

FACTORY TEST REPORT OF MARINE PLYWOOD
AS PER IS 710-2010

Batch No – DM/24
 D. O .M - 19/01/2020
 Size – 2440 x 1220 x 19 MM
 Brand:- HUTTON

Sl.No	Clause No	Tests	Specified requirements	Method of test	Result	
1	6	DIMENSIONAL EQUIPMENTS				
		i) Length, mm	2440	IS 710	2443	
		ii) Width, mm	1220		1223	
		iii) Thickness, mm	± 5%		19.12	
		iv) Edge straightness	0.2% Max	Annex B of IS:710	Within limit	
v) Squareness	0.2% Max	Within limit				
2	7	Workmanship and Finish	Satisfactory	IS 710	Satisfactory	
3	9.1.1	Moisture Contents, Percent	5 to 15	IS 1734 (PT-1)	10.21%	
4	9.1.2	Glue Adhesion in Dry State				
	9.1.2.1	Glue Shear Strength	Avg. failing load shall not be less than 1350 N and no individual values shall be less than 1100 N	IS 1734 (Pt-4)	Avg 1516 N Min. Ind 1499 N	
	9.1.2.2	Adhesion of plies	The veneer shall offer appreciable resistance to forcible separation & the fractured samples shall show some adherent fibers distributed more or less uniformly	IS 1734 (Pt-5)	Excellent	
5	9.1.3	Water Resistance Test (After 72 h boiling)				
	9.1.3.1.1	Glue Shear Strength	Avg. failing load shall not be less than 1000 N and no individual value shall be less than 800 N	IS 1734 (Pt-4)	Avg 1089N Min. Ind 1073N	
	9.1.3.1.2	Adhesion of plies	The veneer shall offer appreciable resistance to forcible separation & the fractured samples shall show some adherent fibers distributed more or less uniformly	IS 1734 (Pt-5)	Excellent	
6	9.1.4	Tensile Strength				
		a) Parallel to Grain, N/mm ²	42.0 Min	IS 1734 (Pt-9)	57.21	
		b) Right angle to Grain, N/mm ²	25.0 Min		41.83	
		c) The sum of a & b, N/mm ²	84.5 Min		99.04	

Sl. No	Clause No	Tests	Specified requirements	Method of test	Result
7	9.1.5	Mycological Test	The test piece shall show no appreciable sign of separation at the edges of the veneers & shall comply with the requirements as follows:	IS 1734 (Pt-7)	Satisfactory
	9.1.3.1	Glue Shear Strength	Avg. failing load not be less than 1000 N and no individual value shall be less than 800 N	IS 1734 (PT-4)	Avg 1021 N Min. Ind 1003 N
	9.1.3.1.2	Adhesion of plies	The veneer shall offer appreciable resistance to forcible separation & the fractured samples shall show some adherent fibers distributed more or less uniformly	IS 1734 (Pt-5)	Excellent
8	9.1.6	Static Bending Strength			
		a) Modulus elasticity N/mm ² parallel to grain	i) 7500 Average Min		7856
			ii) 6700 Min Individual Min		7821
		b) Modulus of rupture, N/mm ² , parallel to grain	i) 50 Average Min	IS 1734 (Pt-11)	65.21
			ii) 45 Min Individual Min		63.25
		c) Modulus of elasticity, N/mm ² , perpendicular to grain	i) 4000 Average Min		4321
			ii) 3600 Min Individual Min		4236
		d) Modulus of rupture, N/mm ² , perpendicular to grain	i) 30 Average Min		45.65
ii) 27 Min Individual Min			43.89		
9	9.1.7	West Bending Strength			
		a) Modulus of elasticity, N/mm ² , parallel to grain	i) 3750 Average Min	IS1734(Pt-11)	4002
			ii) 3400 Min Individual Min		3996
		b) Modulus of rupture, N/mm ² , parallel to grain	i) 25 Average Min		35.21
			ii) 22 Min Individual Min		34.69
		c) Modulus of elasticity, N/mm ² , perpendicular to grain	i) 2000 Average Min		2019
			ii) 1800 Min Individual Min		2017
		d) Modulus of rupture, N/mm ² , perpendicular to grain	i) 15 Average Min		20.36
ii) 13 Min Individual Min	19.96				
10	9.1.8	RETENTION	12 Kg/m ³	IS 2753(Part1&2) IS 710	12.12

Note- Samples are tested as per IS710:2010 Under CM/L NO-3380455

