

## MDF FIRE X CARB2/EPA

Medium density fiberboard with improved fire behavior properties

### DESCRIPTION

Sonae Arauco MDF FIRE X CARB2/EPA is a medium density fibreboard for interior use, with improved fire reaction behaviour.

MDF FIRE X CARB2/EPA has low formaldehyde emission, certified according to the rules of the official California Air Resource Board (CARB).

Regarding reaction to fire and in accordance with EN13986, MDF FIRE X CARB2/EPA is classified as B-s2, d0 (Euroclass definition according to EN 13501-1) and it is recommended for use in sectors with strict regulations on the fire performance of the materials used.

The use of MDF FIRE X CARB2/EPA contributes to reduce the combustibility of an element, the spread of fire, the possible heat emissions after the combustion and to prevent or delay the spread of fire to neighbouring elements.

In addition to technical performance MDF FIRE X CARB2/EPA panels are sustainable and environmental friendly products.

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

### APPLICATIONS

FIRE X CARB2/EPA is suitable for public buildings or any space subject to specific fire safety regulations (shopping centres, hospitals, schools, showrooms & hotels). It can be used for covering of walls and ceilings, doors, stands and other interior applications.

Due to the wood fibres used in its production, the product has homogeneous faces. The density of the faces also allows the use of a wide range of finishing techniques - lacquering, melamine paper coating, wood veneer or finish foil. Fireproofed in the mass, the product maintains its behaviour of reaction to fire after cutting and machining.

### 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; FIRE X CARB2/EPA panels must be conditioned in the work environment for two to three days before being processed.

When choosing a coating system, it should be confirmed with the manufacturer that it will not adversely affect the Fire Reaction classification of the MDF panel.

Additives added during the production of this product, in exceptional cases, may interfere with certain types of adhesives and lacquers, therefore a test must be carried out before its application.

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

### PROPERTIES



VERSATILITY



FIRE RETARDANT



EPA TSCA TITLE VI &  
CARB 2 CERTIFIED



OFFICES &  
EDUCATION



SPORTS & LEISURE



RESTAURANTS &  
HOTELS



HEALTH &  
WELLNESS



RETAIL &  
EXHIBITIONS



DOORS



PANELING



CONSTRUCTION

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### GENERAL CHARACTERISTICS

PROPERTY	TEST	UNIT	THICKNESS RANGE (mm)		
			10 - 12	> 12 - 19	> 19 - 25
Tolerance on thickness	EN 324-1	mm	± 0,2	± 0,2	± 0,3
Tolerance on length and width	EN 324-1	mm/m	± 2	± 2	± 2
Edge straightness tolerance	EN 324-2	mm/m	≤ 1,5	≤ 1,5	≤ 1,5
Squareness tolerance	EN 324-2	mm/m	≤ 2	≤ 2	≤ 2
Tolerance on mean density	EN 323	%	± 7	± 7	± 7
Moisture content	EN 322	%	4 - 11	4 - 11	4 - 11

### TECHNICAL INFORMATION

PROPERTY	TEST	UNIT	THICKNESS RANGE (mm)		
			10 - 12	> 12 - 19	> 19 - 25
Density *	EN 323	Kg/m <sup>3</sup>	820	820	820
Bending strength	EN 310	N/mm <sup>2</sup>	≥ 22	≥ 20	≥ 18
Modulus of elasticity	EN 310	N/mm <sup>2</sup>	≥ 2500	≥ 2200	≥ 2100
Internal bond	EN 319	N/mm <sup>2</sup>	≥ 0,80	≥ 0,80	≥ 0,80
Thickness swelling 24 hours	EN 317	%	≤ 15	≤ 12	≤ 10
Formaldehyde emission class	CARB Phase 2 / EPA TSCA				

\* Value to be used only as a reference

FIRE X CARB2/EPA boards meet the specifications of EN 622, type MDF, and are CE marked. For more information regarding the technical properties check the Product Declaration of Performance (DoP).

### CERTIFICATIONS

Please pay attention to certified products:



The mark of  
responsible forestry  
FSC® C104607



Promoting  
Sustainable Forest  
Management  
PEFC™  
PEFC/C14-35-00013  
www.pefc.org



THIRD-PARTY VERIFIED  
EPD  
ISO 14025 and EN 15804



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