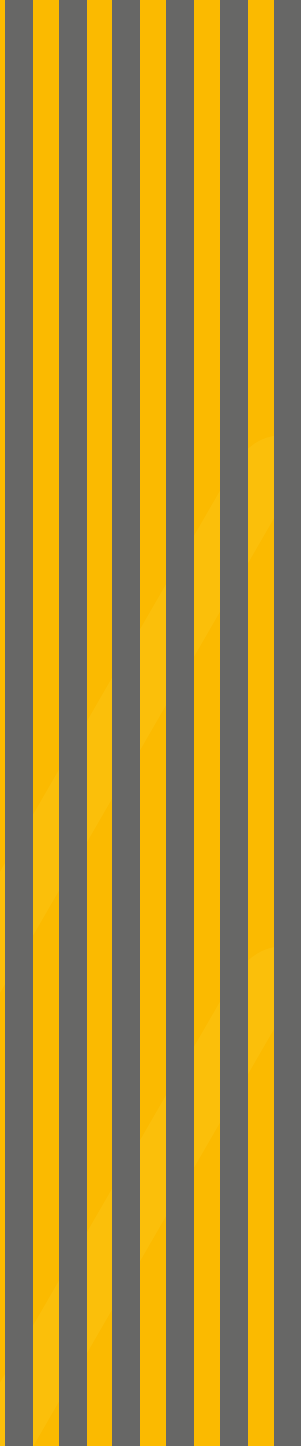


www.wigwamply.com

**PLY**  
**as it**  
**SHOULD**  
**BE**



**WIGWAM**<sup>®</sup>  
PLY AS IT SHOULD BE

JALARAM  
TIMBER DEPOT  
EST•1977



# Savitri Woods India Pvt. Ltd.

Developing wood to the next level

An ISO 9001,14001 & OHSAS 18001 Certified Company

## MAKING PREMIUM GRADE PLYWOOD as it should be

Savitriwoods is one of India's leading manufacturer of premium grade plywood. Based in Hoshiarpur, Punjab, and operating since 2003, we have earned a reputation for high quality products and excellent customer service. We have three manufacturing units which are currently operational in India. We have complete vertical integration with procurement and development of raw materials and manufacturing the final product. We are the pioneers in launching and popularising the engineered face veneer in India.

Accredited with certifications like ISI, ISO, OHSAS, CE, IGBC, FSC & with technical support from IPIRTI (Indian Plywood Industries Research and Training Institute), Savitri Woods acquires its logs from the sustainably managed plantation and forests to reciprocate its ecological responsibility, legal accountability and adherence to global benchmarks. All our products conforms to E1 formaldehyde emission class making them safe for interior/exterior use.

### HISTORY

Foundation of Savitriwoods with Setup of Peeling / Saw Mill in Hoshiarpur

2003

2008

Became the largest supplier of Raw materials in North India

Setup of Plywood Manufacturing Unit in Hoshiarpur

2012

Setup of An Engineered Face Veneer manufacturing unit in Hoshiarpur

2016

Setup of North India's largest Plywood manufacturing unit and launch of Wigwam Product range.

2018

Became India's emerging plywood brand with presence in 22 states.

2019

# PRODUCTS



- Structural Grade as per BIS 10701 / Fire Retardant
- Marine Grade as per BIS 710 Grade
- E0 Emission Class
- Immune To Microbes
- Immune To Termites
- Life Time Guarantee ( 700% Cash Back )



- Fire Retardant 5509 Grade Plywood
- Marine Grade as per BIS 710 Grade
- E0 Emission Class
- Immune To Microbes
- Immune To Termites
- Life Time Guarantee ( 200% Cash Back )



- Made From 100% Hardwood
- Marine Grade As Per BIS 710
- E1 Emission Class
- Immune To Microbes
- Immune To Termites
- Life Time Guarantee ( 100% Cash Back )



- Marine Grade As Per BIS 710
- E1 Emission Class
- Immune To Microbes
- Immune To Termites
- 25 Years Guarantee



- Marine Grade As Per BIS 710
- E1 Emission Class
- Immune To Microbes
- Immune To Termites
- 20 Years Guarantee



- Marine Grade as per BIS 710
- MR Grade as per BIS 303
- E1 Emission Class
- Immune To Microbes
- 10 Years Guarantee



**FABRICATE™**

**HDP MR Plywood**

**HIGH DENSITY PLYWOOD** Moisture Resistant Grade, **IS : 303**

**WIGWAM Fabricate HDP MR** grade plywood is most suited panel for interior furniture and may be used at moderate moisture-prone areas. It is made with 100% Hardwood veneer peeled from environmentally favouring, farm-grown EUCALYPTUS trees. The all hardwood **WIGWAM Fabricate HDP MR** plywood range uses natural extenders and hardening agents inside that does not skip any wood pores thus provide uniform bonding. The bonding process is adequately done using highly viscous Melamine fortified resin with a solid content of 54.0 %. It is 4 times pressed under the temperature of 130°C and extreme pressure to compress the hardwood veneer and resin pack to obtain consistent quality High-Density, **WIGWAM Fabricate HDP MR** plywood.

**WIGWAM Fabricate HDP MR Plywood confirms to IS : 303.**

**Sizes :** 8x4

**Thickness :** 6mm, 9mm, 12mm, 16mm, 19mm, 25mm

**HIGHLIGHTS :**

- 10 years Guarantee .
- E1 Certified.
- High Density of 700-800 kg/m<sup>3</sup>.
- Highly stable, Warp resistant.
- Zero core defects and increased strength.
- 100% hardwood made.
- Moisture Resistant Grade.
- Borer & Termite Resistant.
- Pre-composed core & panels to reduce gaps.
- Made with Mat Ply.
- Both side calibrated.
- Double surface sanding for Superior surface finish.



# WHY WIGWAM

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**WIGWAM**, the new generation plywood aims to eradicate the disparity and exploitation in product – price metrics in plywood industry through its blend of global quality at local pricing. Stimulated by the Japanese technology, WIGWAM offers the unique Tetra cycle Advantage and Hexaforce power, which gives it sizzling strength, legitimate longevity, and high durability making it one of a kind in the Indian plywood industry. Made purely with Matply, WIGWAM panels are 180° flat, duly calibrated from both sides with all layers significantly tenderised.

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## MAKING PROCESS

### Core Veneer Selection, Tenderization

The veneer grade used in plywood affect its structural performance. Wigwam plywood is made from A or B grade veneers which increases its engineering properties by one stress grade. Each core veneer then tenderized to achieve 180 degree flat, bowing free panel.

### Made with Matply : Core Composing & Arrangement

Wigwam plywood is made with Matply process where all layers are joined by the core composer which minimize the core joints and gaps in the plywood. The veneer arrangement and thickness of individual veneers within plywood is critical in determining dimensional stability and the structural performance characteristics of strength and stiffness. Cross lamination of veneer layers restricts the veneer movement across the grain due to moisture and temperature changes. Thus providing Wigwam plywood dimensional stability under moisture content and temperature changes.

**Tetracycle Advantage:** Once the composition is ready then it passes through Tetracycle process which is basically four time pressing of the composition at various stage. Every composed bundle of core veneers passes through 4 times pressing during various stages of manufacturing. Tetra cycle advantage offer 'Absolute Bonding, Flatness and dimensional stability to the panel.



### Both Side Calibration

Generally in plywood panels, the outer most veneers have the greatest influence on strength and stiffness. Increasing the thickness of the face veneers will increase the strength and stiffness characteristics in the face grain direction. Thin face veneers with thicker underlying cross band veneers will tend to give the plywood more equal strength and stiffness characteristics in both directions.

# ATTRIBUTES



## TETRA CYCLE ADVANTAGE

We have worked in close collaboration with the Japanese Plywood Industry and the Tetra cycle formula is inherited from them after stringent tests and quality checks for two years. The technology aptly addresses the Indian market requirements from plywood. Tetra Cycle Advantage is the latest in the plywood industry in India.

Tetra cycle process actually drives every composed bundle of wood veneers under 4 times pressing zone, that is very unique and first time in India. Tetra Cycle advantage offers 'Absolute bonding, Absolute flatness, Absolute dimensional stability and Absolute durability'.

## IMMUNE TO MICROBES

### IMMUNE TO MICROBES

The specially developed Microbicides impregnated into the surface of the plywood creates a long-lasting shield against harmful pathogens. The coated surfaces have shown 99.9% efficacy against Viruses, bacteria, fungi, and algae pathogens. It has been tested and certified under Antiviral Efficacy Test as per international standards (ISO 21702: 2019). by Biotech Testing Services, Mumbai



### BOTH SIDE CALIBRATED PANEL

Every piece of panel manufactured at WIGWAM plant is made by Mat Ply Process. After 2nd stage pressing, the Mat Panel's thickness tolerance within each plywood sheet is brought down to 0.50 mm.

Afterwards, every WIGWAM plywood sheet is further Calibrated on both sides through automatic surface sanding machine from Taiwan, where thickness tolerance is reduced to +/- 0.15 mm within every panel, be it Plywood, Blockboards or Flush door.

## IMMUNE TO TERMITES

### IMMUNE TO TERMITES

WIGWAM products exhibit a high repulsive tendency towards termites for dual reasons, natural and synthetic. The nature driven reason is that WIGWAM prefers to use only heartwood or mature hardwood timber that has natural resistance to termites and borers. Usage of the heartwood [hardwood], which is the oldest and hardest central part of a tree is the naturally termite resistant part which WIGWAM uses.

The Synthetic reason infused to create immunity from termites is due to WIGWAM technology in manufacturing process where we evenly injects enough chemical to repel the termites. Additionally, layers of lamination also forms sturdy layers around it which is a barrier wall for termites.





**MADE WITH MAT PLY PROCESS**

WIGWAM panels have the Matply edge where all the layers are joined by core composer which inserts added strength and permanency to it.

The Matply power also adds convenience and customization. Just put your favourite top layer on it and the WIGWAM products are ready for your desired use. It is ideal for kitchen and furniture applications.



**HEXAFORCE**

WIGWAM product range of Block boards are powered by HEXAFORCE, where uniformly sized battens are automatically composed after being glued on all 6 surfaces.

The precisely arranged batten layer is further pressed along frames to form complete MAT Block board.

HEXAFORCE provide 'Minimum gap composing', 'High Compactness' and unmatched strength to WIGWAM block boards.



**ALL LAYERS TENDRISED**

The manufacturing process tenderizes all the layers of the core veneer to its peak, which keeps the WIGWAM plywood free from any weakening wrinkles, internal bubbles, warping up, de-lamination, curving and bending.



**180° FLAT**

The manufacturing processes and checks are designed in such a stringent way that the WIGWAM panels conceive and keep its 180° flatness always, even when faced with extreme conditions too.



**E0 Certified**

Formaldehyde is a gas that is used in the production of engineered wood panel manufacturing. It is therefore all around us in the indoor air. However, high concentrations of formaldehyde may irritate eyes, nose, throat or skin and trigger headaches. Therefore, We have adapted our manufacturing process to E0 Class of formaldehyde emission considering health safety of our consumers.



# CERTIFICATIONS AND **ACCREDITATIONS**

WIGWAM is enabled with all the required, relevant, and latest certifications which support it to operate, thrive and remain strong in the plywood solutions industry.



- IS 303 : BIS Specification for Moisture Resistant Plywood and Boiling Water Resistant Plywood.
- IS 710 : BIS Specification for Boiling Water Proof Marine Grade Plywood.
- IS1659 : BIS Specification for Block Boards.
- IS 2202 (Part-1) : BIS Specification for Water Proof Flush Doors.
- IS 1328 : BIS Specification for Veneered Decorative Plywood.
- IS 5509 : BIS Specification for Fire Retardant Plywood.
- IS10701 : BIS Specification for BWP Structural Grade Plywood.



Conforms to E0 Formaldehyde Emission Class lowest formaldehyde emission obtainable in India.



- ISO 9001:2015 : Quality Management System for meeting customer expectations and delivering consumer satisfaction.
- ISO 14001:2015 : Environmental Management System.



OHSAS 18001:2007 : Occupational Health and Safety Management System.



European Conformity [CE] Certified.



Certified by Forest Stewardship Council [FSC], an international non-profit multi-stakeholder body which promotes responsible management of the world's forests.



Accredited by Indian Green Building Council [IGBC], a non-profit, CII body which promotes, rates and certifies organisations for their green processes and endeavours.



In Technical Support From: INDIAN PLYWOOD INDUSTRIES RESEARCH & TRAINING INSTITUE.

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