



# LIMITLESS POSSIBILITIES THAT LAST LONGER

Plywood | Blockboard | Flush Doors



GREENPANEL

## Greenpanel Industries Limited

3rd Floor, Plot No.68, Sector 44, Gurugram 122003, Haryana.

T +91-124-4784600 | F +91-124-4784699

(Monday to Friday except holidays 10am to 5pm)

Regd. Office: Thapar House, 2nd Floor, 163, S.P. Mukherjee Road,

Kolkata, West Bengal - 700026 Tel No : +91 33 4084 0600

CIN L20100AS2017PLC018272

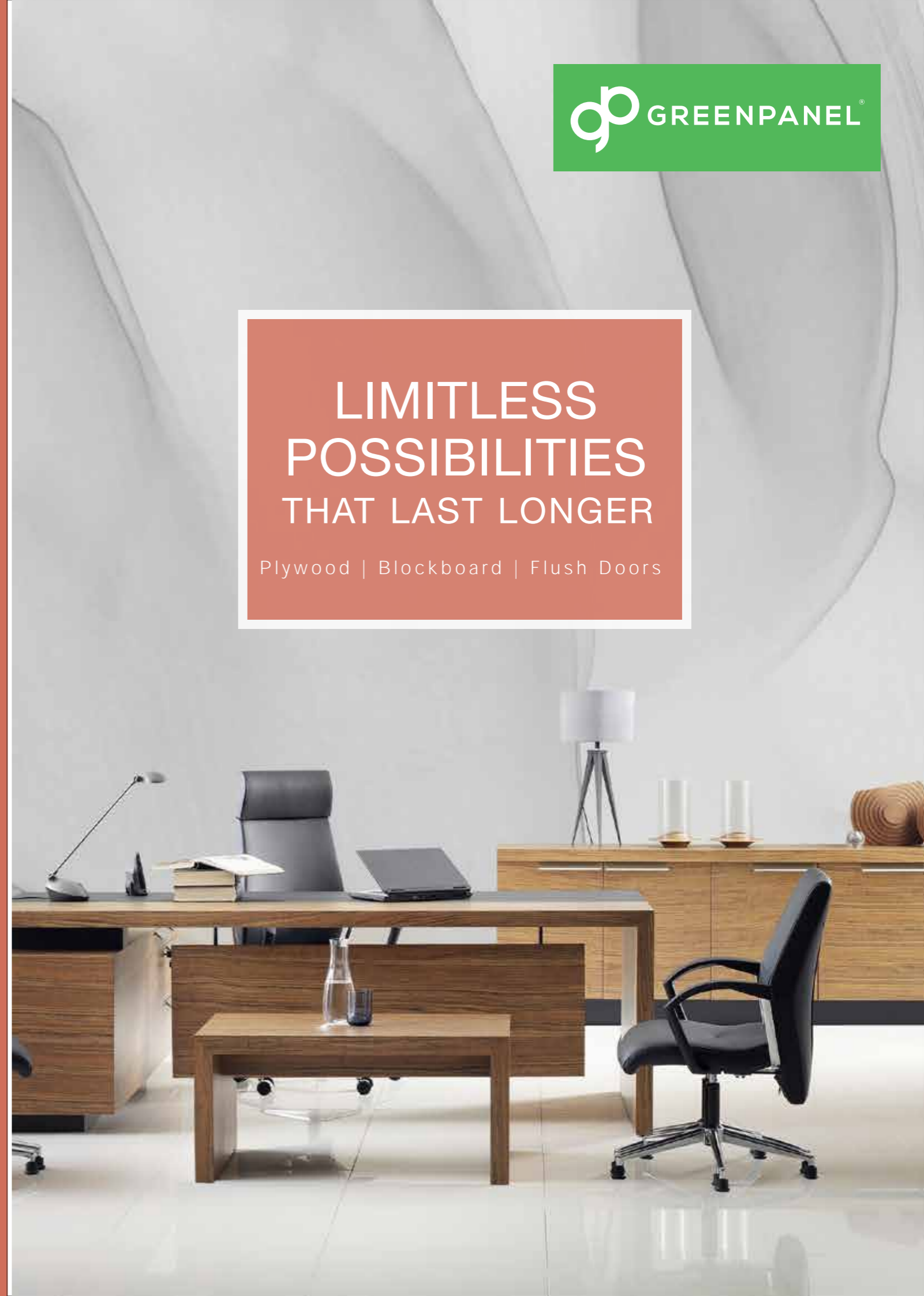
www.greenpanel.com  
Toll Free No. 1800-102-2999  
E info@greenpanel.com



Scan the QR Code



to view the website



# Dreamlike Homes

At Greenpanel, we turn your vision into reality. You seek perfection as you design your perfect space, and we bring you every bit of it, in every piece that you put together to build your dream. Greenpanel, India's largest wood panel manufacturer, is committed to bring the most advanced, good looking products across its portfolio to cater to the rapidly evolving needs of India's interior industry. From leading architects, interior designers, dealers, to your trusted wood contractors, our products are a trusted choice of everyone.

Under the leadership of our Chairman and pioneer of the most iconic brand in the country, Mr. Shiv Prakash Mittal and our MD Mr. Shobhan Mittal we are proud to present the new generation of plywood.



## Content

<b>1</b>	Introduction	<b>19</b>	GPRO Plywood
<b>5</b>	Patented Quadra Pro Technology	<b>23</b>	Blockboards
<b>7</b>	Club Plywood	<b>29</b>	Flush Doors
<b>11</b>	Gold Plywood	<b>31</b>	Technical Specifications
<b>13</b>	BWP Plywood		
<b>15</b>	MR Plywood		
<b>17</b>	Accurate 16 mm Plywood		



## Reducing Our Carbon Footprint

We have made it a point to adopt only the best eco-friendly practices across our operations. Our resources are scarce, and it makes sense to use them judiciously. And so, instead of sourcing timber from natural forests, we source it from our agroforestry plantations, which have been setup for this sole purpose. In addition, the chain of custody while procuring raw material is strictly monitored so that each product that we offer can be marked with eco-friendly label.

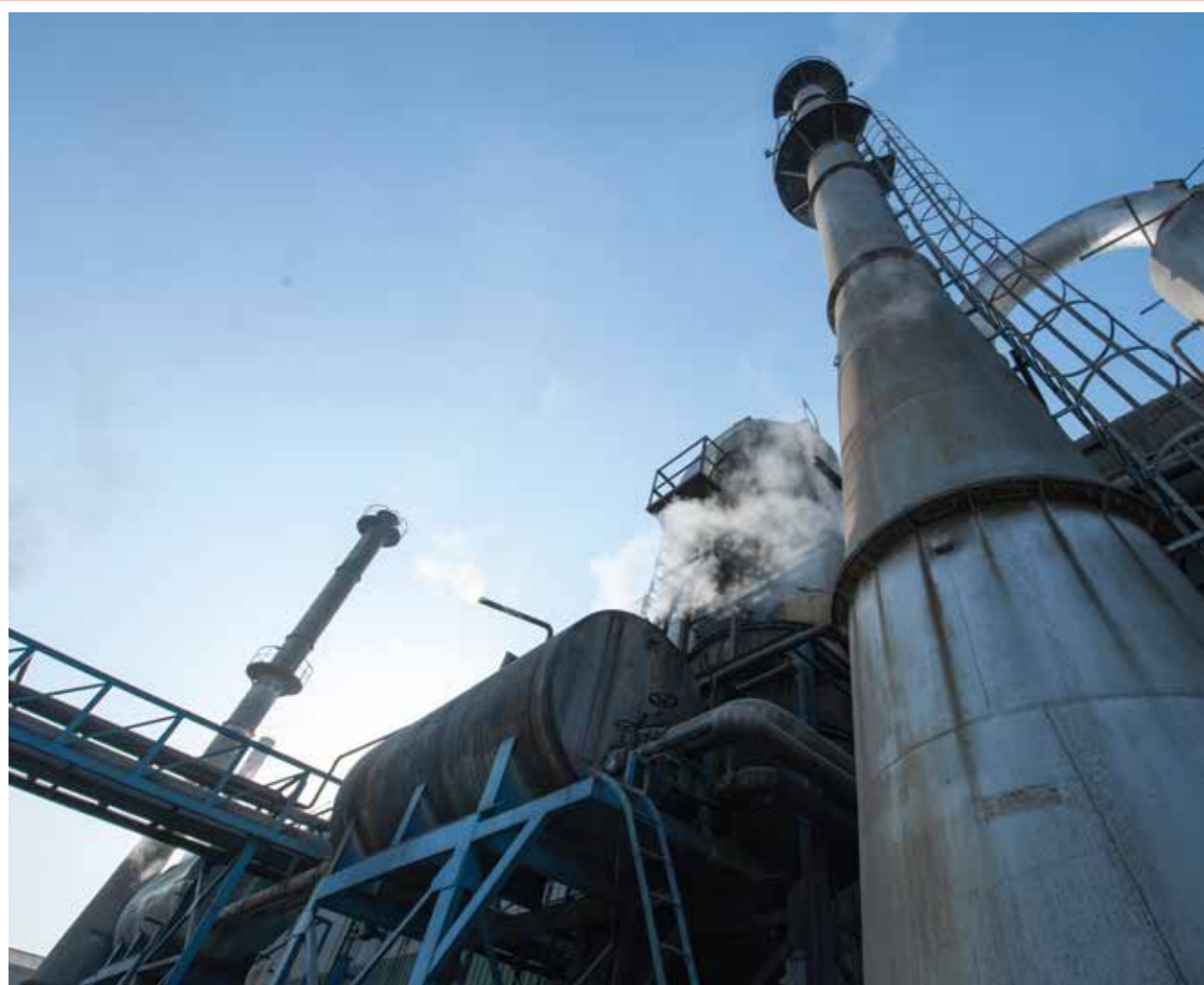


## Why Are We The Most Trusted Choice?

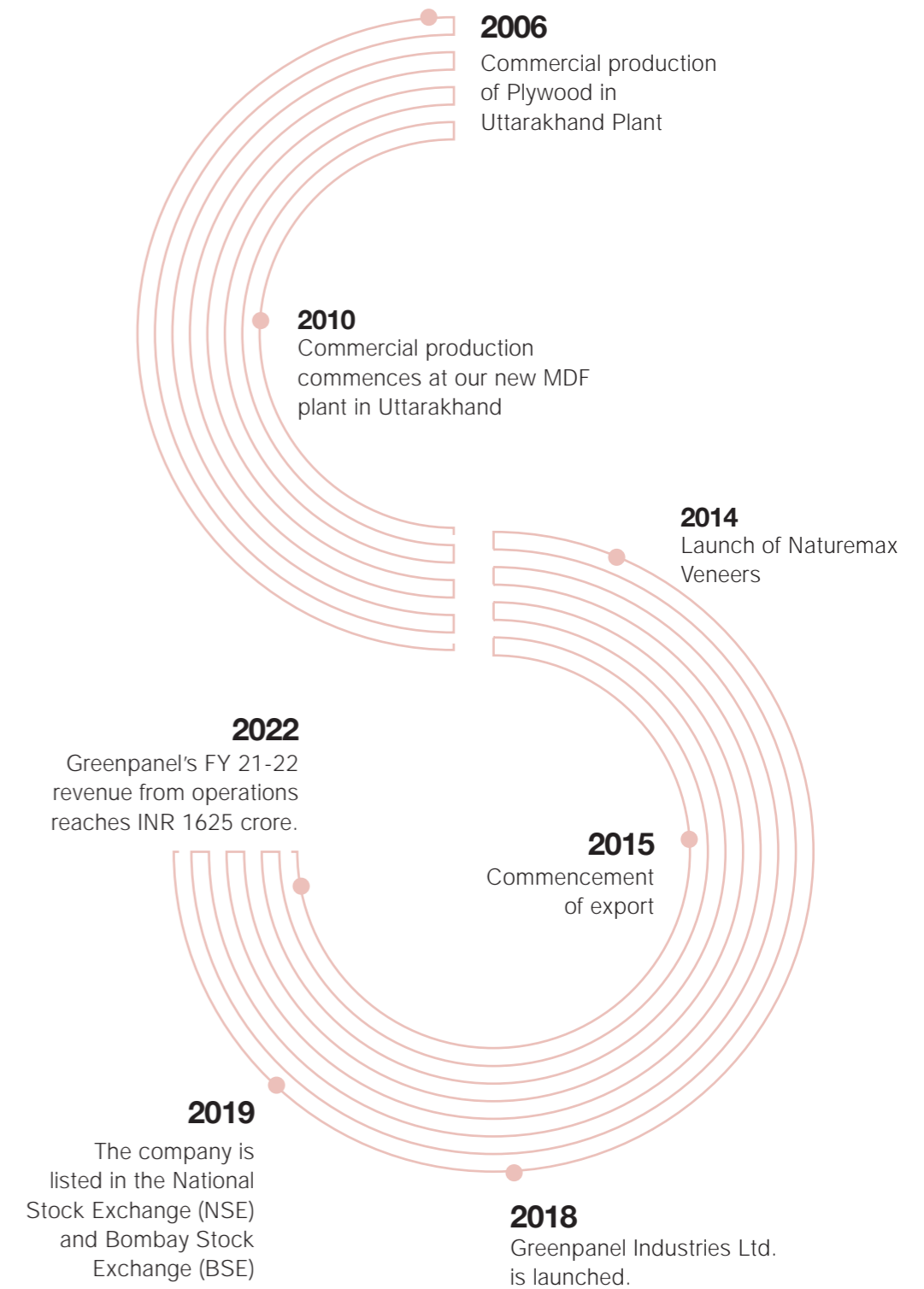
Greenpanel proudly fits the requirements of many national and international standards for different grades of plywood. Our plywood range can stand more than six cycles of boiling and drying, indicating the best-in-class bond quality. Our static bending properties MOR and MOE are higher than the required standard.

# State-of-the-art Manufacturing Facility

Greenpanel is India's largest manufacturer of wood panels. We are a group of individuals who see a wood panel not for what it is, but for what it can be. As a result, we've grown to represent the infinite possibilities in wood panelling. Our state-of-the-art plants in Uttarakhand and Andhra Pradesh, produce world-class MDF, Plywood, Wooden Flooring and Doors.

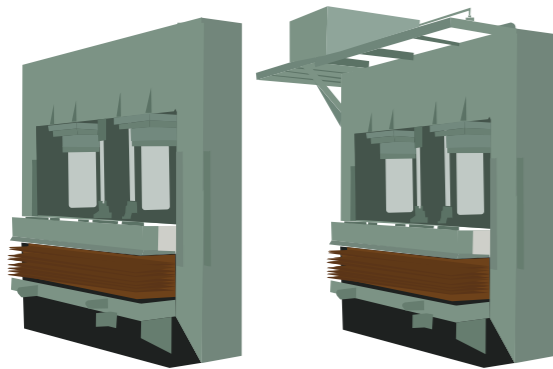


# Our Rich Legacy



# Patented Quadra Pro Technology

Greenpanel takes pride in being the pioneer of the revolutionary Patented Quadra Pro Technology, a 4-Stage, multi steps manufacturing process, that ensures no blisters, delamination or warping so that you get the perfect piece of plywood (perfect thickness & defect free surface).



Defect Free



Uniform thickness



- Log Selection
- Peeling into Veneer
- Tenderising
- Drying
- Veneer Conditioning

- Veneer Preparation (Pre-setting)
- Veneer Screening/Upgradation
- Uniform Thickness Veneer
- Composing of panel / core
- Gluing of the veneer

- Matt Assembly
- Pre-pressing
- Surface Finish of Pre-pressed Matt
- Hot-pressing

- Rough Cutting
- Calibration
- Surface Preparation
- Inspection

- Gluing of Matt
- Overlaying with Face Veneer
- Pre-pressing
- Hot-pressing

- Conditioning of Plywood
- Trimming to Final Size
- Sanding
- Edge Finish

- Preservative Treatment
- Inspection
- Buffing
- Branding
- Dispatch





\*Lifetime guarantee against manufacturing defects

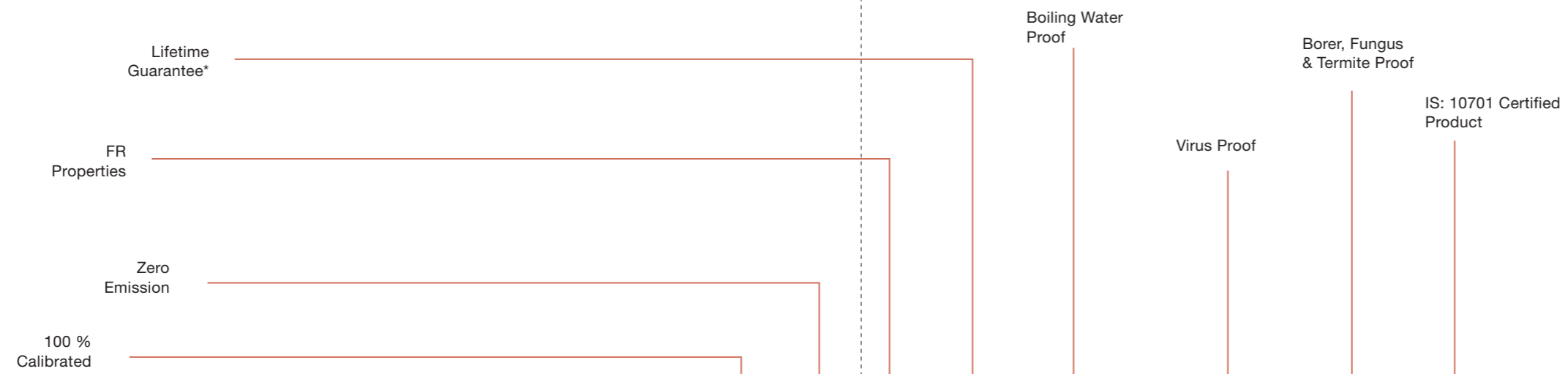


\*Terms & Conditions Apply

## Club Plywood

Greenpanel Club Plywood is a premium quality plywood, from the house of India's largest wood panel manufacturer. It offers high strength and lifelong durability because it conforms to IS 10701. It is made from the best quality raw material which ensures high density, good bending strength, high impact resistance and surface finish characteristics. Owing to the nature of manufacturing plywood, most plywood's emit formaldehyde. But in Greenpanel Club Plywood there are no emissions, making it absolutely safe for indoor applications in homes. Greenpanel Club Plywood is a zero-emission product, which makes sure that the health of the occupants is not compromised and health needs of occupants is duly addressed in the interior sector. This specially developed product comes with a lifelong guarantee, ensuring that you don't have to worry for your piece of art, and have peace of mind for your lifetime. We have also introduced Anti-Virus treatment to our product, making it safe for interiors. This product is virus proof making the surface safe for you.

One of the best safety measures that can safeguard your home is the fire retardant property in a plywood. We have added fire retardant treatment to our Greenpanel Club Plywood. The low-flammability nature of the fire-retardant plywood lowers the chances of spark or ignition. It is treated for flammability which reduces the chances of fire-accidents in your home or office. At Greenpanel, we start this cycle of no-compromises from the very beginning. So, If you're looking for a strong and durable plywood, Greenpanel Club Plywood is your answer. Greenpanel Club Plywood is manufactured using the Patented Quadra Pro Technology with utmost care and love. It is calibrated on both sides for uniform thickness, and it goes through 3 level of preservative treatments with glue line protection to ensure it is borer-proof, microbiological decay resistant and termite proof. Greenpanel Club Plywood ensures lifetime durability and comes with a lifelong guarantee and is CARB certified, to ensure complete peace of mind for the consumers.



## Application

- Places of heavy footfall
- Indoor and outdoor furniture, interior designs, domestic and commercial buildings, cabinets and shelving
- Boat, yacht construction, ship flooring and furniture and other marine applications
- Fixed & loose furniture in top end kothis, bungalows, pent houses, multi-story flats, premium offices, hospitality sectors etc.

\*Terms & Conditions Apply





## Gold Plywood

Greenpanel Gold BWP Plywood is the new gold standard in the plywood category that sets the highest benchmarks and comes with 30 years guarantee. It is fully waterproof and specifically designed for applications subject to permanent exposure to the weather or moisture. With proven performance, durability and excellent dimensional stability. It is a premium marine grade plywood with excellent dimensional stability, can withstand continuous frequent shift of dry and wet conditions, and is best suited for applications demanding high strength and rigidity.



## Application

- Outdoor furniture
- Shipbuilding and other marine applications
- Areas exposed to moisture, both inside and outside
- Office woodwork
- Partitions and panelling
- Cooling tower applications
- Furniture and kitchen cabinet





\*Terms & Conditions Apply.

## BWP Plywood

Greenpanel Boiling Water Proof (BWP) Plywood is a waterproof, premium plywood that ensures excellent durability against any weather condition and comes with 25 years guarantee. Made with carefully selected hardwood species timber that give it strength and stiffness, BWP Plywood is capable of handling changing weather conditions (wet and dry) without the risk of delamination, swelling and warping. The BWP type synthetic resin makes it water proof, and preservatives between each layer using the glue line treatment (GLT) process protect it from termite, borer, fungus and virus infestation. Greenpanel BWP plywood is dimensionally stable and extremely sturdy. This product conforms to IS 710 specifications.

## Application

- Outdoor furniture
- Shipbuilding and other marine applications
- Areas exposed to moisture, both inside and outside
- Interior design and fittings
- Woodwork and joinery
- Furniture and kitchen cabinet



\*Terms & Conditions Apply.



## Application

- Best for partitions, panelling, door panels, cabins and false ceilings
- Other applications include furniture parts, lamps, interiors, toys, souvenirs, musical instruments, speakers, interior designs and other product fabrication
- High-end packaging

## MR Plywood

Greenpanel Moisture Resistant (MR) Plywood is made for interior spaces that see water activity. Its superior moisture resistant properties and construction not only make it withstand weather variance but also provide it with high strength. MR plywood is borer proof, and resistant to fungus and termite infestation. It is an interior grade plywood of high-quality construction with excellent durability and good-looking surface. MR plywood is easy to work with and goes perfectly well with finish materials. It is moisture resistant, carpenter-friendly and ideal for interior use and manufacturing of furniture parts and toys.





100%  
Calibrated



## Accurate 16 mm BWP Plywood

Accurate 16mm plywood is a “fully calibrated plywood with accurate thickness”. It is produced from rotary-cut, smooth, uniform thickness veneers, sourced from specially selected eco-friendly timber. Its medium and high-density layers of plywood ensure excellent cohesive bonding. Additionally, Accurate 16mm plywood is dimensionally stable and extremely durable with lesser susceptibility to weather variance. Accurate 16mm plywood is boiling waterproof with unextended BWP type resin and made up of 100% composed core. Borer proof and termite resistant - Accurate plywood is special range of 16mm calibrated plywood and is highly demanded by OEMs and interior designers.

## Application

- Modular kitchen, cabinets and shelving
- Joinery, furniture, furniture fitments, interior design, domestic and commercial buildings
- Vehicle flooring and laminate industry
- Shipbuilding, boat, yacht construction and other marine applications





## GPRO 710 Plywood

GPRO 710 plywood, “fully loaded plywood”, is a versatile product that is superior in quality, craftsmanship and environment sustainability. It is made of carefully chosen timber, has the best of surfaces and is bonded with quality resin. It is high strength plywood that can withstand boiling water, dry heat, pests and extreme weathers. This versatile product adds value to interiors and exteriors in homes, offices and large installations.

## Application

- Joinery, furniture, furniture fitments, interior design, domestic and commercial buildings
- Modular kitchen, cabinets and shelving
- Vehicle flooring and laminate industry
- High-end packaging





\*Terms & Conditions Apply

## GPRO MR Plywood

GPRO MR Plywood is sourced from specially selected eco-friendly timber. GPRO MR is borer and termite resistant with lesser susceptibility to weather variance. GPRO MR plywood is easy to work with and is moisture resistant. This material is ideal for interior use and manufacturing of furniture parts.

## Application

- Best for partitions, panelling, door panels, cabins and false ceilings
- Other applications include furniture parts, lamps, interiors, toys, souvenirs, musical instruments, speakers, interior design and other product fabrication

5 Years\*  
Guarantee

Low Emission

Borer Proof &  
Termite Resistant

Weather  
Proof

Moisture  
Resistant

IS: 303 Certified  
Product





## Blockboards

Greenpanel blockboards are superior quality blockboards that are ideal for all weather conditions and applications. Our range of blockboard is made with pine fillers and frame that are uniform in dimension and treated with preservatives, for greater strength and durability.

## MR Blockboard

MR Blockboard is a premium quality board with high resistant properties against borer and termites. Face veneer, core veneer & wooden battens in blockboard are well selected and preservative treated against termites and borers. The wooden battens are thoroughly seasoned in scientifically run seasoning kiln plants and then cut with great precision to obtain uniform thickness. Double layered cross bands on top & bottom make the board stiff and warp free. The wood battens are long and systematically arranged in the supervision of qualified supervisor and utmost care is taken to avoid any extra gap between the battens. Regular tests are conducted to maintain the quality of blockboards as per the standards of IS 1659: 2004.



7 Years\*  
Guarantee

Moisture  
Resistant

IS: 1659 Certified  
Product

Low  
Emission

100 %  
Calibrated

Borer Proof &  
Termite Resistant

## Application

- Suitable for vertical applications such as doors, cupboards, racks, panel and partition walls
- Furniture, bookshelves and boxes
- Back support of wardrobe shutters and bathroom cabinetries



## BWP Blockboard

Greenpanel BWP Blockboard is manufactured from 100% kiln seasoned hardwood species, bonded with BWP type synthetic resin, pressed at very high temperature and pressure that ensures excellent dimensional stability and uniform surface quality. Use of double layered cross bands on top and bottom of the assembly makes the blockboard stiff and warp free.

## Application

- Suitable for vertical applications such as doors, cupboards, racks, panel and partition walls
- Furniture, bookshelves and boxes
- Back support of structural work, kitchen and wardrobe shutters and bathroom cabineries







## Flush Doors

Greenpanel flush doors are stiff, impact resistant and possess high strength. Our doors are manufactured from select imported pine timber, are preservative treated and kiln seasoned. Due to their durability and high dimensional stability, these heavy-duty flush doors are used for exterior as well as interior purposes. Our doors are structurally sturdy and good insulators of heat and sound. Double layered cross bands on top and bottom are evenly tenderized and dried to the necessary moisture content as per IS: 1141-1991. Higher quality premium BWP type synthetic resin conforming to IS: 848-1974 is used for bonding, making our doors 100% boiling waterproof.

## Application

- Seamless for all classes of interiors and applications including commercial building, homes and offices
- Reception zone, a meeting chamber, an outlet, or any other kind of commercial arrangement
- High-rise apartments, hospitals, offices, hotels, factories, bungalows and villas
- Kitchen and bathroom

An IS 2202 (part 1) certified product

25 Years Guarantee\*

Carpenter friendly and budget friendly

Surface treated with anti-bacterial, anti-fungal and anti-virus nano technology

Termite resistant and borer proof

No undulation for better application of laminate and veneers

Boiling waterproof

Double layered cross bands on top & bottom make it warp free

Ready to install



Ideal for both classic and modern interiors

Customized and tailor made

Wider rails and stile

Dimensionally stable in varying humidity conditions

High screw holding capacity

Wide range of decorative doors is available as per market demand

Heavy duty extremely durable

# Technical Specifications

## Greenpanel Club Plywood

S. No.	Test Parameter	Units	Prescribed Value as per Indian Specifications (IS 10701)	Observed Value Club Plywood
1)	Dimensions & tolerance			
	Length	mm	+6 / -0	+2 / -0
	Width	mm	+3 / -0	+1 / -0
	Thickness	%	±5%: 6mm & above	+1.0
	Squareness	%	Max 0.20	0.08
	Edge straightness	%	Max 0.20	0.07
2)	Moisture content	%	5-15	10
3)	Glue adhesion in dry state			
	Glue shear strength	N	Avg.1,350, Min.1,100	Avg.1,420, Min.1,200
	Adhesion of plies		Min. Pass	Excellent
4)	Resistance to water			
	Glue shear strength	N	Avg. 1,000, Min.800	Avg.1,370, Min.1,285
	Adhesion of plies		Min. Pass	Excellent
5)	Mycological test			
	Glue shear strength	N	Avg. 1,000, Min.800	Avg.1,390, Min.1,340
	Adhesion of plies		Min. Pass	Excellent
6)	Static bending strength			
	Modulus of rupture	N/mm <sup>2</sup>		
	a) Along the grain			
	i) Average		Min. 50	65.89
	ii) Min. Ind.		Min. 45	63.56
	b) Across the grain	N/mm <sup>2</sup>		
	i) Average		Min. 30	45.76
	ii) Min. Ind.		Min. 27	35.91
	Modulus of elasticity			
	a) Along the grain	N/mm <sup>2</sup>		
	i) Average		Min. 7,500	8,100
	ii) Min. Ind.		Min. 6,700	7,800
	b) Across the grain	N/mm <sup>2</sup>		
	i) Average		Min. 4,000	4,600
	ii) Min. Ind.		Min. 3,600	4,100
7)	Wet bending strength			
	Modulus of rupture			
	a) Along the grain	N/mm <sup>2</sup>		
	i) Average		Min. 25	30.6
	ii) Min. Ind.		Min. 22	28.0
	b) Across the grain	N/mm <sup>2</sup>		
	i) Average		Min. 15	21.0
	ii) Min. Ind.		Min. 13	18.0
	Modulus of elasticity			
	a) Along the grain	N/mm <sup>2</sup>		
	i) Average		Min. 3,750	4,080
	ii) Min. Ind.		Min. 3,400	3,850
	b) Across the grain	N/mm <sup>2</sup>		
	i) Average		Min. 2,000	2,440
	ii) Min. Ind.		Min. 1,800	2,100
8)	Tensile strength	N/mm <sup>2</sup>		
	Along the grain		55	76
	Across the grain		35	51
9)	Compressive strength	N/mm <sup>2</sup>		
	Along the grain		35	47.5
	Across the grain		30	39.8
10)	Panel shear strength	N/mm <sup>2</sup>	12.5	14.7
11)	Modulus of rigidity	N/mm <sup>2</sup>	588	650
12)	Rolling shear strength	N/mm <sup>2</sup>	3	4.5
13)	Retention of preservatives	Kg/m <sup>3</sup>	12	15.7

## Greenpanel BWP, Gold, Accurate and GPRO 710 Plywood

S. No.	Test Parameter	Units	Prescribed Value as per Indian Specifications (IS 710:2010)	Observed Value Greenpanel BWP	Observed Value Greenpanel GOLD	Observed Value Greenpanel ACCURATE	Observed Value Greenpanel G PRO 710
1)	Dimensions & tolerance						
	Length	mm	+6 / -0	+2 / -0	+3 / -0	+2 / -0	+3 / -0
	Width	mm	+3 / -0	+1 / -0	+2 / -0	+2 / -0	+3 / -0
	Thickness	%	±5%: 6mm & above	+1.6	+1.7	+2	+2.5
	Squareness	%	Max 0.20	0.11	0.12	0.1	0.12
	Edge straightness	%	Max 0.20	0.12	0.14	0.1	0.11
2)	Moisture content	%	5-15	8-10	8-10	8-10	8-10
3)	Glue adhesion in dry state						
	Glue shear strength	N	Avg.1,350	Avg.1,445	Avg.1,450	Avg.1,440	Avg.1,410
	Adhesion of plies		Min.1,100	Min.1,280	Min.1,285	Min.1,275	Min. 1,208
	Adhesion of plies		Min. Pass	Excellent	Excellent	Excellent	Excellent
4)	Resistance to water						
	Glue shear strength	N	Avg. 1,000	Avg.1,170	Avg.1,175	Avg.1,160	Avg. 1,124
	Adhesion of plies	N	Min. 800	Min. 985	Min. 990	Min. 980	Min. 925
	Adhesion of plies		Min. Pass	Excellent	Excellent	Excellent	Excellent
5)	Mycological test						
	Glue shear strength	N	Avg.1,000	Avg. 1,140	Avg.1,150	Avg.1,130	Avg. 1,121
	Adhesion of plies		Min. 800	Min. 917	Min. 920	Min. 910	Min. 906
	Adhesion of plies		Min. Pass	Excellent	Excellent	Excellent	Excellent
6)	Static bending strength						
	Modulus of rupture	N/mm <sup>2</sup>					
	a) Along the grain						
	i) Average		Min. 50	53.7	54	52.5	51.7
	ii) Min. Ind.		Min. 45	47.8	48	46.2	46.9
	b) Across the grain	N/mm <sup>2</sup>					
	i) Average		Min. 30	33.56	33.70	32.1	31.45
	ii) Min. Ind.		Min. 27	29.53	30.00	28.5	28.14
	Modulus of elasticity						
	a) Along the grain	N/mm <sup>2</sup>					
	i) Average		Min. 7,500	7,785	7,795	7,740	7,654
	ii) Min. Ind.		Min. 6,700	6,936	6,940	6,910	6,873
	b) Across the grain	N/mm <sup>2</sup>					
	i) Average		Min. 4,000	4,317	4,315	4,300	4,215
	ii) Min. Ind.		Min. 3,600	3,891	3,895	3,820	3,798
7)	Wet bending strength						
	Modulus of rupture						
	a) Along the grain	N/mm <sup>2</sup>					
	i) Average		Min. 25	28.16	28.20	27.4	26.41
	ii) Min. Ind.		Min. 22	24.21	24.50	24.5	23.7
	b) Across the grain	N/mm <sup>2</sup>					
	i) Average		Min. 15	17.62	17.71	17.5	16.98
	ii) Min. Ind.		Min. 13	14.98	15.11	14.2	14.54
	Modulus of elasticity						
	a) Along the grain	N/mm <sup>2</sup>					
	i) Average		Min. 3,750	3,914	3,978	3,970	3,842
	ii) Min. Ind.		Min. 3,400	3,652	3,655	3,650	3,588
	b) Across the grain	N/mm <sup>2</sup>					
	i) Average		Min. 2,000	2,340	2,346	2,340	2,248
	ii) Min. Ind.		Min. 1,800	2,011	2,015	2,010	2,009
8)	Tensile strength	N/mm <sup>2</sup>					
	Along the grain		42	45.5	46.10	47.1	46.05
	Across the grain		25	39.6	40.05	38.4	39.39
	Sum of along & across		84.5	85.1	86.15	85.5	85.44
9)	Retention of preservatives	Kg/m <sup>3</sup>	12	12.72	12.65	12.5	12.49

### Greenpanel MR and GPRO MR Plywood

S. No.	Test Parameter	Units	Prescribed Value as per Indian Specifications (IS 303:1989)	Observed Value Greenpanel MR	Observed Value Greenpanel G PRO MR
1.	Dimensions & tolerance				
	Length	mm	+ 6 mm - 0 mm	+3	+2
	Width	mm	+ 3 mm - 0 mm	+2	+1
	Thickness	%	± 10 % for < 6mm & ±5 % for ≥6mm	1.5	1.7
	Squareness	%	0.2	0.05	0.06
	Edge straightness	%	0.2	0.07	0.08
2.	Moisture content	%	5-15	8	8
3.	Static bending strength	N/mm <sup>2</sup>			
	Modulus of rupture				
	a) Along the grain	N/mm <sup>2</sup>			
	i. Average		30	34.15	32.96
	ii. Min. Ind.		27	30.21	28.67
	b) Across the grain				
	i. Average		15	20.73	17.65
	ii. Min. Ind.		13	15.01	17.38
	Modulus of elasticity:				
	a) Along the grain	N/mm <sup>2</sup>			
	i. Average		4,000	4,380	4,185
	ii. Min. Ind.		3,600	3,950	3,794
	b) Across the grain				
	i. Average	N/mm <sup>2</sup>	2,000	2,349	2,126
	ii. Min. Ind.		1,800	2,146	1,945
4.	Glue adhesion water resistance test. (3 cycle of 3 hrs. in warm water @ 60±2°C & 8 hrs. drying at 65±2°C) in hot air oven as per IS:1734 (Part.5)		Min pass standard	Excellent	Excellent
5.	Mycological test	N/mm <sup>2</sup>	Min. pass standard	Excellent	Excellent



### Greenpanel BWP Blockboard

S. No.	Test Parameter	Units	Requirement as per IS:1659 : 2004	Observed Value BWP Blockboard
1.	Dimensions & tolerance			
	Length	mm	+ 6 mm - 0 mm	+1
	Width	mm	+ 3 mm - 0 mm	+1
	Thickness	%	± 5 %	2
	Squareness	%	0.2	0.15
	Edge straightness	%	0.2	0.15
2.	Dimensional change caused by humidity			
	a. Maximum local planeness		< 1/150	1/380
	b. At extreme range of humidity		No delamination	No delamination
3.	a) Modulus of elasticity	N/mm <sup>2</sup>		
	Along the grain			
	i. Average		5,000	6,667
	ii. Min. Ind.		4,200	5,994
	b) Modulus of rupture	N/mm <sup>2</sup>		
	Along the grain			
	i. Average		> h50	58
	ii. Min. Ind.		42	56
4.	Resistance to water test (72 hrs. boiling)		Min. pass standard	Excellent
5.	Spot test		Through and through penetration of preservative chemicals	Confirms

### Greenpanel MR Blockboard

S. No.	Test Parameter	Requirement as per IS:1659: 2004	Observed Value MR Blockboard
1.	Dimensions & tolerance		
	Length (mm)	+ 6 mm - 0 mm	+ 3
	Width (mm)	+ 3 mm - 0 mm	+ 2
	Thickness (mm)	+/- 5 %	+ 1.75
	Squareness	0.20%	0.09
	Edge straightness	0.20%	0.08
2.	Dimensional change caused by humidity		
	Change in length		
	a) From 65% RH to 90 %RH	+/- 1	+0.01
	b) From 65% RH to 40 %RH	+/- 1	-0.01
	Change in thickness		
	a) From 65% RH to 90 %RH	+/- 1	+0.01
	b) From 65% RH to 40 %RH	+/- 1	-0.01
	Maximum local planeness	Not greater than 1/150	1/365
	At extreme range of humidity	No delamination	No delamination
3.	a) Modulus of elasticity (N/mm <sup>2</sup> )		
	Along the grain		
	i. Average	4,000	5,407
	ii. Min. Ind.	3,400	5,196
	b) Modulus of rupture (N/mm <sup>2</sup> )		
	Along the grain		
	i. Average	40	60.47
	ii. Min. Ind.	34	56.3
4.	Resistance to water test (60±2 °C in warm water for 3 hours)	Min. pass standard	Excellent
5.	Mycological test	Min. pass standard	Excellent
6.	Spot test	Through and through penetration of preservative chemicals	Confirms

## Greenpanel Flush Doors

S. No.	Test Parameter	Units	Requirement as per IS:2202(Pt-I): 1999	Observed Value Flush Doors	
1	Dimensions	mm			
	Length	mm	± 5 mm	1.5	
	Width	mm	± 5 mm	0	
	Thickness	mm	± 1 mm	0.12	
			Variation in the thickness between any two points not more than 0.8 mm	0.55	
	Squareness	mm	Deviation not more than 1 mm per 500 mm length	0.4	
2	General flatness	mm	Twist, cupping & warping not greater than 6 mm	3	
3	Local planeness	mm	Depth of deviation not greater than 0.5 mm	0.15	
4	End immersion test		No delamination	Confirms	
5	Glue adhesion test		No delamination	Confirms	
6	Knife test		Minimum pass standard	Excellent	
7	Impact indentation	mm	No cracking, tearing or delamination	Confirms	
			Depth of indentation not greater than 0.2 mm	0.14	
8	Slamming		No visible damage after 50 drops	Confirms	
9	Flexure (deflection)	mm	Deflection at maximum load not greater than		
			15 mins after loading 50 Kg	1/30 of length & 1/15 of width, whichever is less	55.62
			3 mins after load removal	Residual deflection not greater than 1/10 of maximum deflection	2.44
10	Shock resistance				
			Soft and light body impact	No visible damage	Confirms
			Soft and heavy body impact	No visible damage	Confirms
11	Buckling (deflection in mm)		No deterioration	Confirms	
			After 5 mins of 40 Kg loading	Initial deflection not greater than 50 mm	43.72
			15 mins after load removal	Residual deformation after 15 minutes of unloading not greater than 5 mm	3.17
12	Edge loading (deflection)	mm			
			After 15 mins of 100 kgs loading	Deflection at max. load not greater than 5 mm	3.18
			3 mins after load removal	Residual deflection after removal of load not greater than 0.5 mm	0.35
			Lateral buckling	Not more than 2 mm during loading	1.22
			Residual lateral buckling	No residual lateral buckling after load removal	Confirms
13	Screw withdrawal strength	N	Not less than 1,000	2,000	
				Confirms	
			Surface condition: no visible damage to the surface either by delamination of extra chipping off at the points of withdrawal		
14	Varying humidity test		No visible warping, twisting or delamination	Confirms	
			Maximum departure from the general planeness not more than 1 mm	0.47	
			Recovery – At least 90% of the change in dimension	99.02	
15	Misuse		No permanent deformation of the fixing or any other part of the door set in hindering its normal working after test	Confirms	

Limitless possibilities  
begin with Greenpanel

## Certificates

Greenpanel is certified with- ISO 9001:2015, ISO 14001:2015, ISO 45001:2018  
FSC-C099985, CARB, EPA, IGBC, CE.