



हिन्दुस्तान टैस्ट हाऊस

HINDUSTAN TEST HOUSE

Laboratory : Plot No. 36, Sector-1, HSIIDC IGC Saha, Ambala Cantt - 133 104 (Haryana)
Mob. : 07876399888, 9355002828 • E-mail : hindustaantesthouse@gmail.com

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TEST REPORT

Issued to: SHREE JAGDAMBA PANELS Job No.: HTH/TR/21/052619
Address: Vill. Mehmodpur. Tehsil-Chhachrauli Issued date: 15.11.2023
Diist. Yamuna Nagar
Haryana
Test Report As per IS 4990:2011

PART A: PARTICULARS OF TEST ITEM

Sample description: Plywood for Concrete Shuttering Work Sample Quantity: One
(Type 3, CSFF, Treatment-ACC, Brand-AVRON) Sample Size: 2440 x 1220 x 12 mm (34 Kg)
Declared values, if any: CM/L-9100162412 Code No.: ---
Date of receipt: 20.10.2023 BIS seal: NA
Batch No. & Mfg date: --- & --- IO's Signature NA
Any other Information/Expiry date, if any: ---
Date of commencement of Testing: 20.10.2023
Date of Completion of Testing: 15.11.2023

PART B: SUPPLEMENTARY INFORMATIONS

- a) Reference to sampling procedure, wherever applicable : NA
b) Supporting documents taken and results derived graphs, tables, sketches and/or photographs as appropriate to test report, if any (To be attached) : NA
c) Deviation from the test methods as prescribed in relevant ISS, work Instructions, if any : NA

PART C: RESULTS OF ANALYSIS

S. No.	Test Parameter(s) (Clause)	Unit	Result(s)/Observation(s)	Specified Values/ Tolerance
1.	Type of surface of Plywood (Clause 4)	---	CSFF	CS/CSC/CSFF
2.	Dimension (Clause 7)			
	a) Length	mm	2441 (+1)	+6, -0
	b) Width	mm	1221 (+1)	+3, -0
	c) Thickness	mm	12.22 (+1.83%)	± 5 %
	d) Edge Straightness	%	0.07	0.2 (Max.)
	e) Squareness	%	0.11	0.2 (Max.)
3.	Workmanship and Finish (Clause 8)	---	Satisfactory	Satisfactory
4.	Moisture Content (Clause 10.1.1)	%	6.29	5 - 15
5.	Glue Adhesion in Dry State (Clause 10.1.2)			

Analyst

Authorized Signatory

- Note : 1. The above Results relate only to the item tested.
2. Samples are not drawn by Hindustaan Test House.
3. Total liability of Hindustaan Test House is limited to invoiced amount.
4. The Test-Report is not to be reproduced wholly or in part and cannot be used as in court of Law and should not be used as evidence in the court.
5. Hindustaan Test House is an NABL accredited and BIS approved laboratory



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S. No.	Test Parameter(s) (Clause)	Unit	Result(s)/Observation(s)	Specified Values/ Tolerance
	a) Glue Shear Strength i. Average Failing Load ii. Average Wood Failure b) Adhesion of Plies	N --- ---	1713.76 No Requirement Pass Standard	1350 (Min.) As per table-1 Shall be min. Pass Standard
6.	Water Resistance Test (Clause 10.1.3) a) Glue Shear Strength I. Average Failing Load II. Average Wood Failure b) Adhesion of Plies	N --- ---	1312.39 No Requirement Pass Standard	1000 (Min.) As per table-1 Shall be Min. Pass Standard
7.	Visual observation of Surface Layer after being subjected to 72 hrs boiling (Clause 10.1.4)	---	No sign of softening, checking, cracking or deterioration on the surface layer	Shall not show any softening, checking, cracking or deterioration of the surface layer
8.	Mycological Test (Clause 10.1.5) a) Edge of the Specimen b) Glue Shear Strength I. Average Failing Load II. Average Wood Failure c) Adhesion of Plies	--- N --- ---	No sign of Separation at edges 1410.81 No Requirement Pass Standard	Shall be no sign of separation 1000 (Min.) As per table-1 Shall be Min. Pass Standard
9.	Tensile Strength (Clause 10.1.6) a) Along the grain direction b) Across the grain direction c) Sum of Tensile Strength (a + b)	N/mm ²	54.62 43.42 98.04	32.5 (Min.) 22.5 (Min.) 60.0 (Min.)
10.	Static Bending Strength (Clause 10.1.7) a) Modulus of Elasticity I. Along the grain direction i. Average ii. Minimum, individual II. Across the Grain Direction	N/mm ²	7858.40 7586.89	7500 (Min.) 6700 (Min.)

Analyst

Authorizatory

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S. No.	Test Parameter(s) (Clause)	Unit	Result(s)/Observation(s)	Specified Values/ Tolerance
	i. Average ii. Minimum, individual b) Modulus of Rupture I. Along the grain direction i. Average ii. Minimum, individual II. Across the Grain Direction i. Average ii. Minimum, individual	N/mm ²	5520.37 5226.78 54.68 51.71 47.99 45.78	4000 (Min.) 3600 (Min.) 50 (Min.) 45 (Min.) 30 (Min.) 27 (Min.)
11.	Wet Bending Strength (Clause 10.1.8) c) Modulus of Elasticity I. Along the grain direction i. Average ii. Minimum, individual II. Across the Grain Direction i. Average ii. Minimum, individual d) Modulus of Rupture I. Along the grain direction i. Average ii. Minimum, individual II. Across the Grain Direction i. Average ii. Minimum, individual	N/mm ² N/mm ²	 4239.36 4051.66 3579.53 3291.22 40.20 37.94 35.27 32.48	 3750 (Min.) 3400 (Min.) 2000 (Min.) 1800 (Min.) 25 (Min.) 22 (Min.) 15 (Min.) 13 (Min.)
12.	Retention of Preservative (Clause 10.1.9)	Kg/m ³	12.63	12 (Min.)

PART D: REMARKS: ---

Analyst



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