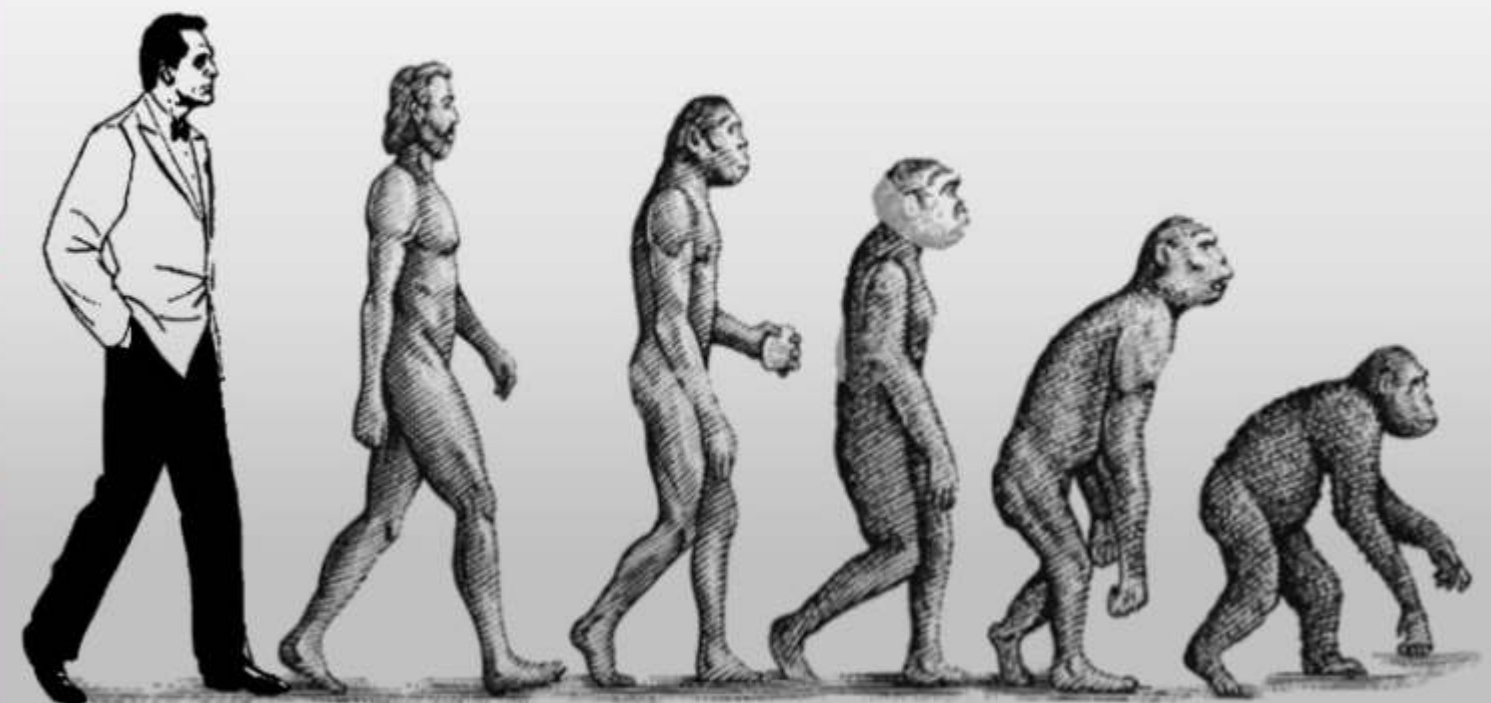




Evolution may reverse  
**But one thing's for sure**  
our assurance to flawless plywood.



**SPL**  
STAR PLYBOARDS LTD.  
AN ISO 9001 COMPANY

Gauri Shankar Link Road, Jagadhari, Haryana-135003  
Ph.: 01732-227719 Fax: 01732-245553  
Mob: 098963 00553, 092150 95222, 092150 93222  
Email: starplyboard@gmail.com

[www.starplyboards.com](http://www.starplyboards.com)

## The **company**

Known for quality rich plywood variants, we have set up a vastly superior infrastructure at Yamuna Nagar, Haryana that is equipped with new age technology and cutting edge facilities. The wealth of expertise gained through more than 25 years of manufacturing wood products, coupled with an unwavering commitment to excellence have always put our products on top. Absolute commitment to, and accent on better-than-the best Plywood has driven the company to consistently invest in research and technology. Naturally then, in no time Star ply has been counted as one of the finest and frontrunner brand in the sector as it bears that stamp of excellence which sets a benchmark in terms of quality, reliability, durability, aesthetics and customer satisfaction etc.



## Quality

Being acutely customer focused, we pride ourselves on processing flexibility, product quality and competent pricing. A team of highly experienced, highly competent personnel with sufficient experience and expertise do the job perfectly according to customer's specifications. We are focused on the pursuit of quality in all our products and on upgrading the quality of the each product. Well equipped with research and development facilities and backed by the professional and experienced staff, we regularly innovate to enhance the quality of products.





# HPGL TECHNOLOGY

## HPGL Technology

(For deep infusion of glue inside the core and panel)



## Ten Sure Qualities Make a STAR

- ☞ Surety of better bonding
- ☞ Surety of full core and panel
- ☞ Surety of longer life
- ☞ Surety of full thickness
- ☞ Surety of high density
- ☞ Surety of strength
- ☞ Surety of better finish
- ☞ Surety of high screw holding capacity
- ☞ Surety of termite borer resistance
- ☞ Surety of water resistance

Star ply is manufactured on the philosophy of high pressurized glue line. HPGL technology helps to infuse the resin deeper in core as well as in panel. When assembled panel are pressed in hydraulic press then resin reaches uniformly to all layers (core and panels) of plywood and thus the bonding we get through this process is higher than the plywood manufactured without this process.

As we know, density plays a very important role in strength of any product. To keep the high density of Star ply we are using the extra core and panel in our plywood. We are using the resin that is fortified with high bonding chemicals, after assembling the core and panel it is pressed at high pressure in hydraulic press. The bonding chemicals help resin to go deep in core and panels and after polymerization, a strong bonding occurs between core and panels.

Thus, the extra core gives the more density and extra glue line with extra pressure gives the extra bonding strength to final product.



# TEN SURE QUALITIES



# STAR SOLID



## 100% Gurjan Plywood



Star SOLID is real high-density plywood; it is manufactured with world best high-density timber GURJAN. Wider core and panel are glued with ISI grade PF resin and pressed in India's best hydraulic press to provide surety of strength and durability in plywood. It is two stage treated plywood, in first stage, GLP is mixed with resin during pressing and in second stage, finished plywood is dipped in anti termite bore chemical solution, which makes it more resistance against microorganisms.

## Decorative Plywood IS:1328



Going by the ancient culture the aesthetic value of Natural Teak still commands even today. Teak plywood is used in the manufacture of indoor & outdoor furniture, partitions, etc., and other articles where weather resistance is desired. It is also used for indoor flooring and as a decorative surface for indoor furnishings. Teak is easily worked and has natural oils that make it suitable for use in exposed locations, where it is durable even when not treated with oil or varnish.

### Gurjan wood, which makes STAR SOLID real star of strength

Gurjan is a species of wood generally found in Burma and Malaysia. It is considered the best species for plywood manufacturing. The wood is hard and has thin fibre, which makes it strong at the same time it does not have any problem on nailing. It being Oil yielding wood, which is naturally resistant to borers and termites. It's the best wood found in nature that is resistant to termites and borers. It is strong and can withstand higher weight. Due to its high quality, it is less prone to warpage and considered best wood for manufacturing plywoods.



100% GURJAN PLY

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HARDWOOD PLY

It is manufactured with hard wood to provide surety of extra strength to your woodworking. It is available in MR grade, which is bonded with UF resin, and BWR grade, which is bonded with waterproof PF resin.

One can get the best out of this plywood if combined with a great designer's mind. This combination can take the beauty and look of the interior to unlimited heights.

### Suggested uses:

Wall paneling, kitchen paneling, cabinets, partition wall, cupboard & wardrobes, shelves, racks & furniture etc.



DECORATIVE PLYWOOD

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TECHNICAL SPECIFICATIONS (IS:1328)		
TEST	ISI REQUIREMENT	Observed Value
1. Open Splits	Not more than 150 mm length and 0.5 mm in width rectified with veneer insert bonded with synthetic resin.	No open splits
2. Torn grain, dead knots, dots, discolouration and sapwood.	Free from such defects.	Free from such Defects.
3. Moisture content	9% - 15%	8%
4. Water Resistance test (3 cycles of 3 hr Boiling at 60°C & 6 Hr Drying at 65°C)	No delamination or blister formation	No delamination or blister formation

*Surety of long life and higher strength*

*Surety of excellent finish and beauty*



# P L Y W O O D



## Plywood IS:303

Star plywood is premium quality product empowered with HPGL technology and it is manufactured with the core, peeled from high quality timber and bonded with high solid content resin. It is available in MR as well as BWR grade.

Good quality raw material and strict quality measures make Star plywood a hard-shell quality product.



- Timber selection is the first step of our quality. Our R&D team set guidelines to select timber and we follow the guidelines strictly.
- Selected logs are treated with anti termite borer chemicals before sending it for peeling.
- Logs are peeled with hydraulic peeling machine to get the smooth surface core.
- Using resin which is fortified with chemicals for extra bonding.
- Assembled with extra layer of core for high density and extra glue line.
- Panels pressed in India's best hydraulic press with high pressure for more infusion of glue inside the core and panels.
- Each panel passes through the quality check by experience chemist before dispatch.



### B W R G R A D E P L Y

Star SHAKTI is premium grade plywood, which is made for the use in exterior application. It is water resistant plywood bonded with waterproof PF resin. GLP is mixed with PF resin to enhance it property against termite and borer. Star SHAKTI provides surety of better bonding in wet conditions.



### M R G R A D E P L Y

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#### Sizes:

8x4ft, 7x4ft, 6x4ft, 6x3ft

#### Thickness:

6mm, 12mm, 18mm

#### TECHNICAL SPECIFICATIONS (IS:303)

TEST	ISI REQUIREMENT	Observed Value
1 Moisture Content	5% - 15 %	8%
Dimension	Length +5mm, Width +2mm Thickness $\geq 6\text{mm} - \pm 5\%$ , $< 6\text{mm} - \pm 10\%$	Within limit
2 Sp. Gravity		$> 7$
3 Resistance to Water (3 cycles of 8 hr Boiling & 16 Hr Drying at 65°C) Adhesion to plies	Mn. Pass Standard	Excellent
4 Resistance to Micro-organism Adhesion to plies	Mn. Pass Standard	Excellent
5 Static Bending Test		
a. Modulus of Elasticity		
- along the grain	Avg. Mn. 5000 N /sq.mm	6500 N /sq.mm
- across the grain	Avg. Mn. 2500 N /sq.mm	3000 N /sq.mm
b. Modulus of Rupture		
- along the grain	Avg. Mn. 40 N /sq.mm	56 N /sq.mm
- across the grain	Avg. Mn. 20 N /sq.mm	30 N /sq.mm

*Surety of Full core and panel with better bonding.*



# STAR PREMIUM



## Marine Plywood IS:710

Made of selected hard wood veneers bonded with PF resin and specially treated in a vacuum pressure impregnation plant, marine grade Star PREMIUM is boiling water proof and highly resistant to marine organisms, extreme climatic changes and alternate wetting and drying, humidity, termites, borers, insects, pests etc.

It is ideal for demanding marine applications like construction and repair of boats, barges, cooling towers, signboards, outdoor hoarding, portable cabins and shelters exposed to weather extremities, structural applications and premium Interiors & Exteriors applications.

### Advantages of Star Marine plywood:

**Durability:** Small scratches through painted plywood may expose the interior to water. Star Marine ply resists all types of climatic conditions. Inexpensive plywood may not last long when it is damp.

**Strength:** Marine plywood is stronger and has consistent mechanical properties.

**Resistant to Warping:** This marine plywood resists warping/ cracking.

### Suggested uses:

Being highly resistant plywood to changes in weather and atmospheric conditions, Star Marine plywood is used for all types of woodworking in marine and sea going vessels. It also finds good application in airfreight container making. Now-a-days, instead of using the normal plywood, people are opting for Star Marine plywood even in kitchens and bathrooms.

TECHNICAL SPECIFICATIONS (IS:710)		
TEST	ISI REQUIREMENT	Observed Value
1 Moisture Content	5% - 15 %	8%
2 Glue Shear Strength (Dry State)	Min. Ind. 1100 N Min. Avg 1350 N	1350 N 1500 N
3 Adhesion to plies	Minimum Pass Standard	Excellent
4 Glue Shear Strength (after 72 hrs. Boiling)	Min. Ind. 800 N Min. Avg 1000 N	1150 N 1250 N
5 Tensile Strength Along the grain - Across the grain - sum of Tensile strength -	4200 N / sq. mm 2500 N / sq. mm 8450 N / sq. mm	5500 N / sq. mm 3950 N / sq. mm 9400 N / sq. mm
6 Static Bending Strength		
a) Modulus of Rupture		
- Along the grain	50 N / sq. mm	65 N / sq. mm
- Across the grain	30 N / sq. mm	40 N / sq. mm
b) Modulus of Elasticity		
- Along the grain	7500 N / sq. mm	8305 N / sq. mm
- Across the grain	4000 N / sq. Mm	4170 N / sq. Mm



Star premium is Marine grade plywood with is manufactured with hard wood timber and bonded with PF resin. It is vacuum pressure treated plywood made for the use at high moisture conditions.

*Surety of high density with resistance to microorganisms*

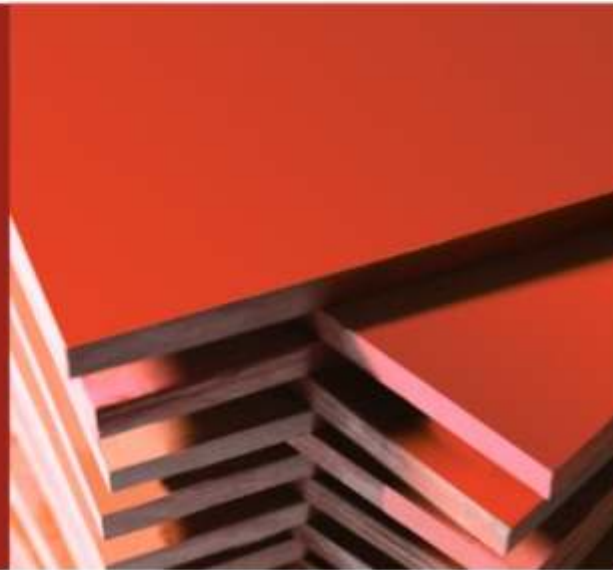


# SHUTTERING PLYWOOD

## Film Face Shuttering Plywood IS:4990



Star Film face densified shuttering plywood is a product for high-end construction uses. The phenol film plywood has a coated, glossy surface, which gives the product long life and great value in terms of re-use. This plywood withstands the corrosive action of cement, water and sunlight.



An external coating of Phenolic Polymer Film made in-house with imported craft paper gives a super smooth, uniform surface finish. Star FFDSP has several advantages over ordinary film faced ply:

- It gives more number of repetitions.
- Provides smooth surface to concrete form work.
- It is economical in ratio to its number of uses.

Precautions to enhance the life of film face plywood:

1. Do not drag or drop from height.
2. Stack on flat surface.
3. Clean both side surfaces after use.
4. Apply mould oil after 3-4 uses.
5. Use sealant on cut edges.
6. Use minimum screw to fix the film face plywood.
7. Use putty in the screw holes.

Range Available:



### 34 KG FILMFACE PLY

It is high-density film face plywood made to get higher repetition. It is recommended to use where area of shuttering work is more. It is available in 34 kg weight.



### 30 KG FILMFACE PLY

Star denso is the economical solution for shuttering work. It is available in 30 kg weight and best option to provide shoot surface and strength to your shuttering.



Thickness:

12mm, 16mm 18mm 21mm

Weight:

30kg & 34kg

Size: 2440mm x 1220mm

**Application:** Buildings, bridges, Heavy Industry & Structures etc for use on walls, slabs, columns and beams etc.

#### TECHNICAL SPECIFICATIONS (IS:4990)

	TEST	ISI REQUIREMENT	Observed Value
1	Moisture Content	5% - 15 %	8%
2	Glue Shear Strength (Dry State) Adhesion to plies	Min. ind. 1100 N Min. Avg. 1350 N Minimum Pass Standard	1310 N 1520 N Excellent
3	Glue Shear Strength (after 72 hrs. Boiling) Adhesion to plies	Min. ind. 800 N Min. Avg. 1000 N Minimum Pass Standard	1080 N 1250 N Excellent
4	Mycological Test Glue Shear Strength	No. sign of separation Min. ind. 800 N Min. Avg. 1000 N	No separation 1080 N 1250 N
5	Tensile Strength Along the grain - Across the grain - Sum of the Tensile Strength	32.5 N / sq. mm 22.5 N / sq. mm 60.0 N / sq. mm	46.5 N / sq. mm 32.2 N / sq. mm 84.7 N / sq. mm
6	Static Bending Strength Modulus of Elasticity - Along the grain - Across the grain	8000 N / sq. mm 4000 N / sq. mm	9100 N / sq. mm 4320 N / sq. mm

*Surety of smooth finish and higher repetition.*



# BLOCK BOARD

## Block Board IS:1659



## Flush Door IS:2202

Star block board is premium quality board with high resistance properties against borer and termite attacks. Manufactured with HPGL technology that forces the glue to reach deeper in frame and battens, which strengthen the bonding, where as in ordinary boards the resin remains at the surface of frames and battens.

Star BWP flush door is a durable product for its excellent quality, exceptional finish and unique dimensional stability. It is made of selected hardwood frames and accurate battens. It is evenly constructed with selected species of timber that matters the most in providing longer life. BWP grade of Phenol Formaldehyde resin is used for bonding the layers.

Properties make Star block board far ahead with other brands:

- 100% full core with smooth surface is used
- Kiln seasoned batten and frames
- Ripsaw cut wooden battens for equal size and thickness
- Single frame without and joint.
- Wooden battens are assembled in such a way that it does not have any gap inside the board
- Fortified resin is used for better bonding
- Thicker face for better surface
- Manufactured with HPGL technology for deep infusion of glue in frames and battens.



TECHNICAL SPECIFICATIONS (IS:1659)			
	TEST	ISI REQUIREMENT	Observed Value
1	Dimensional Changes caused by Humidity Changes, mm:		
a)	from 65% RH to 90% RH	+ 1mm Max.	+ 0.50 mm
	from 90% RH to 65% RH	- 1mm Max.	- 0.55 mm
b)	Local Planeness:	< 1/150	< 1/175
c)	At the extreme range of humidity	No de-lamination at the extreme range of humidity	No de-lamination observed
2	Adhesion of the plies	Minimum pass standard	Excellent
3	Resistance to water (72 hours boiling)	No de-lamination after 72 hours boiling	No de-lamination
4	Resistance to Micro organisms	No appreciable sign of separation at edges.	No separation at edges
5	Modulus of Elasticity	Min. 5000 N / sq.mm	6050 N / sq.mm
6	Modulus of Rupture	Min. 50 N / sq.mm	61 N / sq.mm

Also available  
**PINE WOOD  
BLOCK BOARD**

*Surety of zero gap and higher strength.*



### FEATURES:

- Manufactured with HPGL technology for higher bonding
- Free from corrugation and roughness
- High screw holding capacity
- High shock resistance.
- Boiling water proof
- Smooth surface
- Lab tested and eco friendly
- Zero gap and zero bending

TECHNICAL SPECIFICATIONS (IS:2202)			
	TEST	ISI REQUIREMENT	Observed Value
1	Dimension	Length, Width - + 5 mm Thickness - + 1 mm	Within limits
2	Squareness	Deviation not more than 1 mm on a length of 500mm	Deviation below 1 mm
3	General Flatness	Twist, cupping, warping not to exceed 6 mm	
4	Local Planeness	Depth of deviation at any point to be less than 0.5 mm	Within limits
5	Impact Indentation Test	Depth of indentation not to exceed 0.2 mm	Within limits
6	Edge Loading Test	Deflection of edge with max. To be less than 5 mm	Within limits
7	Shock Resistance Test	No visible defect after test	No visible defects
8	Buckling Test	Initial deflection - < 50 mm residual deflection - < 5 mm	Within limits
9	Staining Test	No visible damage after Test	No visible damage
10	Misuse Test	No deformation after Test	No deformation
11	Varying Humidity Test	No visible warping, twisting or de-lamination	No such defects observed
12	End Immersion Test	No de-lamination at the end	No de-lamination
13	Knife Test	Minimum Pass Standard	Excellent
14	Glue Adhesion Test	No de-lamination	No de-lamination
15	Screw Withdraw Test	Load to withdraw screw to be more than 1000 N	Load - > 1000 N



## FLUSH DOOR

*Surety of excellent waterproof property.*