

NuWeave™

Woven Bamboo Mat Board

PHENOLIC SURFACE • WOVEN BAMBOO MAT • BAMBOO SAWDUST FILLER

NuWeave Woven Bamboo Mat Board is an engineered panel made from woven bamboo mats, with bamboo sawdust filling the crevices of the weave to make the panel sturdier, bonded with exterior grade phenol formaldehyde resin. Both surfaces are faced with a high performance phenolic film, giving exceptional durability, moisture resistance, abrasion resistance and a smooth surface. Built for concrete formwork, furniture and industrial applications where strength, stability and long service life are required.

SPECIFICATIONS

Thickness	4, 8, 10, 12, 14, 16, 18 and 20 mm
Standard width	1220 mm (4 ft)
Standard length	2440 mm (8 ft)
Density (typical)	800 to 1,000 kg/m3
Moisture content	6 to 10%
Surface	Phenolic film, both sides
Edge finish	Sealed edges
Adhesive	Exterior grade phenol formaldehyde
Body	Woven bamboo mat, 1 to 5 plies
Filler	Bamboo sawdust filling the weave crevices

CONSTRUCTION

- 1 Phenolic film, top face
- 2 Woven bamboo mat, top ply
- 3 Bamboo sawdust filling the weave
- 4 Woven bamboo mat, inner plies
- 5 Woven bamboo mat, bottom ply
- 6 Phenolic film, bottom face

ASTM D1037 TEST RESULTS

Modulus of elasticity (MOE)	4,210.56 MPa
Modulus of rupture (MOR)	89.01 MPa
Internal bond strength	1.24 MPa
Water absorption, 24 hr	12.7%
Thickness swelling	3.2%

Independently tested to ASTM D1037 by the DOST Regional Standards and Testing Laboratory. Results apply to the samples submitted and may vary by configuration, thickness, moisture content and manufacturing lot.

PRODUCT HIGHLIGHTS

- Waterproof surface
- High strength
- Abrasion resistant
- Phenolic surface, both sides
- Smooth finish
- DOST tested to ASTM D1037

APPLICATIONS

- Concrete formwork panels
- Interior wall panels
- Cladding and decking
- Cabinets and furniture
- Decorative and acoustic panels
- Industrial panels

COMPARISON WITH OTHER BOARDS

Feature	NuWeave	Plywood	MDF	Particle board	Plastic formwork
Strength	High	Good	Fair	Fair	Good
Moisture resistance	High	Fair	Low	Low	High
Screw holding	High	Good	Fair	Fair	Fair
Surface hardness	High	Fair	Fair	Low	Good
Reusability, formwork	8 to 10 uses	4 to 5 uses	Not suitable	Not suitable	50+ uses
Sustainability	High	Fair	Low	Low	Low
Cost efficiency	High	Good	Fair	Fair	Fair

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TESTED AND VERIFIED BY DOST

Rapid renewable • Made in the Philippines