Product sheet

CLAYTEC®
Building with Clay

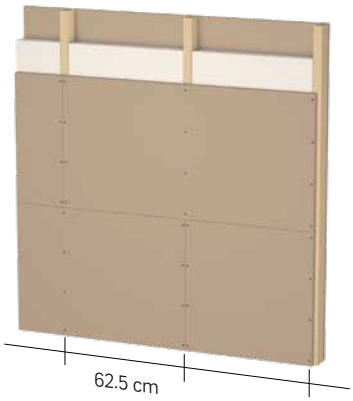
Clayboard heavy (LEMIX) D 22 / D 16

Item No. 09.014, 09.015

09.014 thickness = 22 mm, 09.015 thickness = 16 mm, DIN 18948,
L= 1.250 mm, W= 625 mm

- **Pure clay mass**
- **Heavy-weight**

natureplus®
No. 1006-1711-148-1



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 ecological drywalls in system apply.**

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Product data and application see reverse

Clayboard heavy (LEMIX) 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

Clayboard (LP), (A), (B) - DIN 18948 - MHK II - 1.6 - 22 / 16

Scope of application Clayboards 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. For full-surface cladding of wood and chip boards. With reinforcing layer, substrate for YOSIMA clay designer plaster or CLAYTEC clay topcoat fine 06 with CLAYFIX clay paint.

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 0.353 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. Construction material class A1.

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 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 of 40 pcs.

Storage In storage flat on palettes, 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 palettes/m². 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 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).

Processing The boards are cut using a jigsaw or hand-held circular saw. Besonders geeignet sind die FESTOOL Tauchsäge TSC 55 oder das Diamant Trennsystem DSC-AG 125 Plus-FS , siehe auch Clip auf www.youtube.com/watch?v=5FFMZ6PX7dY
Clean the clay side of the board and not the jute 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 Lemix clay building board screws 5 x 60 mm or FN 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 / 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 μm (ETA). Bracket spacing ≤ 80 - 100 mm.
Cross jointing and continuation of wall opening limits through horizontal or vertical joints is 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.
Wall (flat) cladding: On walls made of wood or wood materials, flat screw mounting, but in general bracket mounting with brackets 25 mm, e.g. Haubold bracket series KG 700 (ETA approval.) with brackets as above. Bracket spacing approx. 15 cm, edge spacing 25 mm. On walls made of even mineral materials CLAYEC thin layer adhesive with clay adhesive and reinforcing mortar (CLAYEC 13.550), additional dowelling on the edge and in the surfaces every 30 cm per knock-in dowel with plastic plate disc, penetration depth in the substrate ≥ 30 mm.

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 ≥ 1 mm wide with CLATEC 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 topcoat fine 06 or clay adhesive and reinforcing mortar.
In the surfaces that are still wet glassfibre mesh 112 (CLAYTEC 35.011 or 35.014) flat.
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 ≥ 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.

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

For instructions on working with this product see:

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