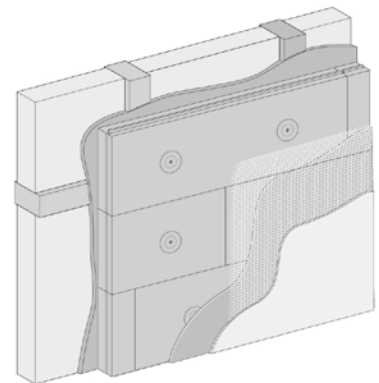


ClayTec interior insulation board

Item No. 09.445 D = 40 mm, Item No. 09.465 D = 60 mm,
Item No. 09.485 D = 80 mm

- **Low-emission interior insulation**
- **Ideal for masonry and timber-frame restoration**
- **Best moisture management, very breathable**



Wood fibre insulation board for interior insulation of timber-frame houses and all other historical buildings. ClayTec HFD interior insulation boards are glued locally in a clay plaster levelling course or fixed with clay adhesive and reinforcing mortar. The soft boards decouple deformations in the construction from the interior plaster. They are inexpensive and suitable for many types of wall.



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2026/8
Changes and errors excepted.
Current version available at
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ClayTec interior insulation board

**Item No. 09.445 D = 40 mm, Item No. 09.465 D = 60 mm,
Item No. 09.485 D = 80 mm**

Field of Application Interior insulation for timber-frame and solid masonry exterior walls.

Composition Wood fibers from PEFC-certified forestry, white glue for layer bonding.

Material Parameters Bulk density approx. 160 kg/m³, compressive strength $\geq$ 50 kPa, nominal thermal conductivity value: 0.038 W/mK.
 Design thermal conductivity values: D: 0.040 W/mK, AT: 0.042 W/mK, CH: 0.038 W/mK. sd-values: D 40 = 0.20 m / D 60 = 0.30 m / D 80 = 0.40 m.
 Fire behaviour in accordance with DIN EN 13501-1: E

Composition and Dimensions Insulation board with tongue-and-groove profile. Width = 380 mm, length = 1,200 mm (covered area 365 x 1,185 mm = 0.43 m²), thickness = 40, 60, 80 mm.

Supply Form Stacked and shrink-wrapped on pallets.

Storage Store in a dry and well-ventilated place, not under plastic sheeting. Protect against moisture and condensation during transport and storage.

Amount Required Approx. 2.6 boards/m². Allow approx. 10% extra for cutting waste.

Processing Levelling layers with thicknesses > 10 mm must dry completely before installation. Boards can be cut using a jigsaw or handheld circular saw. The lowest row of boards must be installed with a small gap to the floor. Boards are applied using ClayTec clay adhesive and reinforcing mortar (13.555), either with a 10 mm notched trowel on one side or 5-6 mm on both sides. Alternatively, they may be embedded in a pliable mortar bed $\leq$ 10 mm made of clay undercoat plaster with straw or mineral clay plaster 20.

The side to be plastered is the light, sanded side printed with the product name. Boards are pressed firmly into place to ensure full-surface contact with minimal gaps. For this purpose, the boards are fixed immediately after positioning: with screws on wooden substrates and with screw anchors on solid substrates. Insulation washers are used in all cases. Anchoring depth: in wood $\geq$ 40 mm, in solid building materials $\geq$ 60 mm. Each board must be fastened at a minimum of two points.

Fastening material ClayTec supplies screws for timber beams and rawlplugs for mineral substrates. Required: 6-8 pieces/m². It is recommended to have different lengths available on-site. Sufficient anchoring ensures that the boards are pressed over their full surface into the adhesive bed. The pressure washers

Article	Produkt	Delivery form	Demand
35.130/60-35.130/140	Screw L60 - L140	Box of 100 pcs./200 pcs.*	6-8 pcs./m ²
35.140/100-35.140/160	Rawlplugs L100 - L160	Box of à 100 pcs.	6-8 pcs./m ²
35.150	Dins. board ins. plate, diameter Ø 6 cm	Box of à 100 pcs.	6-8 pcs./m ²

are suitable for both screws and rawlplugs.

*200 pcs of L60 and L80

Subsequent processing Carefully dust the boards. Fill joints $\geq$ 1 mm wide and at least 15 mm deep with fine clay mortar and allow to dry.

Thin-layer coating: Pre-fill screw holes and surface defects. After drying, apply a 3 mm layer of clay adhesive and reinforcing mortar – optionally using a plastering machine (no waiting time required). Embed jute or 60 g/m² glassfibre mesh evenly into the wet surface. After drying, apply YOSIMA clay designer plaster with a rubbed finish (not suitable for a smooth finish). Alternatively, finish the reinforcement layer ready for painting with a 1 mm fresh-on-fresh layer, or after drying, apply clay topcoat fine O6 or clay filler and surfacer (Q3). Final coat with ready-to-use ClayTec clay paint or ClayFix clay paint system.

Thick-layer coating: Pre-treat surfaces with RED primer. Apply clay undercoat plaster with straw, mineral clay plaster 20 or SanReMo in a layer not exceeding 8 mm on walls and 5 mm on ceilings or sloped roof surfaces. Embed jute or 60 g/m² glassfibre mesh flat into the wet surface. Allow to dry. Total plaster thickness: max. 15 mm for walls, max. 10 mm for ceilings or sloped roofs – always applied in at least two layers.

Wall panel heating: Pre-treat surfaces using RED primer or by toothed trowel application of clay adhesive and reinforcing mortar. Allow to dry. Spray a maximum 8 mm layer of one of the clay mortars mentioned above. After drying, level up to the crown of the wall heating pipes. Drying of the entire basecoat layer can be assisted with heating.

For further details, refer to the ClayTec „Clay plasters worksheet“.

Notes In rare cases, lignin may become visible on cut surfaces. These areas can be sealed with standard commercial products. Refer to the ClayTec „Interior insulation worksheet“ for details on sizing, preparation and detail development.

The absorbency of wood fibre insulation boards is significantly lower than that of solid building materials such as brick. For this reason, drying must be particularly well planned and monitored with thick plaster layers – see ClayTec „Clay plasters worksheet“.

Claims for compensation that do not result from factory mixing errors are excluded. Subject to change and errors excepted. As of 2026/8.