



Straight ribbed sheet **R601** produced with polyester resin reinforced with fibreglass, in conformity to the following characteristics and technical norms:

Reinforcement:	Fibreglass												
% fibreglass	≥ 25%												
Weight:	1,350 ; 1,800; 2,100; 2,950 kg/m ² (tolerance ± 5%)												
Colour:	Clear (other colors on request)												
Superficial protection:	n.a.												
Density:	1,4 g/cm ³												
Exercise temperature	-40 °C ÷ +120 °C												
Self-ignition temperature:	ab. 400 °C												
Reaction to fire:	The standard GRP (Glassfibre Reinforced Polyester) laminates are not inflammable, but, if exposed to a flame they burn, they do not drip.												
Thermal conductivity (λ):	0,22 W/mK (ASTM C177)												
Heat transmission (U):	220 W/m ² K (1 mm thickness)												
Hardness Barcol:	55 ÷ 60 (ASTM D2583)												
Thermal linear expansion:	2,7 x 10 ⁻⁵ °C ⁻¹ (ASTM D696)												
Bending elasticity:	6-7 GPa (ASTM D790)												
Overload evenly distributed:	See loading chart												
Resistance to chemical agents:	<div>GRP laminates are not altered by the action of the following acids in the listed solutions depending on their concentration and on a testing temperature ranging from 30 ° to 50 ° C.</div> <table><tr><td>Acetic acid</td><td>⇒ 10%</td><td>Sulphuric acid</td><td>⇒ 30%</td></tr><tr><td>Chlorohydric acid</td><td>⇒ 35%</td><td>Ethyl alcohol</td><td>⇒ 95%</td></tr><tr><td>Nitric acid</td><td>⇒ 10%</td><td>Benzol</td><td>⇒ 30%</td></tr></table>	Acetic acid	⇒ 10%	Sulphuric acid	⇒ 30%	Chlorohydric acid	⇒ 35%	Ethyl alcohol	⇒ 95%	Nitric acid	⇒ 10%	Benzol	⇒ 30%
Acetic acid	⇒ 10%	Sulphuric acid	⇒ 30%										
Chlorohydric acid	⇒ 35%	Ethyl alcohol	⇒ 95%										
Nitric acid	⇒ 10%	Benzol	⇒ 30%										

The choice of building material must fulfill the requirements of the laws in force. The GRP roofing laminates are **not walkable**. The installation and maintenance must be done respecting the safety rules.