Laxmi

Laxmi structural plywood is an engineered wood panel designed to be a high-strength sheet for use in general structural building and construction, subject to an application's load bearing requirements. Commonly used as an un-treated panel, but it is also available in treated variant typically HS-S, H2 or H3. Made of selected range of gymnosperms & angiosperms specie timer, structural plywood is manufactured using type A phenolic adhesive. The product conforms to IS:10701 (2012).

GRADE & TYPE

- Overlayed APA's structural A-A, A-b, A-c, C-C, C-D, D-D,
- sturd–I-floor, Underlayment, CC plugged & CD plugged. Non-overlayed APA plywood panels surface finish: Sanded touch sanded & un-sanded

STANDARD THICKNESS (IN MM)

6, 9, 12, 16, 19, 25.

STANDARD SIZES (IN MM)

2400 x 1220

- Internal Structures

- Wall bracing
- Roof bracing
- Roofing substrates

ADVANTAGES

- 2 x shear carrying capacity compared
 - to timber
- Offers greater dimensional stability
- Offers high strength to stiffness to weight ratio
- Resistant to chemicals, corrosion and damage.
- Allows nails close to panel edges.

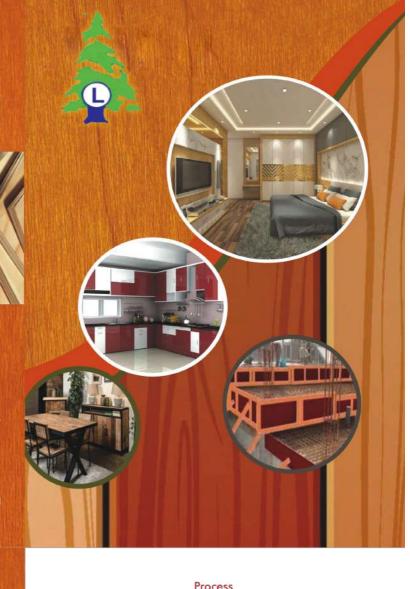


A Premium Product Of :

Laxmi Timber Industries

Bentinck Chambers, Suit 204 & 208A (2nd Floor) 37A, Bentinck Street, Kolkata - 700 069, W.B. Ph.: 033 4007 8564, Email: laxmitimberindustries@gmail.com

Factory : Vill & P.O. : Balakuthi, Baxirhat, Coochbehar, West Bengal



Laxmi Teak Ply, Board & Door

Laxmi teak veneer overlayed ply, board and doors are of extremely durable, technically sound and aesthetically of highest caliber. These changes the look of applied furniture into a beautifully vintage spectrum post mirror / mat finish polish. These enhance the life and appearances of each furniture and door items.

Bonded with thermosetting adhesive in specific temperature and pressure, these Burmese Teak Veneer overlayed panels are manufactured in accordance with (similar to) IS: 1308.

SALIENT FEATURES

Accuracy & stability in dimension.

No expand, contract, warping &

Free from borer, termite & powder

GRADE & TYPE

BWP, BWR & MR

STANDARD THICKNESS (IN MM) 4, 6, 9, 12, 16, 19, 25, 32, 35.

STANDARD SIZES (IN MM)

2440 x 1220 & standard ordered sizes

2440 x 1220, 2440 x 920, 2140 x 1220 2410 x 920, 1840 x 1220, 1840 x 920

Length 1840 up to 2440 in every 51 mm difference & 69 mm onwards up to 1220 mm in every 51 mm difference in width.

- Aesthetic doors, windows
- Interior make overs
- Partition & false ceilings

Some of our recomended projects:

Eden Group - Solaris Project Srirampur

1. Jalpaiguri High Court

2. Tripura Govt. Work

3. Real Decor, Kolkata

4. Muskan Group - Skylake 5. Ambuja Utalika

6. Prasad Group 7. Eden group - Solaris Project Joka

subjected to change in

North Bengal. The 4.5 Acre production complex annually rools out high grade ply, mainly from most stable Dipterrocarpus species.

The production facilities include a range of state-of-the-art equipment for cutting, shaving, splicing, polishing and chemical treatment as well as for research and development. Commercial, Marine, Concrete Shuttering, board & doors are all produced at the plant.

Laxmi Timber Industries plant is located at Balakuthi, Jorai More, Boxirhat,

Technical Story

Automatically controlled jet drying and dampening. Adhesive preparation.

- Un-extended phenol formaldehyde bonded resin for marine & concrete shuttering.
- Preservative treated each plywood.
- Dipterrocarpus species used.
- Telescopic spindles and back up roll mechanism.
- Pre press and calibration.
- Wrap-proof technology.

Our Projects

- Shuttering

- Shuttering

- Shuttering, Plywood, boards,

- Shuttering

- Shuttering

- Shuttering

- Flush Door

- Flush Door

Export Nepal, Bhutan

And many more, since 1981

Laxmi Timber Industries has been one of the pioneers in plywood manufacturing giants in India. We believe in applying technology and quality with innovation. This philosophy has been the cornerstone in all our processes. It has led us to design and deliver vintage as well as contemporary life style statements that have become synonymous with modern living. Our quality products have been re-defining. They are giving long and durable product range for living spaces. Laxmi Timber Industries, our mother concern, came in to existence in 1981 as a result of foresightedness of the visionary Mr. Dipak Nandy. Since then, the company has taken giant strides and today, the quality product seller of multi use plywood, block board, flush door & shuttering, the Indian plywood market & are still growing.

Laxmi Timber's products are automatic choice of architects interior designers, contractors and carpenters. They strongly recommend our products for transforming ordinary steel and concrete structures to expressions of ones personality. From flexible plywoods to concrete shuttering plywoods, marine plywoods to fire retardant plywoods, Lami doods to teak plywoods, we have the right product to target and fulfill different building needs.

Now in 43rd year of operations, Laxmi Timber enjoys a unique brand identity in the market setting new quality benchmarks. We are guided by simple philosophy of adding more value-for-money products and at the same time, improving upon our existing product portfolio through extensive research and customer feedback.

Key Milestones

- One of the oldest running company for plywood, board, doors & shuttering.
- Constant product improvisation, quality enhancement and most competitive rates.
- Our success is reflected by a consistent year-on-growth rate, with "Construction World".
- Today, we are a one-point manufacturing unit of all kinds of plywoods and plywood related products, offering highest standard quality.

Our CSR (Corporate Social Responsibility)

For Laxmi Timber Industry Corporate social responsibility is the continuing commitment by business to behave ethically and contribute to economic development while improving the quality of life of the workforce and that of the local community and society at large.

Laxmi Timber believes that a company is a family, a group of professionals working together in harmony at all levels and grades and so it"s the top priority of the company to take the greatest care of its most valuable asset.

TECHNICAL SPECIFICATION

1250-1349 1375 60 No less than 80 1100-1249 1150-1300	Average failing load in Newto		n Dry State	Factory Value	WF
1100-1249 1150-1300 1100 No req. No less that 900-999 950-1050 60 less than 80			1350	1475	No req. No less than
Resistance of water 1000 900-999 1100 950-1050 No req. No less than 80 Requirement Factory Value 2. Tensile strength in N Along the grain 55 65 Across the grain 35 40 3. Compressive strength Along the grain 35 45 Across the grain 30 38 4. MOR Along the grain Average 50 60 Individual 45 55 MOR Across the grain Average 30 38 Individual 27 32 5. MOE Along the grain M 6700 – Ave 7500 M 7200 – Ave 8000 Across the grain M 3600 – Ave 4000 M 3800 – Ave 4250 6. Panel Strength 12.5 15 7. Modulus of rigidity 588 620			1250-1349	1375	60 No less than 80
Note			1100-1249	1150-1300	
Requirement Factory Value 2. Tensile strength in N Along the grain 55 65 Across the grain 35 40 3. Compressive strength 45 45 Along the grain 30 38 4. MOR Along the grain Average 50 60 Individual 45 55 MOR Across the grain Average 30 38 Individual 27 32 5. MOE Along the grain M 6700 – Ave 7500 M 7200 – Ave 8000 Across the grain M 3600 – Ave 4000 M 3800 – Ave 4250 6. Panel Strength 12.5 15 7. Modulus of rigidity 588 620	Resistance of water		1000	1100	No req. No less than
2. Tensile strength in N Along the grain 55 65 Across the grain 35 40 3. Compressive strength Along the grain 35 45 Across the grain 30 38 4. MOR Along the grain Average 50 60 Individual 45 55 MOR Across the grain Average 30 38 Individual 27 32 5. MOE Along the grain M 6700 – Ave 7500 M 7200 – Ave 8000 Across the grain M 3600 – Ave 4000 M 3800 – Ave 4250 6. Panel Strength 12.5 15 7. Modulus of rigidity 588 620			900-999	950-1050	60 less than 80
Along the grain 35 40 3. Compressive strength Along the grain 35 45 Across the grain 30 38 4. MOR Along the grain Average 50 60 Individual 45 55 MOR Across the grain Average 30 38 Individual 27 32 5. MOE Along the grain M 6700 – Ave 7500 M 7200 – Ave 8000 Across the grain M 3600 – Ave 4000 M 3800 – Ave 4250 6. Panel Strength 12.5 15 7. Modulus of rigidity 588 620			Requirement	Factory Value	
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3. Compressive strength Along the grain 35 45 Across the grain 30 38 4. MOR Along the grain Average 50 60 Individual 45 55 MOR Across the grain Average 30 38 Individual 27 32 5. MOE Along the grain M 6700 – Ave 7500 M 7200 – Ave 8000 Across the grain M 3600 – Ave 4000 M 3800 – Ave 4250 6. Panel Strength 12.5 15 7. Modulus of rigidity 588 620	Along the gr	ain	55	65	
Along the grain 35 45 Across the grain 30 38 4. MOR Along the grain 45 Average 50 60 Individual 45 55 MOR Across the grain 49 Average 30 38 Individual 27 32 5. MOE Along the grain M 6700 – Ave 7500 M 7200 – Ave 8000 Across the grain M 3600 – Ave 4000 M 3800 – Ave 4250 6. Panel Strength 12.5 15 7. Modulus of rigidity 588 620	Across the grain		35	40	
Across the grain 30 38 4. MOR Along the grain	3. Compressive	strength			
4. MOR Along the grain Average 50 60 Individual 45 55 MOR Across the grain Average 30 38 Individual 27 32 5. MOE Along the grain M 6700 – Ave 7500 M 7200 – Ave 8000 Across the grain M 3600 – Ave 4000 M 3800 – Ave 4250 6. Panel Strength 12.5 15 7. Modulus of rigidity 588 620	Along the grain		35	45	
Average 50 60 Individual 45 55 MOR Across the grain Average 30 38 Individual 27 32 5. MOE Along the grain M 6700 – Ave 7500 M 7200 – Ave 8000 Across the grain M 3600 – Ave 4000 M 3800 – Ave 4250 6. Panel Strength 12.5 15 7. Modulus of rigidity 588 620	Across the gr	rain	30	38	
Individual 45 55	4. MOR	Along the grain			
MOR Across the grain Average 30 38 Individual 27 32 5. MOE Along the grain M 6700 – Ave 7500 M 7200 – Ave 8000 Across the grain M 3600 – Ave 4000 M 3800 – Ave 4250 6. Panel Strength 12.5 15 7. Modulus of rigidity 588 620		Average	50	60	
Average 30 38 Individual 27 32 5. MOE Along the grain M 6700 – Ave 7500 M 7200 – Ave 8000 Across the grain M 3600 – Ave 4000 M 3800 – Ave 4250 6. Panel Strength 12.5 15 7. Modulus of rigidity 588 620		Individual	45	55	
Individual 27 32	MOR	Across the grain			
5. MOE Along the grain M 6700 – Ave 7500 M 7200 – Ave 8000 Across the grain M 3600 – Ave 4000 M 3800 – Ave 4250 6. Panel Strength 12.5 15 7. Modulus of rigidity .588 620		Average	30	38	
Across the grain M 3600 – Ave 4000 M 3800 – Ave 4250 6. Panel Strength 12.5 15 7. Modulus of rigidity 588 620		Individual	27	32	
6. Panel Strength 12.5 15 7. Modulus of rigidity 588 620	5. MOE	Along the grain	M 6700 – Ave 7500	M 7200 – Ave 8000	
7. Modulus of rigidity 588 620		Across the grain	M 3600 – Ave 4000	M 3800 – Ave 4250	
STATE STATE OF THE	6. Panel Strengt	th		12.5	15
	7. Modulus of rigidity		588	620	
8. Rolling shear strength 3 4.25	8. Rolling shear strength		3	4.25	



Product List

- 01 Densified Concrete Shuttering Plywood (IS 4990)
- 02 MR Alternate Plywood (IS 303)
- 03 MR Red Plywood (IS303)
- 04 BWR Red Plywood (IS 303)
- 05 BWR Regular Plywood (IS 303)
- 06 Marine Plywood (IS 710)
- 07 I-Com Block Board Hardwood (IS 1659)
- 08 I-Com Block Board Pine (IS 1659)
- 09 X-Com Block Board Hardwood (IS 1659)
- 10 X-Com Block Board Pine ((IS 1659)
- 11 Pine Flush Door
- 12 Hardwood Flush Door
- 13 Flexible Plywood
- 14 Teak Ply. Board & Door
- 15 Fire Retardant Ply, Board & Door
- 16 Chequered Plywood
- 17 Calibrated Ply, Board & Door
- 18 Structural Plywood
- 19 Virus-Safe Plywood
- 20 LEE Ply, Board & Door

Laxmi

Loxmi Flexi ply is roll-able in nature and can be moulded into round shape you want. Be it designer chairs for your drawing rooms, smart cabinets for kichen or good-looking yet comfortable furniture for the office. Like all our other products, Flexi ply is also borer and powder-proof, so your furniture is guaranteed to last a long, long time. It is ideal for home furniture of all kinds, kitchen cabinets wall paneling, to cover pillars, staircase banister and office furniture.

Kitchen, Balcanies, Winding staircase, Open air roof systems, Other curve structures

STANDARD SIZES (FT)

Technical Strength

Hot pressed with thermo-setting BWR Grade adhesive 750 kg per Cubicmeter

Direction of flexibility Across the Grain - Lob sided





Products

Benson Block Board

Benson Shuttering Plywood Benson Flexi Ply

always forever... >



Laxmi

Laxmi FS concrete shuttering plywood is made of high density dipterocarpus species assembled in auto assembly line for dimensional accuracy, bonded under high temperature and pressure with unextended exothermic synthetic resin in high capacity densified hot press (2000 Ton) with as minimum compression 30%, used for concrete purpose. Manufactured with select hardwood, it withstands the loads and forces encountered during the pouring of concrete and vibrations. It is demand from the construction industry for highly durable concrete shuttering plywood.

Construction, Repair and Maintenance of Buildings, Bridges, Beams, Fly-overs, Vehicle Bodies. Roofing

STD. THICKNESS (MM)

STANDARD SIZES (FT)

TECHNICAL SPECIFICATIONS

Strength Properties						
Shuttering Plywood	6mm	9mm	12mm	16mm	19mm	25mm
Modulus of Rupture (kg/cm ²)						
Parallel to face grain	750	650	600	600	600	600
Perpendicular to face grain	350	450	500	500	500	500
Tensil Strendth (kg/cm²)						
Parallel to face grain	500	425	400	375	375	375
Perpendicular to face grain	250	325	350	375	375	375
Specific Gravity: 0.68 gms< / cc						
Density : ≥ 0.80 gms/m3						

80 gsm phenotic paper coat, all corners sealed.

STANDARD THICKNESS (IN MM)

Laxmi

Laxmi Block Boards are made up of importerd Pinewood timber, cut of central beams and composed core stock of battens of high resistence & quality combined with anto-borer & anti-termite to offer a Block Board of giving efficient and needed protection & to produce a long lasting Block Board. All the wooden components of the Block Board are seasoned under accurate temperature to obtain required moisture content percent according to IS: 1141 in our modern seasoning plant and then cut with perfect precision to get uniform thickness of battens. Block Boards are bonded with unextended endothermic adhesive for MR grade & unextended exothermic adhesive for BWP grade conforming to IS:848-2006 & hot pressed under controlled temperature & high pressure to get bonding.

Benson Block Boards give exceptional strength & durability to your wall cabinets, cupboards, wardrobes & other furniture woodwork. Te artisan will find it easy & hassle-free to work since these provide additional grip for screw and nails.

- Boiling Water Proof (BWP) X Com Moisture Resistant (MR) I Com

STANDARD SIZES (IN MM)

- 1840X1220, 1840X920 and as per specific orders

STANDARD SIZES (IN MM)

- 2440X1220, 2440X920
- 2140X1220, 2140X920
- 1840X1220, 1840X920 and as per specific orders

- subjected to change in
- Free from borer, termite & powder

about our product

Since our products are manufactured from the species that are from Dipterocarpus origin we, therefore can guarantee Density, premium quality and Natural Resistance towards termite and borers. Our sheets and panels are manufactured by adopting the latest technology and therefore bear the great tensile strength along with the incredible bonding qualities.

Our long duration experiments and testing mechanism have enabled us to bring forth the toughest plywood sheets which are already winning hearts of the major operations in the construction industry. Moreover, we proudly claim that Benson panels Shuttering plywood is manufactured in accordance with the rigid standards specified by the IS 4990.

Our commitment care and confidence of operation makes us claim that all our products are the result of long trials undertake by our industrious R&D team and have been borne through the latest technology - All products are of premium quality. Special care have been taken to make the products stubborn so that in the easy course they stand rock strong against the weakening agents like Bores and termites. All our product ranges from plywoods. Block Boards, Flush Doors and the Shuttering Ply are weatherproof and stand triumphant against all kind of adversaries of weather attacks.

Our shuttering plywoods are made of unextended exothermic boiling water proof synthetic resin, hot pressed at an temperature of 140°c + with an minimum compression 30%. All glue line, high compression, Seasoned dipterocarpus species makes tough with high density and cuttable for repeated usage, with high load bearing and shock absorbing capacity, Concrete Shuttering FS plywood.

GOLD TEST RESULT

TESTS	REQUIREMENTS	OBTAINED RESULTS
Types of Surface of Plywood	AA/BB/AB	AA
Dimensions : Length : Width : Thickness a) Less than 6 mm b) 6 mm & above Squareness Edge straightness	Tolerance: +6 mm, -0 mm +3 mm, -0 mm ±10% ±5% 0.2%	+2 mm +1 mm ±3% ±4% 0.06% 0.05%
Moisture Content % Density:	5-15% 70 gm/mm²	8% 80 gm/mm²
Static Bending Strength: a) Minimum Average: b) Individual: (Along the grain) Static Bending Strength: a) Minimum Average: b) Individual: (Across the grain)	Grade: BWP MOR MOE 40 5000 36 4500 MOR MOE 20 5000 18 3600	Grade: BWP MOE
Glue Adhesion Water Proof Test BWP Grade : 72 hrs Boiling and dried for 16 hrs at a temperature of 100 2°C (3 cycle)	Minimum Pass Standard	Pass Standard
Mycological Test After conditioning of sample for 3 weeks at 27±2°C	Minimum Pass Standard	Pass Standard

UNIT OF MEASUREMENT

Modulus of Rupture (MOR) (N/mm²) Madulus of Flasticity (MOF) (N/mm²)

our product gallery

Laxmi

manufactured from carefully selected timber of high density and superior grade to ensure durability and the desired mechanical properties. Bonding with high grade unextend cothermic synthetic resin and strict attention to process control, makes Benson Gold BWP ply mechanically strong, dimensionally stable and boiling water proof. The manufacturing process conforms strictly to the norms laid down under IS: 710.

GRADE

- Boiling Water Proof (BWP)

CONSTRUCTION

STANDARD THICKNESS (IN MM)

STANDARD SIZE (IN MM))

- 2440 x 1220,2440 x 920
- 2140 x 1220,2140 x 920
- 1840 x 1220,1840 x 920

SALIENT FEATURES

- No Delamination, Bleed-Through, Warpage & Indentation



Laxmi

Laxmi Flush Doors are of guaranteed quality. Flush Doors are made in varying constructions & thickness without impairing efficiency to meet exactly the security needs for the building. The wide range of choice in quality of material like: Timber, adhesive used and processing techniques enable manufacturer to offer a Flush Door capable of giving efficient and needed protection. Excellent quality Flush Doors are manufactured from 100% Pinewood and are of solid seasoned battens; both the stiles are made with one finger joint, pressed at high pressure & controlled temperature and bonded with BWP grade phenol formaldehyde synthetic adhesive conforming to IS: 848-2006. Laxmi Flush Doors combine simplicity, pleasing appearance, clean & beautiful finish

Boiling Water Proof (BWP)

STANDARD THICKNESS (IN MM)

STANDARD SIZE (IN MM)

1840 upto 2440 mm in lengthin every 51 mm difference and from 61 mm to 1220 mm in every 51 mm difference in width.

Widely used for entrance and living area doors, ideal where splashing is common such as toilet, bathrooms, balcony doors etc.

SALIENT FEATURES

- Boiling water proof.
 Borer, termite & powder free.
 Accuracy & stability in dimension.
 No warping & delamination when subjected to change
- in atmospheric condition. Excellent screw holding capacity. Sufficient strength in the sheathing material to resist
- normal knocks and blows
- It is economical in comparisons to the other products due to durability.

BLOCK BOARD TEST RESULT

TESTS	REQUIREMENTS	OBTAINED RESULTS
Core IJ Moisture Content,% ii) Width of strips, mm iii) Width of edge strips along the length, mm	12 Max. 30 Max. 45 Max.	8.8 26 37
Dimensions a) Length in b) Width in c) Thickness in Min / Max d) Variation in thickness in e) Edge straightness, % f) Squareness,%	Tolerance on declared value +6 mm , -0 mm +3 mm , -0 mm ±5% 0.5 mm 0.2% 0.2%	1831 916 19.20 – 19.42 0.22 0.08% 0.05%
Surface Defects	As per clause 8.1.3/6.3.3	Conforms to the requiremen
Dimensional Changes caused by humidity a) At 90% RH i] Difference in length ii) Difference in thickness b) At 40% RH i] Difference in thickness c) There shall be no delamination at the extreme ranges of humidity d) There shall be no change in local planeness measure as d/L < 1/150	±1mm ±1mm ±1mm ±1mm No delamination <1/150	0.09 0.10 0.09 0.08 Complies to requirement
Resistance to water, BWP Grade: boiling for 72 h MR Grade: 3 hrs soaking at 68 2°C	Min. Pass Standard Min.Pass Standard	Pass Standard Pass Standard
Adhesion of plies	Min. Pass Standard	Pass Standard
Modulus of Rupture (N/mm²) a) Average b) Minimum individual Modulus of Elasticity (N/mm²) a) Average b) Minimum individual	BWP MR 50 40 42 34 5000 4000 4200 3400	8WP MR 70 50 65 40 6000 5000 5000 4000
Spot Test	Shall show through and through penetration of preservative of chemical	Clearly visible through and through penetration of preservative chemical

FLUSH DOOR TEST RESULT

TESTS	REQUIREMENTS	OBTAINED RESULTS	
Dimension & Squareness Height Width Thickness, Min/Max Variation in thickness between any two points Squareness	Tolerance: ±5 mm ±5 mm ±1 mm Max.0.8 Deviation not more than 1mm per 500mm length	± 2 mm ± 2 mm 30.00 – 30.50mm 0.50mm 0.50mm	
General Flatness			
Twist	Max. 6 mm	Less than 6 mm	
Cupping	Max. 6 mm	Less than 6 mm	
Warping	Max. 6 mm	Less than 6 mm	
Local Planeness	Max. 0.5 mm	0.18	
	No cracking, tearing or delamination. Indentation depth, max 0.2mm	No cracking, tearing or detarmination.0.14mm	
Flexure Test (Deflection in mm) 15 minutes after 50 kg 3 minutes after load removal	Deflection at maximum load not greater than 1/30th of length or 1/15th of width, whichever is less. Residual deflection not greater than 1/10 of maximum deflection.	MD: Less than 1/30th of length & 1/15th of width. RD: Less than 1/10th of MD	
Edge loading Test (deflection in mm) After 15 minutes of 100 kg loading 5 minutes after load removal Lateral buckling	Deflection at maximum load not greater than 5 mm. Residual deflection after removal of load not greater than 0.5mm. Not more than 2mm during loading. No residual buckling after load removal.	MD: Less than 5mm. RD:Less than 0.5mm Lateral Buckling:0.1mm Conforms to the requirement	
Shock Resistance Test Soft & light body impact Soft & heavy body impact	No visible damage No visible damage	Conforms to the requirement Conforms to the requirement	
Slamming Test	No visible damage after 50 drops.	Conforms to the requirement	
Glue adhesion Test	No delamination/ No single delamination of more than 50mm in length & more than 3mm in depth	Conforms to the requirement	
End immersion Test	No delamination 8 cycle-1 day wet & 1 day dry	Conforms to the requirement	
Knife Test	Minimum Pass standard	Pass Standard	
Screw withdrawal Test	Not less than 1000 N Surface condition : No visible damage to the surface either by delamination or extra chipping off	3000 N Conforms to the requirement	
Buckling fest (deflection in mm) After 5 minutes of 40 kg loading 15 minutes after load removal	No deterioration Initial Deflection not greater than 50mm Residual deformation after 1.5 minutes of unloading not greater than 5mm	Conforms to the requirement	
Misuse test	No permanent deformation of the fixing or any other part of the door set in hindering its normal working after the test.	Conforms to the requirement	
Varying humidity test	No visible warping, twisting or delamination. Maximum departure from the general planeness not more than 0.1 mm. Recovery- At least 90% of the change in dimension.	Conforms to the requirement	