

Clayboards

Item No. 09.004, 09.002

09.004 thickness = 20 mm, 09.002 thickness = 25 mm,
W 150 cm, L 62⁵ cm

- The original 'clayboards', on the market since 1996
- Medium weight, stable thanks to reed additives



Drywall clayboards for planking wood and metal post and beam constructions within interior walls, facing, ceiling and roof surfaces. The CLAYTEC clayboard is a drywall board and a clay plaster in one. It was developed based on practical building experience and has been available on the market for 20 years. With a density of 700 kg/m³ it provides a clay mass which is easy to handle.

For technical consulting service teams
and sales see www.claytec.de/en
Product data and application
see reverse

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Item. No. 09.002 thickness = 25 mm

W 150 cm, L 62⁵ cm

Field of application Clayboards for planking indoor wood and metal post and beam constructions. For interior walls, facing, ceiling and roof surfaces in drywall construction. As a substrate for YOSIMA Clay designer plaster or CLAYTEC Clay topcoat fine 06 with CLAYFIX clay paint.

Composition Building clay and loam, perlite, reed matting, hemp, hessian mesh.

Material parameters Bulk density approx. 700 kg/m³ (thermal conductivity value after measuring the clayboard thickness = 25 mm 0.13 W/mK, Cp approx. 1.45 kJ/kgK (thickness = 20 mm 20.3 kJ/m²K, thickness = 25 mm 25.4 kJ/m²K), μ 18)

Building component values (certificated) Sound insulation: 36 dB (skirting), 48 dB (dividing wall), 56 dB (dividing wall). Please ask for separate information on fire resistance tests for walls and ceilings.

Dimensions and weights

D20: W = 150.0 cm, L = 62.5 cm, thickness = approx. 20 mm. Weight approx. 13.1 kg/board = approx. 14.0 kg/m²

D25: W = 150.0 cm, L = 62.5 cm, thickness = approx. 25 mm. Weight approx. 16.4 kg/board = approx. 17.5 kg/m²

Supply form Shrink-wrapped on pallets of 60 units

Storage Store resting on pallets; keep straight and dry. There is no time limit on storage.

Amount required Approx. 1.1 boards/m². When calculating amount required, allow about 10% extra for wastage etc.

Substructure

D20, walls, ceilings and sloping roofs: axial spacing max. 37.5 cm (= 150 cm/4)

D25, walls, axial spacing 50 cm (= 150 cm/3). Ceilings and sloping roofs: axial spacing max. 37.5 cm (= 150 cm/4) TV DIN 18334:2016-09 applies with regard to the maximum moisture content of substructure wood.

The boards are mounted at a 90° angle to the substructure. If they are laid parallel in exceptional cases (e.g. between ceiling beams), the distance to the substructure may not exceed 31.25 cm (= 62.5 cm/2). You are strongly advised not to attach the material directly to load-bearing parts of the building (e.g. rafters, beams).

Processing Moisture stresses arising from plasters and screeds installed when wet are not permitted. The relative humidity during storage and after installation should not generally exceed 70%. Keep the entry of moisture via the plasterwork as low as possible.

The boards are cut with a jigsaw or handheld circular saw. The FESTOOL diamond cutting system DSC-AG 125 Plus-FS is particularly suitable; see also the clip at www.youtube.com/watch?v=5FFMZ6PX7dY

Plaster must be applied to the smooth side of the board, not the slightly wavy side. The lowest row of boards must be fitted with a gap to the floor. The panels are abutted against the substructure. The panels are attached to wood using CLAYTEC clayboard screws (5 x 50 mm) or WÜRTH quick assembly screws with coarse thread and 04164 washers. To attach to metal, use WÜRTH quick assembly screws with a drive point and 04164 washers, or KNAUF all-purpose screws (FN 4.3 x 35 mm) with washers. Spacing between screws ≤ 20 cm, i.e. 4 fastening points are required per intersection between panel and substructure (20 screws for each D 20 board, 16 screws for each D 25 board).

Stapling with broad back staples is also possible, e.g. using BEHRENS (BEA) 146/55NR HZ. Twice as many staples should be used compared to screws (see above); spacing from the edge 10-15 mm.

In bathrooms, use rustproof fasteners only.

Cross joints must not be used and horizontal or vertical joints must not be continuations of the borders of wall openings. Install the boards with joints that are offset by 30 cm, or even better, 50-75 cm.

Subsequent processing If necessary, fill gaps of ≥ 1 mm in width with CLAYTEC clay adhesive and reinforcing mortar or clay topcoat fine 06 and leave to dry. Carefully dust panels; if necessary, moisten slightly before use (with spray).

Thin layer coating: The surfaces are coated with a 3 mm layer of clay adhesive and reinforcing mortar. This can also be sprayed on using a plastering machine; if this application method is used, rest periods are not necessary. Flax or glassfibre meshes are spread flat and worked into the surface while it is still wet. Properly apply YOSIMA Clay designer plaster after drying. Apply the reinforcement layer very carefully for YOSIMA colour clay surfacer or CLAYFIX clay paint system (= fill the drill holes and indentations before starting and allow these points to dry); it is more advisable to apply a thin layer of clay topcoat fine 06.

Wall panel heating: Spray on an initial layer of clay undercoat plaster with straw, clay plaster, mineral clay plaster or SanReMo in a layer thickness not exceeding 8 mm. After drying, fill the gaps as far as the pipe clamp for the wall heating. Apply heat to dry the entire basecoat layer. For further instructions, refer to the CLAYTEC clay plasters worksheet.