

ATLAS SYSTEM

set of products for thermal insulation of external walls of buildings

European Technical Assessment ETA Nr. ETA-06/0081

Declaration of Performance No. 001/2/CPR

Certificate of Conformity No. 1488-CPR-0452/Z

Properties

Meets European technical requirements - provided for insulation systems throughout the European Union.

Complete set of insulation materials - ensures full and tested compatibility of all components, which is particularly important during the successive years of the system's operation.

Versatile - in an insulation system, adhesive mortars can be used for adhering boards EPS and for making a reinforced layer in any configuration (interchangeable), depending on the needs.

Enables the thermal insulation of external walls of buildings as required by law - reduces heat loss, reduces heating costs and is an effective method of eliminating thermal bridges.

Improves acoustic insulation of walls - thanks to the possibility of using flexible polystyrene foam, it is possible to improve the weighted acoustic insulation index (ΔR_w) by even more than 3 decibels.

Low water absorption - less than 0.5 kg/m², making the system more resistant to alternate freezing and thawing.

High impact resistance - provides the insulation **system** with durability and resistance to damage during use.

Increases the durability of external walls - protects them from direct weathering.

The system is non fire-spreading (NRO) - applies to insulation systems with polystyrene (EPS) boards up to 250 mm thick.

Purpose

For insulating external walls of buildings - can be used both on plastered surfaces and on raw masonry made from bricks and blocks (ceramic, lime-sand, stone) aerated concrete and concrete (monolithic or prefabricated).

For thermal insulation using standard or elasticated polystyrene (EPS) - in both cases the maximum thickness of the thermal insulation can be up to 25 cm.

For insulating buildings up to 25 m in height.

Can be fixed to the surfaces of horizontal or sloping building elements - if they are not exposed to direct weather conditions.

Recommended for insulation works in traditional, energy-saving and passive construction.

ATLAS System components

ATLAS system is a external thermal insulation composite system (ETICS). The thermal insulation technology consists of attaching polystyrene (EPS) boards to the wall on its external side, placing a layer of mortar reinforced with fibreglass mesh and then applying a thin-coat external plaster layer.

In the ATLAS system, products can be used according to the list below.

Fixing of thermal insulation - basic ATLAS STOPTER K-20 adhesive mortar ATLAS HOTER S adhesive mortar ATLAS HOTER U adhesive mortar ATLAS HOTER U WHITE adhesive mortar
Thermal insulation product Polystyrene (EPS) boards described by a code which is a combination of the following symbols: T2 (thickness); L1 or L2 (length); W2 (width); S1 or S2 (rectangular); DS(N)2; DS(70,-)1 or DS(70,-)2, BS(75), TR80 (flexible polystyrene) or TR100 (standard polystyrene)
Fixing of thermal insulation - additional Approved fasteners with ETA European Technical Assessment issued in accordance with ETAG 014. Fasteners are not required if the building is less than 12 m and the polystyrene foam thickness does not exceed 15 cm
Reinforced layer - adhesive ATLAS STOPTER K-20 adhesive mortar ATLAS HOTER U adhesive mortar ATLAS HOTER U WHITE adhesive mortar with fibreglass mesh SSA-1363-SM 0.5 or AKE 145
External layer - render Thin-coat render ATLAS CERMIT ND + primer ATLAS CERPLAST ATLAS ACRYLIC RENDER+ primer ATLAS CERPLAST ATLAS SILICONE RENDER + primer ATLAS SILKON ANX or ATLAS CERPLAST ATLAS SILICONE-SILICATE RENDER + primer ATLAS SILKON ANX or ATLAS CERPLAST External layer - optional Acrylic paint ATLAS SALTA E Silicate paint ATLAS SALTA S Silicone paint ATLAS SALTA Silicone paint ATLAS SALTA N

According to the applicable regulations, the insulation system is treated as a single construction product in its entirety, and therefore it must be used only in such a combination of layers and materials as described in its technical specification. It is unacceptable to use so-called compilations, i.e. the use of products not covered by a technical approval, coming from other systems or manufacturers.