

CLAYTEC HFA maxi

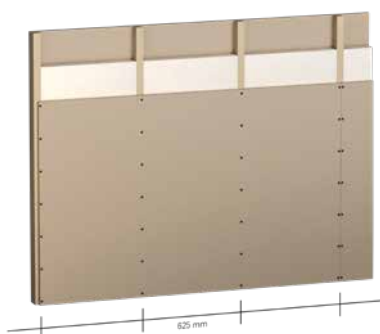
Item No. 09.226

Thickness= 25 mm, L= 1.875 mm, W= 1.250 mm, abutted

- Ecological wood fibreboard (HFA)
- Lightweight
- Large format for professionals



View wall



View roof slope



Wood fibreboard (HFA) for cladding of wood and metal post structures of inner walls, facing shells, ceiling and roof surfaces. CLAYTEC HFA maxi boards are light and breathable. The large format of 125 x 187.5 cm ensures efficient working, it is designed to fit the 62.5 cm drywall grid. Thanks to the reasonably priced large building boards the ecological drywall is affordable for everyone! As supplement to this product sheet the **CLAYTEC Guidelines for ecological drywalls in system apply.**



CLAYTEC HFA maxi

Item. No. 09.226 thickness= 25 mm, L= 1.870 mm, W= 1.250 mm

Scope of application Wood fibreboard (HFA) 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 YOSIM clay design plaster or CLAYTEC clay finish plaster fine 06 with CLAYFIX clay finish as well as other CLAYTEC clay plaster.

Composition Wood fibres made from wood from responsibly managed forests, white glue for layer bonding.

Parameters Compressive strength ≥ 150 kPa. Bulk density approx. 250 kg/m^3 . Thermal conductivity value 0.05 W/mK , $\mu 5$. Heat storage: $C_p 2.1 \text{ kJ/kgK}$, $13.1 \text{ kJ/m}^2\text{K}$. Fire behaviour according to DIN EN 13501-1: E

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 Thickness= 25 mm, L= 1.875 mm, W= 1.250 mm. Surface per board = 2.34 m^2 . Mass of approx. 14.6 kg/board = approx. 6.25 kg/m^2 .

Delivery form Shrink-wrapped on pallets of 45 pcs.

Storage In storage flat on pallets, dry. Storage is unlimited. Protect against moisture during transport and storage on construction site. On the construction site, store flat and even on dry pallets or wood. Protect edges against damages.

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 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 625 mm (= $1.875 \text{ mm}/3$ or $1.250 \text{ mm}/2$).

Grid ceilings and roof pitches: Axles dimension distance 417 mm (ca. $1.250 \text{ mm}/3$) oder 469 mm (ca. $1.875 \text{ mm}/4$)

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° . We strongly advise against mounting directly on the load bearing components (e.g. Rafters, ceiling beams).

Processing The boards can be cut, among others, with Jigsaw or hand-held circular saw, see also the clip on www.youtube.com/watch?v=5FFMZ6PX7dY. When cutting board strips of less than 3 cm wide, the bonded layers might separate.

Plaster the side not printed with product designation. The bottom row of the boards must be mounted with some spacing to ("Air") the floor. They can be mounted vertically or horizontally. The boards must be butted to the substructure as tightly as possible.

Screws: Mounting on wood with CLAYTEC clay building board screws $5 \times 50 \text{ mm}$ 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 $\leq 200 \text{ mm}$, i.e. 4 mounting points are required for each board/substructure crossing. 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 $12 \mu\text{m}$ (ETA). Bracket spacing $\leq 65 \text{ mm}$.

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 $+10^\circ \text{ C}$ 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 mortar application.

Thin-layer coating: Finely and deeply fill gaps at board joint at $\geq 1 \text{ mm}$ 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 CLAYFIX clay coating system the fabric of the reinforcing layer is covered wet-on-wet.

Thick-layer coating: Close gap $\geq 1 \text{ mm}$ wide as before. The surfaces are pretreated with RED primer. Apply clay undercoat plaster with straw, clay plaster MINERAL 20 or clay plaster SanReMo on wall surfaces in a layer thickness of max. 8 mm and max. 5 mm on ceiling or roof pitch surfaces. Glass or flax fabric is worked into the still wet surface. Allow to dry. Total plaster thickness for the wall max. 15 mm, ceiling or roof pitches max. 10 mm (each at least in two layers).

Wall surface heating: Close gap $\geq 1 \text{ mm}$ wide as before. Prepare the surfaces with RED primer or with notched trowel made of clay adhesive and reinforcing mortar. Allow to dry. Pre-spray up to max. 8 mm with clay plaster mortar mentioned above. 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:

