



# PROTHERM LIGHT® FRP

Composite board for the passive fire protection of FRP structural reinforcements and organic resin



**PROTHERM**light®  
Fireproofing Division

APPLICATION MANUAL . PROTHERM LIGHT® FRP

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## APPLICATION MANUAL . PROTHERM LIGHT® FRP

The realization of a manual is a complex operation that needs of several controls on the text, images and sketches that compose it. Experience suggests that it is impossible to publish a manual totally exempt from errors. We will be therefore thankful to the users of the present manual if, finding some mistakes, wanted to signal them to us.

All the instructions contained in this manual are approximated and not binding in a general sense. It should also be specified that our instructions are not irrespective of all due precautions and good practice during installation referable to so-called “workmanlike” execution, which must always and under any circumstances be adopted in addition to following the detailed instructions given in our technical data sheets. All the indications provided in this manual of use are purely approximate and not binding for legal purpose. The data listed has been gathered from laboratory tests and it hence follows that in practical applications on building sites the final characteristics of the products may be subject to substantial variations depending on the meteorological conditions and the installation. The user must always check suitability of the product for its specific use, undertaking all liability implicit in and deriving from use of the product, as well as comply with all methods and instructions for use generally referable to “workmanlike” execution. Edilteco S.p.A. reserves the right to change the contents of this manual of use on its final judgements. Publish and, totally or partially, spread the contents of this Manual without previous license of Edilteco S.p.A., is forbidden.

# PROTHERM LIGHT® FRP

**PROTHERM light® range** provides to fireproofing professionals effective tools for the fire protection of buildings. Now, it is also available the new technology for the protection of structural reinforcements FRP.



*New technology*

**Composite board**  
for the passive fire protection of structural reinforcements FRP and organic resin.

Protherm Light® FRP is a composite board (total thickness 40 mm) with smooth edge 360 x 700 mm composed of:

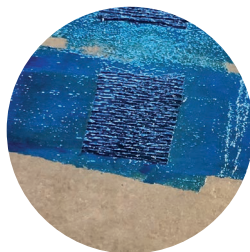
**NANOTECHNOLOGICAL BOARD**

**+**

**LIGHTWEIGHT THERMAL INSULATING PLASTER**



*Nanotechnological board*



*Structural reinforcement FRP*



*Lightweight thermal insulating plaster*

# SUITABLE SUPPORTS

Protherm Light® FRP has been developed and tested in approved laboratories, according to EN 1363-1. The application surfaces must be conformed to the assessment reports with regard to structural reinforcements.

## SUPPORT PREPARATION

The perfect support cleaning on which apply Protherm Light® FRP is a very important aspect, before proceeding to the application of the structural reinforcement and of the board.

The receiving surface must be free of loose parts and any other element that could prevent the adhesion of the panel. The surface must be free of dust, residual oil, additives, loose parts, old plasters and/or paints.

*For more detailed information: contact Edilteco Technical Department.*

In accordance with the indications reported in this manual, it is fully responsibility of the user to confirm the suitability of the application surface, in order to guarantee the correct application of Protherm Light® FRP.

## APPLICATION ON CONCRETE, REINFORCED CONCRETE OR MASONRY BY GLUING AND FIXING

Clean the remaining surface to be protected; in case of previous plasters, it is recommended a high-pressure washing or an energetic manual/mechanical brushing, followed by a deep cleaning of the support, in order to completely eliminate the intermediate layers from loose parts.



CONCRETE SLAB WITH REINFORCEMENT



CONCRETE BEAM WITH REINFORCEMENT

# APPLICATION / LAYING

## BY GLUING AND FIXING



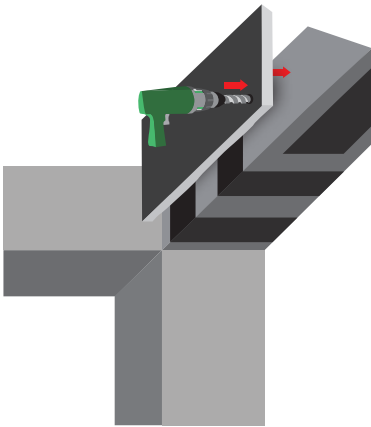
### BOARD CUTTING

Cut the board using a standard site equipment (circular saws, manual saws, cutter, etc...). The cut can be done on both sides of the board, according to the dimensions of the surface to be protected.



### GLUE LAYING

Lay on the intrados of the board a proper fiber-reinforced glue, Edilteco Ecap® ADP, by a toothed spatula (5 mm); consumption 4,0 kg/m<sup>2</sup> (in accordance with the surface planarity).



### DOWELS INSERTING AND BOARD FIXING

Proceed immediately to dowel inserting, pressing the board in order to ease the adhesion; then, apply the expanding steel dowels  $\varnothing$  10 mm and washer  $\varnothing$  40 mm. Dowel inserting must be  $\leq$  30 cm horizontally and vertically, **IMPORTANT: do NOT perform this operation on structural reinforcement.**

After coring for the elimination of the thermal insulating plaster thickness, the dowel head can be flush or in contact with the nanotechnological board. In this way the dowel can be covered by the thermal insulating plaster Protherm Light®, guaranteeing surface planarity and plaster homogeneity.

*If required, the thermal insulating plaster Protherm Light® can be applied both on the boards junctions and on the exposed side of the board.*

### POSSIBLE SCRAP

An accurate design of the cutting allows to reduce and avoid scraps. It is also possible to apply boards partitions with dimensions 10 x 10 cm, setting the dowels inserting.

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