

AN ISO 9001:2008 CERTIFIED COMPANY



simply Sarvottam



Plywood ...

deep-rooted in our lives

History proves that wood has always been an inherent part of all civilizations around the globe. The use of wood for boats, chariots and hut-roofs finds its genesis dating back to more than 2000 years.

Eventually with the advent of advancement in mechanical and manual techniques, raw wood was used in different ways in different eras and finally fine - tuned into Plywood a durable option for making wooden articles to use the timber to its fullest.

The threat of global warming has compelled to concentrate on conservation of forests around the world.

Today, different forms of Plywood are available to fulfill various human needs. Not only perfectly- finished Plywood stays for long, it also gives a royal touch to wherever it is used. But to bring out the desired quality of Plywood, intricate detailing is required. And a plywood company, which possesses all the features for producing a high grade Plywood, is, definitely Narotam Plywood.. a company with strong ideologies.

**UNIQUE
STRENGTH,
UNIQUE SECURITY**

Narotam...

where 'Magical Mechanism' works !

It's rightly said 'Hard work creates Magic' This has proved true for Narotam Plywood and that too within a very short span of time.

The vast variety of Plywood manufactured through most advanced technologies of International Standards in the highly modern plant, are simply impeccable in durability, strength and anti- bacterial properties. Also, the plywood manufactured by Narotam is absolutely environment-friendly. Due to these incredible features, Narotam Plywood has always been the consumer's prime choice.

Narotam Plywood has always believed in the 'Mechanism of Team-work'; it has always followed the 'Mechanism of Dedicational endeavors' and it has always comprehended the 'Mechanism of Quality Consciousness'

These three 'Magical Mechanisms' have always been the fundamental pillars of Narotam Plywood, which have taken the company to new heights of success.





PLYWOOD

Elegant Look

Many more milestones to create.....

A contemporary blend of efficient administrative team, proficient production work force, sophisticated technical support and a voluminous distribution network has given a distinct recognition to Narotam Plywood. The company has always been on an up rise, since it's inception and would always be in the future too. There are many more milestones to be created, many more horizons to achieve.

Perfect Plywood

for all purposes.....

Narotam Plywood presents a wide array of Plywood, each having own distinctive quality...

India's only Plywood that promises you completely safe and reliable plywood forever.

What defines true character? It is the singular combination of grit & promise, to abide by & to stand by principles when questioned. Narotam Plywood is that & much more.



- Narotam Club Plywood
- Narotam Marine Plywood
- Narotam BWR Grade Plywood
- Narotam MR Grade Plywood
- Narotam Flush Door
- Narotam Block Board

Narotam Club Plywood :

We club with you for life.

Incredible Features

An absolutely astonishing category of Plywood, the Narotam Club Plywood gives you lifetime guarantee of strength dimensional stability and durability. Crafted out entirely from Gurjan timber, both veneer and finished plywood are treated with preservatives as per IS: 5539-1963

S. No.	Test Prescribed	Minimum Value for Conformity	Observed Value
1.	Moisture Content Test	Not less than 5% Not more than 15%	8.5%
2.	Glue Shear Strength (In dry state)	Avg. F/L(N) 1324 & Above	Avg. F?L (N) W?F (%) 1580 65%
3.	Glue Shear Strength after 72 hours boiling)	981 & above	1285 56%
4.	Tensile Strength Along with grain Across the grain	54 N/sq.mm 34 N/sq.mm	83.3 N/sq.mm 52.5 N/sq.mm
5.	Static Bending Strength Modulus of Rupture i) Along the grain i) Across the grain Modulus of Elasticity i) Along the grain ii) Across the grain	49 N/sq.mm 29 N/sq.mm 7355 N/sq.mm 3923 N/sq.mm	66 N/sq.mm 8720 N/sq.mm 4632 N/sq.mm

Impeccable Utility

This ply is suitable for external use as it has a unique 'Weather Shield' due to which it can withstand any type of extreme climate.



Narotam Marine Plywood :

A Daring Ply

Incredible Features

Marine Plywood is an exterior grade Plywood having the potential to bear alternate wetting and drying, when exposed to severe exterior conditions. It is bonded with Phenol Formaldehyde Synthetic Resin adhesive, which makes it long lasting even in water- prone areas. It is BWP Grade Plywood.

Sl. No.	Test Prescribed in IS:710-1976	Minimum Value for Conformity	Observed Value
1.	Moisture Content Test	Not less than 5% Not more than 15%	9%
2.	Glue Shear Strength (In dry state)	Min. Ind 1100 N Avg. 1350 N	1350 N 1550 N
3.	Adhesion of Piles	Minimum pass standard	Excellent
4.	Glue Shear Strength (after 72 hours boiling)	Min 800 N Avg. 1000 N	1150 N 1250 N
5.	Tensile Strength Along the grain Across the grain Sum of Tensile Strength	4200 N/sq.mm 2500 N/sq.mm 8450 N/sq.mm	5500 N/sq.mm 3900 N/sq.mm
6.	Static Bending Strength Modulus of Rupture i) Along the grain ii) Across the grain Modulus of Elasticity i) Along the grain ii) Across the grain	49 N/sq.mm 29 N/sq.mm 8000 N/sq.mm 4000 N/sq.mm	65 N/sq.mmm 40 N/sq.mm 8305 N/sq.mm 4170 N/sq.mm



Impeccable Utility

Marine Plywood is best suited for the manufacture of marine crafts, boats, riverine equipments, tanks of liquid chemicals and all other extreme temperature applications.

BWP GRADE



BWR GRADE

Narotam BWR Grade Plywood:

Strength Unlimited

Incredible Features

This ply produced by Narotam Plywood, is made from selected hardwood timber. Use of adequate preservatives, strong glue and choices veneers; make the ply extremely durable and non-sensitive to harsh climates. The properties of 'Boiling Water Resistance', 'Dry Heat Resistance' and 'Insect Resistance' makes the ply even more usable.

SL No.	Test Prescribed in IS:303-1993	Minimum Value for Conformity	Observed Value
1.	Glue Shear Strength (In dry state)	Avg. 1350 N Min. Ind 1100 N	1485 N 3220 N
2.	Glue Shear Strength (in wet state)	Min. Ind 1100 N Avg. 1000 N Min Ind. 800 N	3220 N 1215 N 980 N
3.	Resistance to microorganisms	Avg. 1000 N Min. Ind 800 N	1180 N 1020 N
4.	Moisture Content Test	Not less than 5% Not more than 15%	7.5%

Impeccable Utility

BWR Grade Plywood is functional in both exteriors and semi exteriors as furniture partitions, Paneling, Cavity Flooring, Paneled Doors and Hoardings etc.

Narotam MR Grade Plywood :

A Tasteful Touch

Incredible Features

This variety is moisture resistant interior grade plywood, exclusively for all kinds of interior works. The sheets are tightly bonded with high quality synthetic MUF (melamine Urea Formaldehyde) Resin, which gives it a long life. As it is used for both home and office interiors, it gives an elegant touch to the decor, setting it class apart !

Sl. No.	Test Prescribed in IS:303-1993	Minimum Value for Conformity	Observed Value
1.	Glue Shear Strength (In dry state)	Avg. 1000 N Min. Ind. 800 N	1180 N 920 N
2.	Glue Shear Strength (In wet state)	Avg. 800 N Min. Ind. 650 N	1215 N 740 N
3.	Mycological test	Avg. 800 N Min. Ind. 650 N	890 N 708 N
4.	Moisture Content	Not less than 5% Not more than 15%	10%

Impeccable Utility

Along with the interior woodwork, MR Grade Plywood can also be used for the manufacture of furniture, partitions and paneling.

MR GRADE



Narotam Flush Door :

Style & Stability



Incredible Features

Extremely durable, Flush Doors of Narotam are the most preferred ones for making door shutters for homes and offices. This door is perfect in dimensions and also does not suffer de-lamination when exposed to changeable atmospheric conditions. This door is made from single species of hardwood timber and the battens are individually treated. It is available in both commercial and decorative grades.

Sl. No.	Test Prescribed in IS: 2202 (Part-I), 1999	Minimum value for conformity	Observed value
1.	Dimension & squareness test as per IS:4020 (Part-2), 1998	Height & width shall be measured within an accuracy of 1.0 mm	Within specified limit
2.	General flatness test as per IS: 4020 (Part-3), 1998	Squareness shall be measured to an accuracy of 1.0 mm	Within specified limit
3.	Local planeness test as per IS:4020 (Part-4), 1998	Planeness will be measured to an accuracy of 0.1 mm	Within specified limit
4.	Impact indentation test as per IS:4020 (Part-5), 1998	Indentation will be measured to an accuracy of 0.1 mm	Within specified limit
5.	Flexure test as per IS:4020 (Part-6), 1998	The deflections will be measured to an accuracy of 0.1mm	Within specified limit
6.	Edge loading test as per IS:4020 (Part-7), 1998	The deflections shall be measured to an accuracy of 0.1mm	Within specified limit
7.	Shock resistance test as per IS: 4020 (Part-8), 1998	4 to 5 shocks/min	Within specified limit
8.	Buckling test as per IS: 4020 (Part-9) 1998	Deformation is measured to an accuracy of 1 mm, 5 min. after application of the load and 15 min after unloading	Within specified limit
9.	Slamming test as per IS:4020 (Part-10) 1998	50 times on the nail at the rate of 4-5 drops/min	Found O.K.
10.	Misuse test as per IS:4020 (Part-11) 1998	It should pass after applying 200 N force to the handle at right angle to the plane of the frame.	Satisfactory
11.	Varying humidity test as per IS:4020 (Part-12), 1998	Deviation shall be measured to an accuracy of 1.0 mm	Within specified limit
12.	End immersion test as per IS:4020 (part-13), 1998	These shall be no de-lamination	No de-lamination found Excellent
13.	Knife test as per IS:4020 (Part-14) 1998	Minimum pass standard	No de-lamination found
14.	Glue adhesion test as per IS:4020 (Part-15) 1998	There shall be no de-lamination	Within specified limit
15.	Screw withdraw test as per IS:4020 (Part-16), 1998	Applied load shall be 2.0 mm per min for complete withdrawal of the screw within specified limit	

Impeccable Utility

These Flush Doors are completely safe and 'Burglar Proof' too. Not only this they are stylish, adding glamour to your interior.

FLUSH DOOR

Narotam Block Board :

A Sincere Board

Incredible Features

Narotam Block Board is lumber core board made from blocks of woods as per the specification IS : 1659, 1990. It is equally useable in interiors as in exteriors, as it is devoid of the demerits like expansion, contraction or warp.

Sl.No.	Test prescribed in IS: 1659-1990	Minimum value for conformity	Observed Value
1.	Dimensional changes caused by humidity	There shall be no de-lamination in the extreme range of humidity Dimensional change shall not be more than + 1mm in local planeness	No de-lamination observed. Dimensional change within the specified limit.
2.	Water Resistance	There shall not be any de-lamination after 72 hours boiling	No de-lamination Observed
3.	Adhesion of Piles	Minimum pass standard	Excellent
4.	Mycological Test	No appreciable sign of separation edge	Satisfactory.
5.	Modulus of Rupture	50 N/sq.mm	67 N/sq.mm
6.	Modulus of Elasticity	5000 N/sqmm	6025 N/sq.mm



Incredible Utility

The planks used for making the Block Board are well treated with insecticides and fungicides for long life. This Board is suitable for the manufacture of doors, partitions, cabinets, almirahs etc.

BLOCK BOARD



Work in a Royal Style.....
with Narotam

Envisioning a new sky....

Narotam Plywood has marked its name with golden ink in Plywood Sector due to it's impeccable performance since 1971. It has carved a niche for itself in this highly competitive Plywood arena.

Today Narotam quintessentially stands on a high pedestal of success and envisions rising much more ahead.



NAROTAM ENTP

307, Safal Prelude, Corporate Road, Prahladnagar, Ahmedabad 380015
Mobile : 9099962646 Email : info@narotamply.com