BY HTP GLOBAL

Hardboard
Type: Hydro H1 (HB.H)

Trademark and type of board: Hardboard Hydro H1 (HB.H)
Mix of species: > 90% Eucalyptus Spp; the rest other hardwood: quercus robur, quercus pyrenaica, castanea sativa, Betula spp, Fraxinus spp, Alnus glutinosa, Salix spp, acacia dealbata, acacia melanoxylon.
Wood origin: Spain, more than 99% from Galicia.

Description

HYDRO H1 is a high-density wood fibreboard with a smooth side and a rough side, which has improved moisture resistance properties, making it more water-repellent than other types of hardboards, while maintaining excellent mechanical strength. This improves its performance in wet conditions, extending the life of the hardboard.

Because of its high density and strength, Hydro H1 is a board for non-structural use, recommended for use in a humid environments **(HB.H)**, and more suitable for special construction applications such as roof underlays, floors or ceilings, protective structures, doors and signs,where the moisture factor is decisive for its durability.

Specifications

Properties	Reference Test	Units	Thickness (mm)		
			3,2	4,8 - 5,4	6 - 6,4
Thickness	EN 324-1	mm	± 0,30	± 0,50	± 0,70
Length and Width	EN 324-1	mm/m	± 2 (5mm máx.)	± 2 (5mm máx.)	± 2 (5mm máx.)
Squareness	EN 324-2	mm/m	≤ 2	≤ 2	≤ 2
Density*	EN 323	Kg/m^3	≥ 940	≥ 975	≥ 1000
Moisture Content	EN 322	%	4-9	4-9	4-9
Swelling in Thickness 24 h	EN 317	%	≤ 25	≤ 20	≤ 20
Internal tensile strength after boiling test	EN 310	N/mm^2	≥ 0,30	≥ 0,30	≥ 0,25
Tensile Strength	EN 319	N/mm^2	≥ 0,60	≥ 0,60	≥ 0,60
Flexural Strength	EN 310	N/mm^2	≥ 35	≥ 32	≥ 30

(*) Characteristic value. Values based on Standard **EN 622-2** and **EN 13986**.
Note: The dimensional characteristics may change according to the time and storage conditions.

Formaldehyde content

No added artificial resins are used in the manufacture of the **Hydro H1** board, as the fibres are bonded with lignin, a natural wood adhesive, making it a **single-component material**, and therefore easily recoverable and durable. For this reason, the formaldehyde emission levels of these boards are similar to those of natural wood.

Handling and storage

Avoid inhaling the wood dust generated during its handling and processing. Use appropriate PPE according to current legislation. The boards should be stored on a flat surface, avoiding direct contact with the ground and water, maintaining the distances between battens supplied in the packaging to avoid bending and deformations. Sudden changes in these conditions may affect the properties of the board.

Product available with CE marking in accordance with European Standard EN 13986 and manufactured in EN ISO 9001, ISO 14001, ISO 45001 and ISO 50001 certified facilities. PEFC and FSC certificates upon request.

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