

# CORE DECORE PLYWOODS



## MOISTURE RESISTANT PLYWOOD (MR GRADE)

MR grade plywood stands for Moisture Resistant plywood and is also known as Commercial plywood in India, 100% composed core and made using selected hardwood species. It is suitable for indoor use and is an interior grade plywood. Although, the MR plywood is capable of resisting moisture and humidity, it is important to understand that it is not completely waterproof. It is an important ingredient for all types of home or office furniture, thereby adding an edge to the concept of durability.

Technical Specifications	
4 Moisture Content % :	8-15%
4 Density :	>700 - 800 kg/m <sup>3</sup>
4 Bending Strength:	Above 400 kg/cm
4 Screw-Holding Strength (normal to face) :	225 kg
4 Nail-Holding Strength to Face :	75 kg
4 Swelling % after 8 Hours of Immersion in Water :	< 8%



## BOILING WATER RESISTANT (BWR GRADE)

This type of plywood is generally glued using synthetic phenolic resins giving it unique water resistance property. It has very good tensile strength to give supports at heavy loads and very liable in making loads bearing racks and used as doing partition also because of its strength. BWR grade plywood is very strong and can resist warping even when and forced to expose to waterfall long period.

Technical Specifications:	
4 Moisture Content % :	8-15%
4 Density :	>700 - 800 kg/m <sup>3</sup>
4 Bending Strength:	Above 400 kg/cm
4 Screw-Holding Strength (normal to face) :	225 kg
4 Nail-Holding Strength to Face :	75 kg
4 Swelling % after 8 Hours of Immersion in Water :	< 8%

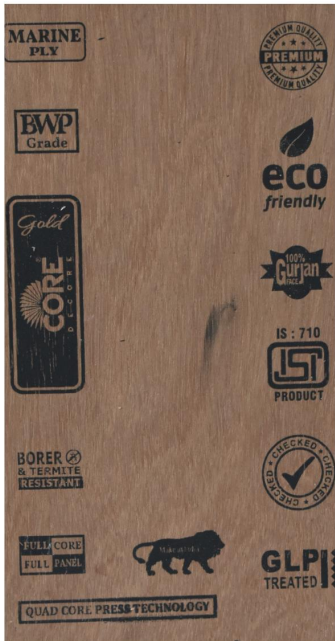


## BOILING WATER PROOF (BWP GRADE)

BWP Grade plywood is the strongest plywood in the market. It is made of core with a face of gurjan imported specially from Burma to give strength duty to the plywood, It derives its strength from the number of plies, undiluted resins and adhesives, and high quality raw materials. BWP plywood is the highest resistance to water and is considered to be completely water proof. It is high resistance to boarare and termite due to the adhesives and additives used.

Technical Specifications:	
4 Moisture Content % :	< 6-10%
4 Density :	>800 - 825 kg/m <sup>3</sup>
4 Bending Strength:	Above 400 kg/cm
4 Screw-Holding Strength (normal to face) :	300 kg
4 Nail-Holding Strength to Face :	175 kg
4 Swelling % after 8 Hours of Immersion in Water :	< 5%

## CORE DECORE PLYWOODS



### \* GOLD GRADE IS 710 BWP\*

CORE DECORE GOLD GRADE MARINE PLYWOOD is of a better quality than boiling water resistant grade, Marine grade plywood is much stronger and used in conditions where the Plywood is sure to get a prolonged exposure to extreme weather conditions such as even being submerged in water the utmost durability, the stunning appearance and the attractive grains take CORE DECORE GOLD GRADE to the peak of strength with its greater dimensional stability, structural ability and resistance to chemicals CORE DECORE makes an ideal substitute to WOOD for heavy use in tropical climates.

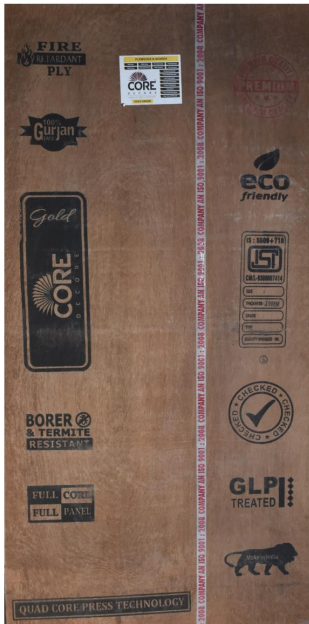
Technical Specifications -:	
Bending Strength above	500kg/cm
Moisture content % :	<6-12%
Density :	>900 - 925 kg/m <sup>3</sup>
Screw - Holding Strength (Normal to face) :	350kg
Nail - Holding Strength to Face :	190kg
Swelling % after 8 Hours of immersion in water :	< 4%



### BWP Grade Resole Resin.

In accordance with IS 303 calibrated Plywood bears uniform thickness all across, which is achieved by calibrating it in modern High - end machines. Uniform thickness all around the Ply makes it ideal panel product for use by mechanized automated furniture manufacturers. The users are acknowledging the use of the Plywood in Furnitures, Beds, kitchen cabinets, wardrobes, sofas, thus boosting the queries of Plywood without any thickness variation.

Technical Specifications:	
4 MR Grade resin	
4 Moisture content	% 8 - 15%
4 Density :	>700-800 kg/m <sup>3</sup>
4 Bending strength:	above 400 Kg/cm
4 Screw holding strength (normal to face) :	225kg
4 Nail - holding strength to face :	75kg
Swelling % after 8 hours of immersion in water :	<8%



### Fire Retardant Plywood

Fire Retardant Plywood meets IS 5509-2000 standards offering resistance to ignition, surface spread of flames and flames penetration by suitable chemical treatment. Fire retardant characteristics are a very important property to prevent propagation of fire at the initial stages.

**Flame penetration:** The time taken for flame penetration shall not be less than 15 minutes for every 6mm thickness.

**Rate of burning:** The time taken to lose weight from 30 percent shall not be less than 20 minutes.

**Flammability:** The time taken for second ignition shall not be less than 30 minutes.

Technical Specifications:	
* Rate of Burning Test.	Not less than 20 min
4 Flame Penetration Test.	Not less than 47.5 min
4 Flammability Test.	Not less than 30 min
4 Moisture Content	5-15%
4 Adhesion of Piles.	Minimum Pass Standard
4 Resistance To Water.	Minimum Pass Standard



### PLATINUM GRADE MATT PLYWOOD

The PLATINUM GRADE MATT PLYWOOD is well developed incorporating waterproof glue and 8x4 Full Piles Which with stands (FULL CORE FULL PANEL) ZERO GAP, 4 Times Fully Calibrated has a great texture and smooth finish, this appears as a hardwood flexible plywood that is Higher in weight and durable which makes it a worthy material for creating outdoor furniture. The incorporation of phenol resin or waterproof adhesive assist in maintaining the wooden layers free from any kind of damage and the time of moisture increasing humidity or boiling temperature.

CORE DECORE PLATINUM GRADE MATT Plywood does not get affected by either alkaline solution or moderate acids under normal temperature. Owing to the water retention properties as well as less dampness this Plywood has the ability to last longer and find utilisation in both commercial and residential sectors.

Technical Specifications -:	
Bending Strength	above 550kg/cm
Moisture content %	: < 6-13%
Density :	>900 - 950 kg/m3
Screw - Holding Strength (Normal to face) :	4000kg
Mail - Holding Strength to Face :	200kg
Swelling % after 8 Hours of immersion in water :	< 3%



### BIRCH PLYWOOD:

Birch plywood is a high-quality panel product with a core unlike traditional plywood. The inner piles are 1.1 to 1.5 MM thick solid birch veneer, cross - banded and laminated with interior/exterior grade adhesive. Core Decore Birch multi-ply construction offers aesthetically pleasing faces and edges. Panels are tremendously stable, strong, and have exceptional machining properties.

Technical Specifications	
Veneer cut -	Rotary cut (R/C), WPF
Veneer Thickness -	1.0mm - 1.5mm
Surface sanding -	80-120grit finish
Glue Type -	Exterior, Phenolic & Urea-Formaldehyde / EPA (Carb)



### Flexi Plywood

Flexi ply is a form of plywood which is extremely flexible. It doesn't show any resistance to bending or rolling and can be twisted or curved into any shape without chipping, cracking, or peeling, which is not possible with regular forms of plywood as they tend to break upon bending or twisting. Flexi ply with maximum flexibility can be easily flexed or bent by hand and the bending radius will vary according to the thickness of the sheet. Flexi ply's unique trait is it lends itself to almost any curved contour without losing out on its strength and stability.

To understand it better, let's get a bit technical. In regular plywood, the grains of each layer are pressed in a perpendicular direction in order to promote its rigidity. Whereas in Flexi ply all the grains run in the same direction giving the plywood is the bendy property and unmatched flexibility – all without losing its structural integrity.



### Shuttering plywood

Shuttering Plywood (IS: 4990) offers a high quality Film Face Densified Shuttering Plywood. It is a multifunctional product, which can be used in construction industry and structure. Core decor Film Face Densified Shuttering Plywood compression is about 60% more as compared to any ordinary Film Faced Shuttering Plywood.

Extra compression leads to a better nailing and screw holding properties. Its load-bearing capacity is also enhanced due to extra compression. It is manufactured by selecting quality veneers impregnation of resin in veneers is more than 30% of the weight of veneers.

The Surface of Shuttering Plywood is over laid with 180 GSM phenol impregnated Film these are available in thickness of 12mm and weight in the range of 30 kg, 34 kg.

Technical Specifications	
Density	0.96 g/ cm <sup>3</sup>
Tensile Strength	0.96 g/ cm <sup>3</sup>
Along the Grain	85 N/ mm <sup>2</sup>
Across the Grain	49 N/ mm <sup>2</sup>
Cross Breaking Strength	0.96 g/ cm <sup>3</sup>
Glue Shear Strength	-Dry >135 N/ mm <sup>2</sup>
Glue Shear Strength	>100 N/ mm <sup>2</sup>
Screw Holding Strength	>275kg
Along the Grain	>7500 N/ mm <sup>2</sup>
Across the Grain	>4000 N/ mm <sup>2</sup>

### PRELAMINATED PLYWOOD:

Lamination can be defined as a process in which a number of sheets are heated - pressed and glued together to form a permanent bond. In the case of plywood, slices of wood (Veneers) are placed over one another and bonded together using hot- Press machines and adhesives. Plywood is the sheet material manufactured from thin layers or "Piles of" of wood veneer that are glued together with adjacent layers bind together with resin using the cross- gaining method. This provides more stability and strength consistently across all direction compare to chipboard and MDF. It also reduces the tendency of wood to split when nailed. In at the edges and reduces expansion and shrinkage.



PANEL SIZE	
STAND THICKNESS IN MM	5, 8, 12
2449×1220mm(8'×4')	17, 18