



## TECHNICAL DATA SHEET

### Polylit FR 1.0 mm

Fire Retardant Translucent sheet

Code: TDS-X-02

Inspected: 01

Valid from: 07/07/21

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### Product Description

Polylit® FR polyester sheets contain excellent fire-retardant properties that prevent the spread of fire. They are designed to offer solutions for translucent roofs and walls suitable for illuminating interior areas, whether in longitudinal (between ridge and eaves) or continuous transversal roofs, made on blind roofs of metal sheet or insulating panel.

Polylit FR sheets are produced in continuous and reinforced with fiberglass. They incorporate a gel coat coating that provides protection in outdoor 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: 43%
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	95 MPa
Tensile Strength	EN ISO 527-4	45 MPa
Reaction to Fire	EN 13501-1	Bs1d0
External Reaction to Fire	EN 13501-5	B roof

### Specifications and Certifications:

- Certificate Reaction to fire according to EN 13501-1. Classification obtained: Bs1d0
- 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**

The information listed in this technical sheet is based on experience and testing by the company, without this implying any responsibility regarding different applications, since Stabilit Europa no has any control over end use.



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