Bristol Brick

TECHNICAL DATA

DECO-TILE

THE IDEAL SOLUTION TO FACADES ON THERMAL INSULATION SYSTEM

ELIMINATION OF THERMAL BRIDGING AND INCREASED OCCUPIER COMFORT:
reduction in heat dissipation points

IMPROVED ENERGY PERFORMANCE:
provides thermal inertia

SIMPLE TO INSTALL:
both for new-builds and renovations

INCREASES PROPERTY VALUES:

PROTECTION FROM ATMOSPHERIC AGENTS AND IMPROVED AESTHETICS:
porcelain stone offers exceptional resistance to atmospheric agents and does not change colour or fade when exposed to light; it also protects the external insulation from damage and impacts.

ENVIRONMENTAL SENSITIVITY:
reduced energy consumption with consequent reductions in atmospheric emissions and pollution

ACCESS TO GOVERNMENT CONTRIBUTIONS AND INCENTIVES:
depending on applicable local legislation

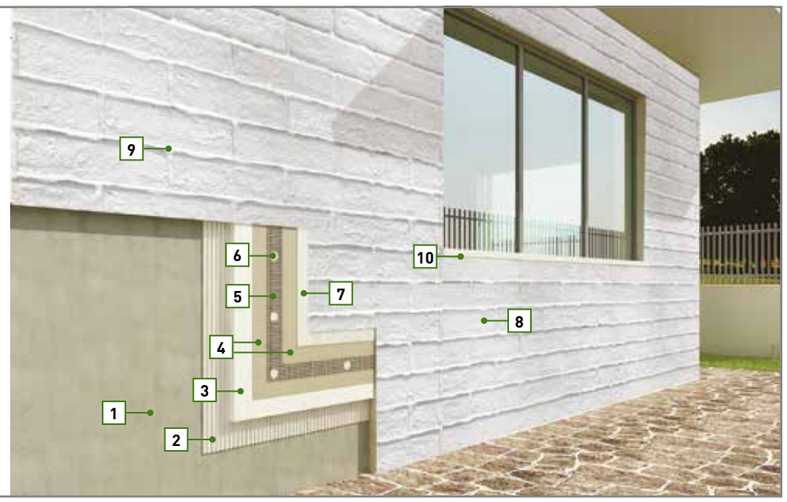
INSTALLATION TIPS

In order to apply Brick Gres Generation to exterior walls with external insulation systems, we suggest installing the **MAPETHERM® TILE SYSTEM** external thermal insulation system after checking that the substrate is of sufficient strength and free of inconsistencies, and removing the existing paint.

1 Apply a coat of render with a minimum tensile strength of 1.00N/mm².
2 Fasten an aluminium starting profile with drip channel using nylon wall plugs with galvanised steel screws in order to ensure the insulation panels are installed perfectly horizontal.
3 Apply the insulation panels with a single-component cement mortar for panel application. The adhesive must be applied both to the panels and the substrate.
4 After a minimum of 48-72 hours have passed since the panels were applied, a structural render must be applied; this must have a high content of resins and synthetic fibres as well as good adhesion. For this thermal insulation system the use of **PLANITOP HDM MAXI** is strictly recommended. This substrate, once hardened, must provide a tough, compact layer which is impermeable to water and resistant to freeze-thaw cycles.
5 Apply alkali-resistant fibreglass mesh reinforcement, **MAPEGRID G 120**, to the mortar while still wet. Next, with the mortar still not hardened, 4-5 expansion plugs per m² must be installed, with 7 mm diameter galvanised steel screws, for a fastening thickness of 160 mm, with 10 mm nylon plugs and thermal break, **MAPETHERM TILE FIX**, washers, fastened to the underlying structure. In the presence of openings, we recommend applying further portions of mesh arranged at 45° in the corners.
6 After at least 10 days' curing of the structural render (in good weather), the ceramic covering can be laid using an adhesive with good deformability characteristics, such as the following, according to requirements (see technical characteristics at www.mapei.com): **ULTRALITE S2**, **ULTRALITE FLEX**, **KERAFLEX MAXI S1**. The tile adhesive must be applied both to the substrate and spread on the back of the tiles; the tiles must be adequately knocked and/or pressed down during application to avoid the formation of dangerous air bubbles.
7 Joints of a suitable width must be left when laying the tiles (10 mm). The joints may be grouted using keracolor gg, or alternatively **ULTRACOLOR PLUS** (see technical characteristics at www.mapei.com).
8 Flexible joints must also be created in correspondence with the string courses, limiting the sections to a maximum of 16 m². These joints can then be sealed with **MAPESIL LM**, neutral curing silicone sealant with maximum deformation of 25%, or alternatively using **MAPESIL AC**, mould-resistant pure acetic silicone sealant, for movements up to 25%, by first applying masking tape to the edges of the joint and then removing it once the silicone has been applied, before this is allowed to fully cure.

EXAMPLE

1 CONCRETE
2 ADHESIVE
3 INSULATING PANEL
4 STRUCTURAL RENDER
5 AR FIBRE GLASS MESH
6 ANCHORS
7 ADHESIVE
8 BRICK GENERATION
9 GROUT
10 SEALANT



TECHNICAL FEAUTURES

PHYSICAL PROPERTY	NORM	REQUIRED STANDARDS
Chemical strength	UNI EN ISO 10545-13	Resistance to low concentrations of alkalis and acids Resistance to high concentrations of alkalis and acids Resistance to household chemical products and swimming pool additives
Water Absorption	UNI EN ISO 10545-3	≤ 0,5%
Bending Strength	UNI EN ISO 10545-4	N ≥ 27N / mm2
Frost resistance	UNI EN ISO 10545-12	No sample must show alterations to the surface
Stain resistant	UNI EN ISO 10545-14	Class ≥ 3
Hardness in Mohs degrees	UNI EN 101	≥ 5° Mohs
Slip resistance (coefficient of friction)	DIN 51130 ASTM-C 1028	Satisfactory friction
Abrasion resistance	Internal Classification System	Glazed tiles - Abrasion class from I to V

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