



A PREMIUM PRODUCT BY
Shri Harkishan Plywood Industries Pvt. Ltd.

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**GLOSS FINISHED
SHUTTERING PLYWOOD**



ABOUT US

SHRI HARKISHAN PLYWOOD INDUSTRIES PVT. LTD . was establishes in 2012 with a vision to setup latest infrastructure to manufacture film face shuttering plywood at bahraich - uttar pradesh .Initially starting with a veneer manufacturing plant , the promoters understood the working of the industry at the ground level . The terai region of uttar pradesh has a rich source of eucalyptus wood but still the manufacturing units here lagged behind in the quality of FF SHUTTERING PLYWOOD when compared to their counterparts in yamunanagar - haryana, the hub of plywood industry in india. Bahraich situated at a strategic location and having a rich source of raw material required to manufacture FF Shuttering plywood, the promoters decided to tap the opportunity by setting up an ultra - modern manufacturing facility at Dharsawan village , Balrampur Road, Bahraich-2718019 (U.P.) INDIA

SHRI HARKISHAN PLYWOOD INDUSTRIES PVT. LTD . started its Film Face Shuttering manufacturing facility in 2024. Equipped with latest and ultra- modern machineries the plant has the production capacity of 40 tons per day.The young and dynamic leadership of the company has helped in employing highly skilled and experienced man power to ensure utmost quality standards. the strategic location gives us an upper edge in procuring best quality Eucalyptus wood, a primary source of raw material required to manufacture Film Face Shuttering Plywood. we have an inhouse resin manufacturing facility operated by IPIRTI qualified engineer.

The company operates by selling its product under the flagship brand TUFFSHIELD. The company follows the TPS manufacturing philosophy which aims to eliminate waste and achieve the best possible efficiency by following lean and just -in - time system. The go to and see philosophy help us to implement rigorous quality checks through which all the products are in accordance with international quality standards.

WHY TUFFSHIELD SHUTTERING PLY ? (IS:4990)

TUFFSHIELD Ply is designed to withstand rigors of construction work while maintaining a smooth & flawless finish. Builders and contractors are sure to appreciate the combination of durability & precision that Tuffshield offer. Tuffshield uses a premium **120 GSM** film coating on both sides delivering exceptional protection against moisture , chemicals and abrasions.

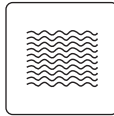
TuffshieldPly is manufactured aligning multiple layers of phenolic resin-coated 100% hardwood veneers at right angles to each other and compressing them under high pressure ensuring a sturdy and resilient final product . The extra compression not only enhances nail and screw holding capacity but also contributes to the overall longevity and quality of the plywood. By using carefully selected quality veneer, Tuffshield Ply sets a high standard for performance & reliability in the construction industry.



100%
Weather Proof



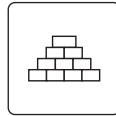
Better Nail
Holding



Warp
Resistant



Boiling
Water Proof



No
Core Gap





APPLICATIONS :

It is being used widely in the construction of bridge , flyover , metro projects, Ship building, water tanks, cooling tower, all high -rise buildings etc., which need Maximum strength and security.

Size : 2440mm X 1220mm

Thickness : 9mm,12mm, 15mm, 18mm , 25mm & 30mm

Weight : 23 ,30 ,34, 36,38&42 KG in 12mm
38, 45, 52, 54, 56 & 60 KG in 19mm

Density : 0.65 to 1.20 gm/cm³

FILM FACED SHUTTERING PLY (IS:4990)

SPECIAL FEATURES OF TUFFSHIELD FILM FACED SHUTTERING PLYWOOD ARE:

- Tuffshield film faced shuttering plywood is most effective in **RCC** construction
- It has a smooth mirror like superior finishing on both surfaces.
- It saves up to 45% of cost compared to other similar products due to more repetition during shuttering work.
- Its cross laminated structure between face veneer, core veneer and the film enhances the strength of ply.
- After using it as shuttering plywood for many times ,it can be re-used for paneling ,roofing ,flooring ,partitions etc.





Responsive customer care
by sending a representative to the building site in a day or less



Sales support beyond the basics
give dealers access to dedicated **CRM** , which will improve inventory turnover and lead generation



Pioneering on - time delivery
reaching the 80% on - time delivery goal while emphasising dependability



Unmatched quality consistency
commit to a high level of quality consistency with a complaint percentage below 1-2%.

FILM FACE SHUTTERING PLYWOOD AS PER IS 4990				
TECHNICAL SPECIFICATION				
S No	Test	BIS Clause	Required Value/Specified value	RESULT
01	Moisture content test	CI-10.1.1	5 to 15 %	7.8 %
02	Glue Adhesion strength in dry state: a) Glue shear strength i) Average failing load ii) Average wood failure b) Adhesion of plies	CI-10.1.2	Average value350 N (Min.) No requirement Min. pass standard	1802.50 Nil Excellent
03	Water Resistance Test a) Glue shear strength i) Average failing load ii) Average wood failure b) Adhesion of plies	CI-10.1.3	Average value000 N, (Min.) No requirement Min. pass standard	1608.20 Nil Pass
04	Visual observation of surface layer after being subjected to 72 hr boiling	CI-10.1.4	No sign of softening, checking, cracking or deterioration on the surface layer.	Satisfactory
05	Resistance to microorganism a) Edge of the specimen b) Glue shear strength i) Average failing load ii) Average wood failure c) Adhesion of plies	CI-10.1.5	No sign of separation at the edge Average value000 N, (Min.) No requirement Min. passstandard	Satisfactory 1450.48 Nil Pass
06	Tensile strength, N/mm² a) Along the grain direction b) Across the grain direction c) Sum of tensile strength (a+b)	CI-10.1.6	32.5 (Min.) 22.5 (Min.) 60.0 (Min.)	50.08 52.54 102.62
07	Static BendingStrength(in Dry) A)Modules of Elasticity (N/mm²) Along the grain direction Across the grain direction B)Modules of Rupture (N/mm²) Along the grain direction Across the grain direction	CI-10.1.7	Average Value -7500 (Min.) Min. Ind. Value-6700 (Min.) Average Value -4000 (Min.) Min. Ind. Value-3600 (Min.) Average Value - 50 (Min.) Min. Ind. Value- 45 (Min.) Average Value- Min. Ind. Value- 27 (Min.)	8776.00 7540.42 5721.00 4588.64 64.46 52.44 51.24 38.50
08	WetBending Strength a)Modules of Elasticity (N/mm²) Along the grain direction Across the grain direction b)Modules of Rupture (N/mm²) Along the grain direction Across the grain direction	CI-10.1.8	Average Value- Min. Ind. Value- Average Value- Min. Ind. Value- (Min.) Average Value - 25 (Min.) Min. Ind. Value- 22 (Min.) Average Value - 15 (Min.) Min. Ind. Value- 13 (Min.)	5720.00 4701.00 4250.60 3200.00 40.1 37.8 30.2 29.4
09	Retention of preservative chemical	CI-10.1.9	12 Kg/cm³ (Min.)	13.42