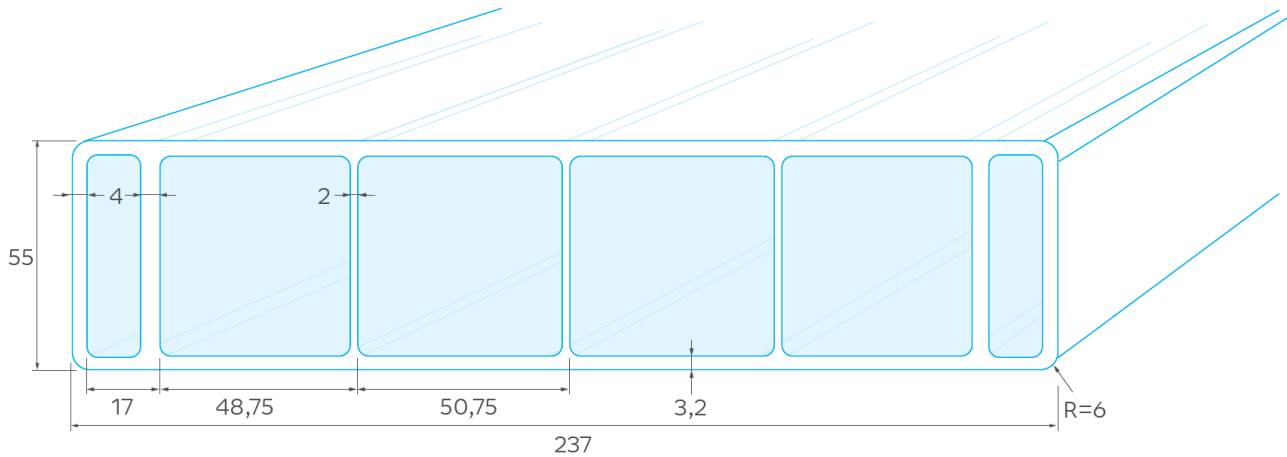
- ◆ These property values have been derived from resin data for the material used to produce this sheet product. Variation within normal tolerances are possible for various colors. These typical values are not intended for specification purposes. If minimum certifiable properties are required, please contact your local SABIC, Functional Forms representative. All values are measured at least after 48 hours storage at 23°C/50% relative humidity. All properties are measured on injection-molded samples. All samples are prepared according ISO 294.

PRODUCT AVAILABILITY

STADECK™ SC552RS85 Panel

Gauge : 55mm
 Standard Sizes : Width: 237mm,
 Available lengths: 3000 and 6000, other lengths on request
 Standard Color : Translucent Whitish

DRAWING STADECK™ SC552RS85 PANEL



Possible discoloring of fresh STADECK panels:

It might be the case that new STADECK panels show some discoloring at delivery; this discoloring is likely to disappear under the influence of direct sunlight. It is the general expectation that this discoloring does not negatively affect the mechanical properties of the STADECK panels.

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