



Straight ribbed sheet **R612** produced with polyester resin reinforced with fibreglass, in conformity to the following characteristics and technical norms:

<i>Reinforcement:</i>	Fibreglass												
<i>% fibreglass</i>	≥ 25%												
<i>Weight:</i>	1,100 ; 1,500; 1,750; 2,450 kg/m ² (tolerance ± 5%)												
<i>Colour:</i>	Clear (other colors on request)												
<i>Superficial protection:</i>	n.a.												
<i>Density:</i>	1,4 g/cm ³												
<i>Exercise temperature</i>	-40 °C ÷ +120 °C												
<i>Self-ignition temperature:</i>	ab. 400 °C												
<i>Reaction to fire:</i>	The standard GRP (Glassfibre Reinforced Polyester) laminates are not inflammable, but, if exposed to a flame they burn, they do not drip.												
<i>Thermal conductivity (λ):</i>	0,22 W/mK (ASTM C177)												
<i>Heat transmission (U):</i>	220 W/m ² K (1 mm thickness)												
<i>Hardness Barcol:</i>	55 ÷ 60 (ASTM D2583)												
<i>Thermal linear expansion:</i>	2,7 x 10 ⁻⁵ °C ⁻¹ (ASTM D696)												
<i>Bending elasticity:</i>	6-7 GPa (ASTM D790)												
<i>Overload evenly distributed:</i>	See loading chart												
<i>Resistance to chemical agents:</i>	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. <table data-bbox="558 1612 1372 1736"> <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%
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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.