

### Product Description

Relon® FR sheets have excellent flame retardant properties that prevent the spread of fire. They are made of polyester resin reinforced with fiberglass in the form of woven roving, in order to achieve maximum performance in mechanical properties. The laminates are protected by a gel coat treatment on the upper side which stabilizes the light and gives them excellent protection in exterior applications.

### Sector

Industrial / Commercial  
Sports / Infrastructure  
Agricultural (poultry and pig farms)

### Application

Translucent Longitudinal Discontinuous Roof: Ridge-eaves  
Translucent Transversal Discontinuous Roof  
Translucent Roof with flat loading Structure  
Translucent Vertical Facade: Continuous and Discontinuous  
Translucent Roof Sport Structures / Airports, others

### Advantages

Fire retardant Properties  
Easy and quick to install  
Not subject to extreme dilatation  
High Mechanical Resistance  
High Chemical Resistance  
Good Light Transmission  
Resistance to gases generated in farms by animal waste

### Technical Properties

Properties	Standard	Unit
Thickness	EN 1013	1.0 mm
Light Transmission	ISO 13468-1	Opal White: 38 %
Linear Thermal Expansion	EN 1013	$3 \times 10^{-5} \text{ K}^{-1}$ (0,03 mm/m°C)
Water Vapour Permeability	EN 1013	$1,5 \times 10^{-5} \text{ mg/m h Pa}$
Flexural Strength	EN 14125	110 MPa
Tensile Strength	EN ISO 527-4	88 MPa
Reaction to Fire	EN 13501-1	B s1 do
External Reaction to Fire	EN 13501-5	B roof

### Specifications and Certifications:

- Certificate Reaction to fire according to EN 13501-1. Classification obtained: Bs1do
- Certificate External Reaction to fire according to EN 13501-5. Classification obtained: B roof (t1)

### 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).



#### 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**