## **IBS Hardboard Tempered**



### TECHNICAL INFORMATION SHEET NOVEMBER 2024

IBS Hardboard Tempered Technical Data Sheet							
General Properties							
Characteristic	Test Method	Unit	Thickness (mm)				
			3.2	4.8	6.4		
Density	EN 323	Kg/m <sup>3</sup>	≥940	≥975	≥975		
Thickness	EN 324-1	mm	± 0.3	±0.5	± 0.5		
Length and Width	EN 324-1	mm / m	±1	± 1	±1		
Squareness	EN 324-2	mm / m	≤1	≤1	≤2		
Moisture Content	EN 322	%	5-9 %	5-9 %	5-9 %		

Note: \* Density Range for Hardboard has a Minimum of 940kg/m3 and and is not greater than 1100 kg / m3

\* The dimensional characteristics may change according to the time and storage conditions

Physical and Mechanical Properties							
Characteristic	Test Method	Unit	Thickness (mm)				
			3.2	4.8	6.4		
Bending Strength	EN 310	N/mm2	≥ 35	≥42	≥ 43		
Internal Tensile Strength (Bond)	EN 319	N/mm2	≥1,0	≥1,3	≥1,4		
Water absorption 24 h	EN 317	%	≤25	≤ 20	≤ 18		
Swelling in Thickness 24h	EN 317	%	≤20	≤16	≤ 12		
Surface Absorption	EN 382-2	g/m²	< 100	< 100	< 100		

Note: Values based on Standard EN 622-2: Fibreboards - Specifications - Part 2: Requirements for hardboard. Type HB.

Wood Raw Material				
Type of board	Hardboard (HB)			
Type of Wood	Round Wood			
Mix of Species	Eucalyptus Globulus more than 90%, rest other leafy wood.			
Wood Origian	Spain, more than 99% Galicia, rest from Asturias			



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#### FORMALDEHYDE CONTENT

In the production of hard fiberboard, no formaldehyde-based adhesives are utilized. The bonding of fiber particles is achieved through the inherent lignin present in the wood. Consequently, the emission levels of free formaldehyde from these boards are comparable to those of natural wood.

#### **REACTION TO FIRE**

Hard fiberboard with a minimum density of 940 kg/m<sup>3</sup> and a minimum thickness of 6 mm is classified under the EN 13501-1 Standard for reaction to fire as D-s2,d0. \* \*Reference EN 13986.

#### STORAGE AND HANDLING

The board is recommended for use in dry environments, characterized by a temperature of 20°C and 65% relative humidity. Sudden changes in these conditions can affect the quality of the hardboards. Therefore, the hardboards should be stored on a flat surface, protected from humidity and temperature fluctuations. Any alterations in the original packaging should be corrected promptly.