EDILTECO® group

PROTHERM LIGHT® FRP

Composite panel for passive fire protection
of structural FRP reinforcements



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 "workman-like" 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, the new technology for the protection of structural FRP reinforcements is also available.**



New Technology

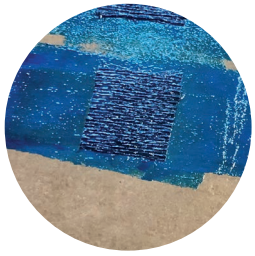
**Composite panel
for passive fire protection
of structural FRP reinforcements.**

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

NANOTECHNOLOGICAL PANEL
+
LIGHTWEIGHT THERMAL INSULATING PLASTER



Nanotechnological panel



Structural reinforcement FRP



Lightweight thermal insulating plaster

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SUITABLE SUPPORTS

Protherm Light® FRP has been developed and tested in recognised laboratories according to EN 1363-1.
The installation surfaces on which the product is to be applied must comply with what is indicated in the assessments relating to structural reinforcements.

SUPPORT PREPARATION

The proper cleaning of the substrate on which Protherm Light® FRP is to be applied is essential both for the installation of the structural reinforcement and for the subsequent application of the panel.
The installation surface must be free from contaminants, residues or particles that may prevent direct contact or compromise adhesion between the adhesive and the substrate.
In particular, the substrate must be free from dust, oil and grease residues, traces of release agent, friable or inconsistent materials, old plaster that is not perfectly bonded or intact, and previous paint cycles.

In case of doubtful conditions or conditions not expressly covered, contact the 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

Thoroughly clean the exposed substrate to be protected. In the case of previously plastered surfaces, pressure washing or vigorous manual or mechanical brushing is recommended. Complete the operation by thoroughly cleaning the substrate to remove all traces of loose or friable material.



CONCRETE SLAB WITH REINFORCEMENT



CONCRETE BEAM WITH REINFORCEMENT

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APPLICATION / LAYING
BY GLUING AND FIXING



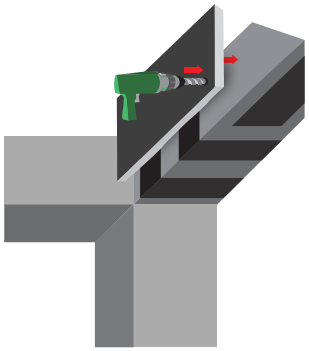
PANEL CUTTING

Cut the panel using common construction site tools, such as angle grinder, circular saw, hand saw, electric jigsaw or cutter. The cut can be made either along the longer side or along the shorter side of the panel, depending on the dimensions of the surface to be protected.



ADHESIVE APPLICATION

Apply the Edilteco Ecap® ADP fibre-reinforced cementitious adhesive to the underside of the panel, using a 5 mm notched trowel. The indicative consumption is equal to 4,0 kg/m^2 and may vary depending on the flatness of the support.



ANCHORING AND FIXING OF THE PANEL

Proceed immediately with anchoring, keeping the panel under pressure to help the adhesive set. Use suitable ø 10 mm steel expansion anchors and a ø 40 mm washer. The anchors must be positioned with a maximum spacing of 30 cm, both horizontally and vertically.

IMPORTANT: do not carry out anchoring in correspondence with the structural reinforcement.

The head of the anchor may be left visible, positioned flush with the plastered surface or brought into contact with the nanotechnology panel, after coring the thermal insulating plaster layer. In this latter case, the anchor may subsequently be covered with Protherm Light® thermal insulating plaster, in order to ensure the flatness of the surface and the uniformity of the plaster layer.

If necessary, Protherm Light® may be applied both at the joints between the different portions of panel and on the surfaces left visible after cutting.

REPAIR KIT

Any damage to the thermal insulating plaster layer, caused during cutting, handling or installation operations, may be repaired using the dedicated repair kit, consisting of the Edilkronos Universal adhesion promoter and Protherm Light® plaster. Remove all damaged or not perfectly bonded portions of plaster and residual dust. Apply Edilkronos Universal by brush to the affected surface and, subsequently, restore the plaster layer by applying Protherm Light®.

POSSIBLE OFFCUTS

Careful planning of the cuts makes it possible to reduce the production of offcuts to a minimum. It is also possible to use portions of panel with minimum dimensions of 10 x 10 cm, provided that adequate anchoring is ensured.

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