

## PSB SUPREME / ECO CORE SUPREME

Load-bearing boards are essential structural components designed to support significant weights and loads in various construction applications. These boards are engineered to provide strength and stability, making them ideal for use in flooring, walls, and other structural elements where load distribution is critical. They are particularly valuable in both residential and commercial construction, where they contribute to the overall integrity and safety of the building.

These boards are classified under Service Class 2, as specified in EN1995-1-1, which relates to the performance of structural boards and wood-based products. Service Class 2 indicates that these boards are suitable for use in environments where they may be exposed to moderate humidity and moisture levels. This classification ensures that the boards maintain their structural properties and performance even under varying conditions, providing reliability in their load-bearing capabilities.

By adhering to these standards, load-bearing boards offer the necessary durability and resilience to withstand both static and dynamic loads. This makes them a preferred choice among engineers and builders who prioritize safety and longevity in their construction projects. Overall, the use of load-bearing boards enhances the structural performance of buildings, contributing to their stability and ensuring they meet both regulatory requirements and the expectations of occupants.

**DISCLAIMER:** For optimal performance in humid conditions, it is recommended that these boards be coated to enhance their durability and resilience against moisture, ensuring reliability in load-bearing capabilities.

### Features

- Enhanced load-bearing capacity suitable for structural applications.
- Designed to withstand humid environments, reducing the risk of damage.
- Offers improved durability compared to non-load-bearing boards.
- Offers more dimensional stability in comparison to service class 1 (PSB PRIME).

### Detailed Applications

- **Multi-Storey Buildings:** Essential for structural elements in multi-storey residential and commercial buildings, providing the necessary support for upper floors.
- **Roof Structures:** Used in the construction of roofs where load-bearing capabilities are critical, especially in areas that may experience heavy snow loads.



DesertBoard.

- **Flooring Systems:** Ideal for Sub-flooring applications in both residential and commercial settings, including areas subject to heavy foot traffic.
- **Braced Frames:** Suitable for braced frame systems in buildings, enhancing lateral stability and resistance to wind or seismic forces.
- **Soffits and Ceiling Systems:** Effective for creating load-bearing soffits that can support HVAC systems and lighting fixtures.
- **Modular and Prefabricated Buildings:** Used in the construction of modular homes and prefabricated structures, ensuring that components can bear required loads during transport and assembly.



**TABLE FOR TECHNICAL SPECIFICATION - PSB SUPREME & ECO CORE SUPREME**

PSB SUPREME & ECO CORE SUPREME	TEST METHOD	UNIT	REQUIREMENT				
TESTINGS			BOARD THICKNESS RANGE (mm)				
			PSB SUPREME				PSB ECO CORE SUPREME
			9 to 10	> 10 to 16	> 16 to 25	> 25 to 30	>30 to 38
Bending strength - major axis	EN 310	N/mm <sup>2</sup>	22	20	18	16	14
Bending strength - minor axis	EN 310	N/mm <sup>2</sup>	11	10	9	8	7
Modulus of elasticity in bending - major axis	EN 310	N/mm <sup>2</sup>	3500	3500	3500	3500	3500
Modulus of elasticity in bending - minor axis	EN 310	N/mm <sup>2</sup>	1400	1400	1400	1400	1400
Internal bond	EN 319	N/mm <sup>2</sup>	0.34	0.32	0.30	0.29	0.26
Swelling in thickness - 24 h immersion	EN 317	%	15	15	15	15	15
IB After Boiling test	EN 1087-1	N/mm <sup>2</sup>	0.15	0.13	0.12	0.06	0.05

## PSB ULTRA

PSB ULTRA is a heavy-duty load-bearing board engineered for demanding construction applications, PSB ULTRA boards are constructed to meet the Service Class 2 standards outlined in EN1995-1-1, indicating that they are ideal for use in environments with moderate moisture exposure, such as construction sites subject to rain or humidity. The boards exceptional moisture resistance ensures that their 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.

**DISCLAIMER:** If it is made known by the purchaser that the boards are intended for specific use in flooring, walls or roofing, the performance standard EN 12871 has also to be consulted. This can result in additional requirements having to be complied with.