



PB Ultralight

Substrates Collection

PB Ultralight is 40% lighter compared to standard particle boards, which makes it a more workable material and improves convenience.

By substituting wood chips with a 100% biodegradable plant fibre, we are able to engineer particle boards that are environmentally friendly and naturally termite resistant.

Thickness
Dimensions

36 mm
1220 × 2440 / 1828 × 2440 mm

Characteristics



Lightweight
Material is 40% lighter compared to standard particle boards.



H1 Dry Conditions
Suitable for interior spaces that frequently use air conditioning.

Technical
Specifications

General Requirements for Particleboard

Properties		Test Method	Requirement
Tolerance on Nominal Dimensions	Thickness	EN 324-1	± 0.3 mm
	Length/Width		± 5 mm
Squareness Tolerance		EN 324-2	2 mm/m
Tolerance of Density		EN 323	± 10%
Formaldehyde Release		EN 120	Class E1 ≤ 8mg/m ³

Requirements for Particleboard for use in Dry Conditions

Properties	Test Method	Unit	Thickness (mm, nominal dimension)				
			8 to 13	> 13 to 20	> 20 to 25	> 25 to 32	> 32 to 40
Average Density	EN 323	Kg/m ³	600 - 720				
Bending Strength	EN 310	N/mm ²	11	11	10.5	9.5	8.5
Modulus of Elasticity	EN 310	N/mm ²	1800	1600	1500	1350	1200
Internal Bond	EN 319	N/mm ²	0.40	0.32	0.30	0.25	0.20
Surface Soundness	EN 311	N/mm ²	0.80	0.80	0.80	0.80	0.80

Requirements for Particleboard for use in Dry Conditions

Properties	Test Method	Unit	Thickness (mm, nominal dimension)				
			8 to 13	> 13 to 20	> 20 to 25	> 25 to 32	> 32 to 40
Average Density	EN 323	Kg/m ³	600 - 720				
Bending Strength	EN 310	N/mm ²	15	14	12	11	9
Modulus of Elasticity	EN 310	N/mm ²	2050	1950	1850	1700	1550
Internal Bond	EN 319	N/mm ²	0.45	0.45	0.40	0.35	0.30
Swelling in Thickness	EN 317	%	17	14	13	13	12

Thickness for Ultralight Particleboard for use in Dry Conditions

Properties	Test Method	Unit	Thickness (mm, nominal dimension)	
			18	36
Average Density	EN 323	Kg/m ³	550	360
Bending Strength	EN 310	N/mm ²	13	5
Modulus of Elasticity	EN 310	N/mm ²	1500	-
Surface Soundness	EN 311	N/mm ²	0.80	0.50

PB Premier
Application Areas

Furniture and Woodworking	
Lamination of Surface Elements (Melamine, Laminates and Foils)	•
Spray Painting	
Easy processing with woodworking tools	•
Excellent grip of fasteners (Screws, nails and staples)	•
Decorative Surface	
Attractive Edges	
Homogeneous Appearance Throughout	

Building and Structural Applications	
High Moisture and Humidity Resistance	H1
Increased Fire Safety Regulations	
Termite Resistance	
Climate Sensitive Applications (Ultra Low VOC)	
Horizontal Load-bearing Applications	•
Non Load-bearing Walls, Partitions and Ceilings	•
Formwork	

Other Technical and Industrial Applications	
Door production with increased fire safety regulations	
Suitable for use in marine vessels	
Temporary Outdoor Exhibitions	
Packaging Industry	•
Signage and Billboards	•
Warehouse Management (Racking)	

• Recommended