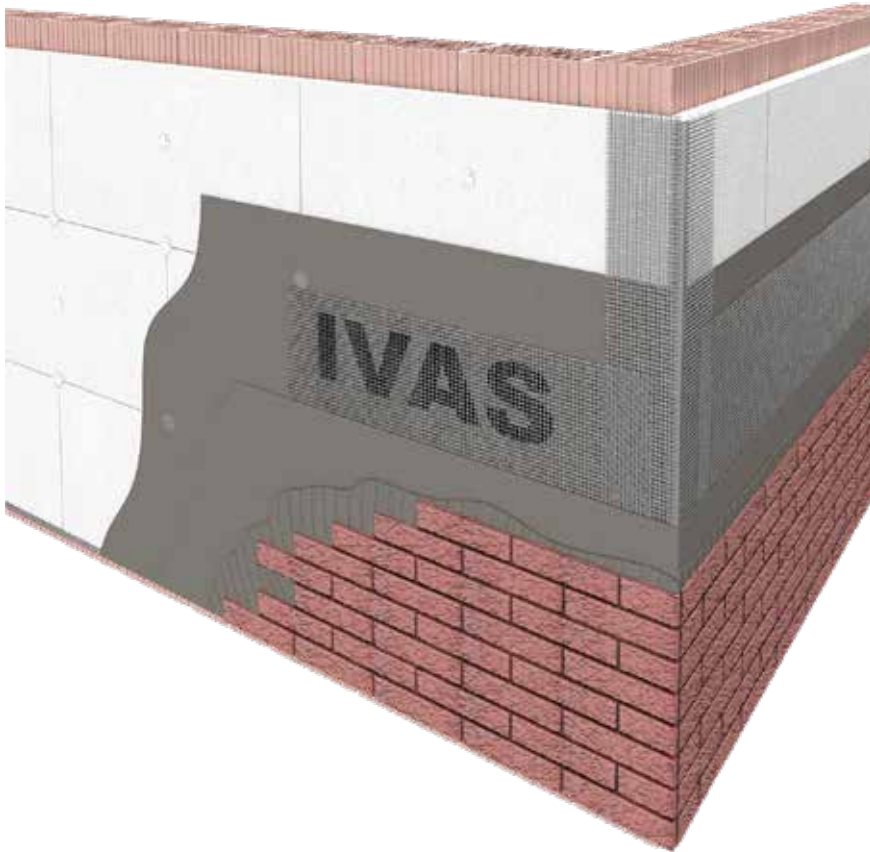


08/2021

The technical solution for modular façades that is quick and easy to install: lightweight, breathable, flexible, and multi-coloured.



TERMOK8® MODULAR FLEX COMPONENTS

ADHESIVE

Klebocem

INSULATION

Converto 35 – 100 - λ 0,035 W/(m·K)Converto 31 G Plus - λ 0,031 W/(m·K)

SKIM COAT

Klebocem

MESH

Armatex C1

ADHESIVE /GROUT FOR CLADDING:

Glueflex P

MODULAR CLADDING:

Listello Flex

ACCESSORIES

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



the systems

Termok8®
MODULAR FLEX

SPECIFICATIONS

After 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, all external surfaces of the façade are to be clad on site using the Termok8 MODULAR FLEX process, with BBA Certificate of Conformity no. 11/4841. During the entire application, drying, and hardening phase, the ambient, substrate, and material temperatures must be between +5°C and +35°C, and wind or direct sunlight can change the application characteristics. In such cases, it is necessary to take additional precautions such as shading with meshes.

STARTING ZONES / BUILDING PLINTH AREA

If the operation allows it, the setting-out and retention of the insulation system is to be achieved by mechanical application of an aluminium alloy section (base profile) along the ground floor perimeter of the building, sized to suit the thickness of the insulation to be protected, fixed by means of expansion anchors. For other starting options, please refer to the Termok8 Technical Manual or contact the IVAS Technical Department. For building plinths, areas exposed to accidental impacts, areas in contact with the ground, as well as areas that require low water absorption, it is recommended to use the special insulation panel with increased density and low water absorption, Converto P 200, made of sintered expanded polystyrene (EPS), with CE marking in accordance with UNI EN 13163:2017, ETICS certified in compliance with ETAG EAD 040083-00-0404 already 004:2013 guidelines and standard UNI EN 13499:2005.

INSULATING LAYER

The thermal insulation will consist of Converto 35 – 100 or Converto 31 G PLUS the latter with the addition of graphite, CE marked in accordance with

UNI EN 13163:2017, ETICS certified in compliance with ETAG EAD 040083-00-0404 already 004:2013 guidelines and standard UNI EN 13499:2005, with thickness depending on design calculation. The use of other types of insulating slabs can be evaluated by contacting the IVAS Technical Department. Insulation panels must be applied at the connection point between vertical elements (entrances, reception area, common rooms, etc.) with which the insulation panel would come into contact, and at the connection point of horizontal structures such as gutters or cantilevered stringcourses, by inserting an elastic separating element to compensate for the expansion and contraction, e.g. Self-expanding Sealant Tape (BG1). This joint, in which the tape is inserted, will then be sealed with Sigil Pol elastic polyurethane sealant after the application of the reinforced skim coat; it can then be finished with a topcoat. The panels are to be fastened to the surface of the façade by spreading Klebocem synthetic resin-based adhesive mortar in ribbons along the perimeter of the panel and in dabs in the centre with an adhesion surface \geq 40% of the surface of the panel, ensuring that the insulation panel is perfectly flat. If the substrate is particularly flat, use a serrated spatula to apply the adhesive over the entire surface.

The insulation panels are to be applied to the substrate in horizontal bands starting from the bottom and with the vertical joints staggered by at least 30 cm and perfectly aligned; the joints must not be visible. Fill any openings greater than 2 mm with some dry insulation of the same type or using Termok8 Foam polyurethane sealant. At the openings, the joints between the panels must not be aligned with the stiles, lintels, or edges of the openings themselves. Therefore, the insulation panels must be cut in an "L" shape in order to

surround and contain the stresses caused by the movement of different materials. At all edges, the heads of the insulation panels must be alternated in order to ensure the proper distribution of stresses.

MECHANICAL FIXING

About 48 hours after gluing the panels and, in any case, after the adhesive has dried, secure them with suitable percussion anchors or screw anchors depending on the type of substrate and the type of building, with EAD Certification 330196-01-0604, using at least 6 per square metre following a "T" pattern: one anchor is placed at the centre of each panel and another at each intersection of the joints. The anchors can be installed either "flush" or "recessed"; in the latter case, a cap made of suitable insulation material must be applied afterwards. Depending on the environmental conditions, position, orientation and shape of the building, condition of the substrate, and height of the building, it might be necessary to consider a reinforced anchoring system on all the insulated surfaces and especially in the perimeter areas of the building (area between a minimum of 1 metre and a maximum of 2 metres from the corner). The length of the anchor must be sized according to the thickness of the insulation panel, the layering of the wall, and the depth of the anchor (see the anchor's technical data sheet). The movement joints of the building (expansion joints) must be considered and protected with suitable joint cover profiles; for their implementation, please refer to the TermoK8 Technical Manual or contact the IVAS Technical Department. Before skimming the insulation panels, it is essential to fit corner guards on all the corners to protect the whole system and any other profile fittings by spreading adhesive on the panels (galvanised or painted iron profiles are not acceptable). Diagonal reinforcement meshes (20x40 cm) must be applied to all corners of doors and windows; it must be applied in the base plaster before the application of the reinforced skim coat and secured so that the edges of the strips lie directly on the corner at an angle of about 45°. Particular care is recommended when installing the insulation layer so as to minimise as far as possible any sanding of surfaces to correct minor irregularities.

BASE PLASTER

Use a spatula to coat the panels on site with Klebocem skimming mortar, in which the sized, anti-alkaline, unravel-proof Armatex C1 glass fibre mesh is to be embedded while the mortar is still fresh. The mesh will be laid from top to bottom with an overlap of at least 10 cm in both directions, avoiding the formation of blisters and creases, and an overlap of 15 cm near corners if they are protected by corner profiles with no mesh embedded. The reinforced layer is to be completed with another skim coat once the first layer of mortar is completely dry. The glass fibre mesh must be covered with at least a 1mm layer of mortar and at least a 0.5 mm layer in the overlapping area of the mesh. The overall thickness of the resulting reinforced skim coat should not be less than 3 mm. The reinforcement mesh will be located in the centre of the base plaster. Seal with suitable overpaintable polyurethane sealant (Sigil Pol) to cover resilient packing previously fitted to compensate for expansion and contraction of the system.

MODULAR CLADDING

When the reinforced layer is completely dry (3-4 weeks depending on weather conditions), the cladding with the one-pack, high-performance adhesive in paste form Glueflex P, using the double-spreading technique, i.e. spreading the adhesive both on the substrate and on the back of the flexible acrylic slip Listello Flex with a suitable 10 mm serrated spatula ensuring that the entire surface of the tile is evenly covered with the adhesive, paying particular attention to the corners. Immediately after the gluing phase, use the excess adhesive and a brush or a suitable tool to fill the joints completely and then remove excess grout while still fresh. After about 10 minutes (the time

depends on the weather conditions), clean any residual grout that may have settled on the slip using a damp sponge and constantly rinse it with clean water, working diagonally to the direction of the joints. The sizing of the joint between one tile and another must necessarily be evaluated together with the IVAS Technical Support Department, and in any case will be no less than a width of 2-3 mm. Every 4-5 courses, using a levelling bar, check that the cladding is perfectly flat. During application, the ambient temperature must be between +5°C and +35°C with relative humidity below 80%.

ACCESSORIES

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

N.B. Drafting of the Specifications 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.