

The ideal solution to guarantee particularly high thermal performance thanks to the use of graphite particles that absorb and reflect the infrared rays, thus neutralizing the negative effect of heat radiation on thermal conductivity.

Particularly indicated in the energy upgrading of existing buildings, providing higher thermal insulation values with lower thicknesses compared to traditional solutions.

CERTIFIED IN COMPLIANCE WITH BBA

TERMOK8® GRAFITE COMPONENTS

ADHESIVE

Klebocem

INSULATION

EPS 31 G-100 - λ 0,031 W/mK

EPS 31 G / SL - λ 0,031 W/mK

SKIM COAT

Klebocem

REINFORCEMENT

Armatex C1

FINISHING COAT

Rivatone Plus - Rivatone Idrosiliconico Plus

ACCESSORIES

Depending on the type, structural configuration of the surfaces and the project

water absorption (EPS P 200 or EPS P 200 HP) which can be found in the catalogue.

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

MECHANICAL FIXING

Insert 6 special expansion plugs per m² (normal arrangement) or 8 per m² (reinforced arrangement) depending on environmental conditions, substrate condition, height and weight of the insulation, ensuring an adequate depth of anchorage into the solid part of the wall.

Use of plugs is always required.

We recommend increasing the number of expansion plugs at the perimeter of the building (over a width of at least 1 m) if it is more than 18 m in height.

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 surface of the insulation must always be

SPECIFICATIONS

All external surfaces of the façade are to be clad on site using the TermoK8® GRAFITE 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 insulating panels in EPS 31 G-100 or EPS 31 G/SL with graphite, compliant with UNI EN ISO 13163, at a thickness depending on design calculation.

The panels are to be fastened to the surface of the façade (horizontally, starting from the bottom, with staggered vertical joints), by spreading Klebocem 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.

During installation, this type of insulating panel must be shielded from direct sunlight as it can cause surface dusting, which is detrimental to the adhesive bonding and skimming phases.

We recommend installing tarpaulins to shade the site scaffolding.

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

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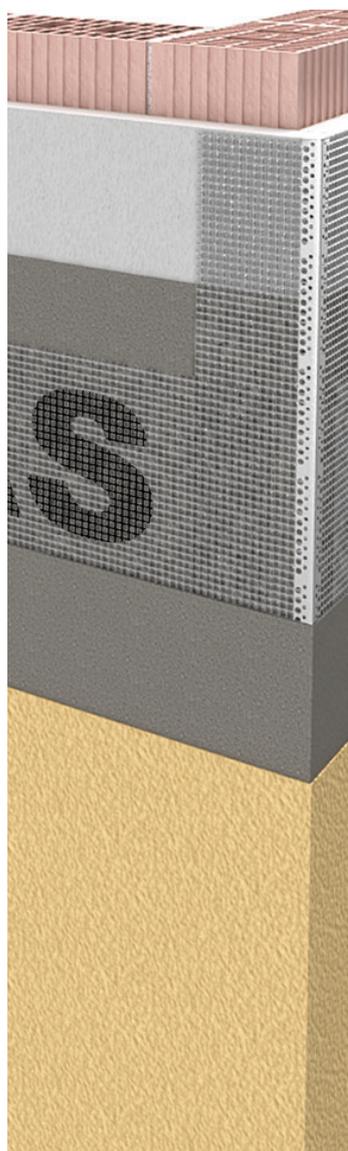
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checked to ensure no powder has formed on the surface; if necessary, clean carefully and proceed with the application of a water-based fixative.

The insulating panels will be coated on site with Klebocem smoothing mortar, in which the sized, anti-alkaline and unravel-proof Armatex C1 glass fibre mesh fabric is to be embedded while the mortar is still wet. The mesh should be overlapped by at least 10 cm and 15 cm near return corners, if protected by corner guards with no mesh incorporated.

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 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 a suitable over-paintable sealant.

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.