

Clayboard heavy D 22 / D 16

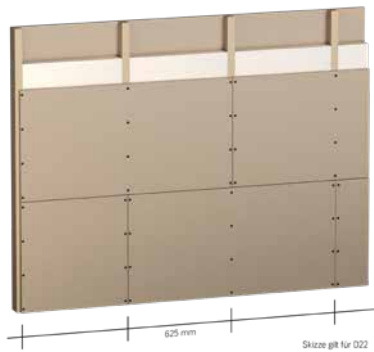
Item. No. 09.014 thickness = 22 mm,

Item. No. 09.015 thickness = 16 mm, L= 1.250 mm, W= 625 mm

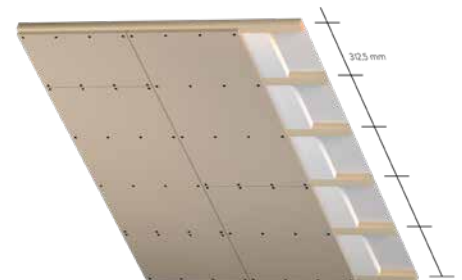
- **Pure clay mass**
- **Heavy-weight**
- **Fire behavior A2, A2 - s1 d0**



View wall



View roof slope



Drywall board made of clay for cladding of wood and metal post structures of inner walls, facing shells, ceiling and roof surfaces. The clay building board brings lots of clay into the house, with all the positive effects for the indoor climate, especially in thermal terms. It must be cut with the hand-held circular saw. The Clayboard D 22 provides the walls with a wide drywall substructure grid of 625 mm. As supplement to this product sheet the **ClayTec guidelines for „Low-emission drywall systems“**.



Clayboard heavy D 22 / D 16

Item. No. 09.014 thickness = 22 mm,

Item. No. 09.015 thickness = 16 mm, L= 1.250 mm, W= 625 mm

Scope of application Clayboards for cladding of wood and metal post structures in the interiors. For inner walls and facing shells DIN 4103-I, installation area 1 or 2 for ceiling and roof surfaces. On surfaces of water exposure class W0-I as per DIN 18534-I, e.g. in bathrooms (except for shower area) and household kitchens. For full-surface cladding of solid wood components, boarding, and wood-based panels. With reinforcing layer, substrate for YOSIMA clay designer plaster or ClayTec clay topcoat fine 06 with ClayFix clay paint. ClayTec clay paint ready to use or part of the ClayFix clay paint system.

Composition Clay, earth, wood fibre, starch, jute fabric (one-side, back side).

Parameters Surface hardness ≤ 15 mm, Bending tensile strength ≥ 0.8 N/mm², Surface Tensile Strength ≥ 0.1 N/mm². Bulk density class 1.6, bulk density approx. 1.450 kg/m³, thermal conductivity 0.625 W/mK, μ 5/10. Water vapour sorption class WS III. Heat storage: Cp 1.1 kJ/kgK, D22= 35.1 kJ/m²K, D16= 25.5 kJ/m²K. Building material class A2 (DIN 4102-I), A2 - s1 d0 (DIN EN 13501-I)

Component values For stability as per DIN 4103-I, 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 „Low-emission drywall systems“**.

Dimensions and weights Dimensional stability class. MHK II, L = 1.250 mm (± 4 mm), W = 625 mm (± 4 mm), thickness = 22 mm or 16 mm (+ 1 - 3 mm). Evenness - 1 mm. D22: Mass of approx. 25 kg/board = approx. 32 kg/m²
D16: Mass of approx. 18 kg/board = approx. 23 kg/m²

Delivery form Shrink-wrapped on pallets, 09.014 D 22 mm $\pm$ 40 pcs, 09.015 D 16 mm $\pm$ 60 pcs.

Storage In storage flat on pallets, dry. Storage is unlimited. Protect against moisture during transport and storage on construction site. Carry upright with two persons. 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. 1.28 pallets/m². When determining material requirements take into account reserves of approx. 10 % for waste, etc. Allow approx. 15 % extra fasteners.

Substructure Wood posts: Solid wood (soft wood) as per DIN EN 14081-I 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 D 22 (09.014) 625 mm (= 1.250 mm/2), D 16 (09.015) 312.5 mm (= 1.250 mm/4).

Grid ceilings and roof pitches: Axles dimension distance max. 312.5 mm (= 1.250 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).

The moisture content of cladding substrates made of solid wood components, boarding, and wood-based panels must be checked due to the risk of drying deformation and subsequent damage to claddings and coatings.

Processing The boards are cut using a jigsaw or hand-held circular saw. The FESTOOL TSC 55 plunge-cut saw or the DSC-AG 125 Plus-FS diamond cutting system are particularly suitable; see also the video clip at www.youtube.com/watch?v=5FFMZ6PX7dY.

The clay side of the board must be plastered, not the jute side. The bottom row of the boards must be mounted with some spacing ("air gap") from the floor. The boards are butted on the substructure as tightly as possible. Cross joints and the continuation of wall opening edges through horizontal or vertical joints are not permitted. Installation is carried out with staggered joints, offset by one stud spacing. Connections to other building elements such as solid walls and ceilings must be made with joints.

Screws: Mounting on wood with Lemix clay building board screws 5 x 60 mm or TN drywall screws with coarse thread. On the metal C-Profile with TN drywall screws with fine double-thread, on UA profile with TB drywall screws and countersunk washer. Screwing distance ≤ 200 mm, i.e. 4 mounting points are required for each board/ substructure crossing (wall 12 or 20, ceiling 20 screws / board). Countersink the screws slightly (flush with the board surface).

Staples: Mounting on wood with 45 mm staples, e.g. Haubold Art. No. 574941 KG 745 Cnk resined 12 μ m (ETA). Staple spacing $\leq 80 - 100$ mm. The staples must be driven flush with the surface; they must not be countersunk.

Wall cladding (full-surface): Generally fasten with staples. On solid wood, use the staple length specified above; on wood-based panels, use staples as long as possible without penetrating through the panels. Staples, e.g., Haubold KG 700 series (ETA-approved). Staple spacing approx. 150 mm, edge distance 25 mm (measured from the center of the staple). On walls made of flat mineral-based materials, bond in a thin layer using clay adhesive and reinforcing mortar (ClayTec 13.555); additionally secure with hammer-in anchors with plastic disc washers at the edges and across the surface at 300 mm intervals, with an embedment depth into the substrate of ≥ 30 mm.

Further treatment The room temperature should not fall below +10 °C during joint and coating work. In general, moisture penetration through the plaster should be kept as low as possible. Use ClayTec clay joint filler to seal the wall-mounted board joints. Carefully remove dust from the boards before applying mortar.

Fill joints ≥ 1 mm wide to their full depth using ClayTec clay adhesive and reinforcing mortar. Close screw or staple holes and any surface imperfections. Even out noticeable thickness variations at the joints. If necessary, lightly moisten the surface (using a fine mist spray) and allow each work step to dry thoroughly before proceeding.

Thin-layer coating: After drying, apply a thin coating (approx. 3 mm) of ClayTec adhesive and reinforcing mortar. While the surface is still wet, embed glass fiber mesh I12 flat into the plaster. After drying, apply YOSIMA clay design plaster professionally with a felted surface (smoothed finish by arrangement if necessary). Alternatively, the reinforcement layer can be prepared for painting (wet-on-wet, layer thickness = 1 mm), or once dry, it can be covered with ClayTec clay topcoat fine 06 or Clay filling and smoothing putty (Q3). Finish with ClayTec clay paint ready-to-use or the ClayFix clay paint system.

Wall surface heating: Pre-spray up to a maximum of 8 mm using clay base plaster with straw, Clay Plaster Mineral 20, or SanReMo clay plaster. After drying, level the surface up to the pipe connectors of the wall heating system. The entire base coat must dry with the support of heating. For further details, refer to the ClayTec data-sheet Clay Plaster.

Familiarity with **ClayTec guidelines for „Low-emission drywall systems“** is mandatory for the handling the product.

Claims for compensation that do not result from factory mixing errors are excluded. Subject to change and errors excepted. As of 2026/08