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KUNNATHAN WOOD PRODUCTS
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PLYWOOD ■ VENEERS ■ LAMINATES ■ MDF ■ PARTICLE BOARD ■ PVC BOARD ■ DOORS

Total wood
substitute
solutions.

Elegant. Strong. Durable.

PLY



Message from Chairman

We are always inspired and led by what we believe in: Consumer First.

Whatever we do, we do it for our consumers' satisfaction. That's why we have always been upholding uncompromising quality in our products and processes; right from sourcing the finest wood to delivering the impeccably finished solutions.

Everyone at K-Board shares the same values and we work together, committed to achieving excellence in everything we do.

Managing Director
K.M. Ebrahim

CONSUMER FIRST

K-BOARD PLY

For the past 25 years, K-Board Ply has been offering high quality wood substitute solutions for interior applications. Backed by its most modern manufacturing facility, research and development wing and a commitment to quality, K-Board Ply ensures all the products carry the mark of excellence in terms of application-readiness, strength, durability and elegance. K-Board Ply offers a wide range of meticulously engineered, incomparably superior products - Plywood, Veneers, Laminates, MDF, Particleboard, PVC Board, Doors etc for increasingly diverse applications like furniture, partitions, kitchen cabinets, wall sheathing, etc.

K-Board ply imports timber from countries like Malaysia, New Zealand, Burma and the USA. Made of 100% Gurjan wood core, K Board plywood are available in Marine Plywood, BWP grade, BWR grade, Film Coated Shuttering Plywood, Flush Doors, Block Boards and Flexible ply.

K-Board ply and its parent company Kunnathan Wood Products have over 25 years of splendid history in timber product and plywood manufacturing. The company was launched as a family business in Perumbavoor, the timber industry capital of Kerala, India.



Our objective is to create interior and architectural solutions of international standards and quality through excellent service and futuristic development projects. With our versatile and distinctive product range, we envisaged to be the leader among Indian manufacturers engaged in various segments of Plywood production.

VISSIO MISSION

Spreading our business and name of excellence all over the world is what we aim for, with an obsessive commitment to excellence and a resolve to offer a product range of unequalled quality. We always strive to take 'customer satisfaction' to the next level.





PLYWOOD

SUSTAINABLE. VERSATILE.

Plywood is a highly versatile building material with a wide range of applications.

PRODUCTION

In the production phase, the logs are peeled into veneers which are then glued together layer by layer. They are cross-banded, using the natural strength of the wood's grain to create strong and rigid wooden panels.

GRADES

The quality of veneer on the face and back of each panel determines the grade of plywood. Plywood resists cracking, shrinkage, splitting and twisting/wrapping thanks to its high strength. Depending upon the grade, plywood can be used for various constructional and paneling works.

APPLICATIONS

- Ready-to-paint surface for constructions.
- Floors walls roofs for house construction.
- Wind bracing panels.
- Vehicle internal body work.
- Packages and boxes.
- Cabinets.
- Fencing.
- Concrete shuttering panels.
- Plywood wall sheathing.
- Floors subjected to heavy wear in various buildings and factories.
- Playground equipment.
- Furniture signs and fences for demanding outdoor advertising.
- Musical instruments.
- Sports equipment.

K-Board the mark of excellence

K-Board provides a comprehensive range of quality wood substitute solutions in various sizes and types, whether decorative or structural, all complying to the highest international standards. Sourced from sustainable forests, K-Board products provide exceptional uniformity as well as quality, making it ideal for buildings and construction projects. The in-house research and development wing ensures that all specifications meet today's stringent quality standards.

MARINE PLYWOOD

PLATINUM

- Made from & 100% imported Gurjan timber
- Borer & Powder proof
- Double press technology
- An excellent and affordable option for furniture
- And hi-compression bonded with concentrated PF Resin
- Environment-friendly
- Guaranteed for life against any manufacturing defects

Adhesive : unextended phenol
Formaldehyde resin (is : 848)
Moisture content (%) : 8 – 12
Glue shear strength (GSS) (kgf) : >145
GSS wet test (kgf) : >120
GSS Mycological Test (kgf) : >120
Specific gravity : approx . 0.80
Water Absorption (%) : <5
Gap, Split, overlap : Nil
Pre-pressing : Flat panel/balanced surface
Face Thickness : Thicker face
Veneer to veneer ratio : Max 1:2



MARINE PLYWOOD

- Manufactured by two-way pressing system (Assembled core veneers are pressed in hydraulic press and then sanded in imported calibrated machine where uneven thickness of core veneer, from 0.5mm to 0.1mm becomes flat after sanding.)

ACCURATE

- Bonded with Phenolic Formaldehyde
- Borer & Powder proof
- Imported Gurjan hard wood
- Each sheet is fully weatherproof
- Introduce the Double Press Technology.
- Dimensionally stable, making it ideal for high quality furniture, partitions, panelling, doors and window panels, kitchen partitions overlaid with laminated, shutters etc.

Adhesive : unextended phenol
Formaldehyde resin (is : 848)
Moisture content (%) : 8 – 12
Glue shear strength (GSS) (kgf) : >145
GSS wet test (kgf) : >120
GSS Mycological Test (kgf) : >120
Specific gravity : approx . 0.80
Water Absorption (%) : >5
Gap, Split, overlap : Nil
Pre-pressing : Flat panel/balanced surface
Face Thickness : Thicker face
Veneer to veneer ratio : Max 1:2



MARINE PLYWOOD

GOLD

- Bonded with Phenolic Formaldehyde
- Borer & Powder proof
- Each sheet is fully weatherproof
- Double Press Technology
- Dimensionally stable, making it ideal for high quality furniture, partitions, panelling, doors and window panels, kitchen partitions overlaid with laminated, shutters etc.

Adhesive : unextended phenol

Formaldehyde resin (is : 848)

Moisture content (%) : 8 – 12

Glue shear strength (GSS) (kgf) : >145

GSS wet test (kgf) : >120

GSS Mycological Test (kgf) : >120

Specific gravity : approx . 0.80

Water Absorption (%) : <5

Gap, Split, overlap : Nil

Pre-pressing : Flat panel/balanced surface

Face Thickness : Thicker face

Veneer to veneer ratio : Max 1:2



MARINE PLYWOOD

SILVER

- Borer & Powder proof
- BWP Grade
- Double Press Technology.
- Made from wood veneers which are usually seasoned hardwood core, bonded with PF under computer controlled temperature and pressure.
- Bonded face to face with the grain running in alternate directions (It is this cross bonding which gives it core strength).
- More veneers are used for extra strength.

Adhesive : unextended phenol
Formaldehyde resin (is : 848)
Moisture content (%) : 8 – 12
Glue shear strength (GSS) (kgf) : >145
GSS wet test (kgf) : >120
GSS Mycological Test (kgf) : >120
Specific gravity : approx . 0.80
Water Absorption (%) : <5
Gap, Split, overlap : Nil
Pre-pressing : Flat panel/balanced surface
Face Thickness : Thicker face
Veneer to veneer ratio : Max 1:2

20 YEARS
GUARANTEE





PLYWOOD

ENCORE

- Boiling water resistant plywood
- Minimum chance of core gap
- Double Press Technology
- High strength and durability
- Perfect for interiors and furnishing
- Borer & Powder protection

Properties: BWR Grade Plywood
Moisture content (%): 6 – 12
Glue shear strength (GSS) (kgf): > 135
GSS Wet Test (kgf): >110
GSS Mycological test (kgf): >100
Adhesion of plies: excellent
Water absorption (%): <5
Screw holding strength (kg) : >275
Nail Holding Strength : >150



MR

PLY WOOD

- High strength and durability
- Perfect for interiors and furnishing

Properties: MR Grade Plywood
Moisture content (%): 6 – 12
Glue shear strength (GSS) (kgf): > 135
GSS Wet Test (kgf): >110
GSS Mycological test (kgf): >100
Adhesion of plies: excellent
Water absorption (%) : <5
Screw holding strength (kg) : >275
Nail Holding Strength : >150





PRIME

PLYWOOD

- Highest Internal Density
- More plies, More strength
- Glue Line Protection
- Ideal for Interiors
- Double Pressed
- Uniform strength
- Guaranteed Thickness
- Borer & Powder protection

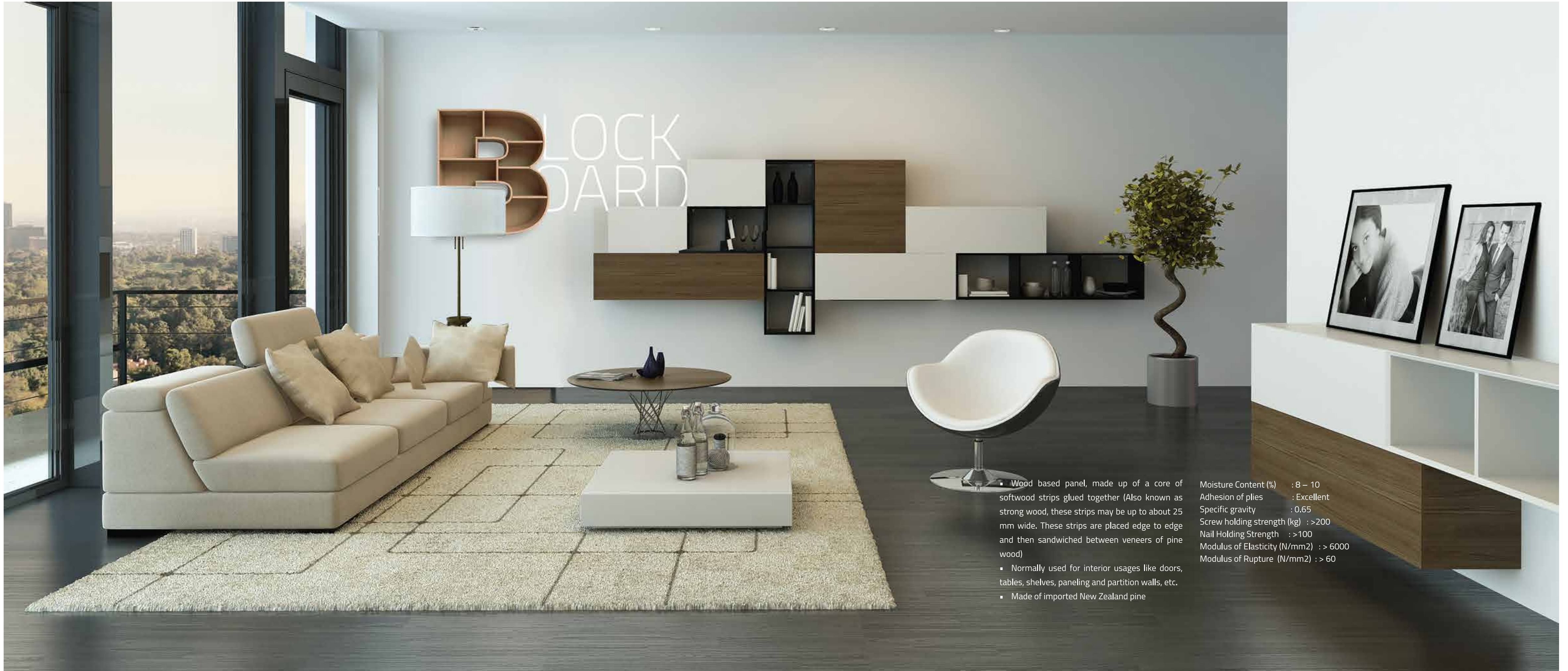
Properties	: MR Grade Plywood
Moisture Content (%)	: 5-15
Glue Shear Strength (GSS) (kgf)	: NA
GSS Wet Test (kgf)	: NA
GSS Mycological Test (kgf)	: NA
Adhesion of Plies	: Excellent
Water Absorption (%)	: <5
Screw Holding Strength (kg)	: >200
Nail Holding Strength	: >100



BLISS

PLY
WOOD 

- More plies, More strength.
- Glue Line Protection
- Ideal for Interiors
- Eco-Friendly
- Uniform strength
- Guaranteed Thickness



BLOCK BOARD

- Wood based panel, made up of a core of softwood strips glued together (Also known as strong wood, these strips may be up to about 25 mm wide. These strips are placed edge to edge and then sandwiched between veneers of pine wood)
- Normally used for interior usages like doors, tables, shelves, paneling and partition walls, etc.
- Made of imported New Zealand pine

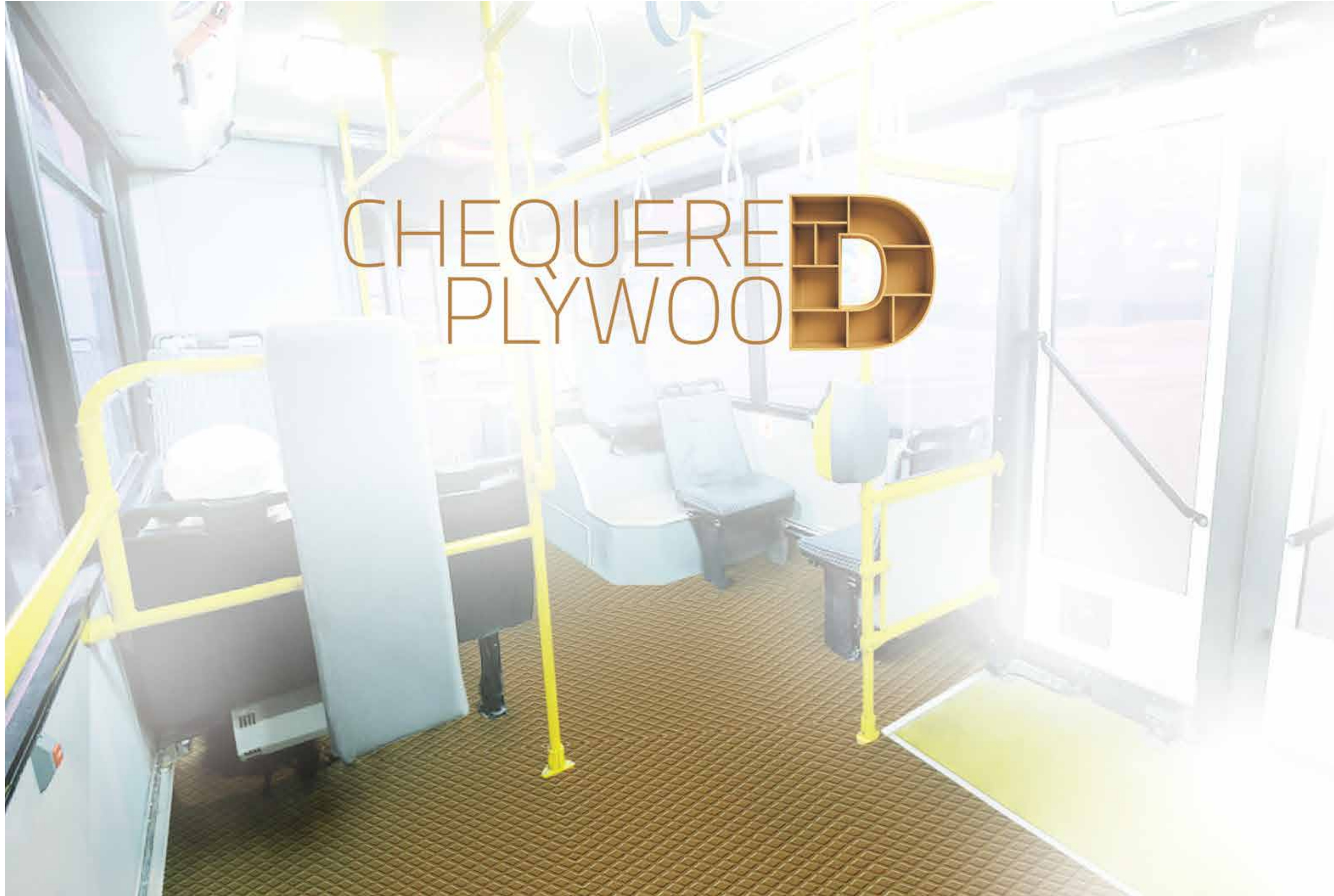
Moisture Content (%) : 8 – 10
Adhesion of plies : Excellent
Specific gravity : 0,65
Screw holding strength (kg) : >200
Nail Holding Strength : >100
Modulus of Elasticity (N/mm²) : > 6000
Modulus of Rupture (N/mm²) : > 60

- Made of Phenolic Formaldehyde resin.
- Used in the construction industry to hold concrete materials while it sets.
- Ideal for concrete formation, works for beams, columns, flooring and slab formwork, vertically inclined concrete work etc.
- Offers high resistance to absorption and varying temperatures.
- Product life of about 4 times than ordinary shuttering ply.
- BWP Grade IS: 4990 Certified product.
- Available in 25kg, 30kg, 34kg.

Moisture Content (%) : 8 – 10
Glue Shear Strength (GSS) (kgf) : >150
GSS Wet Test (kgf) : >135
(tested after 72 hours boiling)
GSS Mycological test (kgf) : >125
Adhesion of plies : Excellent
Specific Gravity : 0.80
Water Absorption (%) : <5
Modulus of Elasticity (N/mm²)
a) Parallel to face : > 8500
b) Perpendicular to face : > 5000
Modulus of Rupture (N/mm²) : > 60
a) Parallel to face : > 350
b) Perpendicular to face : > 250

HIGH DENSITY SHUTTERING PLY





CHEQUERE PLYWOOD

- Good strength and dimensional stability.
- Anti-skid.
- Available in thickness 12 & 18mm.
- Highly water resistant and durable.
- Mainly used for bus and truck floorings.
- Boiling Water Proof.

Length	2440+6,-0	2442mm
Width	1220 +3, -0	1222mm
Thickness	12mm	11.90mm
Squareness	200/1000mm	0.55mm
Workmanship & finish	clause	satisfactory
Density	0.84	0.867
Moisture Content	5-15%	6.8%
Bond Quality Test	a) No visible delamination in Glue line and plywood face	satisfactory
Boiling-Drying @60 ± 2°C 4 Hrs. -20 Hrs Three cycles	b) No forcible separation and fibre should be adhered between plies	satisfactory
Breaking Strength 250x50xThickness(mm)	200kgf	220Kgf
Static Bending Strength	Avg - 7500N/mm ²	18528.32 N/mm ²
Along the grain M.O.E	Ind - 6700N/mm ²	12620.25 N/mm ²
Across the grain M.O.E	Avg - 4000N/mm ²	15308.24N/mm ²
Across the grain M.O.R	Ind - 3600N/mm ²	9415.78N/mm ²
Across the grain M.O.R	Avg - 50N	100.81N/mm ²
	Ind - 45	75.32N/mm ²
	Avg - 30	85.39N/mm ²
	Ind - 27	67.86N/mm ²
Tensile strength as per ASTRU	Along 420kg/cm ²	568kg/cm ²
	Across 325kg/c ²	495kg/cm ²
	Total 745kg/cm ²	1063kg/cm ²



FLEXI PLYWOOD

- Highly flexible.
- Designed for making curved parts.
- Made of 100% Gurjan wood.
- Useful for covering rounded pillars, beams and constructions of designer front desks, racks in retail showrooms, reception area, etc.
- Self-supporting and does not require structural skeletons or special supports.
- Can be molded and bent into any shape without clipping, cracking, peeling or staining.

Properties	: FLEXI PLY	
MoR (Grain Parallel to span)	:120Mpa	27.5Mpa
MoR (Grain perpendicular to span)	:7Mpa	1.45Mpa
MoE (Grain perpendicular to span)	:115Mpa	81.2Mpa
Screw Holdings (Is-1734)	:1250N	866N
Nail Withdrawal (Is-1734)	: 950N	56.2N
Curve (mm diameter of circle)	: 0mm	98.8mm

PRE LAMINATED PL

- Reduces the labour cost
- Available only in 8' x 4' size
- Equal thickness
- Available in different shades
- Easy to work on



FLUSH DOORS

- Provides robust insulation against dust, heat and sound.
- Processed using our advanced machinery to keep the structure perfect and dimensions accurate and stable.
- Highly resistant to borer

Dimension	Length Width \pm 5mm Thickness \pm 1mm	: Within Limits
Squareness	: Deviation not more than 1mm on a length of 500mm	: Deviation below 1mm
General Flatness	: Twist, Cupping, Warping not to exceed 6mm	
Local Planeness	: Depth of deviation at any point to be less than 0.5mm	: Within limits
Impact Indentation test	: Depth of Indentation not to exceed 0.2mm	: Within limits
Flexure test	: The deflection at the maximum load shall not be more than 1/30 of length and 1/15 of width and the residual deflection should not be more than 1/10	: satisfactory
Edge loading test	: Deflection of edge with max. To be less than 5mm	: within limits
Shock resistance test	: No visible defect after test	: No visible defects
Buckling test	: No deformation after test	: Within Limits
Slamming test	: No deformation after test	: No visible defects
Misuse test	: No deformation after test	: No visible defects
Varying Humidity test	: No visible Warping , twisting or	: no such defects observed
De lamination		
End immersion test	: No de lamination at the end	: no de lamination
Knife test	: Minimum pass standard	: Excellent
Glue adhesion test	: No de lamination	: No de lamination
Screw Withdrawal test	: Load to withdraw the screw shall not be less than 1000N	: 1250N

SOME OF OUR CLIENTS

