PLY BOARD DOOR

WHICH IS LIKED BY EVERYONE!

ORNATO®

PANELS

PLY | BOARD | DOOR

Vishwas majbuti ka...

BE ACQUAINTED WITH US

Today, Ornato Panels is the brand name that plays well on the mouths of every other consumer in the market. We feel a great deal of pride and pleasure to let you know that with our consistent efforts, creative zeal and highly competent leadership, Ornato is a name to reckon with the trust it brings along with its wide range of products is un paralleled and thus ensures high quality and well-thought process behind each.

Ornato Panels is the brand who has their full range of Panel products. The high quality and superior designed products will not only steal your heart but through their satisfying performances they will become part of your life for a long stretch of time. A unique joy of perfection and a way to satisfy all your expectations are the integral parts of the Ornato product range.

VISION

We work with the firm determination to serve the nation with the manufacturing and supplying high quality plywood products that not only suit to the spirit of modernity but at the same time remain strictly eco-friendly.
Through our consistent efforts we look forward to getting a major market share of the plywood industry at home and abroad.

MISSION

We work to support our National integration and always aspire to contribute to the well being of the society that surrounds us. We, with our endeavors, dream to sustain the ecology surrounding us and contribute to the social welfare of the society by setting an ideal corporate house that not just remains interested in selfish motives of earning profits but through philanthropic contributions takes lead in constituting a happy society of our nation.

OUR WORKING STRATEGIES

Everything works around basics. With a forward looking approach to almost everything, Ornato is here to change the statistics of single dimensional thoughts and bring an all-inclusive attitude to delivering world-class products. We bring you closer to your expectations and let you take off from there, the way you prefer. From understanding your requirements to dedicating our expertise in getting it fulfilled, we have come a long way from being a pioneer to leading from the fore front. We belive trust comes when what you say and what you do go in tandem. Committed to remarkable work and delivering unbound excellence, success for Ornato is way of performing.

OUR MANUFACTURING UNIT

Our manufacturing Unit, based in Gandhinagar, the lush green capital of Gujarat state, is equipped with the state of the art machinery which assures the most accomplish and standardized finish to the products which continue to satisfy your demands. We are constantly striving to expand the reach of our products to the remotest corners of India.

With extensive efforts to provide high quality products at very convincing price, the leading Architects, Carpenters and Furniture Manufacturers prefer our brands since they suit their creative needs and help them earn the desired finish and ambient looks.

ABOUT OUR PRODUCT

With the state-of-the-art equipments and testing facilities, our products are manufactured under controlled conditions which strictly adhere to the safety measures.

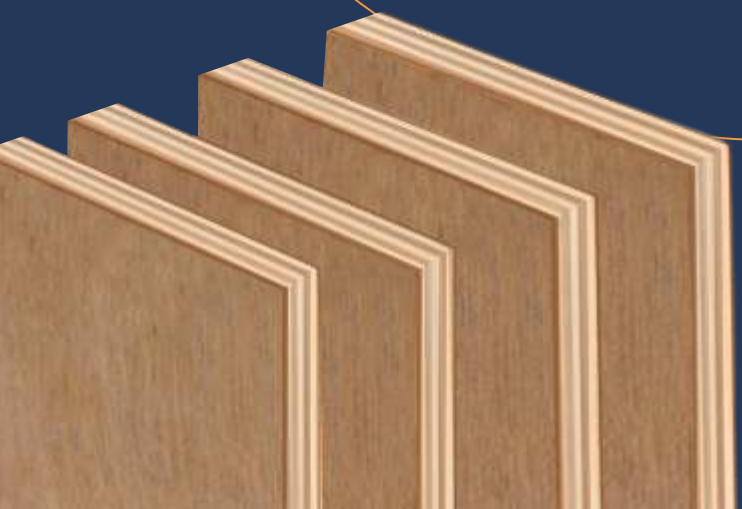
Ornato Panels product testing laboratory equipments are NABL certified and the company holds approval from BIS Government of India for ISI marking on products with license no. CM/L : IS : 2202 - 7200093612, IS : 1659 - 7200092905, IS : 303 - 7200093006

We also hold Quality Management System certification ISO 9001:2015 CERTIFICATE NO. QACS-A-16.01.006.

IS : 8944 special chemical treatment induced during the manufacturing process makes the product soundly resistant to termite, borer or any insects and keeps it sturdy throughout its life time. The Raw materials are treated scientifically in order to make them free from any parasites or micro-organisms.

Our products are manufactured with eco-friendly, sustainable raw materials for keeping the environment happy and healthy. In this way, our products are Green Products.

We constantly work to improve the quality of our product. Our R & D department keeps testing with new experiments in order to deliver still more improved products that comply with the international quality standards.



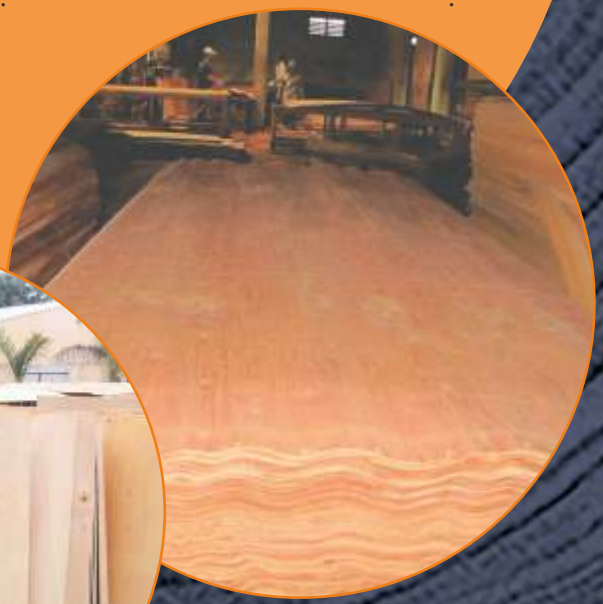
RAW MATERIAL

Ornato has an expertise in the selection of best quality raw materials in order to put forward a strong aesthetic appeal to the consumer.

The quality of raw materials assures the high sustainable quality of the finished product that comes out from our highly automated scientific production unit.

We have our own strict measures of scrutinizing the raw materials before it reaches the production unit.

This procedure procures and prevents any possibility of inferior quality material reaching the production unit.



WHY ORNATO?

- > Quality, Strength & Durability
- > An ISI, ISO Certified products
- > Premium Product
- > Timely Delivery
- > Fair, Reliable & Trustworthy
- > Environmentally Safe & Reduces Deforestation

SPECIFICATIONS

BEST DIMENSIONAL STABILITY

100% GUARANTEED THICKNESS

100% DEFECT FREE

QUALITY DOUBLE-CHECKED

HIGH LOAD BEARING CAPACITY

ALL WEATHER RESISTANT

TERMITE, BORER, FUNGUS RESISTANT

HIGH NAIL & SCREW HOLDING CAPACITY

WIDER CORE & PANEL

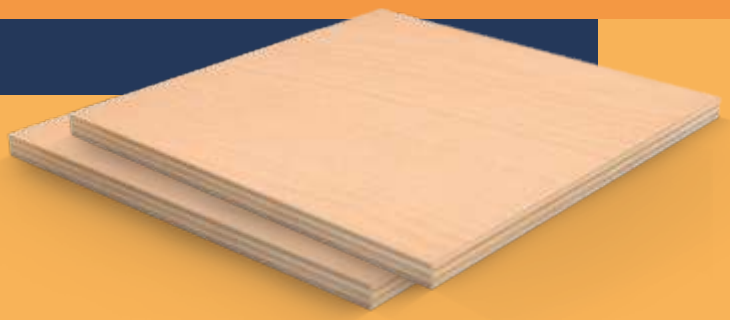
OUR PRODUCT GALLERY

PLYWOOD

IS : 303
CM/L 7200093006

ORNATO Plywood is made from selected core veneer & smooth face veneer bonded with Urea Formaldehyde synthetic adhesive for MR grade & Melamine Urea Formaldehyde synthetic adhesive for MUF grade, conforming to IS 848 (2006) and hot pressed with accurate temperature & high pressure to use under severest tropical climatic conditions.

Glue line treatment is carried out by adding suitable chemicals which are toxic to wood destroying agencies like: borer, fungus & termite. Treatment of plywood is done by dipping in a hot solution of preservative chemical.



GRADE
- Boiling Water Resistance (BWR)
- Moisture Resistance (MR)

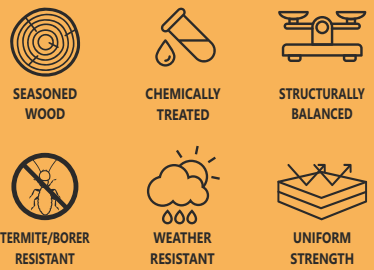
CONSTRUCTION
- Alternate (R/W)
- Hardwood (R/R)

STANDARD THICKNESS (IN MM)
- 4,6, 8/9, 12, 15/16, 18/19

STANDARD SIZE (IN MM))
- 2440 x 1220,2440 x 920
- 2140 x 1220,2140 x 920
- 1840 x 1220,1840 x 920

USES
- Suitable for Furniture, Paneling, Partition, Interior Decoration, Shelves, Racks etc.

SALIENT FEATURES
- No Delamination, Bleed-Through, Warpage & Indentation
- Suitable for all weather conditions
- Borer, Fungus Termite resistant



PLYWOOD TEST RESULT

TESTS	REQUIREMENTS	OBTAINED RESULTS
Types of Surface of Plywood	AA/BB/AB	AA
Dimensions : Length : Width : Thickness a) Less than 6 mm b) 6 mm & above Squareness Edge straightness	Tolerance : +6 mm , -0 mm +3 mm , -0 mm ±10% ±5% 0.2% 0.2%	 +2 mm +1 mm ±3% ±4% 0.08% 0.05%
Moisture Content % **Density:**	5-15% 70 gm/mm ^{2}	8% 80 gm/mm ^{2}
Static Bending Strength: a) Minimum Average: b) Individual: **(Along the grain)** **Static Bending Strength:** a) Minimum Average: b) Individual: **(Across the grain)**	**Grade: BWR** **MOR MOE** 40 5000 36 4500 **MOR MOE** 20 5000 18 3600	**Grade: BWR** **MOR MOE** 55 6500 45 5500 **MOR MOE** 30 6200 25 3800
Static Bending Strength: a) Minimum Average: b) Individual: **(Along the grain)** **Static Bending Strength:** a) Minimum Average: b) Individual: **(Across the grain)**	**Grade: MR** **MOR MOE** 30 4000 27 3600 **MOR MOE** 15 2000 13 1800	**Grade: MR** **MOR MOE** 40 5500 35 4500 **MOR MOE** 25 3000 20 2500
Glue Adhesion Water Resistance Test **BWR Grade :** 8 hrs Boiling and dried for 16 hrs at a temperature of 65±2^{0}C (3 cycle) **MR Grade :** 3 hrs Soaking and dried for 8 hrs at a temperature of 65±2^{0}C (3 cycle)	Minimum Pass Standard Minimum Pass Standard	Pass Standard
Mycological Test After conditioning of sample for 3 weeks at 27±2^{0}C	Minimum Pass Standard	Pass Standard

UNIT OF MEASUREMENT*

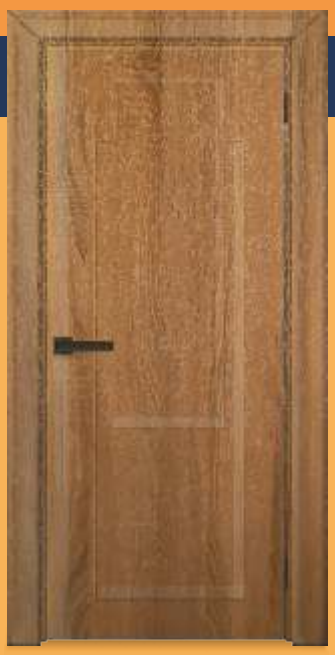
Modulus of Rupture (MOR) (N/mm^2)

Modulus of Elasticity (MOE) (N/mm^2)

FLUSH DOOR

IS : 2202
CM/L 7200093612

ORNATO Flush Door is of guaranteed quality. Flush Door is made in varying constructions & thicknesses without impairing the efficiency to meet the security needs of the building. The wide range of choice in quality of material like: Timber, adhesive used and processing techniques enable manufacturer to offer a Flush Door capable of giving efficient and needed protection. Excellent quality Flush Door is of solid core construction with BN & BD type. Flush Door is framed in seasoned battens; both the stiles are made with one finger joint, pressed at high pressure & controlled temperature and bonded with BWP grade Phenol Formaldehyde synthetic adhesive conforming to IS: 848 (2006). Ornato Flush Door combine simplicity, pleasing appearance, clean & beautiful finish.



GRADE
- Boiling Water Proof (BWP)

STANDARD THICKNESS (IN MM)
- 25, 30, 32, 35 and as per specific orders.

STANDARD SIZE (IN MM)
- 1905 X 700, 1905 X 800, 1905 X 900
- 2005 X 700, 2005 X 800, 2005 X 900 and as per specific orders.

USES
- Widely used for entrance and living area doors, ideal where splashing is common such as toilet, bathrooms, balcony doors etc.

SALIENT FEATURES
- Boiling water proof.
- Borer, termite & powder free.
- Accuracy & stability in dimension.
- No warping & delamination when subjected to change in atmospheric condition.
- Excellent screw holding capacity.
- Sufficient strength in the sheathing material to resist normal knocks and blows.
- It is economical in comparisons to the other products due to durability.

SEASONED WOOD

CHEMICALLY TREATED

STRUCTURALLY BALANCED

TERMITE/BORER RESISTANT

WEATHER RESISTANT

UNIFORM STRENGTH

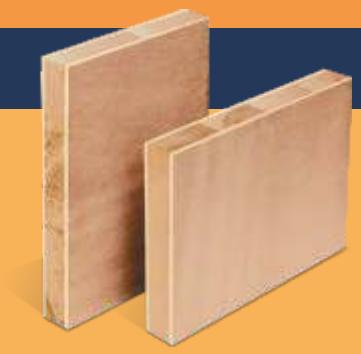
FLUSH DOOR TEST RESULT

TESTS	REQUIREMENTS	OBTAINED RESULTS
Dimension & Squareness **Height** **Width** **Thickness, Min/Max** **Variation in thickness between any two points Squareness**	**Tolerance:** ±5 mm ±5 mm ±1 mm Max.0.8 Deviation not more than 1mm per 500mm length	 ±2 mm ±2 mm 30.00 – 30.50mm 0.50mm 0.50mm
General Flatness		
Twist	Max. 6 mm	Less than 6 mm
Cupping	Max. 6 mm	Less than 6 mm
Warping	Max. 6 mm	Less than 6 mm
Local Planeness	Max. 0.5 mm	0.18
Impact indentation	No cracking, tearing or delamination. Indentation depth, max 0.2mm	No cracking, tearing or delamination.0.14mm
Flexure Test (Deflection in mm) 15 minutes after 50 kg 3 minutes after load removal	Deflection at maximum load not greater than 1/30th of length or 1/15th of width, whichever is less. Residual deflection not greater than 1/10 of maximum deflection.	MD: Less than 1/30th of length & 1/15th of width. RD: Less than 1/10th of MD
Edge loading Test (deflection in mm) After 15 minutes of 100 kg loading 5 minutes after load removal Lateral buckling	Deflection at maximum load not greater than 5 mm. Residual deflection after removal of load not greater than 0.5mm. Not more than 2mm during loading. No residual buckling after load removal.	MD: Less than 5mm. RD:Less than 0.5mm Lateral Buckling:0.1mm Conforms to the requirement
Shock Resistance Test Soft & light body impact Soft & heavy body impact	 No visible damage No visible damage	 Conforms to the requirement Conforms to the requirement
Slamming Test	No visible damage after 50 drops.	Conforms to the requirement
Glue adhesion Test	No delamination/ No single delamination of more than 50mm in length & more than 3mm in depth	Conforms to the requirement
End immersion Test	No delamination 8 cycle-1 day wet & 1 day dry	Conforms to the requirement
Knife Test	Minimum Pass standard	Pass Standard
Screw withdrawal Test	Not less than 1000 N Surface condition : No visible damage to the surface either by delamination or extra chipping off	3000 N Conforms to the requirement
Buckling test (deflection in mm) After 5 minutes of 40 kg loading 15 minutes after load removal	No deterioration Initial Deflection not greater than 50mm Residual deformation after 15 minutes of unloading not greater than 5mm	Conforms to the requirement
Misuse test	No permanent deformation of the fixing or any other part of the door set in hindering its normal working after the test.	Conforms to the requirement
Varying humidity test	No visible warping, twisting or delamination. Maximum departure from the general planeness not more than 0.1mm Recovery- At least 90% of the change in dimension.	Conforms to the requirement

BLOCK BOARD

IS : 1659
CM/L 7200092905

ORNATO Block Board is made up of 100% imported Pinewood. All the wooden components of the Block Board are seasoned under accurate temperature to obtain required moisture content percent according to IS:1141 (1993) in our modern seasoning plant & then planed with precision to achieve uniform thickness of battens. Block Board is bonded with Melamine Urea Formaldehyde synthetic adhesive for MR grade & Phenol Formaldehyde synthetic adhesive for BWP grade conforming to IS:848 (2006) & hot pressed under controlled temperature & high pressure to get bonding. ORNATO Block Board give exceptional strength & durability to your wall cabinets, cupboards, wardrobes & other furniture woodwork. The artisan will find it easy & hassle-free to work since these provide additional grip for screw and nails.



GRADE

- Boiling Water Proof (BWP)
- Moisture Resistance (MR)

STANDARD THICKNESS (IN MM)

- 19, 25

STANDARD SIZES (IN MM)

- 2440X1220, 2440X920
- 2140X1220, 2140X920
- 1840X1220, 1840X920

SALIENT FEATURES

- Accuracy & stability in dimension.
- No expand, contract, warping & delamination when subjected to change in atmospheric condition.
- Free from borer, termite & powder.

USES

- Interior & exterior woodwork, furniture like: wardrobs, beds etc.
- Partition in offices, flooring & seats of bus bodies, railway coaches, indoor panels & shutters.

SEASONED WOOD

CHEMICALLY TREATED

STRUCTURALLY BALANCED

TERMITE/BORER RESISTANT

WEATHER RESISTANT

UNIFORM STRENGTH

BLOCK BOARD TEST RESULT

TESTS	REQUIREMENTS	OBTAINED RESULTS
Core		
I) Moisture Content,%	12 Max.	8.8
ii) Width of strips, mm	30 Max.	26
iii) Width of edge strips along the length, mm	45 Max.	37
Dimensions	Tolerance on declared value	
a) Length in	+6 mm , -0 mm	1831
b) Width in	+3 mm , -0 mm	916
c) Thickness in Min / Max	±5%	19.20 – 19.42
d) Variation in thickness in	0.5 mm	0.22
e) Edge straightness, %	0.2%	0.08%
f) Squareness,%	0.2%	0.05%
Surface Defects	As per clause 8.1.3/6.3.3	Conforms to the requirements
Dimensional Changes caused by humidity		
a) At 90% RH		
i) Difference in length	±1mm	0.09
ii) Difference in thickness	±1mm	0.10
b) At 40% RH		
i)Difference in length	±1mm	0.09
ii)Difference in thickness	±1mm	0.08
c) There shall be no delamination at the extreme ranges of humidity	No delamination	Complies to requirement
d) There shall be no change in local planeness measure as d/L < 1/150	<1/150	Complies to requirement
Resistance to water, BWP Grade: boiling for 72 h	Min. Pass Standard	Pass Standard
MR Grade: 3 hrs soaking at 60±2°C	Min.Pass Standard	Pass Standard
Adhesion of plies	Min.Pass Standard	Pass Standard
Modulus of Rupture (N/mm^2)	BWP MR	BWP MR
a) Average	50 40	70 50
b) Minimum individual	42 34	65 40
Modulus of Elasticity (N/mm^2)		
a) Average	5000 4000	6000 5000
b) Minimum individual	4200 3400	5000 4000
Spot Test	Shall show through and through penetration of preservative of chemical	Clearly visible through and through penetration of preservative chemical

IS : 303 CM/L 7200093006

IS : 2202 CM/L 7200093612

IS : 1659 CM/L 7200092905

ORNATO®

PANELS

PLY | BOARD | DOOR

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NABL ACCREDITED

Our laboratory equipments
are NABL certified

ORNATO PANELS

AN ISO 9001 : 2015 CERTIFIED COMPANY

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