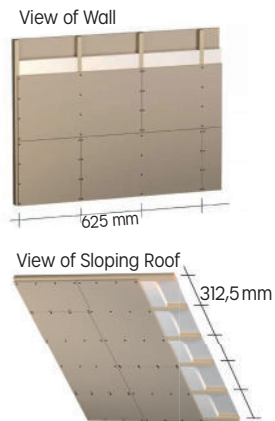


ClayTec Clay Building Board D22 solar

Art. 09.100

- **100% CO₂ neutral production**
- **Solar dried**
- **Natural building materials combined**
- **Medium weight**
- **Stabilized with miscanthus fibers**



The ClayTec Clay Building Board D22 **solar** is produced 100% CO₂-neutral and dried using modern solar technology. This drywall board made of clay and miscanthus fibers is used for cladding wood and metal frame constructions of interior walls, facing shells, ceilings, and roof surfaces.

The ClayTec Clay Building Board D22 solar serves both as a drywall board and clay plaster. With a bulk density of 900 kg/m³, it offers a significant mass of clay while being easy to process. **For the reinforcing layer of all drywall boards, clay adhesive and reinforcing mortar are suitable.**



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Changes and errors excepted. Current version at [claytec.com](https://www.claytec.com)

Product data and application see reverse

 **ClayTec**[®]

GERMANY
ClayTec GmbH & Co. KG
Nettetalter Straße 113-117
D-41751 Viersen-Boisheim
+49 (0)2153 918-0
service@claytec.com

For technical consulting,
service teams and sales see
[claytec.com](https://www.claytec.com)

2024/4

ClayTec clay building board D22 solar

Art. 09.100

Area of application Clay building board for cladding wooden and metal post constructions indoors. For interior walls and facing shells. On surfaces of water impact class W0-I according to DIN 18534-1, e.g. B. in bathrooms (except shower areas) and domestic kitchens. With reinforcing layer substrate for YOSIMA clay design plaster or ClayTec clay top plaster fine 06 with ClayFix clay paint.

Composition Building clay, miscanthus fibers, starch (approx. 0.2%). Paper (single-sided back).

Manufacturing Processing and shaping process with green electricity, drying exclusively by solar power.

Characteristics Bulk density approx. 900 kg/m³, thermal conductivity 0.30 W/mK, μ 18. Heat storage: Cp 1.1 kJ/kgK, D22= 21.8 kJ/m²K

mass and weight D=approx. 22 mm, L = 1,250 mm, W = 625 mm. Area per panel approx. 0.78 m². Mass approx. 15.5 kg/panel = approx. 19.8 kg/m²

Delivery form Sealed on pallets of 50 pieces each

Storage Lying on pallets in the warehouse, dry. Storage is possible indefinitely. Protect from moisture during transport and storage on the construction site. Carry it upright, we recommend the ClayTec transport aid 182/400. Lying on the construction site and stored flat on dry pallets or pieces of wood.

Humidity Moisture stress from wet installed plasters and screeds is not permitted. In general, the relative humidity during storage and after installation must not exceed 70%.

Material requirements Approx. 1.28 panels/m². When determining the material requirements, a reserve of approx. 10% for waste etc. must be taken into account.

Substructure Wooden stand: Solid wood (softwood) according to DIN EN 14081-1 or glued laminated timber (BSH) according to DIN EN 14080. Strength class at least C24 according to DIN EN 338. Sorting class S10 according to DIN 4074. Moisture content max. 18%. Metal stand: Sheet steel profiles according to DIN 18182-1 / DIN EN 14195.

Grid walls: Distance between axes 625 mm (= 1,250 mm/2).

Grid ceilings and sloping roofs: Distance between axis dimensions max. 312.5 mm (= 1,250 mm/4).

The wall-encircling UK links are backed with ClayTec drywall tape and fastened according to the rules of technology. When it comes to the stud structure, it must be taken into account that the panels are attached at an angle of 90° to the substructure. If, in exceptional cases, they are laid parallel to the substructure, the distance between the substructure may not exceed 312.5 mm (= 625 mm/2). We strongly advise against direct attachment to load-bearing components (e.g. rafters, ceiling beams).

Processing The panels are cut with a jigsaw or a hand-held circular saw. The FESTOOL diamond cutting system is particularly suitable DSC-AG 125 Plus-FS, see also clip on claytec.link/Lehmtrockenbau

The clay side of the board should be plastered, not the paper side. The lowest row of panels is installed with some distance ("air") from the floor. The panels are fitted onto the substructure as seamlessly as possible.

Screws: Fastening to wood with ClayTec clay building board screws 5 x 50 mm or FN drywall screws with coarse thread. On metal C profile with FN drywall screws with fine double thread, on UA profile with TB drywall screw and countersunk washer. Screw spacing \leq 200 mm, i.e. 4 fastening points are required per plate/substructure intersection (wall 16, ceiling 20 screws/plate). Countersink the screws slightly (flush with the plate).

Clamps: Fastening to wood with 45 mm clamps, e.g. B. haubold item no. 574941 KG 745 Cnk resinated 12 μ m (ETA). Clamp spacing \leq 80 mm.

Cross joints and the continuation of wall opening boundaries through horizontal or vertical joints are not permitted. The assembly is carried out with joints offset by a stand center distance. Make connections to other components such as solid walls and ceilings with joints.

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 surrounding the wall is closed with ClayTec clay joint filler. Before applying the mortar, carefully remove dust from the panels and, if necessary, pre-wet them slightly (spray mist).

Thin layer coating: Fill the gaps at the board joint \geq 1 mm wide with ClayTec clay adhesive and reinforcing mortar or clay finishing plaster, close screw recesses and missing areas, allow to dry. The surfaces are covered with a 3 mm thick clay adhesive and reinforcing mortar. It can also be sprayed on with a plastering machine; rest periods are not necessary for this application. ClayTec glass fabric 112 is worked into the surface while it is still wet. After drying, apply YOSIMA clay design plaster professionally. For the YOSIMA clay paint filler system or the ClayFix clay paint system, the fabric of the reinforcement layer is thinly covered wet on wet.

Wall surface heating: Close gaps \geq 1 mm wide as before. Pre-spray up to max. 8 mm with clay base plaster, straw, clay plaster mineral or SanReMo. After drying, fill up to the top of the wall heating pipe. Drying of the entire concealed plaster with heating support. For more information, see the ClayTec clay plaster worksheet.

Notice The proof and declaration according to DIN 18948 "Clay panels - requirements, testing and labeling" will be available shortly.