

CORE&TECHNICAL

Products

PB P4

Load-bearing particleboard for use in dry conditions

DESCRIPTION

Soane Arauco PB P4 is a particleboard with high density and fine sanded surface suitable for surfacing. 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 with a thickness ≥ 9 mm and a minimum density of 600 Kg/m^3 , is classified as D-s2, d0 (Euroclasses definition by EN 13501-1).

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

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

APPLICATIONS

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

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

PROPERTIES



EASY TO MILL



VERSATILITY



LOAD BEARING



OFFICE & EDUCATION



SPORTS & LEISURE



DOORS



RETAIL & EXHIBITIONS



RESTAURANTS & HOTELS



HEALTH & WELLNESS



CONSTRUCTION



FLOORING

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.

ALSO AVAILABLE



FIRE RETARDANT

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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 ³	740	690	675	665	650
Bending strength	EN 310	N/mm ²	≥ 16	≥ 15	≥ 13	≥ 11	≥ 9
Modulus of elasticity	EN 310	N/mm ²	≥ 2300	≥ 2300	≥ 2050	≥ 1850	≥ 1500
Internal bond	EN 319	N/mm ²	≥ 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 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.

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