

**BENDING  
DEEMAK  
GHUN  
AUR GAP**

**DHONDTE  
REH JAOGE**

**SILICONPLY**  
ZERO DEFECT PLYWOOD

*Behtar se  
Behtareen*

MARINE PLY | PLYWOOD (MR & BWR) | BLOCK BOARD | FLUSH DOOR | DECORATIVE DOOR



Il Shree Laxmi Wood Industries

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

Silicon Ply ME  
**PROBLEM?**

**DHONDTE  
REH JAOGE**

**SILICONPLY**  
ZERO DEFECT PLYWOOD

*Behtar se  
Behtareen*

**FREE**  
From **VOC**

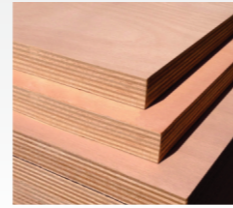


**Z E R O D E F E C T P L Y W O O D**

# SILICON PLYWOOD (IS:710 & IS:303)



When it is a matter of plywood, SILICON Ply is by-far, the undisputed leader among the quality brands. The signature plywood products are used extensively in commercial and domestic settings. SILICON plywood is affordable yet durable and offer unmatched strength and oodles of style to complement modern, urban living. SILICON ply is manufactured with utmost care with the high quality selected raw materials. High density Plantation timber is used to manufacture the SILICON ply. Each core veneer is bonded with high solid content resin made by experts of resin formulation. It is warp resistant plywood which maintains its original shape over the years and treated specific chemical to make it termite and borer resistant.



**SILICON Ply** offer wide range of products to meet up the requirement of different uses. It is perfect for the interior, exterior and other heavy duty uses

TECHNICAL SPECIFICATIONS IS:303		
TEST	IS REQUIREMENT	Observed Value
1 Moisture Content Dimension	5% - 15 % Length+5mm, Width+2mm Thickness ≥ 6mm - ± 5%, < 6mm - ± 10%	8% 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	Min. Pass Standard	Excellent
4 Resistance to Micro-organism -Adhesion to plies	Min. Pass Standard	Excellent
5 Static Bending Test		
a Modulus of Elasticity - along the grain Avg. - across the grain Avg.	Min. 5000 N /sq.mm Min. 2500 N /sq.mm	6500 N /sq.mm 3000 N /sq.mm
a Modulus of Rupture - along the grain Avg. - across the grain Avg.	Min. 40 N /sq.mm Min. 20 N /sq.mm	56 N /sq.mm 30 N /sq.mm

**SILICON GOLD (IS:710):** Completely water proof Marine grade plywood made with 100% GURJAN timber. Perfect for exterior use.

**SILICON PREMIUM (IS:303):** Boiling water resistant BWR grade plywood made with GURJAN timber.

**SILICON ULTIMA (IS:303):** BWR Grade plywood with ultimate strength, made with high density RED wood and POPLAR core.

**SILICON ULTIMA (IS:303):** MR Grade plywood for interior furniture and wood working, made with high density RED wood and POPLAR core.

**SIZE:** 8x4, 8x3, 7x4, 7x3, 6x4, 6x3 **THICKNESS:** 19mm, 16mm, 12mm, 9mm, 6mm

# SILICON FLUSH DOOR (IS:2202)

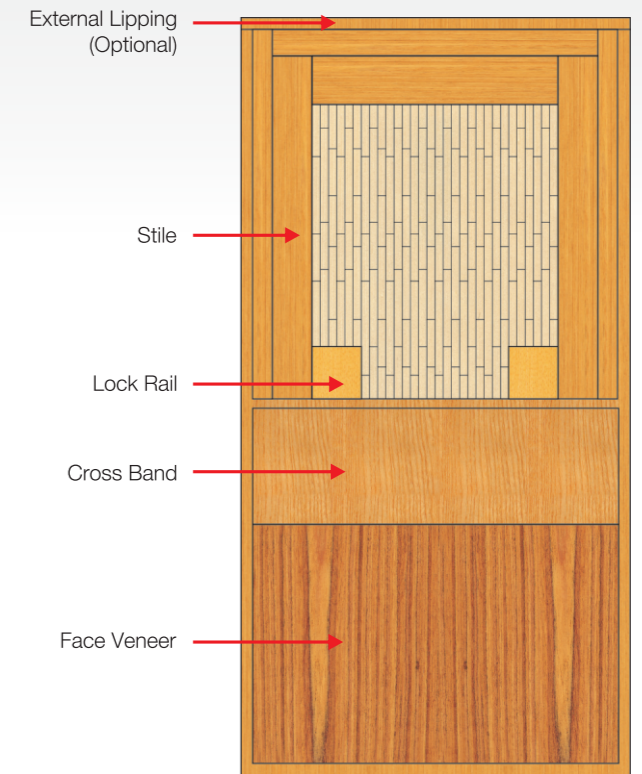


SILICON flush doors are modern, elegant and ready to use that can be easily installed with minimum efforts to protect and beautify your dream home. They are made out of high quality wood to make them exceptionally durable and dimensionally stable with excellent tooling and finishing properties. Obviously, the doors are made with chemically treated seasoned hardwood battens and frames. They are then bonded with special quality Phenol formaldehyde synthetic resin as per the guidelines of IS:2202. Flush Doors are treated for total termite and borer protection. The doors can be manufactured according to customized sizes too.

**SILICON GOLD (IS:2202)** Flush Door: Ultimate quality and high strength WATER proof (BWP grade) flush door made with PINE wood battens and GURJAN wood core.

**SILICON ULTIMA (IS:2202)** Flush Door: BOILING water proof (BWP) grade flush door made with PINE wood battens and POPLAR wood core

**SIZE:** Customise Size Available **THICKNESS:** 30mm, 32mm, 35mm, 38mm, 40mm, 45mm



Construction of FLUSH DOOR

# SILICON BLOCK BOARD (IS:1659)

SILICON Block boards are manufactured from the combination of selected, seasoned, durable Pinewood timber battens, veneers and adhesives. These are bonded with Urea Formaldehyde Resin under high pressure and temperature for MR grade and Phenol Formaldehyde resin for BWP grade. The block boards are resistant to twisting /warping, has superb screw holding & nail holding capability. Thus, SILICON BOARD makes the work easy. This is mainly possible because of seasoned & durable timber which is used. The wooden battens are thoroughly seasoned in scientifically run seasoning kiln plants and then cut with great precision to obtain uniform thickness.

TECHNICAL SPECIFICATIONS IS:1659		
TEST	ISI REQUIREMENT	Observed Value
1 Dimensional Changes caused by Humidity		
a) Changes, mm from 65% RH to 90% RH	+ 1mm Max	+ 0.50 mm
b) Local Planeness	- 1mm Max. < 1/150	- 0.55 mm < 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

**SIZE:** 8x4, 8x3, 7x4, 7x3, 6x4, 6x3

**THICKNESS:** 19mm, 25mm

# SILICON LAMINATED DOOR

SILICON laminated designer doors are specified where absolute face aesthetic uniformity is desired. These doors are laminated with high-pressure laminate sheet of 1mm and 0.8mm. The base door is manufactured by seasoned battens and frames with waterproof PF resin. Laminate doors are available in broad range of design options, using high quality laminate sheet for zero maintenance and long life



TECHNICAL SPECIFICATIONS IS:2202		
TEST	REQUIREMENTS	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 Slamming 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



**SILICON PREMIUM BLOCK BOARD: (IS:1659)** Extra strength BWP grade block board made with PINE wood battens and GURJAN core.

**SILICON ULTIMA BLOCK BOARD: (IS:1659)** Boiling water proof block board made with PINE wood battens and POPLAR wood core.

**SILICON ULTIMA BLOCK BOARD: (IS:1659)** MR grade block board for interior furniture, made with PINE wood battens and POPLAR wood core.

Sizes & thicknesses – Standard sizes available and you can choose from the thicknesses of 19 & 25mm.