



## TECHNICAL DATA SHEET

### Relon 1.0 mm

Translucent sheet

Code: TDS-PS-W2

Inspected: 00

Valid from: 12/03/18

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### Product Description

Relon® sheets are made of polyester resin reinforced with fiberglass in the form of woven roving, in order to obtain the maximum performance in the mechanical properties.

Relon® sheets are protected with a gel coat layer on the upper side that stabilizes the light and provides excellent protection in outdoor applications.

### Application

- Metal or panel roofing
- Vertical building components
- Lighting strips

### Advantages

- High mechanical strength
- Easy to install
- Not subject to extreme dilatation
- High chemical resistance

### Technical Properties

Properties	Standard	Unit
Thickness	EN 1013	1.0 mm
Light Transmission	ISO 13468-1	Transparent: 76 %
Linear Thermal Expansion	EN 1013	$3 \times 10^{-5}$ K <sup>-1</sup> (0,03 mm/m°C)
Water Vapour Permeability	EN 1013	$1,5 \times 10^{-5}$ mg/m h Pa
Flexural Strength	EN 14125	190 MPa
Tensile Strength	EN ISO 527-4	150 MPa
Barcol Hardness	EN 59	40 - 45
Reaction to fire	EN 13501-1	E

### Specifications and Certifications:

- Translucent profiled sheets Relon® meet the EN 1013 product standard (CE Marking).
- Certificate Reaction to fire according to EN 13501-1. Classification obtained: E

## Installation Recommendations



### Separation between purlins

The maximum separation between purlins should be determined for each profile, depending on the load to be borne and on the maximum deformation allowable for the application in question (Stabilit Europa recommends a maximum distance between purlins of 1.5 m).



### Extra-long sheets

For sheets exceeding 6 min length, with fastenings in the recesses and self threading screws, take extra care to ensure that the sheet can dilate freely (the diameter of the screw hole should be around 2 mm bigger than the shaft of the screw).



### Length of the sheeting protection

Projections should not exceed 200 mm and in this case the fastenings to the lower purlin should be reinforced.



### Overlaps

Longitudinal overlaps must be against the direction of the wind and rain.



### Safety

Do not walk directly on the sheets. **Sheets are NOT walkable.**