



NEXO by EURO DECOR

MARINE PLY (B.W.P. GRADE)

MARINE PLY is specially made to withstand rigorous condition of climatic changes, humidity level and other weather elements. Made from hardwood and bonded with high quality Phenol Formaldehyde (PF) resin, Euro ply is well protected from fungi, termites and borers and its bonding is intact even after 72 hours of boiling and vacuum steam pressure test.

Technical details conforming to IS:710 (2010) Marine Plywood

Sr. No.	Prescribed Value	Values for Conformity	Observed Value
1	MOISTURE CONTENT	5-15%	8%
2	GLUE ADHESION IN DRY STATE a) Glue Shear Strength b) Adhesion of Plies	Min. Av. 1350 N Min. Pass Standard	1660 N Excellent
3	WATER RESISTANCE TEST a) A 120 kPa of vacuum and 220 kPa of steam Pressure b) Glue Shear Strength in wetstate c) Adhesion of Plies	There shall be no delamination Min. Av. 1000 N Min. Pass Standard	No delamination 1320 N Excellent
4	TENSILE STRENGTH a) Along the face grain b) Across the face grain c) Sum of both direction	Min. 42.00 N/mm ² Min. 25.00 N/mm ² Min. 84.50 N/mm ²	55.80 N/mm ² 36.25 N/mm ² 92.05 N/mm ²
5	STATIC BENDING STRENGTH a) Modulus of Elasticity (MOE) (i) Along the facegrain (ii) Across the facegrain b) Modulus of Rupture (MOR) (i) Along the facegrain (ii) Across the facegrain	Min. 7500 N/mm ² Min. 4000 N/mm ² Min. 50 N/mm ² Min. 30 N/mm ²	8960 N/mm ² 5680 N/mm ² 65.85 N/mm ² 38.70 N/mm ²
6	WET BENDING STRENGTH a) Modulus of Elasticity (MOE) (i) Along the facegrain (ii) Across the facegrain b) Modulus of Rupture (MOR) (i) Along the face grain (ii) Across the facegrain	Min. 3750 N/mm ² Min. 2000 N/mm ² Min. 25 N/mm ² Min. 15 N/mm ²	5160 N/mm ² 3215 N/mm ² 35.70 N/mm ² 25.10 N/mm ²
7	MYCOLOGICAL TEST	There shall be no ply Separation at the edge	No ply separation





BOILING WATER RESISATNCE & COMMERCIAL PLY

EURO PLY is made from Hardwood and bonded with Phenol Formaldehyde (PF) resin for BWR Grade & bonded with MELAMINE UREA FORMALDEHYDE(MUF) resin for M.R. Grade. It is specially treated to repel termites and wood insects. It is made using high quality veneers of uniform thickness and chemically treated to make it Wapfree and dimensionally accurate.

Technical details EURO BWR & MR grade plywood conforming to IS: 303-1989

Sr. No.	Prescribed Test	BWR Grade		MR Grade	
		Required Values	Observed Values	Required Values	Observed Values
1	Squareness (%)	<0.20%	0.10	<0.20%	0.12
2	Edge Straightness(%)	<0.20%	0.15	<0.20%	0.17
3	Moisture Content (%)	5-15%	8%	5-15%	7%
4	Adhesion of Piles	Min. Pass Standard	Excellent	Min. Pass Standard	Excellent
5	Water Resistance Test	8 Hours Boiling	Satisfactory	3 Hours Soaking at 60± 2c°	Satisfactory
6	Static Bending Strength				
i	Along the grain direction				
	Modulus of Elasticity	Avg. - 5000 N/mm ²	6350	Avg. - 4000 N/mm ²	5240
	Modulus of Rupture	Avg. - 40 N/mm ²	54	Avg. - 30 N/mm ²	48
ii	Across the grain direction				
	Modulus of Elasticity	Avg. - 2500 N/mm ²	4200	Avg. - 2000 N/mm ²	4100
	Modulus of Rupture	Avg. - 20 N/mm ²	46	Avg. - 15 N/mm ²	34