

TECHNICAL DATASHEET

PRODUCT:

PSB - Palm Strand Boards

DESCRIPTION:

PSB - Palm Strand Boards are a type of board made from palm fronds. They are designed for use in construction, furniture, and other applications where durability and strength are important. These boards are certified by Dubai Municipality as per Al Sa'fat Green Building System and in compliance with the International Standards, ensuring that they meet strict quality and safety standards. They are also free from harmful substances like Formaldehyde, Asbestos and CCA, making them safe for use in construction.

TECHNICAL SPECIFICATIONS:

PHYSICAL PROPERTY	TEST	UNIT	VALUES
Length		mm	2440
Width		mm	1220
Thickness		mm	9 - 44
Tolerance of Nominal Dimensions			
Length and Width	BS EN 324-1	mm	±3
Thickness – Sanded Boards	BS EN 324-1	mm	±0.3
Thickness – Un-Sanded Boards	BS EN 324-1	mm	±0.8
Edge Straightness Tolerance	BS EN 324-2	mm/m	1.5
Squareness Tolerance	BS EN 324-2	mm/m	2.0

MECHANICAL PROPERTY	TEST	UNIT	MR MDF ¹	PSB
Bending Strength ²	BS EN 310	N/mm ²	24	24
Modulus of Elasticity in Bending	BS EN 310	N/mm ²	2183	3500
Internal Bond	BS EN 319	N/mm ²	0.6	0.6
Swelling in Thickness – 24 H ²	BS EN 317	%	10	7-10
Moisture Content	BS EN 322	%	4 – 11	5
Density	BS EN 323	kg/m ³	660 – 770	800
Screws Withdrawal - Face	BS EB 320	N	1095	1500
Screws Withdrawal - Edge	BS EN 320	N	887	1200
Formaldehyde Release	BS EN 717-1	mg/m ³	(E2) <5.9	(E0) <0.005
Formaldehyde Concentration ³	ASTM D5582-14	mg/ml	-	<0.30

¹ The MR MDF readings rely on six distinct suppliers of locally sourced HMR MDF within the UAE.

² The range in values is a result of both in-house & third-party testing. Any upcoming third-party testing results will be shared once they become available.

³ Formaldehyde Concentration test was done at Dubai Central Laboratory as per Al Sa'fat Green Building System Clause 701.8.