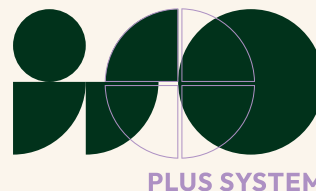


Elements

ISO-PLUS-ELEMENT Typ III

(plasterable)



TECHNICAL DATA SHEET

TI 10305.08.25

Thermal insulation and vapor barrier for ceilings and walls

Field of application:

Large-area multi-layer carrier element for thermal insulation and vapor barrier in swimming pool halls. Especially suitable for all surfaces that are to be plastered, tiled, painted, or otherwise creatively designed.

Material:

Composite element made of polystyrene rigid foam (EPS) according to DIN EN 13163 DI, WI, quality-assured, guaranteed aged, and HBCD-free foamed.

Density: 20 kg/m³

Thermal conductivity group: 035

One side laminated with protective-coated aluminum thin sheet 0.1 mm, SD ≥ 1500 m, vapor-tight

Dimensions:

Length: 2500 mm

Width: 1000 mm

Thickness: 20, 30, 50, 80, 100 mm

Substrate:

The substrate must be suitable for doweling. ISO-PLUS-ELEMENTS are generally mounted directly onto the raw ceiling or wall. The substrate must be load-bearing, dry, free of dust, and other adhesion-reducing substances. Exterior masonry joints must be made airtight. Contaminants and mortar residues must be removed. Existing paint coatings must be checked for strength and load-bearing capacity and, if necessary, removed. Larger substrate tolerances must be compensated in a suitable manner (e.g., lime-cement plaster).

Application:

ISO-PLUS-ELEMENTS are glued and doweled. For this purpose, ISO-Baukleber and ISO-Feuchtraumdübel are used, or on wooden substrates ISO-Dünnschichtkleber and ISO-Schraub-Kombinationen. The individual elements are installed with butt joints without adhesive in between.

In all work steps, the detailed installation instructions must be observed (request if necessary or download from the internet).

After installation of the elements, the joints are covered with ISO-Fugenband (see technical data sheet). Care must be taken to ensure that all wall, roof, and ceiling surfaces of the swimming pool hall are made vapor-tight all around. Connections to building components (e.g., windows) must be permanently sealed (request detail or clarify with ISO if necessary).

The entire surface is then coated with ISO-Haftgrund (see technical data sheet) and fully reinforced with mesh by leveling with ISO-Feuchtraumpachtel.

The entire surface can then be finished with an ISO-Schwimmhallenputz or ISO-Malgrund. Alternatively, standard tiles (up to 25 kg/m²) can also be bonded to the spackled surface (see special ISO info sheet).

Cut-outs – e.g., for electrical cables – are cut or milled out of the polystyrene foam on the back of the ISO-PLUS-ELEMENT.

Penetrations for electrical supply lines etc. must be sealed with permanently elastic material, with each cable sealed individually.

Penetrations for suspended ceilings must be sealed appropriately (see separate technical data sheet).

Installation time:

To avoid thermal bridges at the wall-floor connection, it is recommended to install ISO-PLUS-ELEMENTS, as well as ISO-Haftgrund and ISO-Feuchtraumpachtel with mesh, before pouring the screed. The wall-floor connection must then be sealed according to the applicable regulations and recognized technical rules for wet rooms (request ISO info sheet if necessary).

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