

CORE&**TECHNICAL**

Products

PB P4

Load-bearing particleboard for use in dry conditions

DESCRIPTION -

Sonae 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 and compliant with ChemVerbotsV (E05)).

Regarding reaction to fire and according to EN 13986, PB P4 with a thickness \geq 9 mm and a minimum density of 600 Kg/m³, 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 indicated for load-bearing applications in dry conditions. The product must be applied in service class 1 (restrictions in temperature and ambient humidity).

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



PROPERTIES



VERSATILITY



LOAD BEARING



COMPLIANT WITH CHEMVERBOTSV



ASY TO MILL

LOW EMISSIONS



RECOMMENDATION

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.



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GENERAL CHARACTERISTICS

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

TECHNICAL INFORMATION -

PROPERTY	TEST	UNIT	THICKNESS RANGE (mm)		
			>25 - 32	>32 - 40	
Density*	EN 323	Kg/m ³	630	630	
Bending strength	EN 310	N/mm ²	≥ 11	≥ 9	
Modulus of elasticity	EN 310	N/mm ²	≥ 1850	≥ 1500	
Internal bond	EN 319	N/mm ²	≥ 0,25	≥ 0,20	
Swelling (24 hours)	EN 317	%	≤ 15	≤ 14	
Formaldehyde emission class			E1**		

* Value to be used only as a reference

** Compliant with limit of ChemVerbotsV (E05)

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:



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





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ADDITIONAL INFORMATION -

PROPERTY	UNIT	THICKNESS (mm)	BENDING fm	TENSION ft	COMPRESSION fc	PANEL SHEAR f _v	PANEL SHEAR f _r
			or 0°	or 0°	or 0°		
Strength	N/mm ²	> 25 - 32	9,2	6,1	9,0	4,8	1,2
		> 32 - 40	7,5	5,0	7,6	4,4	1,1
PROPERTY	UNIT	THICKNESS (mm)	BENDING Em	TENSION Et and COMPRESSION Ec		PANEL SHEAR Gv	
			or 0°		or 0°		
Stiffness	N/mm ²	> 25 - 32	2400		1400	68	0
		> 32 - 40	2100		1200	60	0

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