

ETERBOARD HD

Product Information Leaflet¹

1. Product composition

ETERBOARD HD sheets consist of the following:

- Portland cement
- Mineral fillers
- Natural organic reinforcing fibers
- Additives

1. Production method

ETERBOARD HD sheets are manufactured on a Hatschek machine and are compressed and autoclaved.

2. Dimensions and tolerances

Standard thicknesses: 6, 8, 10, 15, 18 and 20 mm

Untrimmed	Trimmed
1240 x 2520 mm	1220 x 2500 mm
1240 x 3070 mm	1220 x 3050 mm

	Untrimmed	After cutting
Thickness	+/- 10%	+/- 10%
Length and width	+/- 5.0 mm	+/- 1.5 mm and +/- 1.0 mm if L x W < 1 x 1 m
Squareness	2.5 mm/m	1.0 mm/m

4. Weight

Thickness (mm)	Weight (kg/m ²)	1220 x 2500 mm (kg/sheet)	1220 x 3050 mm (kg/sheet)
6	11,52	35,14	42,87
8	15,36	46,85	57,16
10	19,20	58,56	71,45
15	28,80	87,84	107,17
18	34,56	105,41	128,60
20	38,40	117,12	142,89

The specified weight is the weight, considering an average humidity content of the sheet.

¹ This product information leaflet replaces any previous editions. EURO PANELS OVERSEAS reserves the right to amend this information leaflet without prior notice. Readers should always make sure to consult the most recent version of this document.

5. Technical properties (average values)

Density		: 1580 kg/m ³
Bending strength ² (air dry)	//	: 33.0 N/mm ²
	⊥	: 23.0 N/mm ²
Modulus of elasticity	//	: 15000 N/mm ²
	⊥	: 13000 N/mm ²
Maximum water absorption		: 23 %
Moisture movement (30-90%, mean)		: 0.5 mm/m
Thermal expansion coefficient		: 15*10 ⁻⁶ m/mK
Thermal conductivity coefficient		: 0.36 W/mK
Water vapor diffusion resistance number		: 250
Frost resistance		: frost resistant
Reaction to fire according to EN 13501-1		: A2

ETERBOARD HD meets the requirements of the European Norm EN 12467 and is CE-marked.

6. Advantages

- No spread of fire, no fume development, no fire ignition
- Resistant to high temperatures
- Water resistant
- Resistant to fungus, bacteria, insects, vermin, etc.
- Resistant to many chemicals
- Environmentally friendly, no harmful gas emissions
- Frost resistant
- High dimensional stability
- Strong and rigid sheet

7. Applications (not exhaustive)³ (see also application guidelines for certain applications)

ETERBOARD HD is used as a general building board:

- Backerboard
- Flooring
- Industrial partitions etc.
- Various types of agricultural applications

² A safety factor should be applied whenever permissible loads are calculated.

³ The applications for ETERBOARD HD sheets set out in this document are for illustration only. If in any doubt regarding the suitability of ETERBOARD HD sheets in any given application, it is advisable to request recommendations from EURO PANELS OVERSEAS. Under no circumstances can EURO PANELS OVERSEAS be held liable for applications which have not been approved by EURO PANELS OVERSEAS.

8. Working guidelines (see also working guidelines EURO PANELS OVERSEAS flat sheets)

Cutting:

- Stationary saw, slow rotation with tungsten carbide-tipped blade or fast rotation with diamond cutting blade without teeth
- Hand circular saw (with rail), slow rotation with tungsten carbide-tipped blade or fast rotation with diamond cutting blade without teeth

Edge finish:

- A milling cutter
- Fine emery cloth or sanding block
- Tungsten carbide tipped plane

Drilling:

- For holes: tungsten carbide-tipped drill bit (or complete drill in tungsten carbide) with a 60° nose angle. Drilling without hammer!!
- For circular openings: hole saw or circular cutter, tungsten carbide-tipped.

The sheet should be supported around the hole to be drilled (e.g. by a wooden board).

! Cutting and drilling must take place in a dry environment. For decorative applications, all dust must be removed immediately from the sheet with a dry towel to avoid permanent stains.

Fixing accessories:

Copper accessories should not be used for fixing ETERBOARD HD. The material of the fixing accessories (e.g. stainless steel, galvanized steel, phosphated steel) is chosen dependent on the application and the environment.

1) Screwing:

Screws with mushroom head.

The holes in the ETERBOARD HD sheets need to be pre-drilled

2) Nailing:

Nails with flat head

The ETERBOARD HD sheets must be pre-drilled when fixing with nails. Copper nails should not be used.

Coating:

In case of surface finishing, alkali resistant paint should be used e.g. acrylic paint. Please consult your paint supplier for further details.

Health and safety aspects:

While the sheets are being processed, dust can be released which can irritate airways and eyes. It is recommended that a dust mask and safety goggles be worn. Appropriate dust extraction or proper ventilation should be used depending on the room in which the work is being carried out or the equipment being used. Long-term exposure to dust can be harmful to health.

9. Handling (see also working guidelines EURO PANELS OVERSEAS flat sheets)

The sheets are packed on pallets. They must be kept dry during transport. The sheets must be horizontally stacked on a flat surface. The sheets must always be sufficiently supported so that they do not sag. The sheets must be stored in a dry ventilated space. If the sheets are stored outside, they must always be protected against rain by a tarpaulin or plastic sheet. A sheet must always be lifted from a stack by two people and then be carried on edge.

10. Guarantee

The guarantee and the guarantee conditions are available on request from EURO PANELS



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