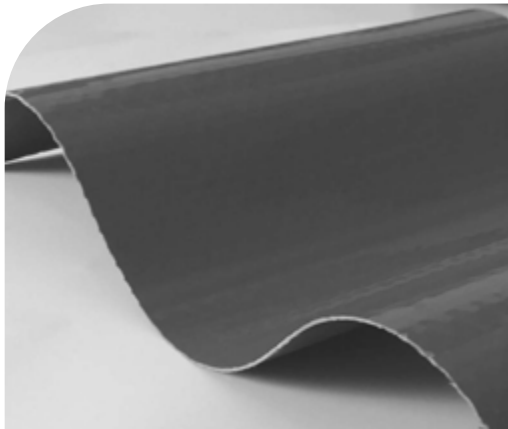




**HIGH RESISTANCE AND
LONG USEFUL LIFE
IN A BLINK OF AN EYE**





FOR ROOFS AND COVERS IN SALINE AND CORROSIVE ENVIRONMENTS

RelonPlus® is a profiled opaque plastic laminate, manufactured from polyester resin reinforced with fiberglass mesh and protected on both faces with a high-resistance gelcoat that gives it greater protection against external agents.

The **RelonPlus®** formulation gives the panel high resistance against atmospheric or chemical agents and against water absorption.

RelonPlus® has been designed especially to resist saline and corrosive environments and adapts to any type of structure.

Applications

- Agricultural and pig farms
- Wharfs and quays
- Sport center
- Suitable for new structures as for rehabilitation
- Any construction that requires a lightweight, opaque structure resistant to saline or corrosive environments

Main advantages

- Resistant to corrosive and saline environments
- Impact resistant
- Resistant to temperature changes
- Long Useful life
- Non-toxic
- Absorption of noise
- High mechanical resistance, but with lightness and ease of handling



Characteristics

General properties

THICKNESS RANGE
2.0 - 2.5 mm

[*] consult range of thicknesses in **Stabilit Europa**.

Technical properties for RelonPlus® in thickness 2.0 mm

PROPERTIES	RULE	VALUE
Thickness	EN 1013	2.0 mm
Coefficient linear thermal expansion	EN 1013	$3 \times 10^{-5} \text{ K}^{-1}$ (0,03 mm/m°C)
Permeability to water vapor	EN 1013	$1,5 \times 10^{-5} \text{ mg/m h Pa}$
Flexural strength	EN 14125	175 MPa
Tensile strength	EN ISO 527-4	130 MPa
Barcol hardness	EN 59	40 - 45
Reaction to fire	EN 13501-1	E
Reaction to external fire	EN 13501-5	B _{roof}



Installation



Distance between purlins

The maximum separation between purlins must be determined for each profile, depending on the load to be supported and the maximum deformation admissible according to the application (consult the Stabilit Europa technical services in each case). The recommended maximum distance between purlins will be 1.50 m.



Long length sheets

In longitudinal sheets superior to 6 m with valley fixings and self-tapping screws, extreme care must be taken to allow the free expansion of the sheet (diameter of the drill, about 2 mm more than that of the screw shank).



Flight length of sheet

The flight length in the eaves will not be greater than 200 mm, reinforcing in this case its fixation on the lower purlin.



Overlaps

The lateral overlaps have to be opposite to the direction of the wind and rain.



Security

RelonPlus® sheets are NOT passable.



Permissible load

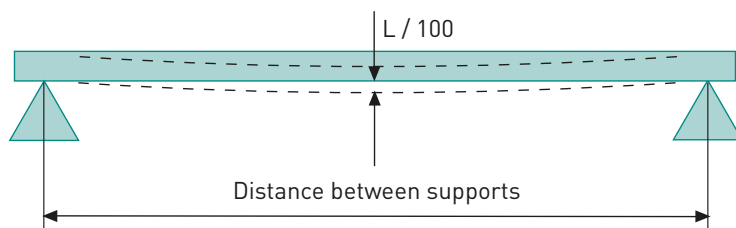


The data refers to the technical capacity of maximum permissible load uniformly distributed over the surface of the sheet to generate a deformation or arrow equal to the distance between supports divided by 100 ($L/100$).

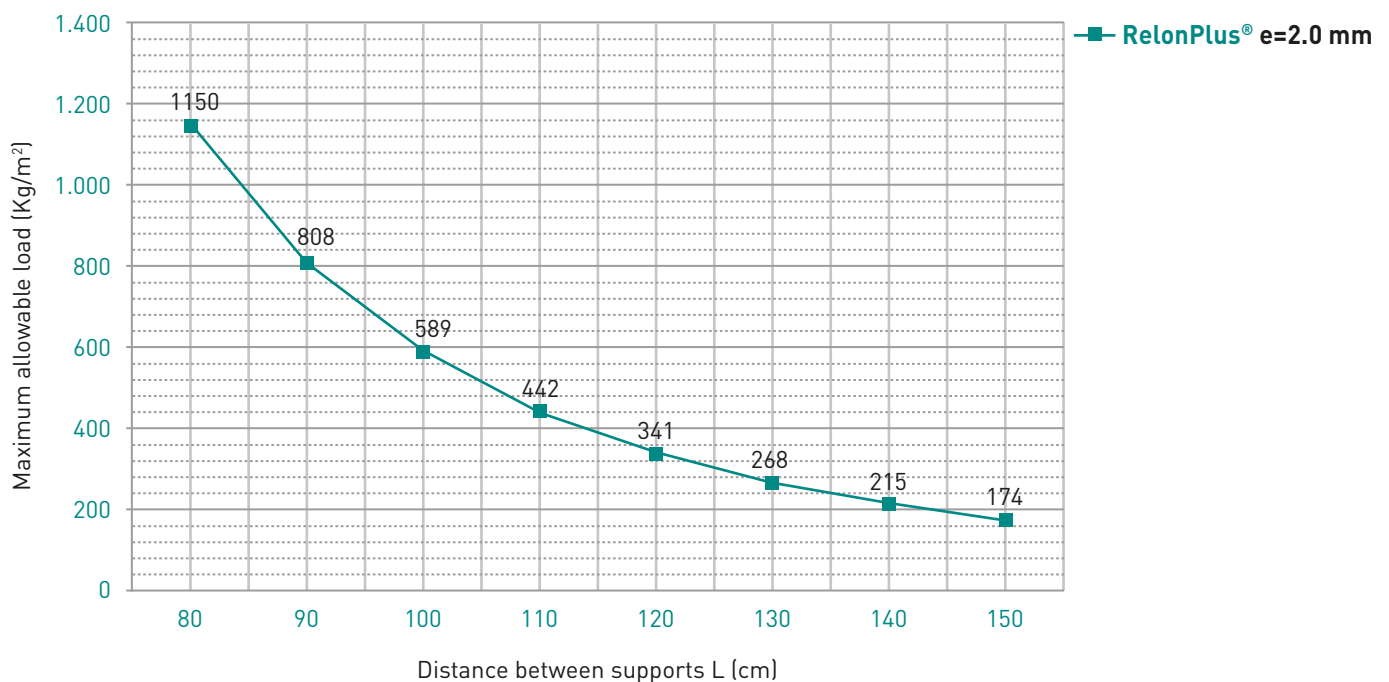
It does not represent the maximum load that the sheet can bear to reach the breakage, but the load that leads to a deformation of $L/100$.

The data does not refer to point loads at any specific point of the sheet, but to load uniformly distributed.

The calculations have been obtained based on the tests defined in the standard XPP38-504:2000 and fixing the plate in the outer frets and in the two central frets.



Maximum allowable load for arrow = $L/100$




Consult the loading diagram of a specific profile and thickness to **Stabilit Europa**.

Chemical resistance

PRODUCT	CONCENTRATION (%)	TEMPERATURE (°C)
Sodium Acetate	100	40
Benzoic Acid	100	40
Boric Acid	100	40
Citric Acid	≤ 50	40
Ácido Esteárico	100	40
Phosphoric Acid	≤ 80	40
Lactic Acid	≤ 10	40
Seawater (3 ≤ pH ≤ 8)	-	40
Starch (3 ≤ pH ≤ 8)	-	40
Sodium Bicarbonate	100	40
Sodium Bromate	100	40
Sodium Bromide	100	40
Sodium Chlorate	100	40
Ammonium Chloride (pH>9)	100	40
Barium Chloride	100	40
Calcium Chloride	100	40
Magnesium Chloride	100	40
Potassium Chloride	100	40
Sodium Chloride	100	40

PRODUCT	CONCENTRATION (%)	TEMPERATURE (°C)
Ethanol	≤ 20	40
Ethylene Glycol	100	40
Potassium Fluoride	100	40
Sodium Fluoride	100	40
Fosfato de Amonio	100	40
Fuel oil (non-aromatic)	100	40
Gasoil (non-aromatic)	100	40
Isobutanol	≤ 20	40
Naphtha (aliphatic)	100	40
Calcium Nitrate	100	40
Magnesium Nitrate	100	40
Octanes	100	40
Ammonium Sulphate	100	40
Calcium Sulphate	100	40
Copper Sulphate	100	40
Iron Sulphate	100	40
Sodium Sulphate	100	40
Sodium Sulfite	100	40
Triethylene Glycol	100	40

Standard colors range

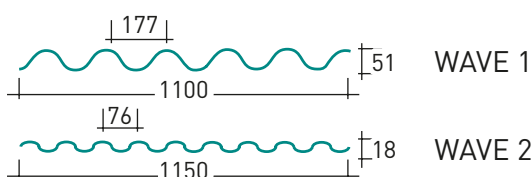
 Gray RAL 7016

 Red RAL 3016

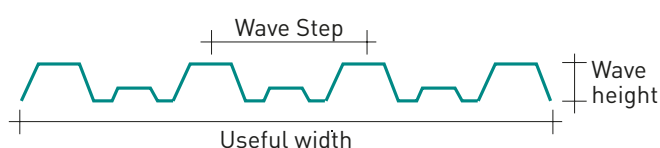
Other colors: consult **Stabilit Europa**.

Profiles range

STANDARD PROFILES



TRAPEZOIDAL PROFILES



* Different profiles adaptable to any type of metal sheet or fibrecement.

Other profiles: consult **Stabilit Europa**.

Certifications

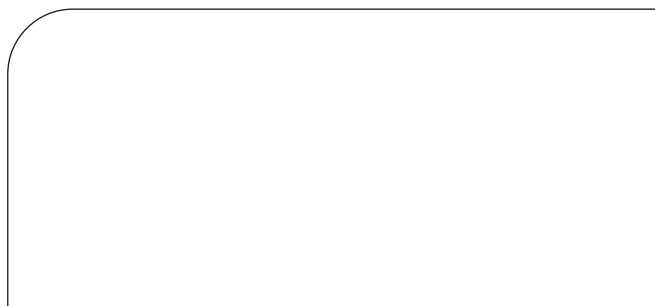
Stabilit Europa is distinguished by having the Quality Management System certification according to the ISO 9001 standard in all its processes.

Certified reaction to fire in **RelonPlus®** product according to EN 13501-1. Classification obtained: E.

Certified reaction to external fire in **RelonPlus®** product according to EN 13501-5.

Classification obtained: B_{roof}.

Distributor



The information included in the catalog is purely indicative, based on the experience and tests carried out by the company; without this supposes any type of responsibility on his different applications, since **Stabilit Europa** does not have any control on his final use.