

# CORE & TECHNICAL

Products

## MDF ST ECOBOARD

Non added formaldehyde medium density fiberboard for use in dry conditions

### DESCRIPTION

Sonae Arauco MDF ST ECOBOARD is a medium density fibreboard for interior use, suitable for furniture production and easy to mill. MDF ST ECOBOARD has very low formaldehyde emission, classified according to the rules of the official California Air Resources Board (CARB NAF) and compliant with limit of ChemVerbotsV (E05).

Regarding reaction to fire and according to EN 13986, MDF ST ECOBOARD, with a thickness  $\geq 9$  mm and a minimum density of 600 Kg/m<sup>3</sup>, is classified as D-s2, d0 (Euroclasses definition by EN 13501-1).

In addition to technical performance MDF ST ECOBOARD panels are sustainable and environmental friendly products.

**Please check offer & service brochure for information on sizes and thicknesses available.**

### APPLICATIONS

MDF ST ECOBOARD is a versatile material and can be used as the basic product for designers and manufacturers. Due to the wood fibers used in its production, the product presents a homogeneous surface, giving it a good dimensional stability and ability to be easily machined.

The density of the surface also gives the possibility of using a wide range of finishing techniques as lacquering, coating, veneering, foil wrapping and covering.

### PROPERTIES



VERSATILITY



EASY TO MILL



NO-ADDED  
FORMALDEHYDE



COMPLIANT WITH  
CHEMVERBOTSV



FURNITURE



KITCHENS



OFFICES &  
EDUCATION



RESTAURANTS &  
HOTELS



HEALTH & WELLNESS



RETAIL &  
EXHIBITIONS



KITCHENS



PANELING



CONSTRUCTIONS

### RECOMMENDATIONS

Boards must be stacked on a hard, level surface and protected from direct contact with water. Expansion and contraction in wood products is directly related to moisture content and must be considered during design and construction.

Wood based panels are biodegradable and can be recycled, follow local regulation for the disposal of residues.

[www.sonaearauco.com](http://www.sonaearauco.com)

TDS.03.53.SA.R03

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### GENERAL CHARACTERISTICS

PROPERTY	TEST	UNIT	THICKNESS RANGE (mm)				
			8 - 9	>9 - 12	>12 - 19	>19 - 30	>30 - 40
Tolerance on thickness	EN 324-1	mm	± 0,2	± 0,2	± 0,2	± 0,3	± 0,3
Tolerance on length and width	EN 324-1	mm/m	± 2	± 2	± 2	± 2	± 2
Edge straightness tolerance	EN 324-2	mm/m	≤ 1,5	≤ 1,5	≤ 1,5	≤ 1,5	≤ 1,5
Squareness tolerance	EN 324-2	mm/m	≤ 2	≤ 2	≤ 2	≤ 2	≤ 2
Tolerance on mean density	EN 323	%	± 7	± 7	± 7	± 7	± 7
Moisture content	EN 322	%	4 - 11	4 - 11	4 - 11	4 - 11	4 - 11

### TECHNICAL INFORMATION

PROPERTY	TEST	UNIT	THICKNESS RANGE (mm)				
			8 - 9	>9 - 12	>12 - 19	>19 - 30	>30 - 40
Density*	EN 323	Kg/m <sup>3</sup>	760	750	735	735	730
Bending strength	EN 310	N/mm <sup>2</sup>	≥ 28	≥ 26	≥ 24	≥ 24	≥ 22
Modulus of elasticity	EN 310	N/mm <sup>2</sup>	≥ 2800	≥ 2600	≥ 2400	≥ 2400	≥ 2200
Internal bond	EN 319	N/mm <sup>2</sup>	≥ 0,75	≥ 0,72	≥ 0,70	≥ 0,65	≥ 0,60
Thickness swelling 24 hours	EN 317	%	≤ 17	≤ 15	≤ 12	≤ 10	≤ 8
Formaldehyde emission class	CARB Phase 2 / EPA TSCA ChemVerbotsV E05						

\* Value to be used only as a reference

MDF ST ECOBOARD is produced with formaldehyde-free resin (NAF certified). The abbreviation NAF means „No-added formaldehyde“ and is a classification of CARB (California Air Resources Board). It is currently the most stringent standard for formaldehyde emissions in wood-based panels. Sonae Arauco MDF ST ECOBOARD is also compliant with US EPA TSCA TITLE VI.

MDF ST ECOBOARD meets the specification of EN 622-5, type MDF, and is CE marked. For more information regarding the technical properties, please check the product Declaration of Performance (DoP).

### CERTIFICATIONS

Please pay attention to certified products:



FSC® and PEFC -certified products are available on request and availability.

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**SONAE  
ARAUCO**  
Taking wood further