

काष्ठ कम्पोजिट जाँच एवं मूल्यांकन केन्द्र  
Center for Testing And Evaluation of Wood Composites

भारतीय प्लाईवुड उद्योग अनुसंधान और प्रशिक्षण संस्थान  
INDIAN PLYWOOD INDUSTRIES RESEARCH AND TRAINING INSTITUTE

(भारत सरकार, पर्यावरण एवं वन मंत्रालय का स्वायत्त निकाय)  
(Autonomous Body of the Ministry of Environment & Forests, Government of India)

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ACCREDITED LABORATORY  
Cert. No. : T-1578 & T-1579

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**TEST REPORT**

Report Issued to:

M/s. Shree Jalaram Timber Depot Pvt. Ltd.  
Agar Bazaar, S.K. Bole Road,  
Dadar (W), Mumbai - 400 028.

TEST REPORT AS PER IS: 710: 2010 [WITH AMENDMENT NO(s) Nil ]

REPORT NO: JD/SJTDPL/4469/Phy-5852/2013/Mumbai  
Your Ref : Proforma/Invoice

DATED: 20.12.2013  
Ref. Date : 07.09.2013

Date(S) of performance of test : From : 25.10.2013 To : 17.12.2013

**PART - A: PARTICULARS OF THE SAMPLE SUBMITTED:**

(a) Nature of Sample	:	Marine Plywood
(b) Grade/Variety/Type/Class	:	BWP
(c) Size of Sample	:	2440 x 1220 x 12 mm
(d) Brand Name, if any	:	Kenwood Platinum
(e) Declared Values	:	--
(f) Code No.	:	--
(g) Batch No. & Date of Mfg	:	--
(h) Quantity	:	1 No.
(i) Mode of Packing	:	--
(j) Date of Receipt	:	25.10.2013
(k) Seal / Stamp	:	--
(l) IO's Signature	:	--
(m) Any Other Information	:	--

संयुक्त निदेशक  
Joint Director

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DATED: 20.12.2013

PART - B: SUPPLEMENTARY INFORMATIONS:

- (a) Reference to the sampling procedure, wherever applicable : N.A.
- (b) Supporting documents for the measurement taken and results derived like graphs, tables, sketches and/or photographs as appropriate to the test report if any (To be attached) : N.A.
- (c) Deviations from test methods as prescribed in relevant ISS/Work Instructions, if any : N.A.

PART - C: TEST RESULT:

Sl. No.	Tests	Cl No	Test Method	Requirement as per IS:710-2010	Results
1	2	3	4	5	6
1	Dimensions and Tolerance a) Length b) Width c) Thickness d) Squareness, % e) Edge Straightness, %	6	Annex B of IS:710-2010 Annex B of IS:710-2010	+ 6 mm - 0 mm + 3 mm - 0 mm ± 5% Max 0.2 % Max 0.2 %	+ 2 + 2 + 3.5 0.1 0.1
4	Workmanship and Finish	9	--	Complies to requirement	Conforms
5	Moisture content, %	9.1.1	IS 1734-1983 (RA 2003) Part-1	5 - 15	8.9
6	<u>Glue Adhesion Strength in dry state</u> i) Glue shear strength, N a) Average b) Minimum individual	9.1.2.1	IS 1734-1983 (RA 2003) Part-4	1350 1100	1809 1390
	ii) Adhesion of plies (Knife test)	9.1.2.2	IS 1734-1983 (RA 2003) Part-5	Min. pass standard	Pass standard

संयुक्त निदेशक

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REPORT NO: JD/SJTDPL/4269/Phy-5882/2013/Mumbai

DATED: 20.12.2013

Sl. No.	Tests	CI No	Test Method	Requirement as per IS: 710-2010	Results
1	2	3	4	5	6
7	Resistance to water (After 72 hrs boiling)	9.1.3			
	i) Glue shear strength, N a) Average b) Minimum individual	9.1.3.1.1	IS 1734-1983 (RA 2003) Part-4 and Part-6	1000 800	1264 1010
	ii) Adhesion of plies (Knife test)	9.1.3.1.2	IS 1734-1983 (RA 2003) Part-5 and Part-6	Min. pass standard	Pass standard
8	Resistance to microorganisms (Mycological Test)	9.1.5			
	i) Glue shear strength, N a) Average b) Minimum individual	9.1.3.1.1	IS 1734-1983 (RA 2003) Part-4 and Part-7	1000 800	1355 1160
	ii) Adhesion of plies (Knife test)	9.1.3.1.2	IS 1734-1983 (RA 2003) Part-5 and Part-7	(a) No sign of separation at the edges. (b) Min. pass standard	No separation from edges Pass standard
9	Tensile strength, N/mm <sup>2</sup> i) Parallel to the face grain ii) Perpendicular to the face grain iii) Sum of the tensile strength (i + ii)	9.1.4	IS 1734-1983 (RA 2003) Part-9	Min. 42.0 Min. 25.0 Min. 84.5	58.8 33.5 92.3
	<u>Static Bending Strength</u> Modulus of elasticity, N/mm <sup>2</sup> i) Parallel to the face grain a) Average b) Minimum individual ii) Perpendicular to the face grain a) Average b) Minimum individual	9.1.6	IS 1734-1983 (RA 2003) Part-11	Min. 7500 Min. 6700 Min. 4000 Min. 3600	7167 5606 8510 7541
	<u>Static Bending Strength</u> Modulus of rupture, N/mm <sup>2</sup> i) Parallel to the face grain a) Average b) Minimum individual ii) Perpendicular to the face grain a) Average b) Minimum individual	9.1.6	IS 1734-1983 (RA 2003) Part-11	Min. 50 Min. 45 Min. 30 Min. 27	52.1 46.9 62.2 47.3

*(Signature)*

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REPORT NO: JD/SJTDPL/4269/Phy-4852/2013/Mumbai

DATED: 20.12.2013

Sl. No.	Tests	CI No	Test Method	Requirement as per IS: 710-2010	Results
1	2	3	4	5	6
12	<b>Wet Bending Strength</b> Modulus of elasticity, N/mm <sup>2</sup> i) Parallel to the face grain a) Average b) Minimum individual ii) Perpendicular to the face grain a) Average b) Minimum individual	9.1.7	IS 1734-1983 (RA 2003)Part-11 And Cl. No. 9.1.7/IS 710 : 2010	Min. 3750 Min. 3400  Min. 2000 Min. 1800	4159 2999  5703 5097
13	<b>Wet Bending Strength</b> Modulus of rupture, N/mm <sup>2</sup> i) Parallel to the face grain a) Average b) Minimum individual ii) Perpendicular to the face grain a) Average b) Minimum individual	9.1.7	IS 1734-1983 (RA 2003)Part-11 And Cl. No. 9.1.7/IS 710 : 2010	Min. 25 Min. 22  Min. 15 Min. 13	29.3 27.5  35.0 24.8
14	Retention of preservative chemicals, Kg/m <sup>3</sup>  Copper as CuSO <sub>4</sub> 5H <sub>2</sub> O  Chromium as K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub>  Boron as H <sub>3</sub> BO <sub>3</sub>	9.1.8	IS 2753-1991(RA-2005) Method Cl:3.4.2 IS 2753-1991(RA-2005) Method Cl:3.4.3 IS 2753-1991(RA-2005) Method Cl:5.0	Min. 12	7.343  1.645 5.287 0.412

Sample does not conform to IS: 710-2010.

## PART - D: REMARKS:

1. Test specimens were conditioned at 65±5% RH and at 27±2°C for mechanical tests.
2. Test results are relevant only to the material received for testing.
3. Remnant of tested material if any will be retained for a period of 6 months only, from the date of issue of test report.



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