



STRP
Technology



Founded three decades ago by plywood masters, what started out as just a small retail shop expanded exponentially under the leadership of Mr. Om Prakash to now become one of the most trusted names in the Plywood Industry. SJE Group today manufactures Plywood & Doors from its two production facilities and has established a wide distribution network throughout India.

Vision & Values

In order to do something great, one needs to seek inspiration everywhere. We strive to ensure that your surroundings are a constant source of inspiration. Reliability, Integrity & Transparency are our cornerstones which reflect in everything we venture towards. We stand committed behind each and every single product. Period.

Our after sales service and support to our customers is exhaustive in transparency, timely delivery, marketing and guarantee support. Our competitive edge lies in our focus on the concept of Total Quality which is summarized by the following values:

Integrity - Quality Guarantee

Building It Better - Innovation & Efficiency

Reliability – Timely Delivery & Product Consistency

Transparency – Customer Empowerment



Building It Right

It stands for more than intent. We believe, in order to create something truly beautiful, it's important to get the basics right. Unhindered creativity by landscape and interior artists should have the best resources to begin with. That's why we're out to deliver the finest Plywood.

What We Promise

All products are a result of intense focus, precision and zero tolerance for the minutest defects, so you get the absolute best. Each ply is crafted to perfect specification and undergoes stringent checks before getting our seal of approval.

Sustainable Growth

Building It Right is from the bottom up. We strive to work in harmony with our natural resources in order for us to thrive with it, not on it. Great caution is taken in sourcing our timber and raw materials from environment friendly cultivations only.

Built To Endure

Every piece has been carefully crafted to endure the elements and the test of time. Rest assured that any creation made from our ply will last a lifetime. Don't believe us, believe our guarantee.





OUR MANUFACTURING PROCESS

Log Inspection

Every log of class 1 durable hardwood timber undergoes stringent checks for suitability before anything else. Once tested, the logs are then cut to specific sizes based on requirements.

Peeling

The cut to size logs are then peeled in uniform thickness veneers by high speed peeling machines. In the same assembly line, the clipping machine cuts the veneer to required dimensions.

Drying

The cut veneers are then taken through a two step drying process to reduce moisture content and destroy micro organisms.

Resin Gluing & Assembly

Alternate Core veneers are glued using an in-house manufactured resin which is an un-extended formulation to ensure consistent quality. Core veneers are then layered together with a 90 degree cross section in alternate layers to ensure strength and dimensional stability.

Pre-Press

Under the pre-press technology, the assembled veneers are then subjected to high pressure in ambient temperature to ensure uniform spread of resin throughout plywood, stabilization of core layers and achieves strong bonding.

Dimensional Cutting

The pressed ply is then trimmed horizontally and vertically to achieve dimensional accuracy before moving on for Hot Press.

Hot Press & Sanding

The plywood after cutting is loaded into the hot press for polymerization where each panel is subjected to high temperature and pressure to achieve uniform density and permanent bonding. The pressed ply is now sent to a wide-belt sanding machine for surface sanding on both sides to give it a smooth surface.

Inspection

Each Ply goes through rigorous inspection for bonding and finish before being dispatched to the market. An in house lab conducts tests on every batch of resin and plywood to ensure consistent quality.

AVRON PLATINUM

Avron Platinum Ply, the flagship product of Avron Ply is a **BWP - Marine grade ply** made from Gurjan timber veneers known for its exceptional strength and structural integrity. Each and every panel is made with pre-press technology and is bonded at high pressure and temperature with undiluted Phenol formaldehyde resin. It is further treated in a vacuum pressure impregnation plant, using specific preservatives to render it resistant to marine organisms.

Avron Platinum Ply is by far the most versatile ply, created to withstand the elements under extreme conditions. It can withstand rigorous climatic conditions, alternate dry and wet weather in deep sea. Avron Marine Plywood is designed to be warp free & bend proof while maintaining its form for lifetime.

Size Available - 4MM | 9MM | 12MM | 16MM | 19MM

Application - Boats, Heat Exchangers, Marine and River Crafts, Roofing & other exposed outdoor structures.

Technical Specifications

Properties Specified as per BIS 710 : 2010 | Stands 72 hours soaking at 100°C | Preservative Treatment as per BIS 5539 : 1969

Adhesive For Bonding BWP Phenol Formaldehyde Synthetic Resin as per BIS 848 : 1974

Specific Gravity Above 750 Kgs/Cubic Meter | Density : 1.18g/cm³

Glue Shear Strength Excellent
GSS Dry State Average : Above 1350 N min | Observed 1490 N
Individual : Above 1100 N min | Observed 1210 N

GSS Wet State Average : Above 1000 N min | Observed 1080 N
Individual : Above 800 N min | Observed 910 N

Screw Holding Strength 275+ (Kg)

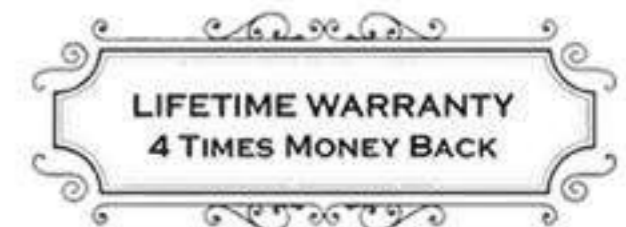
Nail Holding Strength 150+ (Kg)

Tensile Strength 845 Kg/cm²

Modulus of Rupture Above 400 Kgs/cm²

Static Bending Strength Modulus of Rupture (N/mm²)
Across the Grain 30+
Along the Grain 50+

Static Bending Strength Modulus of Elasticity (N/mm²)
Across the Grain 4000+
Along the Grain 7000+



AVRON CLUB

Avron Club Plywood is made from 100% Red Core veneers bonded with undiluted Phenol fortified resin using pre-press technology. Avron Club is a product of precision, uniform across the entire sheet without any bending or warping. Made using STRP technology, each veneer is pre-treated with preservatives to be Termite & Borer Proof.

Avron Club Plywood is designed to withstand the elements whether it be frequent humidity variations or harsh environment conditions. Avron Club Plywood is built to stand the test of time to provide you timeless inspiration. To value our commitment, we offer a lifetime guarantee on each and every panel.

Applications

Boats, Heat Exchangers, Sign Boards, Marine and River Crafts, Public Hoardings, Roofing & other exposed outdoor structures.

Sizes Available - 4MM | 6MM | 8MM | 12MM | 16MM | 19MM

Technical Specifications | BWP - Boiling Water Proof

Properties specified as per BIS 710 – 2010 | Stands 72 hours soaking at 100°C

Adhesive for Bonding	Un-extended BWP Phenol Formaldehyde Synthetic Resin as per BIS 848-1974
Specific Gravity	750 kgs/Cubic Meter
Glue Shear Strength GSS Dry State	Above 1400 N Avg. Above 1100 N Min. Individual Avg
GSS Wet State	Above 1000 N Avg. Above 800 N Min. Individual Avg.
Screw Holding Strength (Kg)	250+
Nail Holding Strength (Kg)	150+
Modulus Of Rupture	400 Kgs/cm2
Tensile Strength (KN/m2) Parallel To Grain Direction	500+
Perpendicular To Grain Direction	300+
Sum In Both Directions Minimum	900+

LIFETIME WARRANTY

AVRON BWR

Avron BWR grade plywood is made of 100% high quality plantation Red Core timber veneers. Both, the inner-core and outer surface is made from superior quality hard wood and is bonded by undiluted Phenol fortified formaldehyde resin to ensure structural integrity and durability.

The BWR ply is the most balanced plywood which combines form with function at an economical offering. More plies are used to render the plywood bend resistant and warp proof. Every panel is treated to be resistant to borers, termites and other wood destroying insects.

Applications

BWR grade is used for exterior applications such as in woodworking like railway coaches, bus and truck bodies, kitchen cabinets, exhaust pipes, false ceilings, speaker cabinets, etc.

Sizes Available - 4MM | 9MM | 12MM | 16MM | 19MM

Technical Specifications | BWR - Boiling Water Resistant

Properties Specified as per BIS 303: 1989 | Stands soaking at 100' C for 72 hours and oven dry at 65'C for 16 hours. (3 cycles.)

Adhesive For Bonding	Melamine Urea Formaldehyde Synthetic Resin as per BIS 848 : 1974
Preservative Treatment	As per BIS 5539 : 1969
Specific Gravity	750 Kgs/Cubic Meter
Glue Shear Strength(Dry)	Above 1350 N. Avg
Glue Shear Strength(Wet)	Above 1000 N. Avg
Screw Holding Strength	200+ (Kg)
Nail Holding Strength	100+ (Kg)
Static Bending Strength M.O.R Average	50+ N/mm2
M.O.R Min Individual	42+ N/mm2
M.O.E Average	5500+ N/mm2
M.O.E Min. Individual	5000+ N/mm2

25 YEARS WARRANTY

AVRON RED

Avron Red is an interior grade Plywood made with Melamine fortified resin and exceeds IS 303 MR parameters. Avron Red Ply is composed with 100% Red Core veneers for superior quality and is most ideal for interior applications where durability & performance is required. The veneers are pre treated with preservatives to make it termite & borer proof while more number of plies are used to ensure against Warping & bending. Avron Red MR Grade Ply is without a doubt one of the strongest and most durable MR Grade Plywood in the Industry.

Applications

Indoor Furniture, Cabinets, Desks, Shelves, Floorboards

Sizes Available - 4MM | 6MM | 8MM | 12MM | 16MM | 18MM

Technical Specifications | MR - Moisture Resistant

Properties specified as per BIS 303 – 1969 | Stands 3 hours soaking at 60°C

Preservative Treatment - Melamine Urea - Formaldehyde as per BIS 848 : 1974

Glue Shear Strength Dry State
Min. Individual Avg. 1350 N Avg.
1100 N

Glue Shear Strength Wet State
Min. Individual Avg 1000 N Avg.
800 N

Screw Holding Strength (Kg) 200+

Specific Gravity 650 kgs/Cubic Meter



AVRON ALTER

Avron Alter Plywood is composed with alternate core veneers of Red Core and Poplar and made with Melamine fortified Urea formaldehyde resin. Ideal for indoor and commercial usage, Avron Alter plywood delivers a balance of durability and economy and is arguably the most durable plywood in its class. Higher density when compared to other plywood reduces water absorption thereby removing warping, swelling and delamination.

Applications

Indoor Furniture, Floorboards, Cabinets, Desks, Cupboards

Sizes Available - 4MM | 6MM | 8MM | 12MM | 16MM | 18MM

Technical Specifications | MR - Moisture Resistant

Properties specified as per BIS 303 – 1969 | Stands 3 hours soaking at 60°C

Preservative Treatment - Melamine Urea - Formaldehyde as per BIS 848 : 1974

Glue Shear Strength Dry State
Min. Individual Avg. 1350 N Avg.
1100 N

Glue Shear Strength Wet State
Min. Individual Avg 1000 N Avg.
800 N

Screw Holding Strength (Kg) 200+

Specific Gravity 650 kgs/Cubic Meter

Nail Holding Strength (Kg) 60+



AVRON FLEX

Made from hardwood Gurjan veneers and hot pressed with BWP grade resin, Avron Flexible Plywood panels are boiling water proof. Ideal for carving rounded furniture, it has superior flexibility and high bending capabilities.

Avron Flex Ply allows cold-forming to the smallest radius requirement reducing the need for heat forming or water treatment. These panels are less expensive than pre-made wood forms, ensure significant saving of time, are less labour intensive and more cost effective than any other method of plywood shaping for creative furniture.

Applications

Creative & designer furniture | Interior Decor

Sizes Available - 4MM | 6MM | 8MM | 12MM

Technical Information

Properties specified as per BIS 303 – 1969 | Stands 3 hours soaking at 60°C

Preservative Treatment - Phenol - Formaldehyde as per BIS 848 : 1974

Density 700 Kg/Cubic Meter

Elasticity (Long Grain) 6300 N/mm² | Elasticity (Cross Grain) 210 N/mm²

Bending Radii (360) for 4mm – 6" | for 6mm – 9"
for 8mm – 16" | for 12mm – 24"

AVRON FILM FACED SHUTTERING

Avron Film Faced Shuttering Ply are compressed and densified panels used mainly for form-works in construction. These panels are composed by aligning several layers of veneers where each layer is coated with pure phenolic thermosetting Resin. We have an inhouse production of overlay film using Solvent Soluble Phenolic Thermosetting Resol Resin which is impregnated upto 480GSM for 34Kg, which guarantees atleast 25 - 30 repetitions for our 34Kg Shuttering Ply.

Avron Shuttering Ply possesses balanced construction both parallel and perpendicular to the panel with equal strength in both directions. The phenolic layer is free from dents or pitches on the surface and thus possesses a mirror-like finish which imparts a smooth surface to concrete structures. The ply is non-corrosive and can withstand a high alkaline medium with cement concrete. Avron Film-Faced Shuttering Ply maintains unchanged technical characteristics throughout the whole period of use which results in more repetitions than conventional plywoods, thus increasing the value for money of the plywood.

Variations Available

12MM – 30Kg | 12MM – 34Kg | 12MM – 36Kg | 19MM – 50Kg

Technical Information

Properties Specified as per BIS 4990 : 1993 | Preservative Treatment - As per BIS 5539 : 1969

Adhesive for Bonding - Phenol - Formaldehyde as per BIS 848 : 1974

Specific Gravity 750 Kg/Cubic Meter | Density : 0.95 gm/cm³

Tensile Strength 110 MPa | Hardness (Rockwel 'H' Scale) : 60+ MPa

Static Bending Strength 95 MPa

Modulus of Elasticity (M.O.E) Along grain : 8400 N/mm² | Across grain : 4800 N/mm²

Modulus of Rupture (MOR) Along grain : 68 N/mm² | Across grain : 47 N/mm²

Compressive Strength 80 MPa, min. (Parallel to laminae)
140 MPa, min. (Perpendicular to laminae)

Impact Strength 0.3 Kg m/sq.cm (perpendicular to laminae)
0.6 Kg m/sq.cm (Parallel to laminae)

Glue Shear Strength(Dry) Average : 1500+ N | Individual : 1150+ N
Glue Shear Strength(Wet) Average : 1200+ N | Individual : 900+ N

AVRON BLOCK BOARD

Avron Block boards are manufactured from a combination of selected, seasoned, durable Pine wood . These are bonded with Melamine fortified UF Resin under high pressure and temperature for MR grade and Phenol Formaldehyde resin for BWP grade. The block boards are resistant to twisting /warping, have superb screw holding and nail holding capability. This is mainly possible because of the seasoned and durable Pine wood timber used.

The wooden battens are thoroughly seasoned in scientifically run seasoning kiln plants and then cut with great precision to obtain uniform thickness. These battens are systematically arranged and utmost care is taken to avoid any extra gap between the battens. Regular tests are conducted to maintain the quality of block boards as per the standards of IS:1659.

Sizes Available - 19MM | 25MM

Grades Available

Commercial MR | BWP - Marine

Applications

Door shutters, shelves, wardrobes, cabinet doors, beds, partitions, etc

Technical Specifications

Properties specified as per BIS 1659 : 2004 | Stands 72 hours soaking at 100°C

Adhesive for bonding as Per BIS 848 : 1974

Mycological Test as per 9.2.4 annexure H of BIS 1659 - 2004

AVRON FLUSH DOORS

Avron flush doors are made ready to use and can be mounted easily with minimum efforts to beautify your dream home. Avron Elegant flush doors are manufactured under strict quality control conditions that fully comply with the ISI specifications. The chemically treated battens and frames of Avron waterproof flush doors prevent any attack of micro-organisms, borer, termite, fungus or any rot.

Three inches wide hardwood frames are sandwiched between PF glued veneers which are pressed at a very high temperature and pressure. The customized doors are available both in single as well as double leaf types. The timber battens are tightly filled in those frames to make a very sturdy and perfect Avron flush door.

Sizes Available - 30MM | 35MM | 40MM

Grades Available

Commercial MR | BWP - Marine

Technical Specifications

Properties specified as per BIS 2202 (Part 1) 1999 | Stands 72 hours soaking at 100°C

Adhesive for bonding as Per BIS 848 : 1974

Preservative treatment as per IS 5539: 1969 Ply Adhesions as per 9.2.3 Annexure G of BIS 1659 - 1990

Specific Gravity - 700 - 750 Kg / Cm³

Mycological Test as per 9.2.4 annexure H of BIS 1659-2004



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