



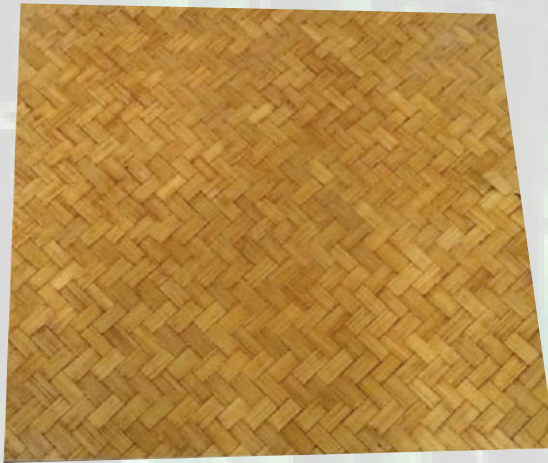
TIMPACK PRIVATE LTD.

(BAMBOO BASED INDUSTRY)

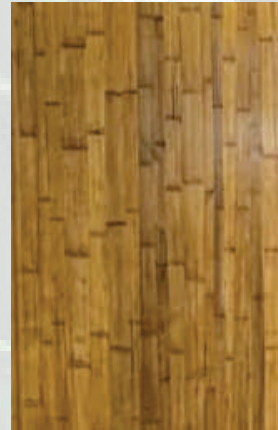
Bamboo Mat Based Products the "Green Gold"
towards Nation Building

Creating a **Green & Sustainable Environment** for a better tomorrow

"Versatile & Innovative" **False Ceiling / Partitions / Walling / Wall Panelling** Made FROM
THE WONDER GRASS "BAMBOO"



Bamboo Mat Board
(conforms to IS: 13958-1994)
CPWD - DSR 2016 / 2018 / 2021 Item
Code No.: 26.6C, 26.6D & 26.6E



Bamboo Mat Board
(thickness: 6mm & above)
One Side Bamboo
Strip Finish available.

21 + years in Manufacturing

500+ projects completed

4 years harvesting time of bamboo

1000+ daily indirect employment in the
rural / tribal villages

Approved Technology with Brandname
under Building Systems / Products



Ministry of Housing & Urban Affairs,
Govt. of India



Global Awardee of



World Bamboo

Patented Technology of
Govt. of India



TIMPAC



www.timpackgreengold.com

About Us:

We are one of the leading Bamboo Based Industry in India registered as a micro enterprises under MSME, Govt. of India with UDYAM registration no: ML-06-0000023, manufacturing for more than approx. 21 years, these Bamboo Mat Based Products at Byrnihat, Meghalaya with Central Govt. Patented technology transfer from Institute of Wood Science and Technology (Erstwhile Indian Plywood Industries Research & Training Institute), Ministry of Environment, Forest and Climate Change, Govt. of India & Building Material Technology & Promotion Council (BMTPC), Ministry of Housing & Urban Affairs, Govt. of India and with support from Meghalaya Govt., and various other departments & in addition, we would be glad to let you know that our company had received the GLOBAL AWARD in September, 2010 from the World Bamboo Organization (USA) for our efforts in the field of bamboo and bamboo development.

Broad Product Benefits / Advantages:



Green, Eco-Friendly, Sustainable, Renewable, Energy Efficient.



Low Thermal Conductivity (15% temperature reduction)



High Load Bearing Capacity, High tensile strength, No cracking issues due to impact of falling objects.



Good Sound Insulation



Surface rust proof



100% Boiling Water Resistance



Termite Resistance, Fungus proof & Borer Free.



Fire Retardant



Light-weight construction materials, quick to install, versatile, very sturdy & resilient.



Non-sharp materials, and thus no harm caused to human lives.



Products are detachable and can be dismantled and re-installed at different locations of the same design, size and dimensions.

Product Sizes & Thickness:

Sizes	Thickness
0.595m x 0.595m (2' x 2') / 2.44m x 1.22m (8' x 4') / 2.14m x 1.22m (7' x 4') / 1.83m x 1.22m (6' x 4') / 1.83m x 0.92m (6' x 3')	3 mm / 4 mm / 6 mm / 9 mm / 12 mm

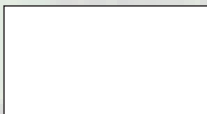
Typical Technical Data

S.No.	Tests	Prescribed Value (IS: 13958-1994)	Results (3mm)	Results (4mm)	Results (6mm)	Results (9mm)	Results (12mm)
1	Moisture Content, %	5 to 15	7.00	7.00	7.50	7.75	8.00
2	Internal Bond Strength in Dry State, N/mm ²						
	a) Average	Min. 0.70	0.75	0.88	0.92	0.94	0.96
	b) Minimum Individual	Min. 0.50	0.72	0.82	0.87	0.89	0.91
3	Internal Bond Strength in Wet State, N/mm ²						
	a) Average	Min. 0.50	0.58	0.65	0.72	0.75	0.78
	b) Minimum Individual	Min. 0.30	0.46	0.58	0.61	0.64	0.69
4	Modulus of Elasticity (MOE), N/mm ²						
	a) Average	Min. 3000	3600	4400	5200	5800	6000
	b) Minimum Individual	Min. 2700	3100	4100	4700	4900	5100
5	Modulus of Rupture (MOR), N/mm ²						
	a) Average	Min. 30	62	74	79	87	92
	b) Minimum Individual	Min. 27	55	62	71	75	81
	Other Tests						
6	Density, Kg/m ³		725	750	800	825	875

Technical Comparison with Different False Ceiling Materials:

S.No.	Characteristics	Bamboo Mat Board (4mm), size: 0.595m x 0.595m	Gypsum Board (12.5mm)	G.I. Metal Ceiling (0.5mm)	Calcium Silicate Ceiling (15mm)	Mineral Fibre Ceiling (15mm)
1	Thermal Conductivity	Very Low (Approx. 15% temperature reduction)	Low	Very High	Low	Low
2	Weather Affects	None, since Ceiling Tiles are 100% Boiling Water Resistance	Ceiling Tiles get damaged since they are not water resistant	Ceiling Tiles get rusted on contact with seepage / water	Ceiling Tiles get damaged since they are not water resistant	Ceiling Tiles get damaged since they are not water resistant
3	Handling of Materials	Good & No Damages, since Ceiling Tiles are compact	Poor and Ceiling Tiles are damaged, as they are softer & Brittle material	Good & No Damages, since Ceiling Tiles are compact	Poor and Ceiling Tiles are damaged, as they are softer & Brittle material	Poor and Ceiling Tiles are damaged, as they are softer & Brittle material
4	Termite Resistance	Yes	No	Yes	No	No
5	Eco-Friendly / Sustainable / Renewable	Yes	No	No	No	No
6	Fire Rating	Retardant	Retardant	Retardant	Retardant	Retardant
7	Social impact	Creates huge indirect employment in the rural / tribal villages for the woven bamboo mat weavers / bamboo strip makers	Very Limited	Very Limited	Very Limited	Very Limited

ONE SIDE – COLOUR COATED OPTIONS AVAILABLE (FALSE CEILING):



WHITE

Note:

- (1) Actual Product Colours may vary from above illustrative Colours shown.
- (2) Other Colours as per customers choice available subject to product quantity required.

Technical Comparison with Different Partitions / Walling & Wall Panelling Materials:

S.No.	Characteristics	Bamboo Mat Board	Glass Reinforced Gypsum (GRG) plaster board	Cement bonded wood particle board
1	Thermal Conductivity	Very Low (Approx. 15% temperature reduction)	Low	Low
2	Weather Affects	None, since Boards are 100% Boiling Water Resistance	Boards get damaged since they are not water resistant	Boards get damaged since they are not water resistant
3	Handling of Materials	Good & No Damages, since Boards are compact	Poor and Boards are damaged, as they are softer & Brittle material	Poor and Boards are damaged, as they are softer & Brittle material
4	Termite Resistance	Yes	No	Yes
5	Eco-Friendly / Sustainable / Renewable	Yes	No	No, health hazards
6	Fire Rating	Retardant	Retardant	Retardant
7	Social impact	Creates huge indirect employment in the rural / tribal villages for the woven bamboo mat weavers / bamboo strip makers	Very Limited	Very Limited

Government Product Approvals available:

- ◆ RDSO, Ministry of Railways, Govt. of India & Various Zonal Railways.
- ◆ Products incorporated in CPWD – DSR 2016 / 2018 / 2021.
- ◆ Ministry of Housing and Urban Affairs, Govt. of India.
- ◆ Ministry of Development of North Eastern Region, Govt. of India.
- ◆ Ministry of Environment, Forest & Climate Change, Govt. of India.
- ◆ Assam Rifles, Ministry of Home Affairs, Govt. of India.

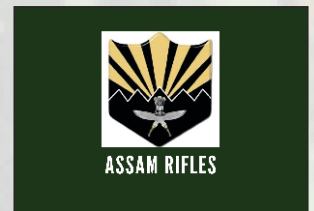
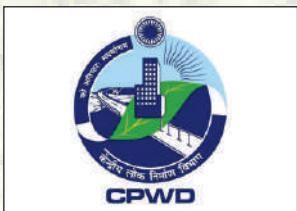
**** Instruction manual for installation available on request.**

Project Site Photographs:

**Sectors – Railways / Metro Railways / Airports / Tourism / Universities /
Pre-fabricated Structure & Housing**



Clients:



M/s Timpack Private Ltd.

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