

# CONTAINER FLOORING

Using sophisticated processes, Northern manufactures extra ordinary long life densified flooring for Containers. The product provides a frictionless surface, bonded with superior grade adhesive making it high density plywood, which processes excellent strength, durability and all weather resistance.

Northern Densified Container Flooring is manufactured from veneers peeled from eco-friendly plantation timber and carefully seasoned to the required 6% moisture content. The veneers are rotary cut, smooth and free from knots and splinters. Impregnated with thermosetting of adhesives conforming to IS 848:1974. The veneers are finally densified under controlled condition of high temperature and pressure.

TECHNICAL OF CONTAINER FLOORING	
Properties	Container Floor Board
Density	0.85gm/cc
Moisture content	9 %
Compressive Strength Flat-Wise Edge Wise	1400 kg/cm <sup>2</sup> 600 kg/cm <sup>2</sup>
Static Bending Strength Along the Grain Across the Grain	1100kg/cm <sup>2</sup> 900 kg/cm <sup>2</sup>
Impact Strength Edge Wise	0.40 kg-m
Hardness (H scale Rockwell)	55 kg/m
Water absorption in 24 hrs.	6%
Swelling in boiling water in 8 hrs.	10% Max

# FIRE RETARDANT PLYWOOD

IS:5509

Northern Fire Retardant Plywood is manufactured in special resin. Therefore, in case of any natural calamity Northern panels maintain their structural integrity for longer periods in comparison to other building materials. By chemical reactions Northern FRP reduces the flammability of the materials.



**Suggested uses:** The applications are many; some of them are kitchen, boiler area, laboratory, high heat zone, etc. Insect Fire retardant plywood should be used in all the places where woodworking and fire elements are close by.

## TECHNICAL SPECIFICATIONS (IS:5509)

	Dimensions	BIS Requirements	Observation Values
1.	Length	2440 + 6 0	2442mm
2.	Width	1220 + 3 0	1222mm
3.	Thickness	12mm ± 5%	11.80mm
4.	Squareness	2mm/1000mm	0.95mm
5.	Edge straightness	2mm/1000mm	0.50mm
6.	Workmanship & finish	As per clause 9.1 to 9.2	Satisfactory
<b>Physical properties</b>			
7.	Density	0.60 – 0.65	0.64
8.	Moisture contents	5 – 20%	10.25%
9.	Water resistance test Cyclic test 8 hours – 16 hours Boiling – drying 3 Cycles	Pass standard	Excellent
10.	Mycological Test	Pass standard	Excellent
11.	Static bending strength Along the grain M.O.E. Across the grain M.O.E.  Along the grain M.O.R. Across the grain M.O.R.	Avg. – 5000N/mm <sup>2</sup> Ind. – 4500N/mm <sup>2</sup> Avg. – 2500N/mm <sup>2</sup> Ind. – 2200N/mm <sup>2</sup>  Avg. – 40 Ind. – 36 Avg. – 20 Ind. – 18	5850 N/mm <sup>2</sup> 4020 N/mm <sup>2</sup> 3480 N/mm <sup>2</sup> 2855 N/mm <sup>2</sup>  47.80N/mm <sup>2</sup> 36.40N/mm <sup>2</sup> 27.25N/mm <sup>2</sup> 20.35N/mm <sup>2</sup>
<b>FIRE RETARDANT TESTS IS : 5509 : 2000</b>			
12.	Flammability	30 Min.	35 Min.
13.	Flame penetration	30 Min.	33 Min.
14.	Rate of burning	20 Min. (Wt. loss 30 to 70%)	28 Min.