



DesertBoard.

Roofing

PSB® Supreme is engineered to deliver exceptional structural integrity, providing reliable support and superior insulation for roofing systems across all weather conditions. Engineered with high-strength, and moisture resistance, these boards can be used from residential to commercial buildings.

WHY PSB® SUPREME?



Superior Moisture Resistance Performance

PSB® Supreme exhibits excellent moisture resistance, with a maximum thickness swelling of 15%. PSB® Supreme, when coated properly, results in a thickness swelling of less than 5%.

High Modulus of Elasticity and Rupture Strength

PSB® Supreme demonstrates high performance in terms of modulus of elasticity, measuring 3,500 Newtons per square millimeter (N/mm²), and modulus of rupture, ranging from 16 to 22 Newtons per square millimeter (N/mm²).

Enhanced Screw Withdrawal Strength and Reusability

PSB® Supreme provides exceptional screw hold capacity compared to other solutions, with edge hold at 1,350 Newtons (N) and face hold at 1,650 Newtons (N). PSB® Supreme's mechanical properties allow for repeated use of the same hole without any loss in performance.

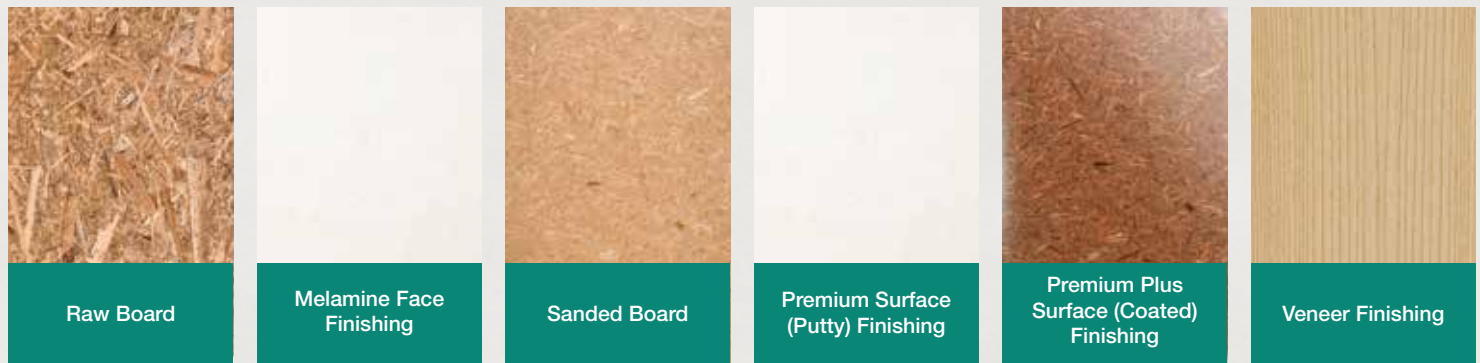
SPECIFICATIONS

Modulus of Rupture	16 – 22 N/mm2
Modulus of elasticity	3,500 N/mm2
Internal Bonding	0.29 – 0.34 N/mm2
Thickness Swelling	5% - 15%
Width	1,200 – 1,250 mm
Length	1,830 – 3,048 mm
Thickness	9 – 44 mm







TECHNICAL DATA SHEET

PSB® SUPREME	TEST METHOD	UNIT	REQUIREMENT			
			BOARD THICKNESS RANGE (MM)			
			PSB® SUPREME			
			9 to 10	> 10 to 16	> 16 to 25	> 25 to 30
Bending strength - major axis	EN 310	N/mm ²	22	20	18	16
Bending strength - minor axis	EN 310	N/mm ²	11	10	9	8
Modulus of elasticity in bending - major axis	EN 310	N/mm ²	3500	3500	3500	3500
Modulus of elasticity in bending - minor axis	EN 310	N/mm ²	1400	1400	1400	1400
Internal bond	EN 319	N/mm ²	0.34	0.32	0.30	0.29
Swelling in thickness - 24H immersion	EN 317	%	15	15	15	15
IB after boiling test	EN 1087-1	N/mm ²	0.15	0.13	0.12	0.06

CUSTOMIZABLE FINISHES



BEST PRACTICES FOR PSB® SUPREME

-  To ensure optimal performance in humid conditions, it is recommended to apply a coating to the boards. This will enhance their durability and resilience against moisture, thereby maintaining their reliability in load-bearing applications.
-  When resizing the boards (cutting to different or smaller dimensions), it is essential to coat the newly exposed edges.
-  For components being fastened, such as beams, rafters, joists, and trusses, pre-drilling is essential. The diameter of the pre-drilled hole should be smaller than the screw diameter to ensure effective engagement of the screw threads.
-  During transportation and storage, it is important to protect the PSB® boards from direct exposure to water droplets and precipitation on their edges and surfaces. Ensure that adequate protective covers are provided to maintain their integrity.
-  For fastening, it is recommended to use screws, nails, or staples with a length at least 2.5 times the thickness of the board, but not less than 75-50 mm. Fastening should be carried out at intervals of 300-150 mm on intermediate supports (depending on roof pitch), 150 mm along board joints, and 100 mm along roof edges.
-  It is advised not to install decorative tiles or wallpaper directly on PSB® Supreme, nor should plaster work be applied to its surface.

RELATED APPLICATIONS FOR PSB® SUPREME



Façade Cladding



Stands & Booths



Sub-Flooring



Wall Cladding



Furniture & Fixed Furniture



Site Hoarding

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MADE IN THE UAE

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