Product sheet

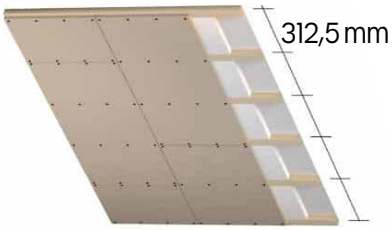
Clayboard light D22 / D14

Item No. 09.016 thickness = 22 mm
Item No. 09.017 thickness = 14 mm, L = 1,250 mm, W = 1,000 mm

- **Pleasantly lightweight and easy to handle**
- **Dimensionally stable**

View of Wall

View of Sloping Roof



Clay drywall board for cladding wood and metal stud constructions of interior walls, facing shells, ceilings, and roof surfaces. The lightweight clayboard brings a large amount of clay into the building, with all the positive effects for the indoor climate, especially in thermal terms. It can be cut with a hand-held circular saw.
Clayboard D22 allows a wide drywall substructure grid of 625 mm for wall applications. In addition to this product sheet, the **ClayTec guidelines for ecological drywalls in the system apply.**

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Product data and application see reverse

Product sheet

ClayTec®
Clay at its best.

Clayboard light D22 / D14

Item No. 09.016 thickness = 22 mm
Item No. 09.017 thickness = 14 mm, L = 1,250 mm, W = 1,000 mm

Area of application Clayboards for cladding wood and metal stud constructions indoors. For interior walls and facing shells, as well as for ceilings and roof surfaces. Suitable for surfaces of water exposure class W0-I according to DIN 18534-1, e.g. bathrooms (except shower areas) and domestic kitchens.
For full-surface cladding of solid wood components, boarding, and wood-based panels. With reinforcement layer, substrate for YOSIMA clay design plaster or ClayTec clay topcoat fine 06 with ClayTec ready-to-use clay paint or the ClayFix clay coating system.

Composition Clay, hemp, sand, jute fabric (on both sides).

Characteristic values D22 / D14 surface hardness: 23 / 22 mm, Bending tensile strength: > 1.49 / 1.05 N/mm², Surface tensile strength: > 0.10 N/mm²,
Bulk density class: 0.7, Bulk density: approx. 650–700 kg/m³, Thermal conductivity: approx. 0.21 W/m·K, Water vapor diffusion resistance factor (μ): 5/10, Water vapor adsorption class: WS III. Heat storage capacity: Cp: 1.4 kJ/kg·K, D22 = 21.6 kJ/m²·K, D14 = 13.7 kJ/m²·K. Building material class: B1 (DIN 4102-1), B1-s1 d0 (DIN EN 13501-1).

Component values D22: Fire resistance up to EI60, Airborne sound insulation up to Rw 49 dB

Dimensions and weights Dimensional stability class MHK I, Width = 1,250 mm (±2 mm), Length = 1,000 mm (±2 mm), Thickness = 22 mm / 14 mm (+1 mm) Flatness: 1 mm.
D22: approx. 19 kg/board = approx. 15 kg/m²
D14: approx. 12 kg/board = approx. 10 kg/m²

Delivery form Shrink-wrapped on pallets, 09.016 thickness 22 mm – 64 pcs/pallet, 09.017 thickness 14 mm – 80 pcs/pallet.

Storage Store flat on pallets in dry indoor conditions. Storage time is unlimited. Protect from moisture during transport and storage on the construction site. On site, store flat and level on dry pallets or wooden supports.

Humidity Moisture exposure from wet-applied plasters or screeds is not permitted. In general, relative humidity during storage and after installation must not exceed 70 %.

Material requirements Approx. 0.8 panels/m². When calculating the required quantity, include a reserve of approx. 10 % for cutting waste.

Substructure **Wood studs:** Solid wood (softwood) according to DIN EN 14081-1 or glued laminated timber (BSH) according to DIN EN 14080.
Strength class min. C24 according to DIN EN 338. Sorting class S10 according to DIN 4074. Moisture content max. 18 %.
Metal studs: Sheet steel profiles according to DIN 18182-1 / DIN EN 14195.
Walls: Stud center spacing D22 (09.016) 625 mm (= 1,250 mm / 2), D14 (09.017) 312.5 mm (= 1,250 mm / 4).
Ceilings and roof slopes: Stud center spacing D22 (09.016), D14 (09.017) 312.5 mm (= 1,250 mm / 4).
Perimeter substructure members are backed with ClayTec drywall tape and installed according to accepted rules of construction practice.
Boards are installed at a 90° angle to the substructure. Direct fastening to load-bearing components (e.g. wood studs, ceiling joists, rafters) is strongly discouraged.
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 Boards are cut using a jigsaw or hand-held circular saw. Particularly suitable tools include the FESTOOL plunge saw TSC 55 or the diamond cutting system DSC-AG 125 Plus-FS (see video: www.youtube.com/watch?v=5FFMZ6PX7dY). One side of the board is smooth, the other side slightly rough and lightly ribbed. Both sides can be plastered; however, for a uniform appearance the same board side should be used consistently within one surface, room, or project. The smooth side is particularly suitable for thin-layer or smooth surface finishes.

The bottom row of boards must be installed with a small gap ("air gap") to the floor. Boards should be butted tightly together on the substructure with minimal joint width. Cross joints and the continuation of wall opening edges through horizontal or vertical joints are not permitted. Boards must be installed with staggered joints offset by one stud spacing. Connections to other building components such as solid walls and ceilings must be executed with joints.

Screws: Fastening to wood: ClayTec clayboard screws 5 × 50 mm or TN drywall screws with coarse thread.
Fastening to metal C-profiles: TN drywall screws with fine double thread. Fastening to UA profiles: TB drywall screws with countersunk washer.
Screw spacing ≤ 200 mm. At each board/substructure intersection, 6 fastening points are required.
Substructure spacing 625 mm: 18 screws per board (15 per m²). Substructure spacing 312.5 mm: 30 screws per board (24 per m²). Countersink screws slightly (flush with the board surface).

Staples: Fastening to wood using 45 mm staples, e.g. Haubold item no. 574941 KG 745 Cnk resin-coated 12 μm (ETA approved). Staple spacing ≤ 80 mm.
Staples must be driven flush with the board surface and must not be countersunk.

Further treatment For joint and coating work, the room temperature must not fall below +10 °C. Basically, the moisture entry through the plaster must be kept as low as possible. The panel joint around the wall is filled with ClayTec clay joint filler. Carefully dust the panels before applying the mortar.
Gaps ≥ 1 mm wide to the full cross-sectional depth with clay adhesive and reinforcing mortar. Close screw or staple holes and any imperfections. Even out any significant differences in thickness at the joints. If necessary, lightly moisten (spray mist) and allow to dry between steps.

Thin layer coating: After drying, apply a 3 mm thick coat of ClayTec clay adhesive and reinforcing mortar. While still wet, embed ClayTec Glass Mesh 112 across the entire surface. After drying, apply the YOSIMA clay design plaster professionally with a felted surface (smoothed finish by arrangement if necessary).
Alternatively, execute the reinforcement layer ready for paint application (fresh-on-fresh coating, approx. 1 mm). Once dry, the surface may also be finished 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 coating system.

Claims for compensation that do not result from factory mixing errors are excluded. Subject to change and errors excepted. As of 2026/05.