

# CORE & TECHNICAL

Products

## PB P4 FIRE X

Load-bearing particleboard for use in dry conditions with improved fire behavior

### DESCRIPTION

Sonae Arauco PB P4 FIRE X is a particleboard with high density and fine sanded surface suitable for coating or laminate.

The board presents excellent mechanical characteristics and a particularly adapted core to receive screws and fixation systems, it's easy to mill and a low formaldehyde emission (E1 class).

Regarding reaction to fire and according to EN 13986, PB P4 FIRE X is classified as B-s1,d0 and Bfl-s1 (Euroclasses definition by EN 13501-1).

In addition to technical performance PB P4 FIRE X panels are sustainable and environmental friendly products.

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

### APPLICATIONS

PB P4 FIRE X is indicated for load-bearing applications in dry conditions, must be applied in service class 1 (restrictions in temperature and ambient humidity).

PB P4 FIRE X panels can be used for office furniture, shelves and other furniture with special requirements. It can also be applicable as structural floors, walls and roofs.

PB P4 FIRE X is recommended for utilization in applications sectors with stringent regulations regarding fire behaviour of materials used.

The use of PB P4 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



FIRE RETARDANT



LOAD BEARING



OFFICE & EDUCATION



SPORTS & LEISURE



RESTAURANTS & HOTELS



RETAIL & EXHIBITIONS



HEALTH & WELLNESS



CONSTRUCTION



FLOORING

## PB P4 FIRE X

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### GENERAL CHARACTERISTICS

PROPERTY	TEST	UNIT	THICKNESS RANGE (mm)				
			≥10 - 13	>13 - 20	>20 - 25	>25 - 32	>32 - 40
Tolerance on thickness	EN 324-1	mm	± 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
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	%	± 10	± 10	± 10	± 10	± 10
Moisture content	EN 322	%	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
Density*	EN 323	Kg/m <sup>3</sup>	750	715	690	675	675
Bending strength	EN 310	N/mm <sup>2</sup>	≥ 16	≥ 15	≥ 13	≥ 11	≥ 9
Modulus of elasticity	EN 310	N/mm <sup>2</sup>	≥ 2300	≥ 2300	≥ 2050	≥ 1850	≥ 1500
Internal bond	EN 319	N/mm <sup>2</sup>	≥ 0,40	≥ 0,35	≥ 0,30	≥ 0,25	≥ 0,20
Thickness swelling 24 hours	EN 317	%	≤ 16	≤ 15	≤ 15	≤ 15	≤ 14
Formaldehyde emission class					E1		

\* Value to be used only as a reference

PB P4 FIRE X boards meet the specifications of EN 312, type P4, 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



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

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

TDS.02.25.SAI.R01

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