

PB P3 FIRE X

Non-load-bearing particleboard for use in humid conditions with improved fire behavior

DESCRIPTION

Sonae Arauco PB P3 FIRE X is a particleboard with a fine sanded surface suitable for coating with melamine paper and veneer or laminate. The board is suitable for furniture production, easy to mill and has low formaldehyde emission (E1 class).

The particleboard shows a good behaviour in humid environments, with minimal expected expansion and swelling.

Regarding reaction to fire and according to EN 13986, PB P3 FIRE X, is classified as B-s1, d0 (Euroclasses definition by EN 13501-1).

In addition to technical performance PB P3 FIRE X panels are sustainable and environmental friendly products.

For further information on available sizes and thicknesses, please see our Offer & Service Brochure.

PROPERTIES



EASY TO MILL



MOISTURE
RESISTANT



FIRE RETARDANT

APPLICATIONS

PB P3 FIRE X is suitable for non-load-bearing applications in humid conditions and can be applied in service class 2 (restrictions in temperature and ambient humidity).

PB P3 FIRE X is recommended for utilization in applications sectors with stringent regulations regarding fire behaviour of materials used.

The use of PB P3 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



RETAIL &
EXHIBITIONS



RESTAURANTS
& HOTELS



HEALTH &
WELLNESS



CONSTRUCTION

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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 ³	730	680	660	645	645	640
Bending strength	EN 310	N/mm ²	≥ 15	≥ 14	≥ 12	≥ 11	≥ 9	≥ 7,5
Modulus of elasticity	EN 310	N/mm ²	≥ 2050	≥ 1950	≥ 1850	≥ 1700	≥ 1550	≥ 1350
Internal bond	EN 319	N/mm ²	≥ 0,45	≥ 0,45	≥ 0,40	≥ 0,35	≥ 0,30	≥ 0,25
Thickness swelling 24 hours	EN 317	%	≤ 17	≤ 14	≤ 13	≤ 13	≤ 12	≤ 12
Internal bond after cyclic test	EN 321	N/mm ²	≥ 0,15	≥ 0,13	≥ 0,12	≥ 0,10	≥ 0,09	≥ 0,08
Thickness swelling after cyclic test	EN 321	%	≤ 14	≤ 13	≤ 12	≤ 12	≤ 11	≤ 11
Formaldehyde emission class			E1					

* Value to be used only as a reference

PB P3 FIRE X boards meet the specifications of EN 312, type P3, and are CE marked. For more information regarding the technical properties check de 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

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