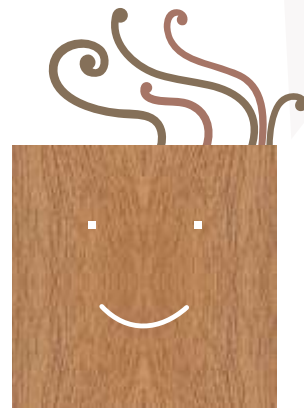


# TOUGH Titans

## MOISTURE RESISTANT (MR)PLYWOOD



Solitaire is priceless even if it looks simple. Actually nature enriches them in the warm fold with the beauty of nostalgic times. Like this, Garnet makes plywood from superior quality handpicked hard wood timber, searched with the consent of mother earth and forest.

Its simplicity speaks.

Sliced and cut into veneers with the most modern and advanced machinery, Garnet Plywood is a marvel. Its bonding is with the highly integrated UF Resin element which makes it immortal in all aspects. Compression with HOT hydraulic presses under high pressure and temperature attributes the desired flexibility with power to give supreme creation of its kind.

### TECHNICAL SPECIFICATIONS (IS:303)

S.No.	Test	ISI Requirement	Observed Value
1	Moisture Content	5% - 15%	8%
2	Dimension	Length +6mm, Width +3mm Thickness ->6mm +-5%, <6mm +-10%	With in limit
3	Sp. Gravity		>7
4	Resistance to Water	3 cycle 3Hrs. At 60+-2C	No de-lamination
5	Mycological Test	3 weak	No de-lamination
6	Adhesion of plies	Minimum Pass, Excellent, Poor	Excellent
7	Static Bending Strength		
a.	MOE- Parallel		
	Average	Not Less Than 4000 N/mm2	4500 N/mm2
	Individual	Not Less Than 3600 N/mm2	4100 N/mm2
b.	MOE-Perpendicular		
	Average	Not Less Than 2000 N/mm2	2500 N/mm2
	Individual	Not Less Than 1800 N/mm2	2100 N/mm2
c.	MOR-Parallel		
	Average	Not Less Than 30 N/mm2	35 N/mm2
	Individual	Not Less Than 27 N/mm2	31 N/mm2
d.	MOR-Perpendicular		
	Average	Not Less Than 15 N/mm2	19 N/mm2
	Individual	Not Less Than 13 N/mm2	15 N/mm2

### Standard Sizes (In feet)

8x4, 8x3, 8x2½, 7x4, 7x3, 7x2½,  
6x4, 6x3, 6x2½, 5x4, 5x3, 5x2½

### Standard Thicknesses (In mm)

3, 4, 6, 9, 12, 16, 19, 25

**Quadro**<sup>x4</sup>  
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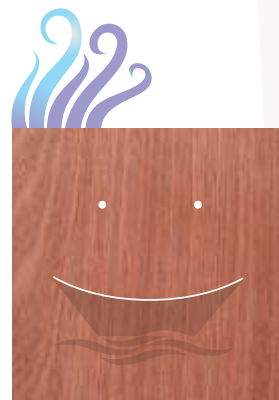
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VIBRANT Winner

# MARINE PLYWOOD

MARINE GRADE (BOILING WATER PROOF)



Enchantment of a Solitaire increases many fold when it establishes the quality of the endurance. It is clearly visible in facing diverse and acute climatic conditions – hot, cold, dry and wet and so on. Marine Plywood from Garnet is perfect on this scale. It's a very versatile and strong product. It is manufactured using the highest quality veneers and crafted to give high quality wood in which defects have been graded out.

The elimination of core gaps while cutting makes the wood better than any solid wood with ability to withstand alternate drying – wetting and changes in temperature. Bonding with highly integrated resin gives immeasurable firmness to this plywood. The special permanent preservative resin treatment by Vacuum Pressure Impregnation done with a minimum retention of 12kg/m<sup>3</sup>, as specified by ISI, makes Marine Plywood invincible against insects and deadly aquatic organisms.

## TECHNICAL SPECIFICATIONS (IS:710)

S.No.	Test	ISI Requirement	Observed Value
1	Moisture Content	5% - 15%	8%
2	Dimension	Length +6mm, Width +2mm Thickness ->6mm +5%, <6mm +-10%	With in limit
3 a.	Glue Adhesion in Dry State Glue Shear Stength Min. Average	Shall be not less than 1350N	1420N
b.	Min. Individual Adhesion of Plies (knife test)	Shall be not less than 1100N Minimum Pass, Excellent, Poor	1170N Excellent
4 a.	Water Resistance Test Glue Shear Stength Min. Average	72 Hrs. Boiling at 100C	No Delamination
b.	Min. Individual Adhesion of Plies (knife test)	Shall be not less than 1000N Shall be not less than 800N Minimum Pass, Excellent, Poor	1120N 1010N Excellent
5 a.	Tensile Strenght Parallel	Shall be not less than 42.0 N/mm <sup>2</sup>	54.12 N/mm <sup>2</sup>
b.	Perpendicular	Shall be not less than 25.0 N/mm <sup>2</sup>	32.21 N/mm <sup>2</sup>
c.	Sum of Tensile Strength	Shall be not less than 84.50 N/mm <sup>2</sup>	86.33 N/mm <sup>2</sup>
6 a.	Static Bending Strength MOE- Parallel Average	Not Less Than 7500 N/mm <sup>2</sup>	8500 N/mm <sup>2</sup>
b.	Individual MOE-Perpendicular Average	Not Less Than 6700 N/mm <sup>2</sup>	7800 N/mm <sup>2</sup>
c.	Individual MOR-Parallel Average	Not Less Than 4000 N/mm <sup>2</sup>	4600 N/mm <sup>2</sup>
d.	Individual MOR-Perpendicular Average	Not Less Than 3600 N/mm <sup>2</sup>	4100 N/mm <sup>2</sup>
	Individual MOR-Perpendicular Average	Not Less Than 50 N/mm <sup>2</sup>	58 N/mm <sup>2</sup>
	Individual MOR-Perpendicular Average	Not Less Than 45 N/mm <sup>2</sup>	52 N/mm <sup>2</sup>
	Individual MOR-Perpendicular Average	Not Less Than 30 N/mm <sup>2</sup>	36 N/mm <sup>2</sup>
	Individual MOR-Perpendicular Average	Not Less Than 27 N/mm <sup>2</sup>	32 N/mm <sup>2</sup>

### Standard Sizes (In feet)

8x4, 8x3, 8x2½, 7x4, 7x3, 7x2½,  
6x4, 6x3, 6x2½, 5x4, 5x3, 5x2½

### Standard Thicknesses (In mm)

3, 4, 6, 9, 12, 16, 19, 25

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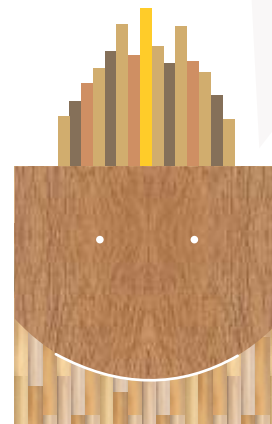
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HERCULEAN Hold

# 7 LAYER BLOCK BOARD (MR / BWP)



Every Solitaire is composed of power and timelessness. But a few are Hercules in respect of their towering power. Garnet has introduced a macho Block Board with unmatched strength and great durability for powerful needs. Garnet has provided India this unique 7 layer Block Board, and because of its superior balance construction and incredible strength it is unmatched to any other board in the whole nation. Seasoned to meet both interior and exterior needs, its flexibility and toughness is unparalleled.

Treated with both PF & UF Resins, the boards are powerful enough to provide resistance to termite and other wood destroying elements.

## TECHNICAL SPECIFICATIONS (IS:1659)

S.No.	Test	ISI Requirement	Observed Value	
1	Manufacture			
a.	Width of Beat	Not more than 30 mm	28mm	
b.	Width of Rail (Frame)	May be upto 45 mm	46mm	
c.	Moisture(Beats&Rail)	Between 8 to 12 %	8.20%	
2	Dimension	Length +6mm, Width +3mm Thickness -> +5 %, Squareness & Edge Straightness - 2mm per 1000mm,	With in limit	
3	Mycological Test	3 Weak	No de-lamination	
4	Resistance to Water	BWP-6Cycle 8Hrs. At 100C	No de-lamination	
5	Adhesion of Plies	Minimum Pass, Excellent, Poor	Excellent	
6	Dimensional changes caused by Humidity	Difference in Length = +- 1mm Difference in Thickness = +- 1mm Difference in Length = +- 1mm Difference in Thickness = +- 1mm Shall be d/l <1/50	MR	BWP
a.	At 90+-5 % R.H & 27+-2C Temp.		0.39mm	0.35mm
b.	At 45+-5 % R.H & 27+-2C Temp.		0.22mm	0.20mm
c.	Local Planeness		0.0011mm	0.0015mm
7	Modulus of Elasticity (MOE)			
	Average	MR	BWP	
	Individual	Not Less Than 4000 N/mm2 Not Less Than 3400 N/mm2	Not Less Than 5000 N/mm2 Not Less Than 4200 N/mm2	4800 N/mm2 4100 N/mm2 5800 N/mm2 5100 N/mm2
8	Modulus of Rupture (MOR)			
	Average	MR	BWP	
	Individual	Not Less Than 40 N/mm2 Not Less Than 34 N/mm2	Not Less Than 50 N/mm2 Not Less Than 42 N/mm2	46 N/mm2 42 N/mm2 56 N/mm2 52 N/mm2

### Standard Sizes (In mtr)

All standard sizes.

### Standard Thicknesses (In mm)

19 and 25.

### Standard Grade

MR & BWP grades.

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# AESTHETIC Marvel

## DECORATIVE PLYWOOD NATURAL, TEAK AND RECON (MR)



Love the nostalgia - an ever flowing remembrance of feelings and events of past. But it pampers the bright future too. When both feelings share the same platform, Decorative Plywood is born. Exceptionally brilliant designs are carved as mark of respect to an exclusive customer base. Of this, Natural Veneers are decorative masterpieces at par with international outlook, content and quality. Whereas, Recon decorative veneers, handpicked from 50,000 varieties around the world, reaffirm your tastes and image make over.

### TECHNICAL SPECIFICATIONS (IS:1328 )

S.No.	Test	ISI Requirement	Observed Value
1	Open Splits	Not more than 150mm length and 0.5mm in width rectified with veneer insert bonded with synthetic resin	No open splits
2	Torn grain, dead knots, dote, discolouration and sapwood	Free from such defect.	Free from such defect.
3	Moisture Content	5% - 15%	8%
4	Dimension	Length +6mm, Width +3mm Thickness ->6mm +-5%, <6mm +-10%	With in limit
5	Wate Resistance Test	No Delamination & Blister Formation	No Dilamination No Blister formation
6	Adhesion of Plies (knife test)	Minimum Pass, Excellent, Poor	Excellent

### Standard Sizes (In feet)

8x4, 8x3, 8x2½, 7x4, 7x3, 7x2½,  
6x4, 6x3, 6x2½, 5x4, 5x3, 5x2½

### Standard Thicknesses (In mm)

3, 4, 6, 9, 12, 16, 19, 25

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RICHNESS Revealed

# TEAK PLY & BOARD

(MR / BWR)



A Solitaire oozes strength. Garnet boasts that. Toughness describes its effort in becoming invincible. Garnet offers Teak Plywood and Teak Block Boards to enhance your desire for beauty. Teak being the most durable, hardest timber with amazing toughness is the first choice for mature minds.

Its natural golden hue also radiates a royal look giving enormous regal charm to the woodwork. Made from high quality teak veneers with advanced technology, Garnet Teak veneer reflects impeccable strength. It is resistant to moisture, temperature changes and micro-organisms making it a gift of lifetime.

So, it is aptly used to play and highlight the beauty of your décor and other strong needs in the interior and even for outdoor requirements such as benches and stalls. The excellent craftsmanship of Garnet combined with the personality of Teak resulted in wonderful show to please the senses.

**Available in : Burma Teak (Q) Grainless, Burma Teak (Q) Pencil Grains, Smoked Teak (Q), Flowery Teak, Smoked Flowery Teak, Knotty Teak, Smoked Knotty Teak, Figured Teak**

## TECHNICAL SPECIFICATIONS (IS:1328 )

S.No.	Test	ISI Requirement	Observed Value
1	Open Splits	Not more than 150mm length and 0.5mm in width rectified with veneer insert bonded with synthetic resin	No open splits
2	Torn grain, dead knots, dote, discolouration and sapwood	Free from such defect.	Free from such defect.
3	Moisture Content	5% - 15%	8%
4	Dimension	Length +6mm, Width +3mm Thickness ->6mm +-5%, <6mm +-10%	With in limit
5	Wate Resistance Test	No Delamination & Blister Formation	No Dilamination No Blister formation
6	Adhesion of Plies (knife test)	Minimum Pass, Excellent, Poor	Excellent

### Available Sizes (In feet)

8x4, 8x3, 8x2½, 7x4, 7x3, 7x2½,  
6x4, 6x3, 6x2½, 5x4, 5x3, 5x2½

### Available Thicknesses (In mm)

3, 4, 6, 9, 12, 16, 19, 25

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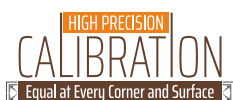
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Into the SAFE HAVEN



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## 7 LAYER FLUSH DOOR ( B W P )



The core of Solitaire is unyielding as it is rock-hard. But its exterior is pleasing to melt one's heart. This quality of a true Solitaire transforms it into a Samurai – sharp and smooth. Styled in this way are Garnet Flush Doors – Strong as well as elegant.

Made by using high quality veneers with superior framing and paneling techniques, Garnet Flush Doors are a class apart. Ensuring security and great impression, they are perfect for all needs. Conforming to IS: 2202, they are available in a vast range of sizes and standard thicknesses.

Designed to match distinct tastes and imaginations, Garnet Flush Doors magnify the exquisiteness of interiors and other places where they are installed.

### TECHNICAL SPECIFICATIONS (IS:2202;1999 BWP Part-1)

S.No.	Test	ISI Requirement	Observed Value
1	Construction	a. Width of Frame between 45 & 75mm b.Width of each strip of wood <- 30mm c. Moisture content of strip <- 12% d. Core Strip Shall be of one Species only e. Stiles & Rails Shall be w/o any Joint f. Thickness of Core band between 1&3mm g. Thickness of Face Veneer between 0.5 & 1.5 mm	47mm 27mm 8.90% Safeda, Popular Within limit 1.9mm 0.5mm
2	Dimension	Height +5mm, Width +5mm Thickness +- 1mm, & Squareness-shall not more than 1mm, in 500mm	Within limit
3	General Flatness Test	Twist, Cupping, Warping shall not be more than 6mm	0.58mm
4	Local Planeness Test	Depth of deviation shall not be more than 0.5mm	0.46mm
5	Impact Indentation Test	Depth of deviation shall not be more than 0.2mm	0.13mm
6	Edge Loading Test	At Max.load-Deflection of edge<5mm..... on removal of load-residual deflection<0.5mm	1.23mm 0.08mm
7	Shock Resistance Test	No visible damage in any part of the door after 25 blows	No Visible defects
8	Buckling Test	Initial deflection < 50mm Residual deflection not more than 5mm after 15 minutes	35mm 1.5mm
9	Slamming Test	No visible damage after Test	No Visible damage
10	Misuse Test	No visible damage after Test	No deformation
11	Varying Humidity Test	No visible warping, twisting, or De-lamination	No such defects observed
12	End Immersion Test	Shall have no delamination at the end of 8 cycle	No de-lamination
13	Flexyre Test	Deflection at the Max. load shall not than 1/30 of the length & 1/15 of Width Residual deflection shall not be more than 1/10 of Max deflection	within limit within limit
14	Knife Test	Min.Pass, Excellent,Poor	Excellent
15	Glue Adhesion Test	No delamination has occurred in the glue line at 100C temp. till 4 Hrs. & Dry 24Hrs. At ambient temp	No de-lamination
16	Screw Withdrawl Test	Load to withdrawl Screw to be more than 1000 N	1220N

#### Standard Thicknesses (In mm)

30, 32, 35, 38, 40, 45

#### Standard Grade

BWP

#### Standard Sizes (In feet)

Available as per requirement



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## FLEXIBLE PLYWOOD (MR / BWR)



The aura of a Solitaire imparts magic touch to its holder. That touch, in turn, liberates the freedom, expression and character of the soul. Garnet Flexy is a matchless product offered to supplement the creative aspirations of furniture lovers. A promising product, especially for furniture makers, with magical abilities, it can mould and bend to take any shape with great ease. It does not clip, crack, peel or gets stained while bending, enabling craftsmen to pursue their innovative visions.

Available in MR / BWR grades as well as various sizes of sheets, it can be bent by hand. It does not require any special equipment to bend, fabricate or laminate, making easy to use and handle. A small radius up to 25 mm can be achieved, making it a wonder product, right and proper for all kinds of shapes. Garnet Flexy, furnishes it touch to creative freedom and expression of its lovers.

### TECHNICAL SPECIFICATIONS (IS: 303)

S.No.	Test	ISI Requirement		Observed Value	
1	Moisture Content	5% - 15%	8%		
2	Dimension	Length +6mm, Width +3mm Thickness ->6mm +5%, <6mm +10%		Within limit	
3	Sp. Gravity	>7			
4	Resistance to Water	3 cycle 3Hrs. At 60+-2C		No de-lamination	
5	Mycological Test	3 weak		No de-lamination	
6	Adhesion of plies	Minimum Pass, Excellent, Poor		Excellent	
7	Static Bending Strength				
a.	MOE- Parallel				
	Average	Not Less Than	4000 N/mm <sup>2</sup>	5000 N/mm <sup>2</sup>	4500 N/mm <sup>2</sup>
	Individual	Not Less Than	3600 N/mm <sup>2</sup>	4500 N/mm <sup>2</sup>	4100 N/mm <sup>2</sup>
b.	MOE-Perpendicular				
	Average	Not Less Than	2000 N/mm <sup>2</sup>	2500 N/mm <sup>2</sup>	2500 N/mm <sup>2</sup>
	Individual	Not Less Than	1800 N/mm <sup>2</sup>	2200 N/mm <sup>2</sup>	2100 N/mm <sup>2</sup>
c.	MOR-Parallel				
	Average	Not Less Than	30 N/mm <sup>2</sup>	40 N/mm <sup>2</sup>	35 N/mm <sup>2</sup>
	Individual	Not Less Than	27 N/mm <sup>2</sup>	36 N/mm <sup>2</sup>	31 N/mm <sup>2</sup>
d.	MOR-Perpendicular				
	Average	Not Less Than	15 N/mm <sup>2</sup>	20 N/mm <sup>2</sup>	19 N/mm <sup>2</sup>
	Individual	Not Less Than	13 N/mm <sup>2</sup>	18 N/mm <sup>2</sup>	15 N/mm <sup>2</sup>

### Standard Sizes (In feet)

8x4, 8x3, 8x2½, 7x4, 7x3, 7x2½,  
6x4, 6x3, 6x2½, 5x4, 5x3, 5x2½

### Standard Thicknesses (In mm)

3, 4, 6, 9, 12, 16, 19, 25

**Quadro**<sup>x4</sup>  
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# FIERY FORCE

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## FIRE RETARDANT PLYWOOD



Solitaires possess a compact structure to fence against any evils. Be it the pressure of any kind, heat or fire or application of any other force. Garnet Fire Retardant Plywood is the latest entry in the diverse range of products from Garnet. Result of visionary research and development at Garnet, it offers extensive protection against fire. It is much safer than other products as it considerably diminishes the impact of fire.

The plywood is treated with superior quality chemicals capable of retarding fire. They diminish the rate at which fire spreads or invades the surface of plywood. Henceforth, in the face of mishap, the plywood maintains its basic constitution for a longer duration in contrast to other building materials. Garnet Fire Retardant Plywood has its applications in Kitchens, Aerodromes, Petrol Pumps, Multi-storey buildings and Laboratories.

### TECHNICAL SPECIFICATIONS (IS:5509;2000 BWP)

S.No.	Test	ISI Requirement	Observed Value
1	Moisture Content	5% - 15%	8%
2	Dimension	Length +6mm, Width +3mm Thickness ->6mm +-5%, <6mm +-10%	With in limit
3	Fire Retardant Test		
a.	Flammability Test	Time taken for second ignition shall not be less than 30 minutes	24 Minutes
b.	Flame Penetration Test	Time taken for Flame Penetration shall not be less 15 minutes for every 6mm thickness	22 Minutes
c.	Rate of Burning	Time taken to lose weight from 30% to 70% shall not be less than 20 minutes	12 Minutes
4	Adhesion Test	Minimum Pass, Excellent , poor	Excellent
5	Wate Resistance Test	BWR - 3Cycles 8Hrs.at 100C	No Delamination

#### Available Sizes (feet)

All standard sizes

#### Grades

BWP

#### Available Thicknesses (mm)

All standard thickness

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