

## Clayboards Item No. 09.004

thickness = 20 mm, L= 1.500 mm, W= 625 mm

- The original 'Clayboards', on the market since 1996
- Medium-heavy, stable thanks to reed inlay



Drywall board made of clay and reed for cladding of wood and metal post structures of inner walls, facing shells, ceiling and roof surfaces. Claytec Clayboard acts both as drywall board and clay plaster. It was created based on manual experience and has been on the market for over 20 years. With a bulk density of 700 kg/m<sup>3</sup> it offers clay mass and is easy to handle. As supplement to this product sheet the **CLAYTEC Guidelines for ecological drywalls in system apply.**

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Product data and application  
see reverse



## Clayboards

### Item. No. 09.004 thickness= 20 mm, L= 1.500 mm, W= 625 mm

**Scope of application** Clayboard for cladding of wood and metal post structures in the interiors. For inner walls and facing shells DIN 4103-1, installation area 1 or 2 for ceiling and roof surfaces. On surfaces of water exposure class W0-I as per DIN 18534-1, e.g. in bathrooms (except for shower area) and household kitchens. With reinforcing layer, substrate for YOSIMA clay design plaster or CLAYTEC clay topcoat fine 066 with CLAYFIX clay paint.

**Composition** Building class and earth, perlite, reed (approx. wire-bound every 20 cm), hemp, jute fabric.

**Parameters** Bulk density approx. 700 kg/m<sup>3</sup>, thermal conductivity value according to the measurement of Clayboard D25 0.13 W/mK,  $\mu$  18. Water vapour sorption class III. Heat storage: Cp 1.45 kJ/kgK, D20= 20.3 kJ/m<sup>2</sup>K, D25= 25.4 kJ/m<sup>2</sup>K.

**Component values** For stability as per DIN 4103-1, sound insulation of walls and facing shells as well as building material class and fire resistance class for walls and ceilings, please refer to **CLAYTEC Guidelines for ecological drywalls in the system**.

**Dimensions and weights** D20: thickness = approx. 20 mm, L= 1.500 mm, W= 625 mm. Mass of approx. 13.1 kg/board = approx. 14.0 kg/m<sup>2</sup>

**Delivery form** Shrink-wrapped on pallets of 60 pcs.

**Storage** In storage flat on pallets, dry. Storage is unlimited. Protect against moisture during transport and storage on construction site. Carry upright, we recommend CLAYTEC transport aid 182/400. On the construction site, store flat and even on dry pallets or wood.

**Humidity** Moisture stress due to wet installed plaster or screed is not allowed. In general, the relative air humidity should not exceed 70% during storage and after installation.

**Material requirement** approx. 1.1 palletes/m<sup>2</sup>. When determining material requirements take into account reserves of approx. 10% for waste, etc.

**Substructure** Wood posts: Solid wood (soft wood) as per DIN EN 14081-1 or laminated timber (BSH) in accordance with DIN EN 14080. Strength class min. C24 according to DIN EN 338. Sorting class S10 according to DIN 4074 Moisture content max. 18 %. Metal posts: Sheet steel profile according to DIN 18182-1 / DIN EN 14195.

Grid walls: Axles dimension distance 500 mm (= 1.500 mm/3)

Grid ceilings and roof pitches: Axles dimension distance max. 375 mm (= 1.500 mm/4)

The wall-mounted substructure sections are supported with CLAYTEC drywall tape and mounted according to rules of engineering. For studding make sure that the boards are mounted on the substructure offset by 90°. If in exceptional cases they are laid parallel to the substructure (e.g. between ceiling beams), the distance of the substructure must not be more than 312.5 mm (= 625 mm/2) We strongly advise against mounting directly on the load bearing components (e.g. Rafters, ceiling beams).

**Processing** The boards are cut using a jigsaw or hand-held circular saw. The FESTOOL Diamant partition system DSC-AG 125 Plus-FS is particularly suitable, see also the Clip on [www.youtube.com/watch?v=5FFM26PX7dY](https://www.youtube.com/watch?v=5FFM26PX7dY).

Plaster the even and not the slightly wavy side. The bottom row of the boards must be mounted with some spacing to ("Air") the floor. The boards are butted on the substructure as tightly as possible.

Screws: Mounting on wood with CLAYTEC clayboard screws 5 x 50 mm or FN drywall screws with coarse thread. On the metal C-Profile with FN drywall screws with fine double-thread, on UA profile with TB drywall screws and countersunk washer. Screwing distance  $\leq$  200 mm, i.e. 4 mounting points are required for each board/substructure crossing (wall 16, ceiling 20 screws / boards). Lower the screws a bit (board flush).

Brackets: Mounting on wood with brackets 45 mm, e.g. Haubold Art. No. 574941 KG 745 Cnk resined 12  $\mu$ m (ETA). Bracket spacing  $\leq$  80 mm.

Cross jointing and continuation of wall opening limits through horizontal or vertical joints are not allowed. Mounting must be done by offsetting the joints by one post spacing. Use joints to connect to other building parts such as solid walls and ceilings.

**Further treatment** The room temperature should not exceed +10° C for joint and coating works. In general, keep the moisture penetration through the plaster to as low as possible. Use CLAYTEC clay joint-filler for closing the wall-mounted board joint. Carefully dust off the boards before applying mortar, lightly wet if necessary (spray mist).

Thin-layer coating: Finely and deeply fill gaps at board joint at  $\geq$  1 mm wide with CLAYTEC clay adhesive and reinforcing mortar or clay topcoat fine 06, close screw recesses and imperfections, allow to dry. The surfaces are coated 3 mm thick with clay adhesive and reinforcing mortar. It can also be injected with a plaster machine, rest times are not required for this application. Glass or flax fabric is worked into the still wet surface. After drying professionally apply YOSIMA clay design plaster. For the YOSIMA clay surfacer system or the CLAFIX clay coating system the fabric of the reinforcing layer is covered wet-on-wet.

Wall surface heating: Close gap  $\geq$  1 mm wide as before. Pre-spray up to max. 8 mm with clay undercoat plaster with straw, clay plaster MINERAL 20 or clay plaster SanReMo. Polish up after drying up to pipe crow wall heating. Drying of the entire base plaster with heating support. For further information see CLAYTEC work sheet Clay Plaster.

**Note** Due to two deviating test values, full compliance with DIN 18948 clay boards is currently not available. Surface Tensile Strength: Minor undershot of the values required as per DIN. The requirement is achieved in CLAYTEC system with clay adhesive and reinforcing mortar. Bending Tensile Strength: Undershot of the values required for minimising the transport deflection on the construction site, careful transport is recommended. We would be glad to provide additional information for further enquiries.

Familiarity with **CLAYTEC guidelines for ecological drywalls in the system** is mandatory for the handling of the products (see [https://www.claytec.de/en/products/downloads\\_en](https://www.claytec.de/en/products/downloads_en)).

For instructions on working with this product see:

