



Northern[®]

PLYWOOD & LAMINATES

AAPKE SAATH
Hamesha
Ke Liye



MAA BABUJI KI BHI
PEHLI PASAND

“ NORTHERN'S MASCOT ”

RECOGNISED & ACCREDITED BY -



ABOUT US

NORTHERN PLYWOOD IS A BRAND FAMOUS FOR IT'S **REAL WOOD LEGACY** WHICH IS DERIVED FROM NATURE. BY ESTABLISHING YAMUNANAGAR'S MOST ADVANCED AND SUPERIOR RESEARCH AND TESTING LAB WE HAVE PROVED THAT WE ARE SERIOUS ABOUT OUR QUALITY COMMITMENTS. OUR THIS COMMITMENT WAS RECOGNISED AND APPRECIATED BY RAILWAY DEVELOPMENT AND STANDARD ORGANIZATION(RDSO) IN 2014 MAKING US ONE OF THE FEW TO GET THIS QUALITY ACCREDITATION. WE ARE ESTEEMED OEMS OF HINDUSTAN AERONATICS LIMITED, EICHER, AUDI TRANSPORT, INDIAN RAILWAYS, GUJARAT STATE HIGHWAY CORPORATION TO NAME SOME FEW. IN OUR ENDEAVOUR TO BUILD STRONG NATION WE ALSO PROUDLY SERVE INDIAN ARMY.

OUR MASCOT : THE BEAVER

WE ARE PROUD TO INTRODUCE THE MASCOT FOR NORTHERN PLYWOOD & LAMINATES - THE BEAVER. BEAVERS HAVE LONG BEEN RECOGNIZED AS **THE ENGINEERS OF THE FOREST**, CONSTANTLY RESHAPING THEIR SURROUNDINGS. "ONE HAS BUT TO OBSERVE A COMMUNITY OF BEAVERS AT WORK TO UNDERSTAND HIS SAGACITY, BALANCE, CO-OPERATION, COMPETENCE, AND PURPOSE WHICH MAN HAS SUFFERED SINCE HE ROSE UP ON HIS HIND LEGS," WROTE HUMORIST JAMES THURBER IN 1939.

WITH POWERFUL JAWS AND STRONG TEETH, THEY FELL TREES IN ORDER TO BUILD HOMES AND DAMS. THE IDIOMS "BUSY AS A BEAVER" AND "EAGER BEAVER" ARE SYNONYMOUS WITH BEING INDUSTRIOUS AND HARDWORKING. ECOLOGISTS OFTEN REFER TO BEAVERS AS "THE ECOSYSTEM ENGINEERS" BECAUSE OF THEIR ABILITY TO ALTER THE LANDSCAPES. THE SCOPE AND LONG-LASTING CHANGES THAT A BEAVER FAMILY CAN BRING TO AN ECOSYSTEM IS INCREDIBLE. THEY CONTINUE TO GROW THROUGHOUT THEIR LIVES AND ARE KNOWN FOR THEIR INTELLIGENCE AND LEADERSHIP.

DR. DONALD GRIFFIN, THE FATHER OF ANIMAL COGNITION, HAS SAID," WHEN WE THINK OF THE KINDS OF ANIMAL BEHAVIOUR THAT SUGGEST CONSCIOUS THINKING, THE BEAVER COMES NATURALLY TO MIND".

GIVING BACK OUR REGARDS TO NATURE

NORTHERN PLYWOOD IS EVERY BIT A TRUE ESSENCE OF NATURE. THEREFORE, WE ARE ALWAYS KEEN TO CONVEY OUR REGARDS TO THE ENVIRONMENT. HENCE, **FOR EVERY ONE TREE, WE CUT; WE PLANT FIVE MORE.** OUR PLYWOOD IS BONDED WITH THE LOW-EMISSION RESIN WHICH IS IN COMPLIANCE WITH THE GLOBAL STANDARDS. THIS IS HOW WE ARE TRYING TO MAINTAIN AN ECOLOGICAL BALANCE TO LESSEN THE CARBON-FOOTPRINTS CREATED BY US.



CLUBBING BEST PRACTICES

WE DIFFERENTIATE OURSELVES BECAUSE OF OUR INGENUITY. WE PROCURE THE BEST TIMBER AND MANUFACTURE OUR PRODUCTS WITH THE PERCEPTION OF THE MARKET DEMANDS. NORTHERN PLYWOOD PRODUCTS UNDERGO FINE-TUNING OF CHISELED SKILLS WITH RESEARCH AND INNOVATION, HIGH-QUALITY RESINS, AND STATE-OF-THE-ART TECHNOLOGY. WE ARE CONSTANTLY COMMITTED TO THE PURSUIT OF SERVING THE INTERIOR AND EXTERIOR CONSTRUCTION AND DECORATION ARENAS WITH A HIGHER LEVEL OF EXCELLENCE AND A SUPERIOR QUALITY OF CUSTOMER SATISFACTION.

NORTHERN PLYWOOD WANTED TO TOUCH EVERY HOME, EVERY BUILDING, AND EVERY STRUCTURE WITH THE ROYAL FEELINGS OF NATURAL WOOD CUSTOM-MADE TO SUIT EVERY UNIQUE REQUIREMENT.

VISION

“प्रगति, प्रयत्न और ईमानदारी के सहारे माँ बापूजी की पहली पसंद बने रहे”

MISSION

“पर्यावरण और विकास में संतुलन बनाते हुए सर्वश्रेष्ठ और सर्वगुण प्लाईवुड का उत्पाद करना और पुरे नॉर्डन परिवार संग भारत के निर्माण में सहयोग देना”

SPECIALITY OF NORTHERN

- ACOUSTIC PLYWOOD
- ELECTRICAL GRADE
- PALLETS OR CEMENT CONCRETE BLOCKS
- H.BEAM/ I.BEAM
- SCRAF FOLDING PLANKS

NORTHERN SPECIALITY PRODUCTS ARE MANUFACTURED BY SELECTED TROPICAL HARDWOOD VENEERS, THERMOSETTING AMINO PLASTIC RESIN WITH HIGH DENSITY HYDRAULIC HOT PRESS UNDER THE CONTROLLED SCIENTIFIC MANUFACTURING PROCESS. THE MECHANICAL AND PHYSICAL PROPERTY OF THE PRODUCTS IS DESIGNED ACCORDING TO THE END USE OF THE PRODUCT. SUCH LIKE IN NORTHERN ACOUSTIC PLYWOOD MEMBRANE ARE USED WITH BOILING WATER PROOF PROPERTY.

OUR PRODUCT SPECIALTIES

AT NORTHERN PLYWOOD, THE SECRET TO THE SPECIALTY OF OUR PRODUCTS LIES IN THE FACT THAT THEY ARE MANUFACTURED USING TROPICAL HARDWOOD VENEERS. THEY ARE THEN GLUED USING THERMOSETTING AMINOPLASTIC RESIN AND PRESSED WITH THE HIGH-DENSITY HYDRAULIC PRESS UNDER EXPERT SUPERVISION. DIFFERENT PRODUCTS HAVE DIFFERENT DESIGNED MECHANICAL AND PHYSICAL PROPERTIES WHICH ARE DEFINED BASED ON THE END USE OF THE PRODUCTS. FOR E.G., NORTHERN ACOUSTIC PLYWOOD IS FAMOUS FOR THEIR BOILING WATERPROOF PROPERTY AND ARE TYPICALLY USED UNDER EXTREME RESISTANCE APPLICATIONS.

THE ABSOLUTE NORTHERN PLYWOOD RANGE

GENERAL PURPOSE PLYWOOD:
1. COMMERCIAL/BWR GRADE GENERAL
PURPOSE PLYWOOD

MARINE PLYWOOD

SHUTTERING PLYWOOD

COMPREG PLYWOOD

ACOUSTIC PLYWOOD
(SOUND PROOF PLY)

BLOCKBOARD:
1. COMMERCIAL/BWP GRADE PINEWOOD
BLOCK BOARD

FLUSH DOORS:
1. MEMBRANE DOOR ; 2. LAMINATED DOOR
3. TEAK DOOR

CHEQUERED PLYWOOD

FIRE RETARDANT PLYWOOD

TRUCK FLOORING

CALIBRATED PLYWOOD

CONTAINER FLOORING
PLYWOOD

ZERO GAP PINE BOARD

NORTHERN GENERAL PURPOSE PLYWOOD (IS 303: 1989)

NORTHERN GENERAL PURPOSE PLYWOOD IS A SPECIAL GRADE PLYWOOD MANUFACTURED AS PER IS 303. OUR PLYWOOD IS MADE FROM SELECTED VENEERS OF UNMATCHED QUALITY, DESIGNED TO MAINTAIN IT'S ORIGINAL SHAPE FOR YEARS, RESIST ROTTING IN HIGH MOISTURE, AND HAS EXCELLENT DURABILITY.

1. COMMERCIAL/BWR GRADE GENERAL PURPOSE PLYWOOD (IS 303: 1989)

NORTHERN COMMERCIAL GRADE GENERAL PURPOSE PLYWOOD IS MOISTURE RESISTANT PLYWOOD MANUFACTURED WITH DENSE SHEETS OF CORE VENEER AND BONDED UNDER INTENSE HEAT AND PRESSURE USING UREA FORMALDEHYDE. IT IS SPECIALLY AND EXCELLENTLY FORMULATED WITH SUPERIOR QUALITY MELAMINE RESIN UNDER RIGID AND MINUTE LABORATORY CARE AND SUPERVISION. COMMERCIAL GRADE PLYWOOD HAS MORE INTERNAL DENSITY AND IS DEVOID OF ANY WARPING EFFECT, WHICH ENSURES LONGEVITY OF THE PRODUCT.

USP OF COMMERCIAL GRADE GENERAL PURPOSE PLYWOOD

- SPECIAL GRADE PLYWOOD MANUFACTURED AS PER IS 303
- HIGHER TOLERANCE TO MOISTURE AND HUMIDITY
- RESISTANT TO TWISTING, WARPING, TERMITES AND BORERS
- HIGH INTERNAL STRENGTH
- STRONG CORE BONDING THAT CAN WITHSTAND TOUGH HANDLING AND ROUGH ENVIRONMENTS

APPLICATIONS

COMMERCIAL GRADE GENERAL PURPOSE PLYWOOD IS COMMERCIAL GRADE PLYWOOD, WHICH HAS A VERY HIGH INTERNAL STRENGTH. IT IS USED MAINLY IN THE INTERIORS OF HOMES OR OFFICES. IT COVERS THE REQUIREMENTS OF INTERIOR AND EXTERIOR APPLICATION AND IS MAJORLY USED IN PARTITION AND PANELLING, CEILINGS IN PUBLIC ROOMS AND CORRIDORS, OFFICE INTERIORS, HOTEL INTERIORS, RESIDENTIAL INTERIORS, COMMERCIAL ESTABLISHMENTS, ETC.



SIZE (IN FEET)

6×3, 6×4, 7×3, 7×4, 8×3, 8×4

THICKNESS (IN MM)

4, 6, 9, 12, 16, 19, 22, 25, 28

TEST		ISI REQUIREMENTS
1.	GRADE	COMMERCIAL
2.	MOISTURE CONTENT DIMENSION	5% - 15% LENGTH +5MM, WIDTH +2MM thickness 6mm - ±5%, < 6MM - ± 10%
3.	SP. GRAVITY	-
4.	RESISTANCE TO WATER (3 CYCLES OF 8 HR BOILING & 16 HR DRYING AT 65°C)- ADHESION TO PLIESMIN PASS STANDARD	

NORTHERN MARINE & ACOUSTIC PLYWOOD (IS 710: 2010)

NORTHERN MARINE PLYWOOD IS ONE OF THE MOST AUTHENTIC PLYWOODS MANUFACTURED THAT CONFORMS TO IS 710:2010. OUR MARINE PLYWOOD IS BWP GRADE, CERTIFIED BY THE BUREAU OF INDIAN STANDARDS (BIS). IT IS DURABLE, RESISTANT TO BORER AND TERMITE ATTACK, CAN ENDURE EXTREME WEATHER CONDITIONS AND IS DIMENSIONALLY STABLE IN BOTH, EXCESSIVELY WET OR DRY CONDITIONS, THROUGHOUT IT'S LIFE.

APPLICATIONS

- SPECIAL GRADE MARINE PLYWOOD MANUFACTURED AS PER IS 710 GUIDELINES
- MICROBIAL DECAY RESISTANT
- TERMITE AND BORER RESISTANT
- DIMENSIONALLY STABLE
- MARINE GRADE GLUE USED FOR DURABILITY
- POWER BOND TECHNOLOGY USED (CROSS LINKED POLYMER BOND)
- EXCELLENT SCREW AND NAIL HOLDING STRENGTH

USP OF MARINE PLYWOOD

MARINE PLYWOOD IS USED EXTENSIVELY AS BUILDING MATERIAL IN MARINE SETTING, SUCH AS ON SHIPS OR AT DOCKS AS IT PERFORMS WELL IN HUMID CONDITIONS OR ANYWHERE IT WILL RECEIVE PROLONGED EXPOSURE TO MOISTURE. IT IS ALSO USED IN BATHROOM AND KITCHEN WALLS AND SUB-FLOORING.

ACOUSTIC PLYWOOD

ACOUSTIC PLYWOOD IS MANUFACTURED WITH LATEST TECHNOLOGY AND CHEMICALS WHICH MAKE IT HIGHLY SOUND PROOF. IT IS SPECIFIED FOR THE USE IN AUDITORIUM, CLUB, MEETING PLACE, CABINS, HOME THEATRE, PRAYER HALLS. IS IS ALSO SUITABLE FOR AREAS REQUIRING EXTRA MOISTURE PROTECTION, SUCH AS KITCHEN AND BATHROOMS AND OFFERS AN EXCELLENT SURFACES FOR APPLICATION OF FINAL FLOORING FINISH, WEATHER USING CERAMIC TILES OR WOODEN FLOORING.



SIZE (IN FEET)

6×3, 6×4, 7×3, 7×4, 8×3, 8×4

THICKNESS (IN MM)

4, 6, 9, 12, 16, 19, 25 AND 28

TEST	VALUE OF CONFIRMITY	OBSERVED VALUE
1. Moisture Content	5% - 15 %	8%
2. Glue Sheer Strength (Dry State)	Min. Ind. 1100 N Min. Avg 1350 N	1350 N 1500 N
3. Adhesion to plies	Minimum Pass Standard	Excellent
4. Glue Sheer Strength (after 72 hrs. Boiling)	Min. Ind. 800 N Min. Avg 1000 N	1150 N 1250 N

NORTHERN SHUTTERING PLYWOOD (IS 4990: 2011)

NORTHERN SHUTTERING PLYWOOD OFFERS HIGH QUALITY FILM FACE DENSIFIED SHUTTERING PLYWOOD AND PLAIN COATED SHUTTERING PLYWOOD THAT CONFORMS TO IS:4990. THE PREMIUM QUALITY OF SHUTTERING PLY DELIVERS HIGH LEVEL OF PERFORMANCE AS IT CAN WITHSTAND THE CORROSIVE ACTION OF WATER, SUNLIGHT AND CEMENT. A SPECIAL BONDING TREATMENT PROTECTS IT FROM MOISTURE AND MAKES IT RESISTANT TO BORER, TERMITE, WARPING AND ROTTING.

USP OF SHUTTERING PLYWOOD

- SPECIAL GRADE SHUTTERING PLYWOOD MANUFACTURED AS PER IS 4990 SPECIFICATIONS
- COST EFFECTIVE AS IT CAN BE UTILISED REPEATEDLY
- 100% BOILING WATER PROOF
- HIGHER GSM PHENOLIC FILM
- UNIFORM AND MIRROR SURFACE SMOOTH FINISH
- SCORES OVER STEEL SHEET IN EXTREME HOT AND COLD CLIMATE
- EXCELLENT NAIL AND SCREW HOLDING CAPACITY

APPLICATIONS

NORTHERN SHUTTERING PLYWOOD IS PREFERRED BY MANY COMPANIES FOR THEIR PRESTIGIOUS PROJECTS IN INDIA. BEING A MULTI-FUNCTIONAL PRODUCT, IT IS USED FOR CONSTRUCTING HEAVY INDUSTRY STRUCTURES LIKE BUILDINGS, BRIDGES, FLYOVERS, METRO PROJECTS, SHIP BUILDING AND WATER TANKS.

NORTHERN GENERAL COMPREG PLYWOOD (IS 3513: 1989)

IS IT A PREMIUM GRADE PLYWOOD. AN EXTREMELY HIGH PRESSURE HYDRAULIC HOT PRESSES ARE USED TO PRODUCE THIS PRODUCT. COMPRESSION HEATING COOLING PROCESS IS USED FOR THE PRODUCTION WHICH HAS GOOD MECHANICAL PROPERTIES WITH REMARKABLE RESISTANCE TO CORROSION AGENTS AND IS TERMITE PROOF. THERE ARE TWO SUB-CATEGORIES FOR COMPREG PLYWOOD:

- **COMPREG FOR ELECTRICAL GRADE**
- **COMPREG FOR CHEMICAL GRADE**

SIZE (IN FEET)

1840 X 1220, 2440 X 1220, 2745 X 1525, 3050 X 1525, 3200 X 1675

THICKNESS (IN MM)

12, 19, 25

WEIGHT (IN KG)

30, 34, 38, 42, 45, 50

DIMENSIONS		ISI REQUIREMENTS	
1.	Length	2440+6	0
2.	Width	1220+3	0
3.	Thickness	12mm ± 5%	
4.	Squareness	2 mm/1000 mm	



NORTHERN BLOCKBOARD IS 1659: 2004

NORTHERN BLOCKBOARDS ARE ONE OF THE FINEST COMMERCIAL AND BWP GRADE BLOCKBOARDS MANUFACTURED IN ACCORDANCE WITH IS 1659. OUR SUPERIOR QUALITY BOARDS ARE DIMENSIONALLY STABLE, HIGH ON STRENGTH, HAVE EXCELLENT BEND RESISTANCE, STRONG SCREW HOLDING CAPACITY AND ARE RESISTANT TO TERMITE AND BORE ATTACKS.

1. COMMERCIAL/BWP GRADE PINEWOOD BLOCK BOARD

COMMERCIAL GRADE BLOCKBOARD IS MOISTURE RESISTANT AND IS MADE FROM SELECTED FRAMES AND BATTONS AND ARE CHEMICALLY TREATED WITH MUF RESIN, WHICH IS POWDER PROOF, TERMITE AND MOISTURE RESISTANT.

USP OF MR GRADE BLOCKBOARD

- SPECIAL GRADE BLOCK BOARD MANUFACTURED AS PER IS 1659
- MOISTURE RESISTANT
- STATIC BENDING STRENGTH
- KILN SEASONED PLANKS AND FRAMES USED
- HIGH DENSITY
- EXCELLENT SCREW/ NAIL HOLDING STRENGTH

APPLICATIONS

COMMERCIAL/BWP GRADE (MOISTURE RESISTANT) BLOCKBOARDS HAS A VERY HIGH INTERNAL STRENGTH AND IS USED MAINLY IN THE INTERIORS OF A HOME OR OFFICE. IT IS SUITABLE FOR MAKING FURNITURE LIKE KITCHEN ROOFTOPS, WALL MOUNTED CABINETS, FILE CABINETS, DOORS, CHAIRS AND TABLES. MOISTURE RESISTANT GRADE OF BLOCKBOARD HAS THE HIGHEST INTERNAL DENSITY AMONG ALL THE AVAILABLE GRADES OF BLOCKBOARD. THAT MAKES IT ROBUST AND ALSO RESISTANT TO WARPING OR FOLDING. MELAMINE UREA FORMALDEHYDE ADHESIVE IS USED FOR BINDING THE DIFFERENT LAYERS OF CORE VENEERS AND WOODEN FRAME. IT CONFORMS TO IS 1659 SPECIFICATIONS.



SIZE (IN FEET)

7x4, 8X4

THICKNESS (IN MM)

16, 19

TEST		ISI REQUIREMENTS	
1.	Moisture Content (%)	5-15%	
2.	Modulus of Elasticity (N/2mm)	5000- 5500	
3.	Modulus of Rapture (N/2mm)	50-55	
4.	Water Absorption (%)	<5	
5.	Screw Holding Strength (Kgs)	80	
6.	Nail Holding Strength(Kgs)	50	
7.	Squareness Test (%)	0.2	
8.	Edge Straightness Test (%)	0.2- 0.6	

NORTHERN WOODEN FLUSH DOOR SHUTTERS (SOLID CORE TYPE) IS 2202: PART 1: 1999

NORTHERN WOODEN PLYWOOD SHUTTERS ARE MADE-TO-ORDER DOORS, MANUFACTURED USING SEASONED TIMBER, GUARANTEED TO BE EXCEPTIONALLY DURABLE AND DIMENSIONALLY STABLE. THE WOODEN SHUTTERS ARE CHEMICALLY TREATED, BONDED WITH PHENOL FORMALDEHYDE RESIN AND HAVE EXCELLENT TOOLING AND FINISHING PROPERTIES. BWP GRADE WOODEN PLYWOOD SHUTTERS OFFER DIMENSIONAL ACCURACY AND STABILITY IN VARYING HUMIDITY WITH HIGH SCREW HOLDING CAPACITY, GUARANTEE AGAINST WARPING, BULGING AND SHRINKAGE. SUITED FOR BOTH, CLASSIC AND MODERN INTERIORS, NORTHERN WOODEN PLYWOOD SHUTTERS CAN BE CUSTOMISED AS PER SPECIFICATIONS OF THE CLIENT.

USP OF WOODEN FLUSH DOOR SHUTTERS

- SUPERIOR LOOKS
- HIGHLY DURABLE AND DIMENSIONALLY STABLE
- WATERPROOF AND WEATHER RESISTANT
- TERMITE RESISTANT
- EXCELLENT FINISH

APPLICATIONS

NORTHERN WOODEN PLYWOOD SHUTTERS ARE USED AS DOORS FOR EXTERIOR AND INTERIORS OF BUILDINGS.

SUB-CATEGORIES

- MEMBRANE
- FLUSH
- TEAK
- LAMINATED
- FR GRADE

SIZE (IN FEET)

THICKNESS (IN MM)

* THESE CAN ALSO BE CUSTOMISED AS PER CLIENT'S REQUIREMENTS.

25, 30, 35, 38, 40, 42, 45

TEST	ISI REQUIREMENTS
1. Dimension	Length, width - + 5mm Thickness - + 1mm
2. Squareness	Deviation not more than 1mm on a length of 500mm
3. General flatness	Twist, cupping, warping not to exceed 6mm
4. Local planeness	Depth of deviation at any point to be less than 0.5mm
5. Impact indentation test	Depth of indentation not to exceed 0.2mm
6. Flexure test	The deflection at the maximum load shall not be more than 1/30 of length and 1/15 of width and the residual deflection should not be more than 1/10



NORTHERN CHEQUERED PLYWOOD

NORTHERN CHEQUERED PLYWOOD IS SUPERIOR AND HIGH-DENSITY PLYWOOD THAT COMBINES ENHANCED MECHANICAL PROPERTIES WITH EXTREME WATER PROOF QUALITY BESIDES BEING RESISTANT TO CORROSIVE AGENTS. THE CHEQUERED PATTERN IS DUE TO THE COMBINATION OF MESH AND HIGH PRESSURE THAT MAKES THE BOARD ANTI SLIP AND IDEAL FOR HEAVY INDUSTRY USAGE. OUR TRADEMARK CHEQUERED PLYWOOD IS CHEMICALLY TREATED TO PREVENT ADVERSE EFFECTS OF HARSH CLIMATIC CONDITIONS AND ENHANCE ITS RESISTANCE TO HEAT, BOILING WATER, CHEMICALS AND MOISTURE.

USP OF CHEQUERED PLYWOOD

- EXCELLENT STRENGTH
- IMMACULATE FINISH
- IMPROVED DIMENSIONAL STABILITY
- ANTI-KID SURFACE
- HIGH TENSILE STRENGTH
- DURABLE

APPLICATIONS

NORTHERN CHEQUERED PLYWOOD IS A MULTI-FUNCTIONAL PRODUCT, WHICH CAN BE USED IN PANELLING, FLOORING AND FOR DECORATIVE AND INDUSTRIAL PURPOSES, ETC.

THE CHEQUERED SURFACE PROVIDES ANTI-SLIPPAGE AND HIGH STRENGTH, THUS FINDS APPLICATION IN FLOORING OF HEAVY VEHICLES AND LARGE CONTAINERS.



SIZE (IN FEET)

5.5 X 2.5 TO 10.5 X 5.5

THICKNESS (IN MM)

5.5 X 2.5 TO 10.5 X 5.5

DIMENSIONS		ISI REQUIREMENTS
1.	Length	2440+6 -0
2.	Width	1220+3 -0
3.	Thickness	12mm
4.	Squareness	2mm/1000mm
5.	Edge Straightness	2mm/1000mm
6.	Workmanship & finish	Clause
7.	Physical Properties	
	Density	0.84

FIRE RETARDANT PLYWOOD (IS 5509: 2010)

NORTHERN FIRE RETARDANT PLYWOOD IS SPECIAL GRADE PLYWOOD THAT IS MANUFACTURED FROM CAREFULLY SELECTED HARDWOOD PANELS, WHICH UNDERGO VACUUM-CUM-PRESSURE. THE PLYWOOD IS IMPREGNATED WITH A CHEMICAL COMPOSITION, PROVEN TO RESIST IMMEDIATE IGNITION, SPREADING OF FLAMES ON THE SURFACE AND FLAME PENETRATION. THE REVOLUTIONARY PRODUCT FORMS A PROTECTIVE FIRE SHIELD WHEN IT COMES IN CONTACT WITH FIRE. NORTHERN FIRE RETARDANT PLYWOOD MERGES FIRE RETARDANT AND NON-LEACHABLE PROPERTIES WITH COMMERCIAL PLY, WHICH ALSO RESISTS INSECTS AND PIN-HOLE BORERS.

USP OF FIRE RETARDANT PLYWOOD

- SPECIAL GRADE PLYWOOD MANUFACTURED AS PER IS 5509:2010 SPECIFICATIONS
- BOILING WATER PROOF
- TERMITE AND INSECT RESISTANT
- IGNITION AND FLAME PENETRATION PROOF
- EASY MAINTENANCE

APPLICATIONS

NORTHERN FIRE RETARDANT PLYWOOD IS ONE OF THE MOST WIDELY USED WOOD PRODUCTS IN CONSTRUCTION INDUSTRY. BECAUSE OF ITS FIRE RESISTANCE PROPERTIES, RESISTANCE TO SPLITTING, CRACKING, AND OTHER WEAR AND TEAR, IT IS THE PERFECT CHOICE TO SAFEGUARD YOUR VALUABLES AND A GREAT INVESTMENT FOR ALL BUILDING PROJECTS.

SIZE (IN FEET)

1840 X 1220, 2440 X 1220, 2745 X 1525, 3050 X 1525, 3200 X 1675
(THESE CAN ALSO BE CUSTOMISED AS PER CLIENT'S REQUIREMENTS.)

THICKNESS (IN MM)

3, 4, 5, 6, 8, 9, 12, 15,19, 22, 25

DIMENSIONS		ISI REQUIREMENTS
1.	Length	2440+6 -0
2.	Width	1220+3 -0



NORTHERN CALIBRATED PLYWOOD (IS 303: 1989)

NORTHERN CALIBRATED PLYWOOD IS ONE OF THE FINEST PLYWOODS WITH UNIFORM THICKNESS, WHICH IS ACHIEVED BY CALIBRATING THE VENEERS IN MODERN, HIGH-END MACHINES. THE PREMIUM PLYWOOD IS MADE WITH INNOVATIVE TECHNIQUES AND ADVANCED EQUIPMENTS THAT RESULT IN QUALITY OF THE PRODUCT, LONGER SERVICE LIFE, RESISTANCE TO MOISTURE AND CHEMICALS.

USP OF CALIBRATED PLYWOOD

- SPECIAL GRADE PLYWOOD THAT CONFORMS TO IS 303:1989 STANDARDS
- STRONG SCREW HOLDING CAPACITY
- MOISTURE PROOF
- ENVIRONMENTAL FRIENDLY
- WEAR RESISTANT
- ANTI-CRACKING
- ANTI ACID AND ALKALINE RESISTANT

APPLICATIONS

NORTHERN CALIBRATED PLYWOOD IS USED IN RESIDENTIAL BUILDINGS FOR MAKING OF KITCHEN CABINETS, CUPBOARDS, EXPENSIVE FURNITURE. IT IS ALSO USED IN COMMERCIAL COMPLEXES FOR BUILDING PARTITIONS, PANELLING, AND IN EXTERIORS. IT CAN ALSO BE USED FOR SHUTTERING WORK AS IT'S EQUAL THICKNESS MAKES SHUTTER WORK EASY.



SIZE (IN FEET)

6X3, 7X3, 8X3, 6X4, 7X4, 8X4

THICKNESS (IN MM)

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

TEST	ISI REQUIREMENTS
1. Grade	BWR, MR
2. Moisture Content	5-15%
3. Density	0.65 TO 0.70 GM/3 CM
4. Resistance to Water (3 cycles of hr Boiling & 16 hr Drying at 650C)- adhesion to plies	Min Pass
5. Resistance to Micro Organism Adhesion to plies	Min Pass
A. Modulus of Elasticity	
- Along The Grain	Avg. Min 5000 N/2 mm
- Across The Grain	Avg. Min 2500 N/2 mm

NORTHERN TRUCK/CONTAINER FLOORING PLYWOOD

NORTHERN TRUCK/CONTAINER FLOORING PLYWOOD IS CERTIFIED PLYWOOD PRODUCED FROM SELECTED HARDWOOD VENEERS TO WITHSTAND HIGH STRESS AND DYNAMIC LOADING IMPOSED DURING CARGO OPERATIONS. THIS STRINGENT PRODUCT, AS REQUIRED BY THE INDUSTRY, IS MADE FROM THIN SHEETS OF WOOD VENEERS, WHICH ARE STACKED AND BONDED TOGETHER UNDER HEAT AND PRESSURE WITH STRONG ADHESIVES TO FORM AN EXTREMELY DURABLE PRODUCT.

USP OF TRUCK AND CONTAINER FLOORING PLYWOOD

- EXCELLENT STRENGTH
- HIGH TENSILE STRENGTH
- HIGH RESISTANCE TO SHEARING FORCES
- HIGH RESISTANCE TO CRACKING, SHRINKAGE, TWISTING AND WARPING
- LONG LASTING PROPERTIES

APPLICATIONS

NORTHERN TRUCK/CONTAINER FLOORING PLYWOOD IS EXTENSIVELY USED IN FLOORS OF CARGO CONTAINERS, HEAVY LOAD CARRYING VEHICLES AND IN OTHER INDUSTRIAL SET UPS DUE TO ITS HIGHLY DURABLE NATURE.

SIZE (IN FEET)

6X3, 7X3, 8X3, 6X4, 7X4, 8X4

THICKNESS (IN MM)

19, 25 , 28

DIMENSIONS	BIS REQUIREMENTS
1. Length	2440mm
2. Width	1220mm
3. Squareness	2%
4. Edge Straightness	2%
5. Thickness	28mm
6. Density	0.65 to 1.0 gm/cm
7. Plies	19
8. Moisture contents	Not to Exceed 14%
9. Physical properties	
a) Breaking Load	690kg.





DEALERS NETWORK

JAMMU & KASHMIR : SRI NAGAR

HIMACHAL PRADESH : HAMIRPUR, KANGRA

CHANDIGARH : CHANDIGARH

HARYANA : YAMUNA NAGAR, HISAR, GURGAON, NARWANA

PUNJAB : LUDHIANA, AMRITSAR, BHATINDA, JALANDHAR

RAJASTHAN : JAIPUR, JODHPUR, GANGA NAGAR

UTTRAKHAND : DEHRADUN

UTTAR PRADESH : AGRA, MEERUT, KANPUR, ALIGARH,
LUCKNOW, VARANASI

DELHI : DELHI

GUJARAT : SURAT

MADHYA PRADESH : INDORE, BHOPAL, GWALIOR, JABALPUR

CHATTISGARH : RAIPUR

BIHAR : PATNA

JHARKHAND : DEOGHAR

MAHARASHTRA : MUMBAI,
PUNE, KOLAPUR, AMRAWATI

KARNATAKA : BANGALORE

TELANGANA : HYDERABAD

TAMIL NADU : CHENNAI

WEST BENGAL : SILIGURI

NEPAL



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