

A Product Of



Greenlam
Industries Limited

www.mikasaply.com



— • THE NO NONSENSE PLY • —

PRODUCT BROCHURE

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DISCOVER ENDLESS POSSIBILITIES WITH **GREENLAM INDUSTRIES**

At Greenlam Industries, we do not just follow trends, we set them. Our global presence in over 100 countries has allowed us to be at the forefront of the surface décor industry.

From our creative solutions to our technological advancements, we have consistently demonstrated our ability to stay ahead of the curve.

But our success is not just attributed to our products. Our exceptional manufacturing processes, widespread distribution network, and unparalleled brand equity, combined with our dynamic and motivated team, have all contributed to our sustained growth and recognition.

With the recent addition of plywood to our product range, Greenlam Industries now offers a complete wood solution, excelling in both surface and substrate to provide the highest quality products.



— • T H E N O N S E N S E P L Y • —

Welcome to a world where quality reigns supreme. At Mikasa Plywood, we take pride in our commitment to excellence, ensuring that every ply we produce is crafted with meticulous attention to detail. Our process begins with selecting only the finest wood, which we then skillfully transform into top-tier ply, guaranteeing unmatched quality, functionality, and durability.

Manufactured in the most advanced plywood facility in the nation, equipped with state-of-the-art machinery, our manufacturing process ensures consistent delivery of high-caliber products. At the heart of our innovation lies Deca Edge Technology, a cutting-edge advancement that infuses each Mikasa Plywood product with unparalleled strength, resilience, and longevity.

Experience the difference of Mikasa Plywood, where simplicity meets sophistication, and efficacy meets excellence.

DIVERSE RANGE OF PRODUCTS



WHERE MASTERY TAKES SHAPE

Discover our cutting-edge manufacturing hub nestled in Tindivanam, Tamil Nadu, spanning an impressive 17 acres of innovation and excellence. With an annual production capacity of 18.9 million square meters, our state-of-the-art facility is equipped with latest imported machineries, guaranteeing unparalleled product consistency while minimizing human intervention.

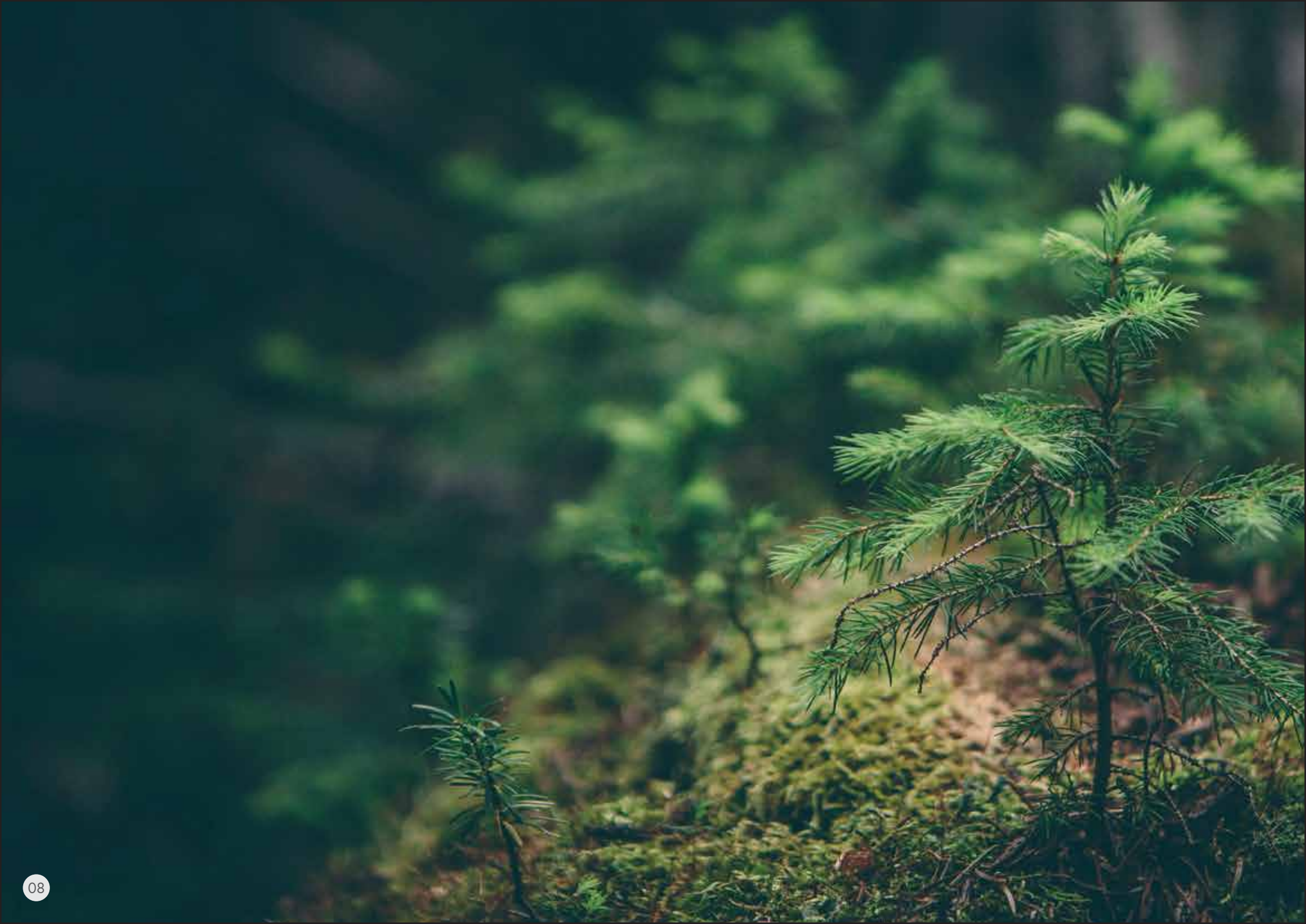
At the core of our operations lies a profound commitment to the safety and well-being of our esteemed workforce. Experience peace of mind knowing that our facility offers comprehensive basic amenities like, residential facilities, a hygienic canteen, a robust fire protection system, and an insulated roof for a cooler a comfortable working environment for all.

The world-class factory is dedicated to environmental responsibility and sustainability including agroforestry, ethical sourcing of raw materials, and the reclamation of wasteland through tree cultivation. Additionally, it operates as a Zero Liquid Discharge (ZLD) plant to conserve and recycle water, maintains pollution-free air with Electrostatic Precipitators (ESPs), and maintains a dust-free environment through an electro-pneumatic suction system.

Serving as a pivotal hub for the dynamic markets of seven important Indian states - Andhra Pradesh, Telangana, Karnataka, Kerala, Tamil Nadu, Maharashtra and Goa along with the Union Territory of Puducherry, our Tindivanam plant offers a strategic advantage like no other. Benefit from a streamlined value chain, expedited turnaround times, and the flexibility to accommodate small, yet frequent orders, all designed to elevate your experience with us to unprecedented heights of efficiency and convenience.









LOVES NATURE. LOVED BY NATURE.

Sustainability is at the forefront of everything we do. We ethically source our wood from agroforestry plantations, reducing our environmental impact and promoting sustainable farming practices. Our commitment to reducing waste is reflected in our use of the latest, customized machinery, which allows us to deliver the finest quality ply with minimal waste.

We have partnered with a research agency to promote sustainable farming practices.

Our plant is equipped with an advanced zero liquid discharge system that includes effluent and sewage treatment units to ensure environmentally sustainable operations.

Our plywood plant ensures the discharge of clean air and a pollution-free environment.

By being the first plant to implement pollution control equipment, we are committed to prioritizing sustainability.

We conserve water through recharge pits and recycling, ensuring the best utilization of this precious resource. At Greenlam Industries, we ensure not to disturb the delicate balance of nature.

THE MANY WAYS OF GOOD GRADES

Mikasa Plywood provides a range of products that are both user-friendly and packed with advanced features, making them suitable for a wide range of applications, including residential, commercial, and industrial settings.

The No Nonsense Ply comes with a smooth surface, high standards of calibration and minimal emission factor because it is bonded with European standard grade resin. Moreover, each Mikasa Plywood is vacuum-pressure chemically treated to ward off termites, borers, bacteria, and fungus, and deliver a defect-free product that also has high impact and tensile strength.



- VPCT:** Vacuum Pressure Chemical Treatment
- CMD:** Conditioning through Mechanized Drying
- MCC:** Mechanized Core Composers
- MTST:** Modified Triple-stage Technology
- ATAB:** Anti-termite & Anti-borer
- QCPT:** Quad-core Press Technology
- PCT:** Precision Calibration Technology
- HIRT:** High-impact Resistant Technology
- AFAB:** Anti-fungal & Anti-bacterial
- HTS:** High-tensile Strength

- SAPPHIRE
- MARINE BLUE
- MARINE
- BWP+
- MR+
- FIRE GUARDIAN

SAPPHIRE



Sapphire, a structural-grade plywood, is meticulously crafted from superior hardwood, overlaid with two layers of face veneers, with a thickness of 0.9mm, using an additional glue line on both the sides. Engineered with precision and bonded with E0 certified resin, this eco-conscious product emits zero emissions, aligning with sustainable practices.

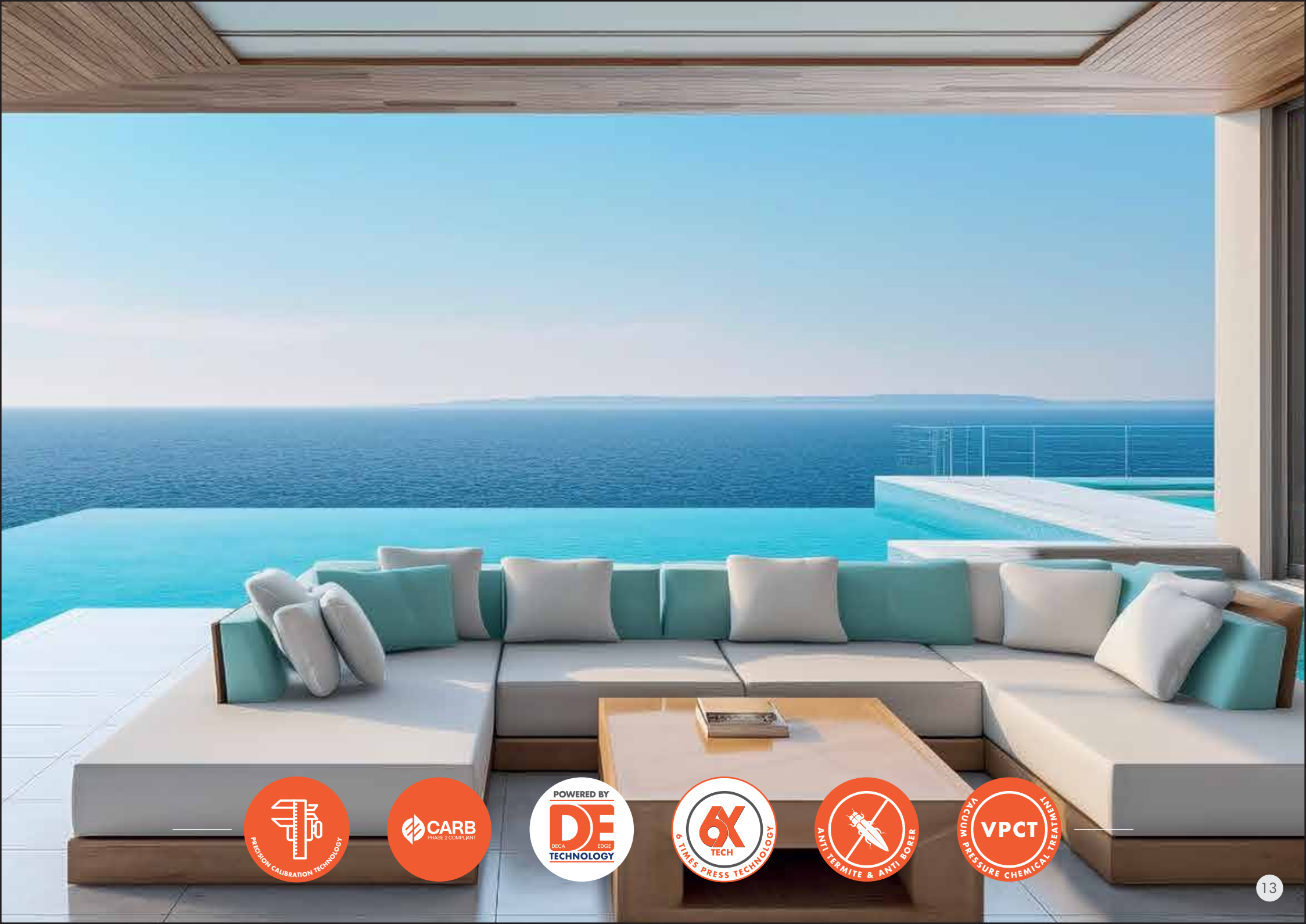
Renowned for its exceptional durability, Sapphire is constructed from 100% composed veneer, ensuring unparalleled strength and longevity. Safeguarding against potential fire hazards, this plywood is inherently fire-retardant, providing peace of mind in any setting.

Backed by a lifetime warranty, Sapphire stands as the epitome of excellence, catering to discerning individuals who seek nothing less than the utmost quality in their plywood selections.

APPLICATIONS

- Indoor and Outdoor Furniture
- Interior Designs - Domestic and Commercial Buildings
 - Cabinets and Shelving
 - Sports Equipment - Musical Instruments
- Insulation Boxes - Shipbuilding and other Marine Applications
- Bathroom Interiors and Under-sink Cabinets





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Thickness in mm	Number of Plies
4mm	5
6mm	7
9mm	9
12mm	11
16mm	13
19mm	15
25mm	17

Face Veneer	0.9mm (Overlaid with two layers of face veneers, with a combined thickness of 0.9mm, using an additional glue line on both the sides.)
Fire Retardant	Yes, as per IS 5509:2021
Emission Norms	E0
Veneer Treatment	Each veneer is preservative-treated with Vacuum Pressure Technology
Density approx. in kg per CBM	775
Nail Holding Strength (kg)	≥150
Screw Holding Strength (kg)	≥275

TECHNICAL SPECIFICATION

Impact Resistance	Excellent strength and dimensional stability due to higher number of plies and use of select premium hardwood
6X Press (Six times pressed)	Yes
100% Composed Veneer	Machine composed core
Adhesives of Plies	
<i>Glue Shear Strength (N)</i>	≥1600
<i>Visual Inspection</i>	Excellent
Moisture Content (%)	5 -15
Sp. Gravity (g/cc)	≥0.77
Water Absorption (%)	<5
Static Bending Strength (N/mm²)	
Modulus of Rupture (MOR):	
<i>Along the grain</i>	≥60
<i>Across the grain</i>	≥45
Modulus of Elasticity (MOE):	
<i>Along the grain</i>	≥8000
<i>Across the grain</i>	≥5200
Adhesive	Phenolic adhesive
Calibration	100% with Precision Calibration Technology



A PROMISE OF GENUINE PLY



SCAN TO VERIFY YOUR PLYWOOD'S AUTHENTICITY.

MARINE BLUE



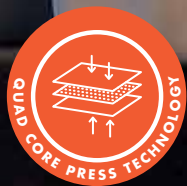
Discover Marine Blue, the ultimate choice for a multitude of projects! Crafted with a robust structure and tropical wood blend, it offers unparalleled versatility and durability, seamlessly fitting indoor and outdoor needs. Adhering to stringent emission standards ensures environmental safety, while the preservation treatment extends its lifespan significantly.

With outstanding features like high tensile strength and fire safety, Marine Blue emerges as a trusted option for furniture and beyond. Backed by an impressive 30-year warranty, it exemplifies superior quality and enduring durability. Marine Blue embodies a perfect blend of functionality and reliability, making it a wise investment for those seeking dependable plywood solutions.

APPLICATIONS

- Indoor and Outdoor Furniture
- Office Woodwork - Partitions and Panelling
- Furniture and Kitchen Cabinet
- Bathroom Interiors - Under-sink Cabinets
- Domestic and Commercial Buildings





ALSO AVAILABLE IN
BLOCKBOARD





Thickness in mm	Number of Plies
4mm	5
6mm	5
9mm	7
12mm	9
16mm	11
19mm	13
25mm	17

Face Veneer	0.3mm thickness on each side
Fire Retardant	Yes, as per IS 5509:2021
Veneer Treatment	Each veneer is preservative-treated with Vacuum Pressure Technology
Density approx. in kg per CBM	700
Impact Resistance	High strength & dimensional stability
Screw Holding Strength (kg)	≥250
Nail Holding Strength (kg)	≥105
Emission Norms	E0

TECHNICAL SPECIFICATION

Quad-Core Press (4 times pressed)	Yes
Adhesives of Plies	
<i>Glue Shear Strength (N)</i>	≥1350
<i>Visual Inspection</i>	Excellent
100% Composed Veneer	Machine composed core
Moisture Content (%)	5 -15
Sp. Gravity (g/cc)	≥0.70
Water Absorption (%)	<5
Static Bending Strength (N/mm²)	
Modulus of Rupture (MOR):	
<i>Along the grain</i>	≥55
<i>Across the grain</i>	≥40
Modulus of Elasticity (MOE):	
<i>Along the grain</i>	≥7500
<i>Across the grain</i>	≥4800
Adhesive	Phenolic adhesive
Calibration	100% with Precision Calibration Technology



A PROMISE OF GENUINE PLY



SCAN TO VERIFY YOUR PLYWOOD'S AUTHENTICITY.

BLOCKBOARD MARINE BLUE



Blockboard Marine Blue is crafted with a robust tropical wood-blend, offering unmatched versatility for both indoor and outdoor use. While plywood is layered with thin wood veneers, blockboard features a solid core of wooden strips sandwiched between veneers. This distinction brings varied strengths, weights, and applications, making Blockboard Marine Blue adaptable across projects. Its water-resistant quality makes Blockboard Marine Blue a sought-after choice for you.

Its eco-safe manufacturing meets stringent emission standards, while advanced preservation treatment extends durability. With high tensile strength, fire resistance, and a 25-year warranty, Blockboard Marine Blue delivers reliability you can count on.

APPLICATIONS

- Sliding doors - Flush doors
- Wardrobe shutters - Kitchen Cabinets
- Bathroom Vanities - Partitions & Panelling







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BLOCKBOARD MARINE BLUE



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Thickness in mm

19mm

25mm

Face Veneer 0.3mm thickness on each side

Fire Safety Yes

Impact Resistance High strength & dimensional stability

100% Composed Veneer All layers are pre-composed in an automatic state-of-the-art machine

Quad-Core Press (4 times pressed) Yes

Veneer Treatment Each veneer is preservative-treated with Vacuum Pressure Technology

Density approx. in kg per CBM 560

TECHNICAL SPECIFICATION

Static Bending Strength (N/mm²)

Modulus of Rupture (MOR): >55

Modulus of Elasticity (MOE) >5500

Screw Holding Strength (kg) ≥165

Nail Holding Strength (kg) ≥75

Adhesives of Plies

Glue Shear Strength (N) NA

Visual Inspection Excellent

Moisture Content (%) 8 -12

Sp. Gravity (g/cc) ≥0.56

Water Absorption (%) ≤5

Adhesive Phenolic adhesive

Emission Norms E0

Calibration 100% with Precision Calibration Technology



A PROMISE OF GENUINE PLY



SCAN TO VERIFY YOUR PLYWOOD'S AUTHENTICITY.

MARINE



Introducing Marine, the premium BWP plywood tailored for moisture-prone environments.

Crafted from tropical wood with a 0.30mm face veneer, Marine stands out with its innovative Quad-Core Press Tech compression process.

This cutting-edge technology prevents deformation even under high pressure, guaranteeing long-lasting reliability.

With a robust 25-year warranty, Marine emerges as the ideal choice across diverse applications where durability and pressure resistance are paramount. Elevate your projects with Marine, the epitome of strength and endurance in plywood solutions.

APPLICATIONS

- Modular Kitchen - Cabinets and Shelving
- Furniture, Interior Design and Fittings
- Woodwork and Joinery
- Areas exposed to moisture, both inside and outside
- False Ceilings





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MARINE

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TECHNICAL SPECIFICATION

Thickness in mm	Number of Plies
4mm	5
6mm	5
9mm	7
12mm	9
16mm	11
19mm	13
25mm	17
Face Veneer	0.3mm thickness on each side
Screw Holding Strength (kg)	≥220
Nail Holding Strength (kg)	≥100
Veneer Treatment	Each veneer is preservative-treated with Vacuum Pressure Technology
Static Bending Strength (N/mm²)	
Modulus of Rupture (MOR):	
<i>Along the grain</i>	≥55
<i>Across the grain</i>	≥38

Modulus of Elasticity (MOE):	
<i>Along the grain</i>	≥7100
<i>Across the grain</i>	≥4400
Adhesive	Phenolic adhesive
Impact Resistance	High strength & dimensional stability
Quad-Core Press (4 times pressed)	Yes
100% Composed Veneer	Machine composed core
Density approx. in kg per CBM	660
Moisture Content (%)	5 - 15
Sp. Gravity (g/cc)	≥0.66
Adhesives of Plies	
<i>Glue Shear Strength (N)</i>	≥1280
<i>Visual Inspection</i>	Excellent
Water Absorption (%)	<5
Emission Norms	E1
Calibration	100% with Precision Calibration Technology



A PROMISE OF GENUINE PLY



SCAN TO VERIFY YOUR PLYWOOD'S AUTHENTICITY.

BWP+



Presenting BWP+, a premium Boiling Water Proof plywood engineered to handle moisture-prone environments. Made from high-quality tropical wood with a 0.30 mm face veneer, BWP+ conforms to E1 emission standards and is backed by a 20-year warranty.

With superior durability, high pressure resistance, anti-termite and anti-borer protection, as well as 100% calibration, BWP+ delivers consistent performance across diverse applications. Simply put, BWP+ is the choicest grade for projects that demand strength, reliability, and long-lasting quality.

APPLICATIONS

- Indoor furniture - Kitchen cabinets
- Bathroom interiors - Modular furniture





ALSO AVAILABLE IN
BLOCKBOARD





Thickness in mm	Number of Plies
4mm	5
6mm	5
9mm	7
12mm	9
16mm	11
19mm	13
25mm	17
Face Veneer	0.3mm thickness on each side
Impact Resistance	High strength & dimensional stability
100% Composed Veneer	Machine composed core
Quad-Core Press (4 times pressed)	Yes
Veneer Treatment	Each veneer is preservative-treated with Vacuum Pressure Technology
Density approx. in kg per CBM	640

TECHNICAL SPECIFICATION

Static Bending Strength (N/mm²)

Modulus of Rupture (MOR):

Along the grain ≥ 50

Across the grain ≥ 35

Modulus of Elasticity (MOE):

Along the grain ≥ 6900

Across the grain ≥ 4400

Screw Holding Strength (kg) ≥ 200

Nail Holding Strength (kg) ≥ 100

Moisture Content (%) 5 - 15

Sp. Gravity (g/cc) ≥ 0.64

Adhesive Phenolic adhesive

Emission Norms E1

Calibration 100% with Precision Calibration Technology



A PROMISE OF GENUINE PLY



SCAN TO VERIFY YOUR PLYWOOD'S AUTHENTICITY.

BLOCKBOARD BWP+



BLOCKBOARD BWP+

Introducing BWP+ Blockboard, a high-performance blockboard engineered for strength, stability, and long-lasting durability. Crafted with a solid tropical hardwood core and finished with a 0.3mm face veneer on both sides, it features advanced Quad-Core Press Technology for enhanced structural integrity.

This innovative compression process strengthens the internal composition of the board, effectively resisting sagging and bending even in heavy-duty applications. Precision-calibrated for a smooth and uniform surface, BWP+ Blockboard is ideal for wardrobes, paneling, and partition walls in refined interior spaces.

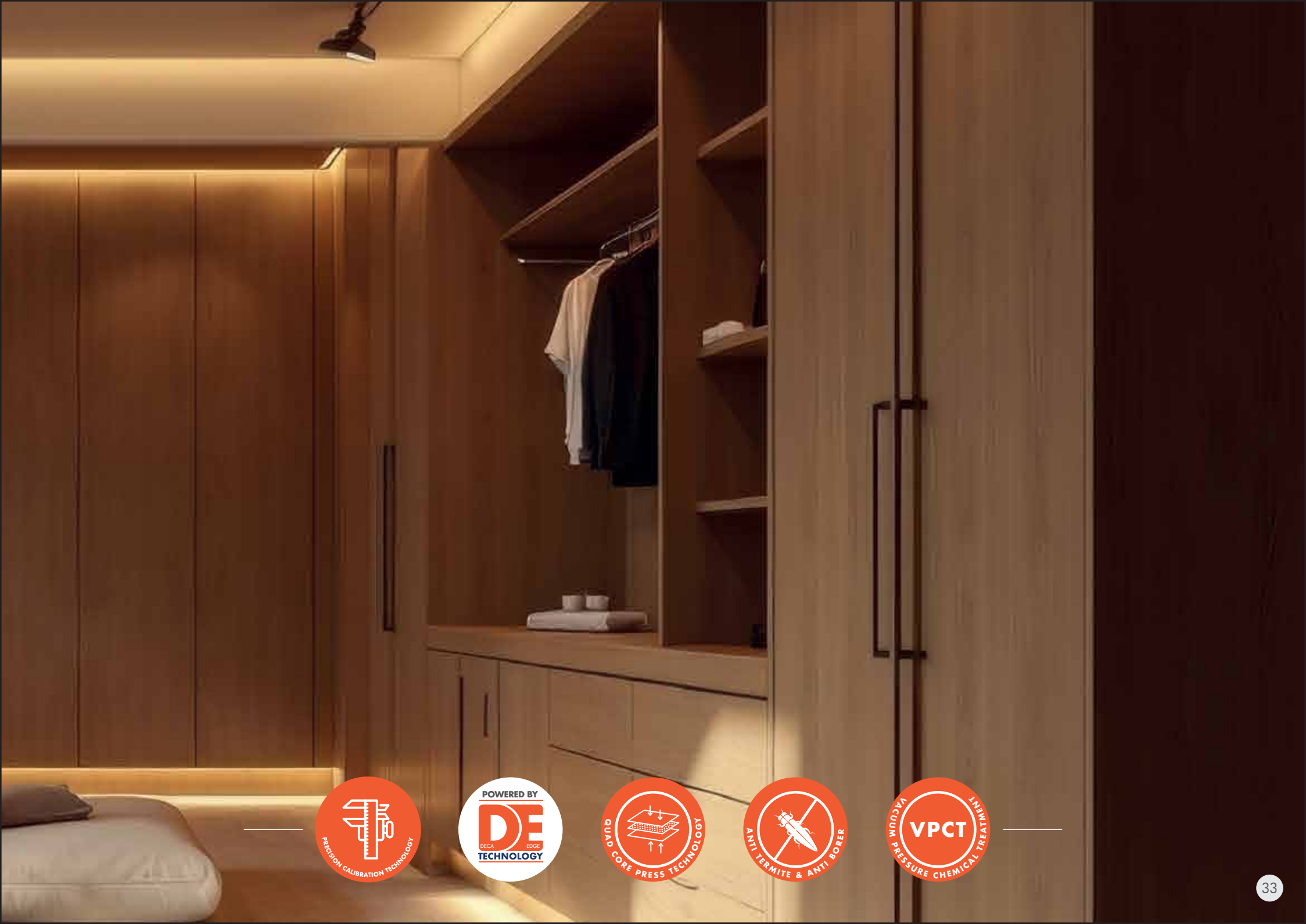
With superior dimensional stability and specialized anti-termite and anti-borer treatment, BWP+ Blockboard offers dependable protection and comes backed by a 20-year warranty, ensuring

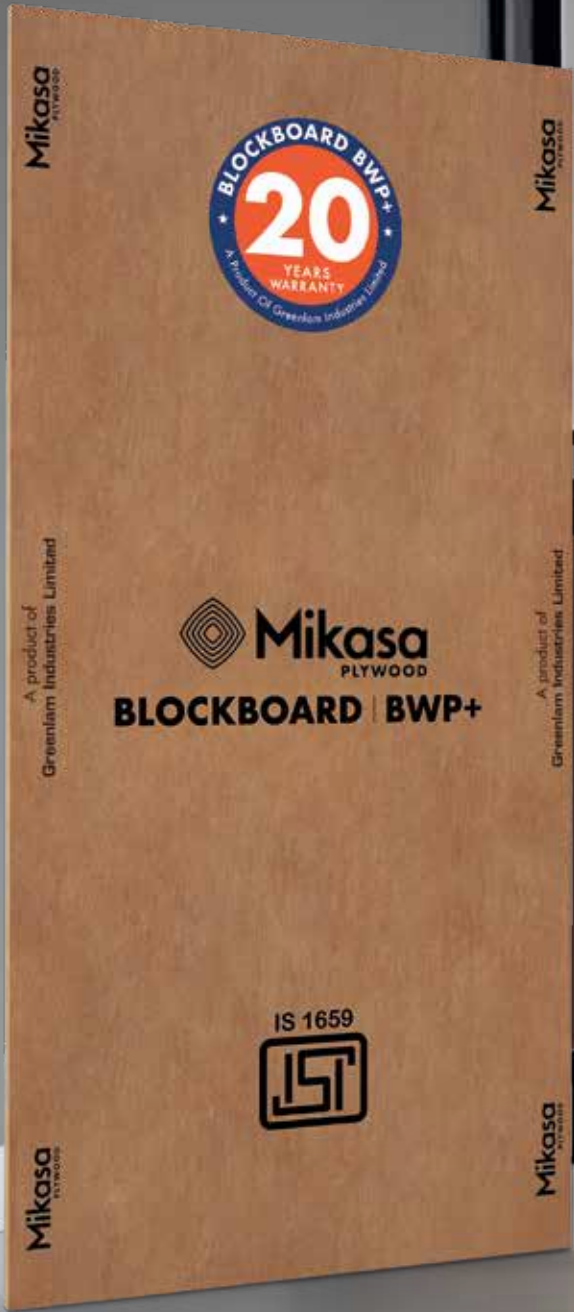
lasting performance for years to come.

APPLICATIONS

- Wardrobes - Paneling
- Partition Walls







BLOCKBOARD BWP+
20
YEARS
WARRANTY
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Mikasa
PLYWOOD
BLOCKBOARD | BWP+

IS 1659




Thickness in mm

19mm

Face Veneer 0.3mm thickness on each side

Fire Safety Yes

Impact Resistance High strength & dimensional stability

100% Composed Veneer All layers are pre-composed in an automatic state-of-the-art machine

Quad-Core Press (4 times pressed) Yes

Veneer Treatment Each veneer is preservative-treated with Vacuum Pressure Technology

Density approx. in kg per CBM 560

TECHNICAL SPECIFICATION

Static Bending Strength (N/mm²)

Modulus of Rupture (MOR): >50

Modulus of Elasticity (MOE) >5000

Screw Holding Strength (kg) ≥165

Nail Holding Strength (kg) ≥75

Adhesives of Plies

Glue Shear Strength (N) NA

Visual Inspection Excellent

Moisture Content (%) 8 -12

Sp. Gravity (g/cc) ≥0.56

Water Absorption (%) ≤5

Adhesive Phenolic adhesive

Emission Norms E1

Calibration 100% with Precision Calibration Technology



A PROMISE OF GENUINE PLY



SCAN TO VERIFY YOUR PLYWOOD'S AUTHENTICITY.



MR+

MR+, the pinnacle of moisture-resistant plywood solutions, crafted from premium tropical wood with a robust 0.30mm face veneer, guarantees unmatched strength and durability. Designed to withstand moisture, it's perfect for environments with high humidity levels.

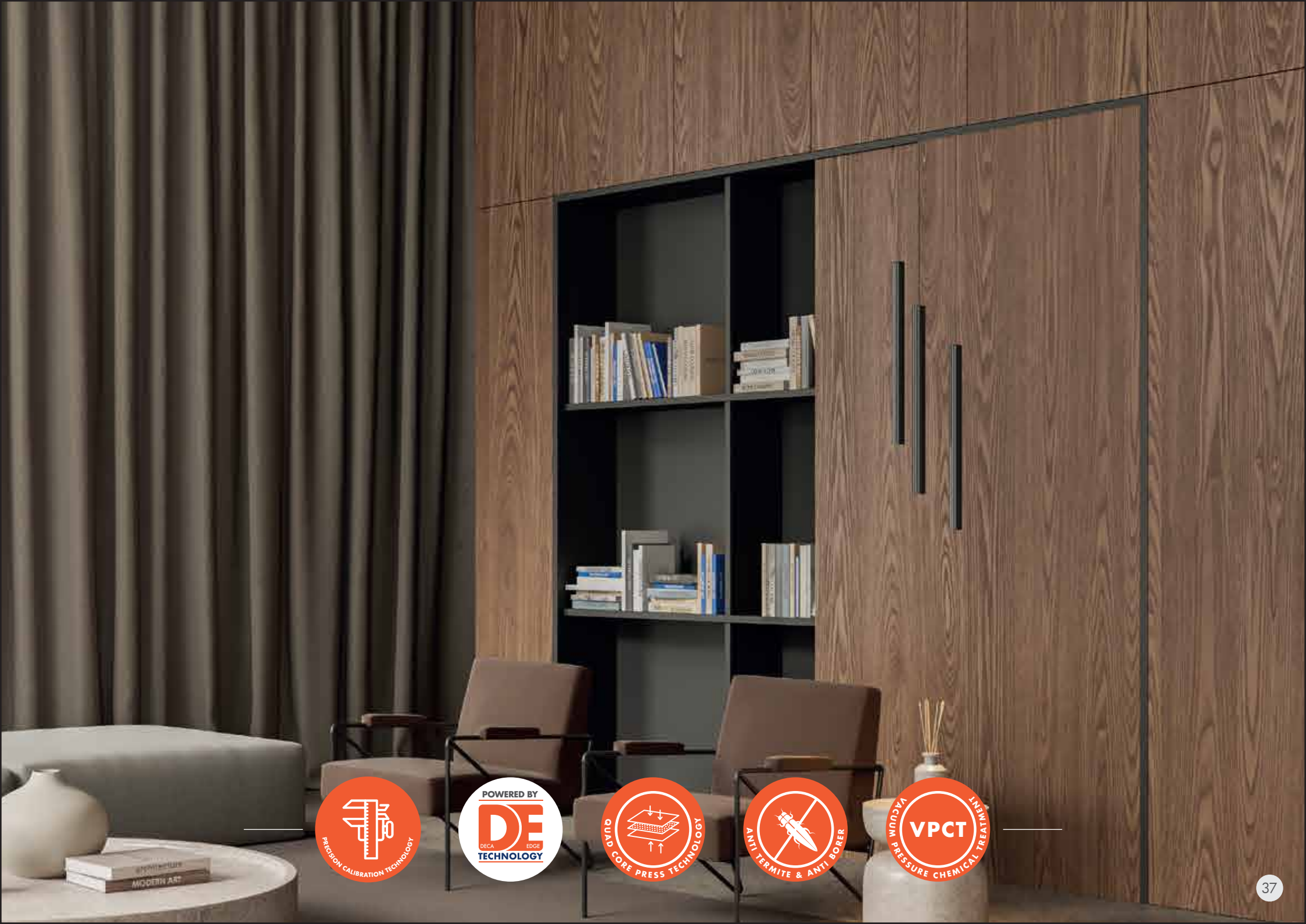
Our commitment to environmental safety is evident in MR+'s manufacturing process, meeting stringent emission standards and utilizing E1-certified resin for bonding. This ensures not just a durable product but also a safe and eco-friendly one.

With a 15-year warranty, MR+ stands as a testament to longevity and reliability in plywood.

APPLICATIONS

- High-end Packaging - Wardrobes
- TV Table Units - Partitions and Panelling
- Cabins - Tables - Sofas and Chairs
- Beds and more





ALSO AVAILABLE IN
BLOCKBOARD





Thickness in mm	Number of Plies
4mm	5
6mm	5
8mm	7
12mm	9
16mm	11
18mm	13
25mm	17

Face Veneer	0.3mm thickness on each side
Impact Resistance	High strength & dimensional stability
100% Composed Veneer	Machine composed core
Quad-Core Press (4 times pressed)	Yes
Veneer Treatment	Each veneer is preservative-treated with Vacuum Pressure Technology
Density approx. in kg per CBM	600

TECHNICAL SPECIFICATION

Static Bending Strength (N/mm²)	
Modulus of Rupture (MOR):	
Along the grain	≥40
Across the grain	≥35
Modulus of Elasticity (MOE):	
Along the grain	≥6500
Across the grain	≥4400
Screw Holding Strength (kg)	≥200
Nail Holding Strength (kg)	≥100
Moisture Content (%)	5 -15
Sp. Gravity (g/cc)	≥0.60
Adhesive	Amino adhesive
Emission Norms	E1
Calibration	100% with Precision Calibration Technology



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BLOCKBOARD MR+



Engineered for excellence, MR+ Blockboard pairs premium tropical wood with a solid block core for superior stability and lasting performance. Unlike plywood's layered veneers, blockboard's wooden strip core, sandwiched between veneer sheets, adds strength while keeping it lighter and more versatile.

Moisture-resistant by design, it performs reliably even in humid environments. Its eco-conscious process uses E1-certified resin, meeting strict emission standards for safer, greener interiors.

Backed by a 15-year warranty, MR+ Blockboard delivers durability, safety, and sustainability in one product.

APPLICATIONS

- Interior doors - Cabinets - Modular furniture
- Ceiling - Partitions & Panelling - Racks
- Shelving & Storage units







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BLOCKBOARD | MR+

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Thickness in mm

19mm

25mm

Face Veneer 0.3mm thickness on each side

Impact Resistance High strength & dimensional stability

100% Composed Veneer All layers are pre-composed in an automatic state-of-the-art machine

Quad-Core Press (4 times pressed) Yes

Veneer Treatment Each veneer is preservative-treated with Vacuum Pressure Technology

Density approx. in kg per CBM 560

TECHNICAL SPECIFICATION

Static Bending Strength (N/mm²)

Modulus of Rupture (MOR): >40

Modulus of Elasticity (MOE): >4000

Screw Holding Strength (kg) ≥165

Nail Holding Strength (kg) ≥75

Adhesives of Plies

Glue Shear Strength (N) NA

Visual Inspection Excellent

Moisture Content (%) 8 -12

Sp. Gravity (g/cc) ≥0.56

Water Absorption (%) ≤5

Adhesive Amino adhesive

Emission Norms E1

Calibration 100% with Precision Calibration Technology



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FIRE GUARDIAN



Introducing Fire Guardian, the ultimate choice of plywood with robust fire-retardant properties, perfect for domestic and commercial settings prioritizing fire safety. Engineered with exceptional fire-retardant characteristics, Fire Guardian ensures utmost safety in critical areas. This unique feature provides an additional layer of security and assurance, guaranteeing peace of mind for both residential and commercial users.

Crafted with meticulous attention to detail, Fire Guardian Plywood meets stringent quality standards, reinforced by a 30-year warranty. This warranty not only defines the product's durability but also attests to its long-lasting performance. Choose Fire Guardian Plywood for reliable fire protection and enduring quality that stands the test of time.

APPLICATIONS

- Kitchen Cabinets - Furniture
- Ceilings and Roofs - Schools and Hospitals
- Multiplexes and in Exhibition Stalls
- Office Woodwork - Railway Coaches
- Vehicle Bodies







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Thickness in mm	Number of Plies
4mm	5
6mm	5
9mm	7
12mm	9
16mm	11
19mm	13
25mm	17

Face Veneer	0.3mm thickness on each side
Fire Retardant	Yes, as per IS 5509:2021

Veneer Treatment	Each veneer is preservative-treated with Vacuum Pressure Technology
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Density approx. in kg per CBM	700
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Impact Resistance	High strength & dimensional stability
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Screw Holding Strength (kg)	≥250
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Nail Holding Strength (kg)	≥105
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Quad-Core Press (4 times pressed)	Yes
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TECHNICAL SPECIFICATION

Adhesives of Plies

Glue Shear Strength (N) ≥1350

Visual Inspection Excellent

100% Composed Veneer Machine composed core

Moisture Content (%) 5 - 15

Sp. Gravity (g/cc) ≥0.70

Water Absorption (%) <5

Static Bending Strength (N/mm²)

Modulus of Rupture (MOR):

Along the grain ≥55

Across the grain ≥38

Modulus of Elasticity (MOE):

Along the grain ≥7500

Across the grain ≥4800

Adhesive Phenolic adhesive

Emission Norms E1

Calibration 100% with Precision Calibration Technology



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SCAN TO VERIFY YOUR PLY WOOD'S AUTHENTICITY.

Quality You Can Trust

PRODUCT

IS 10701



Grade: **STRUCTURAL**

IS 710



Grade: **BWP
MARINE PLYWOOD**

IS 303



Grade: **BWP
PLYWOOD FOR GENERAL PURPOSE**

IS 303



Grade: **MR
PLYWOOD FOR GENERAL PURPOSE**

IS 5509



Grade: **FR**

IS 1659



Grade: **BWP-COM,
MR-COM**

SYSTEM



**Quality Management
System**



**Environmental
Management System**



**Occupational Health and
Safety**

MEMBERSHIP



Indian Green Building Council (IGBC)

EMISSIONS



Emission Standard



“ Planet is the only home,
there is no planet B. ”

-Stephen Hawking



CORPORATE OFFICE

Greenlam Industries Limited

2nd Floor, West Wing, Worldmark 1, Aerocity,

IGI Airport Hospitality District, New Delhi - 110 037.

Tel.: +91-11-42791399; +91-11-49501499

E-mail: info@mikasaply.com | Website: www.greenlamindustries.com | Toll-free No.: 1800 833 0004

BRANCH CONTACT NUMBER:

Ahmedabad 9205045797	Bangalore 8951318560	Bhubaneswar 8917300097	Chennai 9123568851	Coimbatore 9361979329	Hubli 8904352277	Hyderabad 9281066934	Indore 9752593448	Kochi 9746474986	Kolkata 9147755135
Madurai 8838174474	Mangalore 8904152277	Mumbai 9136046474	Nagpur 7028885394	Nashik 9730084510	Patna 8102553681	Pune 9175011832	Raipur 9691957887	Ranchi 7061077020	Vijayawada 9676444934



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