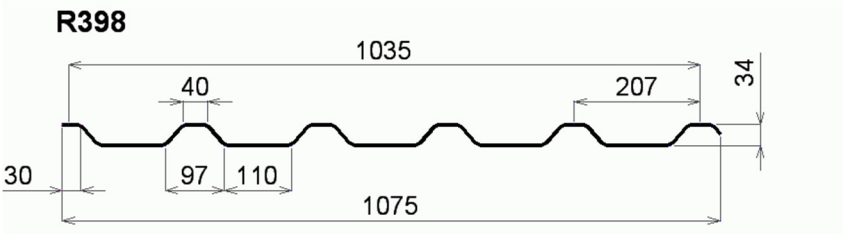
TECHNICAL DATA SHEET



Straight ribbed sheet profile **R398** produced with polyester resin reinforced with fibreglass, in conformity to the following characteristics and technical norms:

Reinforcement: *% fibreglass*	Fibreglass ≥ 25% (internal method)
Weight:	*On request* kg/m^2 (tolerance ± 5%) (internal method)
Density:	1,4 g/cm^3 (internal method)
Colour:	Clear (other colour on request)
Superficial protection available	Protection of the outer surface, made with a transparent film in coextruded polyester type Melinex ®301 or type Melinex ®389 bonded to the GRP surface during hot lamination That protection preserve the esthetic and functional characteristics of the laminate, avoiding superficial abrasion/erosion, yellowness and lost of light transmission.
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; if exposed to a flame they burn, they do not drip. Euroclass: F
Thermal conductivity (λ):	0,22 W/mK (internal method)
Heat transmission (U):	220 W/m^{2}K (1 mm thickness)
Hardness Barcol:	55 ÷ 60 (UNI EN 59)
Thermal linear expansion:	3 x 10^{-5} °C^{-1} (UNI EN 1013)
Bending elasticity:	5,5 ÷ 6,5 GPa (UNI EN ISO 527^{-4})
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 ⇒ 5% — Acetic acid ⇒ 5% Chlorohydric acid ⇒ 10% — Chlorohydric acid ⇒ 10% Nitric acid ⇒ 10% — Nitric acid ⇒ 10%

Product in accordance to EU regulation 305/2011, harmonized standard EN 1013.

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.*

The information contained in this technical data sheet is based on present information and experiences and is correct and precise, as far as we know. The information has no meaning of quality guarantee as the employment conditions are not under our direct control.

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