

COTE&TECHNICAL

Products

PB P5 HYDRO X

Load-bearing particleboard for use in humid conditions

DESCRIPTION -

Sonae Arauco PB P5 HYDRO X is a particleboard with a fine sanded surface suitable for coating with melamine paper, veneer or laminate. The board is suitable for furniture production, load bearing applications and presents good behaviour in humid environments with minimal expected expansion and swelling. PB P5 HYDRO X is also easy to mill and has low formaldehyde emission (E1 class).

Regarding reaction to fire and according to EN 13986, PB P5 HYDRO X 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 P5 HYDRO X panels are sustainable and environmental products.

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

PROPERTIES







EASY TO MILL

MOISTUR RESISTAN

APPLICATIONS –

PB P5 HYDRO X is suitable for load-bearing applications in humid conditions and can be applied in service classes 1 and 2 (restrictions in temperature and ambient humidity).

The PB P5 HYDRO X panels can be used for structural floors, walls, roofs and other demanding applications.









SPORTS & LEISURE

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ING CONSTRUCTION

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.



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GENERAL CHARACTERISTICS -

PROPERTY	TEST	UNIT	THICKNESS RANGE (mm)						
			≥8-10	>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	± 0,3
Tolerance on length and width	EN 324-1	mm/m	± 5	± 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	≤ 1,5
Squareness tolerance	EN 324-2	mm/m	≤ 2	≤ 2	≤ 2	≤ 2	≤ 2	≤ 2	2
Tolerance on mean density	EN 323	%	± 10	± 10	± 10	± 10	± 10	± 10	± 10
Moisture content	EN 322	%	5 - 13	5 - 13	5 - 13	5 - 13	5 - 13	5 - 13	5 - 13

TECHNICAL INFORMATION -

PROPERTY	TEST	UNIT	THICKNESS RANGE (mm)						
			≥8-10	>10-13	>13-20	>20-25	>25-32	>32-40	>40-45
Density *	EN 323	Kg/m³	720	710	670	650	630	620	620
Bending strength	EN 310	N/mm²	≥ 18	≥ 18	≥ 16	≥ 14	≥ 12	≥ 10	≥ 9
Modulus of elasticity	EN 310	N/mm²	≥ 2550	≥ 2550	≥ 2400	≥ 2150	≥ 1900	≥ 1700	≥ 1550
Internal bond	EN 319	N/mm²	≥ 0,45	≥ 0,45	≥ 0,45	≥ 0,40	≥ 0,35	≥ 0,30	≥ 0,25
Thickness swelling 24 hours	EN 317	%	≤ 13	≤ 11	≤ 10	≤ 10	≤ 10	≤ 9	≤ 9
Internal bond after cyclic test	EN 321	N/mm²	≥ 0,25	≥ 0,25	≥ 0,22	≥ 0,20	≥ 0,17	≥ 0,15	≥ 0,12
Swelling after cyclic test	EN 321	%	≤ 12	≤ 12	≤ 12	≤ 11	≤ 10	≤ 9	≤ 9
Formaldehyde emission class						E1			

^{*} Value to be used only as a reference

PB P5 HYDRO X boards meet the specifications of EN 312, type P5, 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





CE

 $\mathsf{FSC}^{\circledast}$ and $\mathsf{PEFC^{\textsc{tm}}}$ - certified products are available on request and availability.

www.sonaearauco.com

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