

DesertBoard.

الأسبوع العربي للتصميم  
ARABIAN DESIGN WEEK

HOW INNOVATIVE MATERIALS ARE SHAPING THE  
DESIGN AND ARCHITECTURE INDUSTRY

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isola

DESIGN EXT

# Stages

Whether for events, or exhibitions, PSB® Ultra provides the longevity and resilience you need to enhance your stage experience. With a variety of premium finishes, including Melamine, Putty, and Veneer, PSB® Ultra offers the flexibility to achieve your desired aesthetic while maintaining its robust structure.

# WHY PSB® ULTRA?



- **PSB® Ultra** is moisture resistant, with a maximum thickness swelling of 12%. When an appropriate coating is applied, the thickness swelling is reduced to less than 5%.
- **PSB® Ultra** is designed for heavy-duty applications, ensuring longevity and performance.
- **The exceptional moisture resistance** of PSB® Ultra ensures that its structural integrity is maintained, even in challenging weather conditions.
- **PSB® Ultra** is known for its robustness, making it an ideal choice for heavy-duty applications, as it can bear significant loads without compromising on performance.
- **PSB® Ultra** delivers high performance with a modulus of elasticity of 3,500 Newtons per square millimeter (N/mm<sup>2</sup>) and a modulus of rupture ranging from 18 to 22 Newtons per square millimeter (N/mm<sup>2</sup>).
- **PSB® Ultra** offers superior strength and stability in high-humidity conditions.
- **The screw hold capacity** of PSB® Ultra is significantly higher compared to other solutions, with edge hold at 1,350 Newtons (N) and face hold at 1,650 Newtons (N). Mechanically, this means that the board can be reused many times using the same hole.

## SPECIFICATIONS

Modulus of Rupture	18 – 22 N/mm2
Modulus of elasticity	3,500 N/mm2
Internal Bonding	0.40 – 0.50 N/mm2
Thickness Swelling	12%
Width	1,200 – 1,250 mm
Length	1,830 – 3,048 mm
Thickness	9 – 25 mm

## CUSTOMIZABLE FINISHES



Raw Board



Melamine Face Finishing



Sanded Board



Premium Surface (Putty) Finishing




Premium Plus Surface (Coated) Finishing





Veneer Finishing





# BEST PRACTICES FOR PSB® ULTRA

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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.
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When resizing the boards (cutting to different or smaller dimensions), it is essential to coat the newly exposed edges.
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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.
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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.
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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.

## TECHNICAL DATA SHEET

PSB® ULTRA	TEST METHOD	UNIT	REQUIREMENT		
			BOARD THICKNESS RANGE (MM)		
			9 to 10	> 10 to 16	> 16 to 25
TESTINGS					
Bending strength - major axis	EN 310	N/mm²	22	20	18
Bending strength - minor axis	EN 310	N/mm²	11	10	9
Modulus of elasticity in bending - major axis	EN 310	N/mm²	3500	3500	3500
Modulus of elasticity in bending - minor axis	EN 310	N/mm²	1400	1400	1400
Internal bond	EN 319	N/mm²	0.50	0.45	0.40
Swelling in thickness - 24H immersion	EN 317	%	12	12	12
IB After Boiling test	EN 1087-1	N/mm²	0.17	0.15	0.13

## RELATED APPLICATIONS FOR PSB® ULTRA



Outdoor Furniture



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