

**Termok8® FONOSTOP EPS**

09/2019

The ideal solution for simply and effectively complying with the regulations on energy efficiency and noise pollution. The system includes an insulation panel in EPS with graphite of low dynamic rigidity, featuring a special grooved pattern, designed to give the optimal balance between thermal and acoustic insulation properties combined with maximum ease of installation, together with excellent fire resistance. This solution also features high impact resistance (20 Joule).

**SYSTEM CERTIFIED FOR ACOUSTIC INSULATION**

**TERMOK8® FONOSTOP EPS COMPONENTS****ADHESIVE**

Klebocem Grosso

**INSULATION**Fonostop EPS G -  $\lambda$  0,031 W/mK**SKIM COAT**

Klebocem Grosso

**REINFORCEMENT**

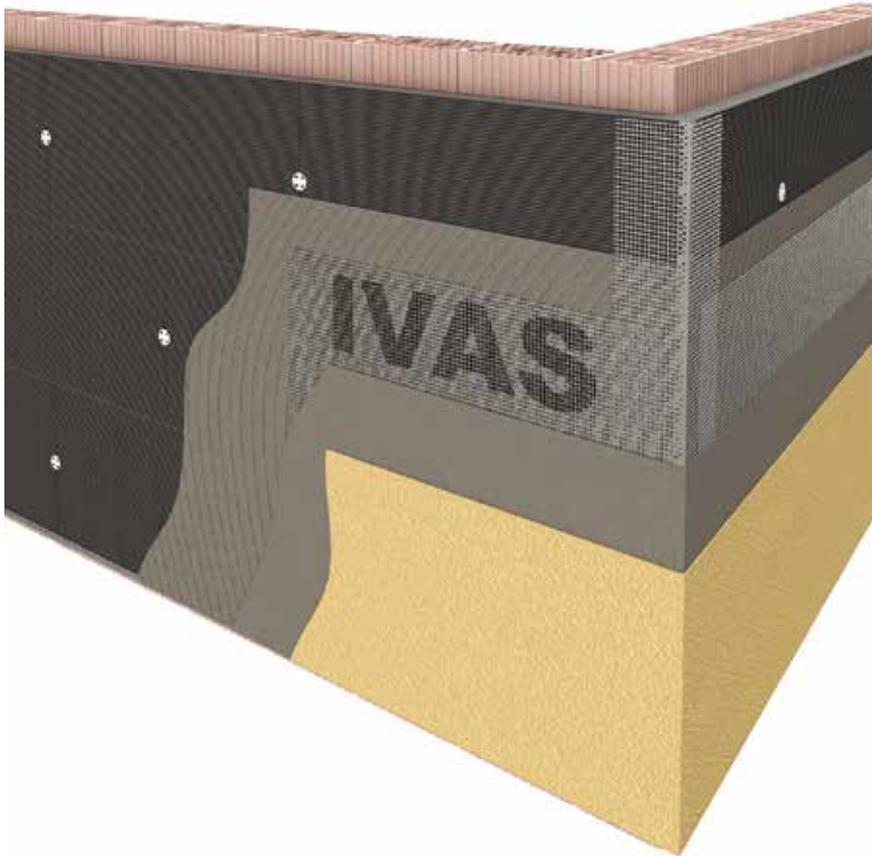
Armatex C1

**FINISHING COAT**

Rivatone Plus - Rivatone Idrosiliconico Plus

**ACCESSORIES**

Depending on the type, structural configuration of the surfaces to be clad and the project



the systems

Termok8®  
FONOSTOP EPS

In collaboration with

**SPECIFICATIONS**

All external surfaces of the façade are to be clad on site using the Termok8® FONOSTOP EPS process, following any specific and appropriate preparation of the substrate, to be evaluated on a case by case basis according to the condition and type of surface.

**INSULATING LAYER**

The initial alignment and containment of the insulation system is to be achieved by fitting an aluminum alloy section (base profile) along the ground floor perimeter of the building and possibly the walls of recesses, according to the thickness of the insulation, fixed with the use of expansion plugs.

Installation of EPS Fonostop insulating panels compliant with UNI EN ISO 13163, at a thickness depending on design calculation (min. 8 cm) The Fonostop EPS panel with low dynamic rigidity, containing graphite particles within a cellular matrix, ensuring greater insulation capacity for a given thickness (when compared to conventional EPS). Moreover, it has a special grooved pattern (depth 6 mm) making it easy to apply the reinforced plaster in the necessary quantity to ensure high sound-proofing qualities.

The panels are to be fastened to the surface of the façade (horizontally, starting from the bottom, with staggered vertical joints), by spreading Klebocem Grosso synthetic resin based adhesive mortar in a line along the perimeter of the panel and in dabs in the centre, ensuring that the insulation panel adheres properly to the substrate and is perfectly flat.

In the case of base boards and in particular when placed on the ground, areas which are subject to accidental knocks, it is advisable to use specific

insulating panels with increased density and low water absorption EPS P 200 or EPS P 200 HP.

Alternatively, to improve the risk of accidental knocks, use special insulating panels in EPS Alte Prestazioni (EPS High Performance).

**MECHANICAL FIXING**

Insert 6 special expansion plugs - compliant with ETAG 014 - per m<sup>2</sup> (normal arrangement) or 8 per m<sup>2</sup> (reinforced arrangement) depending on environmental conditions, substrate condition and height, ensuring an adequate depth of anchorage into the sound part of the wall.

Use of plugs is always required.

Depending on the environmental conditions, position and orientation of the building, we recommend increasing the number of expansion plugs at the perimeter of the building (over an area between min 1 max 2 meters from the corner).

Before skimming the insulation panels, it is necessary to protect the whole system by fitting corner profiles to all the corners and any other necessary profile fittings. Spread the adhesive onto the panels (profiles in galvanised or painted steel are not allowed).

Small pieces of Armatex C1 mesh (20 x 40 cm) are to be glued on at the corners of all openings (doors, windows etc.), at 45° to the perpendicular axis of the opening.

Any minor differences on the surface must be corrected by sanding.

**REINFORCED THIN RENDER**

The insulating panels will be coated on site with Klebocem Grosso smoothing mortar, using a 10 cm notched trowel, working vertically from bottom up and perpendicularly to the grooves in the existing insulating panels, thus ensuring that the initial



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layer of plaster is approximately 4-5 mm thicker. A layer of anti-alkaline and unravel-proof Armatex C1 sized glass fibre mesh fabric is to be embedded while the mortar is still wet. The mesh should be overlapped by at least 10 cm (both vertically and horizontally) or by 15 cm near return corners, if protected by corner guards with no mesh incorporated.

The reinforced layer will be completed (once the first layer of mortar is fully dry) with another skim coat that is at least 6 mm thick to cover the mesh. Seal with the special paintable polyurethane sealant Sigil Pol, covering the elastic seals previously placed for the compensation of retraction and expansion movements.

## FINISHING COAT

When the reinforced layer has completely dried, trowel apply just one single continuous granular layer of Rivatone Plus or Rivatone Idrosiliconico Plus coating (in the particle size available) and then level off. This coating has broad spectrum action against the darkening caused by algae and fungi and is specifically formulated for external thermal insulation systems (see the specifications on the technical information sheet).

We recommend a finishing colour with a light reflection index greater than 25 % or with reflectance formulation (Total Solar Reflectance).

Apply in horizontal and vertical movements to prevent evidence of resumption application.

During application, the environmental temperature must be between +5°C and +35°C with relative humidity below 80%.

## ACCESSORIES

Expansion joints and gaps between the insulation system and the retention and/or protective profiles are to be installed using the right accessories and sealed with over-paintable sealant Sigil Pol.

Any other functional and/or decorative components depend on the complexity of the design.

*N.B. Drafting of the Specification requires particular attention to the condition of the substrate and resolution of the various "critical issues" of the building, so it must be customised for each individual project.*