



GREEN
PANELMAX™
MDF BOARD

INTRODUCTION

Greenply Industries Ltd., with a turnover of Rs 1,007 crore (US\$ 213 million), is firmly established as India's largest interior infrastructure company. The only integrated manufacturer of plywood, laminates, decorative veneers and MDF boards in India, Greenply offers a wide range of brands to its customers which include Greenply Plywood, Green Club Premium Ply, Greenlam Laminates, Green Decowood, Green Spectrumwood Veneers and Ecotec to name a few.

The wide range of Greenply brands is supported by a strong and rich distribution network of over

38 branches and 11,500 dealers/distributors/sub-dealers/retailers across India. This robust network ensures prompt and easy availability of the Greenply products wherever required. These products are also exported to more than 50 countries and are represented by marketing offices in Thailand, Indonesia, Malaysia, Singapore, Hong Kong, the UAE and the USA.

And to ensure a constant supply of products, there are 6 modern manufacturing facilities in India which are located in Nagaland, West Bengal, Uttarakhand, Rajasthan, Himachal Pradesh and Gujarat.

STATE-OF-THE-ART MDF MANUFACTURING FACILITY

Greenply's Green Panelmax Medium Density Fibreboard manufacturing facility at Pantnagar, Uttarakhand is the first-of-its-kind in India which incorporates the latest European technologies.

This state-of-the-art manufacturing plant is the country's largest and most technologically advanced in its category. The annual capacity of the plant is 1,80,000 cubic metres.

Greenply has invested in the latest technology and machines – Wood Room and Chipping from Bruks Klockner (Sweden); Chips Storage and Conveying from Trasmec (Italy), Refining from Metso (Finland) and Drying from Sunds MDF

Technologies (Sweden).

We have purchased the latest machinery for Forming, Press and Raw Board Handling from Dieffenbacher (Germany); Sanding from Steinemann (Switzerland); Panel Sizing from Giben (Italy) and Energy plant from Thermax (India). We have also invested heavily in dust extraction/fume absorption systems supplied by Scheuch (Austria) to ensure optimal emission levels.



The 28 mtr. Dieffenbacher Continuous Press

THE GREEN PANELMAX EDGE



A unique interlocking technology employed in manufacturing Green Panelmax MDF boards leads to a high bonding strength and greater rigidity.



Stability and strength are important assets of our board. Green Panelmax MDF boards offer tough resistance to all sorts of impacts and wear and tear.



Green Panelmax MDF boards are made of 100% hardwood eucalyptus timber and thus have 0% latex content, making them ideal for surface finishes such as painting and polishing.



Greenply follows stringent quality measures at every stage of the manufacturing process to ensure that Green Panelmax MDF boards have a smooth finish, superior machining characteristics and unparalleled quality and strength. With leading testing technology such as the through panel density profiler, we are able to precisely control the through panel density along the thickness, giving Green Panelmax MDF boards a better and a more consistent surface density.



The homogenous construction of Green Panelmax MDF boards allows intricate and precise routing, machining and finishing techniques for a superior finished product.



Green Panelmax MDF boards are produced from 100% renewable and sustainable wood resources sourced from agro-forestry plantation trees that have a life cycle of 3-4 years and cause no depletion of forest cover area.



Green Panelmax MDF boards undergo various chemical treatments that make them termite, borer and fungus resistant.

AN EXCELLENT RANGE TO OFFER

With FSC certified Green Panelmax MDF boards, Greenply will be the first manufacturer in India to offer such a vast range of MDF boards in a variety of thicknesses and sizes. These cater to all its products ranging from plain, pre-laminated and veneered MDF boards to plain and pre-laminated HDF boards.

Plain MDF

Thicknesses: 2.3mm, 2.5mm, 3mm, 4mm, 5.5mm, 6mm, 8mm, 11mm, 12mm, 15mm, 17mm, 18mm, 25mm,

30mm and 35mm.

Sizes: 8'X6'; 8'X4'; 7'X6'; 7'X4' and 6'X4'.

Pre-laminated MDF

Thicknesses: 6mm, 8mm, 11mm, 12mm, 15mm, 17mm, 18mm, 25mm, 30mm and 35mm.

Sizes: 8'X6'; 8'X4'; 7'X6'; 7'X4' and 6'X4'.

HDF

Thicknesses: 2.5mm, 4mm, 6mm, 8mm & 12mm.

Sizes: 8'X6'; 8'X4'; 7'X6'; 7'X4' and 6'X4'.

THE AMAZING VERSATILITY OF GREEN PANELMAX MDF BOARDS

Green Panelmax MDF boards are unparalleled in quality and strength and have extremely smooth surfaces of uniform density that ensure better machinability. The homogenous construction of these boards allows for precise routing, machining and finishing, lending them an amazing versatility of usage in a range of specialised applications like carving and moulding. Green Panelmax MDF boards are specially ideal for creating intricate and clean cut

lattice patterns and high quality laser engraving, amongst other applications. Our eco-friendly Green Panelmax MDF boards are made with 100% hardwood eucalyptus timber which has a 0% latex content, making them perfect for surface finishes such as painting, polishing and high gloss. The extreme smoothness of the surface makes the process of fixing laminates and veneers, completely effortless.

APPLICATIONS

Interiors

1. Household and Office Furniture
2. Wall Panelling
3. Modular Kitchen
4. Profiles/Beadings

Commercial Construction

1. Doors/Panels
2. Aluminium Fabrication

Woodwork Industry

1. Handicraft Items
2. Trophy/Mementos and Awards
3. Die/Pattern Makers
4. Scientific Instruments
5. Mirror Frames
6. Photo Lamination and Photo Frames
7. Exhibitions
8. Porta Huts/Bunkers/Pre-fab Shelters

Others

1. Clocks
2. Display Items
3. Shoe Heels
4. Toys and Gift Items
5. Automobile Industry
6. Stationary Items
7. Textile Industry
8. Medical Equipments
9. Architect Models/Sculptures
10. Column Industry/Speaker Boxes
11. Packaging
12. Sewing Machine Tops
13. Sports Industry
14. Slates and Clip Boards
15. Wire Drums



SPECIFICATIONS AND STANDARDS

S. No.	Property	Unit	IS 12406 - 2003 (Plain)		IS 14587 - 1998 (Pre-laminated)	
			Grade II	Grade I	Grade II	Grade I
1	Density	Kg/m ³	600 - 900	600 - 900	500 - 900	500 - 900
2	Variation from mean density	%	±10	±10	±10	±10
3	Moisture content	%	5 - 10	5 - 10	5 - 15	5 - 15
4	Variation from mean moisture content	%	±3	±3	-	-
5	Water absorption (maximum)	%				
	a. After 2 hr. soaking		9	6	9	6
	b. After 24hr. soaking					
	i. Upto and including 6mm thick		45	30	18	12
	ii. 7 to 12mm thick		30	20		
iii. 13 to 19mm thick	20	13				
iv. 20mm and above thick	18	12				
6	Linear Expansion (maximum)	%				
	a. Due to general absorption after 24 hr soaking					
	i. Thickness		7	4	7	4
	ii. Length		0.40	0.30	-	-
	iii. Width		0.40	0.30	-	-
b. Due to surface absorption (in thickness)	5	4	-	-		
7	Modulus of rupture	N/mm ²				
	a. Up to 20mm thickness					
	i. Average		28	28	28	28
	ii. Minimum Individual		25	25	25	25
	b. Above 20mm thickness					
i. Average	25	25	25	25		
ii. Minimum Individual	22	22	22	22		
8	Modulus of elasticity	N/mm ²				
	a. Up to 20mm thickness					
	i. Average		2800	2800	2800	2800
	ii. Minimum Individual		2500	2500	2500	2500
	b. Above 20mm thickness					
i. Average	2500	2500	2500	2500		
ii. Minimum Individual	2300	2300	2300	2300		
9	Internal Bond	N/mm ²				
	a. Upto 20mm thickness					
	i. Average		0.80	0.90	0.80	0.90
	ii. Minimum Individual		0.70	0.80	0.70	0.80
	b. Above 20mm thickness					
i. Average	0.70	0.80	0.70	0.80		
ii. Minimum Individual	0.60	0.70	0.60	0.70		
10	Internal Bond	N/mm ²				
	a. After cyclic test *					
	i. Average		-	0.45	-	0.45
	ii. Minimum Individual		-	0.40	-	0.40
	b. After accelerated water resistance test *					
i. Average	-	0.30	-	0.30		
ii. Minimum Individual	-	0.25	-	0.25		
11	Screw withdrawal strength (minimum)	N				
	a. Face		1500	1500	1500	1500
	b. Edge (for thickness > than 12mm)		1250	1250	1250	1250
12	Abrasion Resistance (Minimum) resolutions	Nos.				
	i. Type - I		-	-	1000	1000
	ii. Type - II		-	-	450	450
	iii. Type - III		-	-	250	250
	iv. Type - IV		-	-	75	75

* Either 10a or 10b test

Green Panelmax is produced from 100% renewable & sustainable wood resources sourced from agro-forestry plantation trees, which have a life cycle of 4 years and cause no depletion of forest cover area.



Engineered Panel Division: Branches : North • Chandigarh : 9815330490, 0172-6530848 • Delhi : 9717595748, 011-45001300 • Ghaziabad : 9717595746, 0120-4117029
 • Jaipur : 9829061474, 0141-4011436 • Lucknow : 9005090770, 0522-4000474 **South:** • Bangalore: 9880532101, 080-22115664 • Cochin : 9746471035, 0484-4015151
 • Chennai: 9500058458, 044-42822669 • Hyderabad: 9000811821, 040-64619444 **East :** • Bhubneshwar: 9777454099, 0674-2583231
 • Guwahati : 9678071276, 0361-2734691 • Indore: 8120248711, 0731-4299005 • Kolkata: 9007011395, 033-30515000
 • Patna : 9771415726, 0612-2322464/0612-3260812 • Ranchi : 9934011690 **West :** • Ahmedabad : 09987706100 / 9723554173, 079-40093001/2/3/4/5
 • Mumbai: 09987706100 / 9619365658, 022-26108400/01 • Pune: 09987706100 / 9730075977, 020-41313167
Central: • Nagpur: 0712-2421129/2420607 • Raipur: 9752590038, 0771-3299380

**E-mail: info.panelmax@greenply.com; Website: www.greenpanelmax.com
 Toll Free No.: 1800 - 102 - 2999 (Monday- Friday; except holidays 9.30am - 5.30 pm)**