

# CORE&TECHNICAL

Products

## PB P2 FIRE X E05/CARB2/EPA

Particleboard for interior fitments for use in dry conditions with improved fire behavior

### DESCRIPTION

Sonae Arauco PB P2 FIRE X E05/CARB2/EPA is a particleboard with a fine sanded surface suitable for coating with melamine paper, wood veneer or laminate. The board is suitable for furniture production and easy to mill. PB P2 FIRE X E05/CARB2/EPA has low formaldehyde emission, is certified according to the rules of the official California Air Resource Board (CARB) and compliant with limit of ChemVerbotsV (E05).

Regarding reaction to fire and according to EN 13986, PB P2 FIRE X E05/CARB2/EPA, is classified as B-s1, d0 (Euroclasses definition by EN 13501-1).

In addition to technical performance PB P2 FIRE X E05/CARB2/EPA panels are sustainable and environmental friendly products.

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

### APPLICATIONS

PB P2 FIRE X E05/CARB2/EPA can be used in all industrial manufacturing processes for interior decoration and must be applied in service class 1 (restrictions in temperature and ambient humidity).

PB P2 FIRE X E05/CARB2/EPA is recommended for utilization in applications sectors with stringent regulations regarding fire behaviour of materials used.

The use of PB P2 FIRE X contributes to reduce the combustion of an element, the heat emission after possible combustion, prevent, delay and reduce the spread of fire.

### 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.

Pigments added during manufacturing of this product in exceptional cases may interfere with certain types of adhesives, a test before you apply them should therefore be conducted.

### PROPERTIES



EASY TO MILL



VERSATILITY



FIRE RETARDANT



COMPLIANT WITH CHEMVERBOTS V



EPA TSCA TITLE VI & CARB 2 CERTIFIED



OFFICE & EDUCATION



SPORTS & LEISURE



DOORS



RETAIL & EXHIBITIONS



RESTAURANTS & HOTELS



HEALTH & WELLNESS



CONSTRUCTION

## PB P2 FIRE X E05/CARB2/EPA

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### GENERAL CHARACTERISTICS

PROPERTY	TEST	UNIT	THICKNESS RANGE (mm)					
			≥10 - 13	>13 - 20	>20 - 25	>25 - 32	>32 - 40	>40 - 45
Tolerance on thickness	EN 324-1	mm	± 0,3	± 0,3	± 0,3	± 0,3	± 0,3	± 0,3
Tolerance on length and width	EN 324-1	mm/m	± 5	± 5	± 5	± 5	± 5	± 5
Edge straightness tolerance	EN 324-2	mm/m	≤ 1,5	≤ 1,5	≤ 1,5	≤ 1,5	≤ 1,5	≤ 1,5
Squareness tolerance	EN 324-2	mm/m	≤ 2	≤ 2	≤ 2	≤ 2	≤ 2	≤ 2
Tolerance on mean density	EN 323	%	± 10	± 10	± 10	± 10	± 10	± 10
Moisture content	EN 322	%	5 - 13	5 - 13	5 - 13	5 - 13	5 - 13	5 - 13

### TECHNICAL INFORMATION

PROPERTY	TEST	UNIT	THICKNESS RANGE (mm)					
			≥10 - 13	>13 - 20	>20 - 25	>25 - 32	>32 - 40	>40 - 45
Density*	EN 323	Kg/m <sup>3</sup>	730	700	670	655	655	645
Bending strength	EN 310	N/mm <sup>2</sup>	≥ 11	≥ 11	≥ 10,5	≥ 9,5	≥ 8,5	≥ 7
Modulus of elasticity	EN 310	N/mm <sup>2</sup>	≥ 1800	≥ 1600	≥ 1500	≥ 1350	≥ 1200	≥ 1050
Internal bond	EN 319	N/mm <sup>2</sup>	≥ 0,40	≥ 0,35	≥ 0,30	≥ 0,25	≥ 0,20	≥ 0,20
Surface soundness	EN 311	N/mm <sup>2</sup>	≥ 0,80	≥ 0,80	≥ 0,80	≥ 0,80	≥ 0,80	≥ 0,80
Formaldehyde emission class	CARB Phase 2 / EPA TSCA**							

\* Value to be used only as a reference

\*\*Compliant with limit of ChemVerbotsV (E05)

PB P2 FIRE X E05/CARB2/EPA boards meet the specifications of EN 312, type P2, 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™  
PEFC14-35-00013 www.pefc.org



THIRD-PARTY VERIFIED  
EPD  
ISO 14025 and EN 15804



Institut Bauen und Umwelt e.V.



CARB2  
EPA



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

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

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