



Manufactured as per IS : 303 specification 'Galaxy' the premium quality M.R. Grade Plywood caters to every need of customer. Its excellent quality perfectly matches the economical frame. With a normal & minimal climatic alternation, Galaxy Plywood is best recommended to grace all interior application that includes office & computer room furniture, your dwelling place and business establishment.

## **B.W.R. Grade Plywood**

This premium quality of 'Galaxy' B.W.R. confirms to the IS : 303-1989 standardization. It has been manufactured from selected stress and satin free hard wood within house manufactured PF resin. 'Galaxy' is resistible to extreme weather conditions like heavy moisture content of air, dryness, unbeatable heat, dense fog and all adverse atmospheric change. Its best applicable place starts from automobile frames, railways, bus coaches to kitchen cabinets, bathroom furnishing, exterior hoarding, sign board & even dining table top.

## **Technical Specification**

	BWR	MR
Density	Approximately 0.650 kg/m <sup>3</sup>	600 kg/m <sup>3</sup>
Glue shear strength (Dry)	Minimum 135 kg. cm <sup>2</sup>	110
Glue shear strength (Wet)	Minimum 100 kg. cm <sup>2</sup>	90
(After 8 hours boiling at 100C)		
Moisture content	7-12%	7-12%
Bending strength		
Across the grains	357- 420 Kg/cm <sup>2</sup>	
Parallel to the grains	213 Kg/cm <sup>2</sup>	
Cycle test in dry and wet conditions 8/hours x 3 cycles	Passes	Passes
Standard thickness (in mm)	3,6,9,12,16,19	3,6,8,12,15,18
Standard size (in feet)	8'x4, 8x3', 7x4', 7x3', 6x4', 6x3'	8'x4, 8x3', 7x4', 7x3', 6x4', 6x3'

## **Block Board**

Seasoned Newzeland Pine / Himalayan / Poplar wood is effectively treated with chemicals to manufacture premium quality brand of ‘Galaxy’ Block Boards. Selected veneer on it gives the board high mechanical strength and high screw holding capacity. Block Boards are bonded with superior grade resin, resulting in a product with high dimensional stability and excellent insulating properties. Galaxy Boards are weather proof and do not twist under bad weather conditions. Fixed type preservatives are used in our boards to make them resistant to borers & termites. The boards are available in both interior & exterior grades.

## Technical Specification

Static bending strength	Standard sizes (in feet)	8x4, 8x3, 7x4, 7x3, 6x4, 6x3
	Interior grade	Exterior grade
Modules of rupture	45N/mm	55N/mm
Modules of elastically	4500N/mm <sup>2</sup>	5500N/mm <sup>2</sup> Thickness (In mm)
Density: Approximately	500 Kg/M <sup>3</sup>	520 Kg/M <sup>3</sup> 19,25
Treatment	Borex	Borex
Grade	MR	BWP

## Flush door

Our flush doors are of guaranteed quality, structurally strong & dimensionally stable for both internal & external uses. Excellent quality flush door are manufactured from select timber and are of should core construction. Doors are framed in seasoned hard wood battens and pressed at high pressure with phenol formaldehyde resin. Our flush doors act as insulations against heat the sound.

### Advantages

Boiling water-proof and powder proof. Decorative Flush Coors are also available. It is economical in comparison to other products due to durability.

## Technical Specification

Frame	:	Preservative treated hardwood
Inner battens	:	Poplar/Pine
Bond	:	BWP grade

Flexure Test	:	Passes
Knife Test	:	Passes
Misuse Test	:	Passes
Verying Humidity Test	:	Passes
Dimensional stability	:	Passes
Available thickness	:	25,30,35,40 mm

## Marine Ply

Galaxy marine plywood is manufactured frame related Red Hardwood. Timber mainly gurjan the plywood is highly available and lasts for decades. The preservatives treatment is given of copper, chease & effect and eliminates the possibilities of defective plywood production.

Thickness data of Galaxy club Marine plywood

Specific Gravity	:	.65 to .75
Nail holding strength	:	above 100 kg
Screw holding strength	:	250 kg
Bending strength		
Along the grain	:	400 kgf/cm <sup>2</sup>
Across the grain	:	250 kgf/cm <sup>2</sup>
Moisture content	:	8%
Boiling water resistant	:	72 hrs at 100C

**Advantage:** Marine Plywood is available with ISI mark 710 CML NO. 9307778

It is borer proof. It is economical in comparison to other products due to durability.

### Applications

Ship building	Truck and Bus Body	Cooling towers
Interiors/Exteriors	elegant furniture	Kitchen Cabinet

Available size / range (all measurement in mm)

Length	Width (mm)	Thickness (in mm)
1840	920, 1220	3,6,9,16,18,25
2140	920, 1220	
2440	920, 1220	

## Shuttering ply

Galaxy Shuttering plywood is manufactured for special applications only. The qualitative & unmatched long lasting life of the shuttering plywood is sophisticatedly applied with 170 GSM phenolic films on both sides to give superfine mirror finish to the surface and to provide a resistive layer to prevent water penetration into the plywood. The superfine quality of shuttering graces all civil construction firms for casting concrete slabs, beams & column boxes for a mirror finish output. This finish requires no further furnishing of surface if shuttering used carefully during application. Civil engineering firms of repute across the country are our esteemed clientele.

### Technical Specification IS : 4990 : 1993

Phenol bonded & BWP Grade

Bending Radii (cm) :-

Thickness	9mm	12mm
Parallel to face grain	215	330
Perpendicular to face grain	165	255

Loading and deflection :

(Taking the maximum permitted deflection at 1: 1270 that is 1/270 of the span between the bearers), the maximum load permitted is given below:

		30 cm	40 cm	50cm	60cm
Parallel to face grain	{ 9 mm	760	320	195	110
	{ 12 mm	1220	540	390	170
Perpendicular to face grain	{ 9mm	1270	540	320	170
	{ 12 mm	1950	850	640	360

If wet boards are used, the load shown above should be reduces to 75%

Standard sizes		8x4
Density	:	0.60 gm / cc to 1.00 gm cc as per requirement
Weight of 8x4' sheet of	:	
12 mm	:	23 kg, 30 kg, 34 kg, 38 kg
18 mm	:	36 kg, 45 kg, 52 kg
Available option	:	Film face, Resin coated & plain

## Fire retardant

Galaxy Fire Retardant Plywood (FRP) is BWR grade plywood given anti flame treatment of Ammonia sulphate, and Ammonia phosphate and TCP. The plywood can be safely used in automotive industry, domestic industry, domestic and office building and at airports. The plywood conforms to IS : 5509:2000 standard. The technical specifications are given below.

	Required as per IS: 5509	Galaxy's observed Values
Glue shear strength in dry stage	1350 N	1410 N
Glue shear strength in wet stage	1100 N	1160 N
Flammability	30 min.	25 min.
Rate of Burning	20 min.	25 min.
Flame Penetration	15 min. / 6 mm	15 min. / 6 mm

Fire retardant doors are also available in same specification.