CLAY BOARD

Material description
Clay Building Boards are drywall panels perfectly suited for the entire spectrum of interior construction works. They are suited for interior walls, wall facings, lightweight partition walls, paneling of timber post-and-beam structures, ceilings, and roof-slope coverings. They are equally suited for new building projects and for the refurbishment of existing buildings, as well as for projects involving the preservation of historical monuments.

Healthier living

- made of natural raw materials
- stores heat in winter, protects from heat in summer
- ensures perfect regulation of the room temperature and a comfortable indoor climate
- regulates the air humidity and therefore protects against mold
- allows water vapor to permeate and is therefore also suitable for wet rooms in residential buildings
- neutralizes air pollutants
- absorbs odors
- provides particularly good sound insulation due to its high bulk density
- non-flammable
- does not release any harmful gases
- is sustainable as it is compostable and 100% recyclable

Simple planning and building

- the latest generation of clay panels
- is the ideal dry construction solution for interior construction in timber and masonry houses and for the renovation (also of listed half-timbered houses, for example)
- offers creative freedom to planners and architects
- is manufactured in automated plants, in primary energy- and resource-saving way
- has high mechanical strength due to jute fabric backing
- provides high dimensional accuracy and improved edge formation
- ensures shorter assembly times by reducing the need for complex leveling layers or delicate bonding points

The oldest building material in the world in its most modern form

Clay is a gift of nature. For thousands of years, people have used clay for healthy construction techniques - until it was almost completely replaced by industrial building materials.

With clay boards, the advantages of clay as a building material are introduced to drywall construction as a lightweight and fast construction method for the 21st century. With the precision and quality of the first industrially produced clay panel, they can be used in the same way as conventional plasterboard.

Clay boards are ecological, perfectly suitable for biological building, and compostable.

Board dimensions
Nominal length l: 1250 mm
Nominal width w: 625 mm
Nominal thickness t: 16/22 mm

Dimension tolerances
MHK II
Permissible Deviations:
Nominal length l: ± 4 mm
Nominal thickness t: + 1/ - 3 mm
Nominal width w: ± 4 mm
Evenness e: 3 mm

See the next page for the material data.

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	Performance		Specification
Reinforcement	Natural, untreated wood fibre Surface reinforcement: jute		DIN 18948:12-2018
Stabilising admixture	Starch		DIN 18948:12-2018
Size per board	0,781 m^2		
Board thickness	16 mm	22 mm	
Board weight (per unit)	ca. 18 kg	ca. 25 kg	
Board weight (per m^2)	ca. 23 kg	ca. 32 kg	
Pallet contents (per unit)	60	40	
Pallet contents (per m^2)	46,9	31,2	
Article code	17 000 2016	17 000 2022	
Bulk density class	1,6		DIN 18948:12-2018
Bulk density	ca. 1450 kg/m^3		
Surface hardness	≤ 15 mm board with increased surface hardness		DIN 18948:12-2018
Flexural strength	≥ 1,2 N/mm^2		DIN 18948:12-2018
Surface tensil strength	≥ 0,1 N/mm^2		DIN 18948:12-2018
Vapor diffusion resistance factor	m = 5/10		DIN 18948:12-2018
Thermal conductivity	^{2}A = 0,353 W/mK		DIN 18948:12-2018
Specific thermal capacity	C_p ca. 1100 J/kgK		DIN 18948:12-2018
Site related thermal capacity	16 mm 25,3 kJ/Km^2	22 mm 35,2 kJ/Km^2	
Vapor sorption class	WS III After 1 hour: ≥ 13 g/ m^2 After 6 hours: ≥ 40 g/ m^2 After 12 hours: ≥ 60 g/ m^2		DIN 18948:12-2018
Building material class	A1 (non-inflammable)		DIN EN 13501-1:2010-01
Fire resistance (planked on both sides)	EI45: Partition wall consisting of wooden post-and- beam structure 60 x 60 mm, with wood fibre insulation 60 mm and boards of 22 mm		DIN EN 13501-1:2010-02
	EI90: Partition wall consisting of wooden post-and- beam structure 60 x 80 mm, with wood fibre insulation 80 mm and boards of 22 mm		
	EI120: Partition wall consisting of wooden post-and- beam structure 60 x 80 mm, with wood fibre insulation 80 mm and double-layered boards of 16 mm		
Fire resistance (planked on one side)	F30: double-layered boards of 16 mm		MFPA Leipzig GS 3.2/18-282-1
Evaluated Sound Insulation Factor	R_W 52 dB: Partition wall consisting of wooden post- and-beam structure 60 x 80 mm, with wood fibre insulation 80 mm and boards of 22 mm		DIN EN ISO 10140-2:2010-12
	R_W 56 dB: Partition wall consisting of wooden post- and-beam structure 60 x 80mm, with wood fibre insulation 80 mm and double-layered boards of 16 mm		
Seal of quality	natureplus®		
Quality Control	In-plant production control		DIN 18942-100:12-2018