



Ideal solution for an ethical and sustainable approach to the design of EPS insulation systems. It uses slabs 100% derived from renewable raw materials according to the TUV Certified, "Biomass Balance" method. The Bio Mass contributes to environmental sustainability, guaranteeing the saving of fossil resources and reducing CO2 emissions and greenhouse gases. The finish coating with nanometric technology generates an oxidative photo-catalytic effect capable of decomposing organic substances, pollutants and microorganisms, ensuring surface cleanliness and air quality.

### TERMOK8® HP COMPONENTS

#### ADHESIVE

Klebocem Minerale

#### INSULATION

EPS 30 HP GREEN -  $\lambda$  0,030 W/mK

#### SKIM COAT

Klebocem Minerale

#### REINFORCEMENT

Armatex C1

#### FINISHING COAT

Rivatone Clean Plus

#### ACCESSORIES

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

Prestazioni (EPS G High Performance).

### MECHANICAL FIXING

Mechanical fixing of the panels is achieved with special expansion plugs (6 per m<sup>2</sup>) with ETAG 0014 Certification and "no slip off" washers to prevent unthreading, with an anchoring depth depending on the type of plug and wall substrate.

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).

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

### REINFORCED THIN RENDER

The insulating panels will be coated on site with a thickness of at least 5 mm of Klebocem Minerale smoothing mortar applied as follows: an initial coat applied with a 5 mm notched trowel; after drying of the first coat, application of a second coat in which a sized, anti-alkaline and unravel-proof Armatex C1 glass fibre mesh fabric is to be embedded while the mortar is still wet. The overlaps must be at least 10 cm and 15 cm near edges. The corners of all window openings must be reinforced with oblique 35 x 20 cm pieces of mesh.

The reinforced layer is to be completed with another skim coat, fully covering the mesh once

### SPECIFICATIONS

All external surfaces of the façade are to be clad on site using the TermoK8® HP GREEN process, following any specific and appropriate preparation of the substrate, to be evaluated on a case by case basis according to the tolerances that must be met and 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 30 HP (expanded polystyrene produced by lamination synthesis, with the addition of HBCD free graphite and a green external surface) with low thermal conductivity, as per UNI EN ISO 1399 and 13172, 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 Minerale 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) 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



i sistemi

TermoK8®  
HP GREEN

In collaborazione con





the first layer of mortar is completely dry.

## FINISHING COAT

When the reinforced layer is completely dry, a spatula is used to apply, and then a trowel to level, a single continuous layer of granular Rivatone Clean Plus coating. This coating has broad spectrum action against the darkening caused by algae and fungi and is specifically formulated for 1.5 mm 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). 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.

i sistemi

Termok8®  
HP GREEN