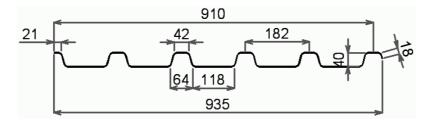


Roofings and insulating systems for the building industry

TECHNICAL DATA SHEET



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 ℃ ÷ +120 ℃
Self-ignition temperature:	ab. 400 ℃
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 ℃ ⁻¹ (ASTM D696)
Bending elasticity:	6-7 GPa (ASTM D790)
Overload evenly distributed:	See loading chart
Resistance to chemical agents:	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.
	Acetic acid \Rightarrow 10%Sulphuric acid \Rightarrow 30%
	Chlorohydric acid \Rightarrow 35%Ethyl alcohol \Rightarrow 95%
	Nitric acid \Rightarrow 10%Benzol \Rightarrow 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.

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Brianza Plastica S.p.A.

A Company with a Quality Management System UNI EN ISO 9001:2008 certified (certif. Nº 106 SQP-IIP) Via Rivera, 50, 20841 Carate Brianza (MB) • Tel. 0362.91601 • Fax 0362. 990457

http//: www.brianzaplastica.it • e-mail: info@brianzaplastica.it Co. Cap. Euro 3,000,000 fully paid-up • MB Company Registration N° 3960 REA/MB Registration N° 602163 • Tax N° 00865040158 • VAT N° IT00698250966