

TEST CHARGES

Effective from 1st March 2005



Center for Testing and Evaluation of
Wood composites
Indian Plywood Industries Research and
Training Institute

(Autonomous Body under the Ministry of Environment & Forests,
Government of India)

P.B.No.2273, Tumkur Road, Bangalore 560 022

I. Wood and Wood Products

Sl. No.	Test Material	I.S. Specification No.	Minimum size of sample cm x cm	Test Charges per sample Rs.
A. Wood				
1	Classification of Timber	399	15 x 10	850
2	Identification of species		15 x 10	850
3	Moisture content determination.	1708 (part I)/287	15 x 10	350
4	Spot test for Preservative treatment (Treatment given such as boron compounds/CCA/ACC/CCB should be specified)	401/5539/121-20/1920	15 x 10	450
5	Quantitative estimation of preservative chemicals a) CCA/CCB/ACC 2753(Pt. 1) b) Boron 2753(Pt. 1) (Treatment given should be specified)		15 x 10 15 x 10	6750 2500
6	Non Coniferous timber in converted form for general purposes	5966		2000
7	Preservative treated & seasoned sawn timber from rubberwood a) CCA/CCB/ACC 2753 (part I) b) Boron 2753 (part II)	14960		6750 2500

Sl. No.	Test Material	I.S. Specification No.	Minimum size of sample cm x cm	Test Charges per sample Rs.
B. PLYWOOD				
1	Commercial plywood	303	150 x 100	3350
2	Structural Plywood	10701	200 x 100	12000
3	Shuttering Plywood	4990	150 x 100	13000* 6250**
4	Marine Plywood	710	150 x 100	12300* 5550**
5	Aircraft plywood			
	i) Medium strength	709	150 x 100	7350
	ii) High strength	4859	150 x 100	7350
6	Fire retardant plywood	5509	100 x 100	4350
7	Decorative plywood	1328	100 x 100	2650

* Includes preservative estimation

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C. PARTICLEBOARD

1	Wood particle board	3087	150 x 100	4350
2	Veneered particle board	3097	150 x 100	4350
3	Rice husk particle board	3097	150 x 100	4350
4	Cement bonded particle board	14276	150 x 100	8000
5	Prelaminated particle board	12823	150 x 100	8350
6	High density particle board	3478	150 x 100	5300

D. FIBREBOARD

1	Medium density fibre board	12406	150 x 100	4350
2	Prelaminated MDF	14587	150 x 150	8350

E. HARDBOARD

1	Fibre hardboard	1658	100 x 100	3000
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F. FLUSH DOOR

1	Flush door shutter	2202(Pt I)	Full size door 2 Nos.	10900
1a	Flush door shutter acceptance tests only as per	IS:2202, part I	1 Door	3000
2	Type tests for door Shutter	4020	Full size door 2 Nos.	10900
3	Type test for door shutter - Individual Tests			
i	Dimensional & Squareness test	2202/4020	Full size door	450
ii	General flatness test	-do-	-do-	450
iii	Local Planeness test	-do-	-do-	450
iv	Impact indentation test	-do-	-do-	1250
v	Flexure test	-do-	-do-	1250
vi	Edge loading test	-do-	-do-	1250
vii	Shock resistance	-do-	-do-	2000
viii	Buckling test	-do-	-do-	1250
ix	Slamming test	-do-	-do-	750
x	Misuse test	-do-	-do-	1250

Sl. No.	Test Material	I.S. Specification No.	Minimum size of sample cm x cm	Test Charges per sample Rs.
xi	Varying Humidity	-do-	-do-	3500
xii	End immersion test	-do-	-do-	750
xiii	Knife test	-do-	-do-	450
xiv	Glue adhesion test	-do-	-do-	550
xv	Screw withdrawal test	-do-	-do-	1250

G. PANEL DOORS SHUTTER

a)	As per IS:1003 (Part 1)			10900
b)	Moulded Panel Door			
	i) Panel Door	IS15380		10900
	ii) Skin	IS15380		6850

H. OTHER PANEL PRODUCTS

1	Blockboard	1659	100 x 100	5250
2	Bamboo mat board	13958	100 x 100	3750
3	Compreg (General Purpose)	3513 (Part I)	100 x 100	8000
4	BMCS	IS15476	Full Sheet	9000

Sl. No.	Test Material	I.S. Specification No.	Minimum size of sample cm x cm	Test Charges per sample Rs.
5	Coir Veneer Board	14842	100 x 100	3350
6	Bamboo Mat Veneer Composite	14588	100 x 100	3750
7	Laminated Veneer Lumber	14616	100 x 100	12000

I. Individual Tests

1	Density	1734/1708	30 x 30	450
2	Modulus of rupture	-do-	100 x 30	1000
3	Modulus of elasticity	-do-	100 x 30	1000
4	Tensile strength	-do-	50 x 30	1250
5	Compressive strength	-do-	50 x 30	1000
6	Nail/Screw holding power	-do-	50 x 30	1000
7	Hardness	1734/1708	50 x 30	1000
8	Thermal conductivity	3346	100 x 100	3000
9	Termite resistance	4833	30 x 30	3400
10	Fungal resistance	4873	30 x 30	3400
11	Borer resistance Natural infestation	-do-	30 x 30	3400
12	Abrasion resistance test	-do-	30 x 30	2000

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13	Dimensional Tests for Windows		Full size window	450
14	Glue test for joints	4021 (part II)		550
15	Mycological Test			900
16	Water absorption, swelling, etc (for each)			700
17	Acoustic Properties			
i	Sound absorption co-efficient	-	50 x 50	5000
ii	Transmission loss co-efficient	-	50 x 50	5000

Note: Facilities for testing various other materials for conformity to relevant I.S.Specifications are also available. Details will be furnished on request. Testing of samples as per other specifications will also be carried out subject to availability of facilities.

II CHEMICALS

1	Resin and adhesives			
a	Identification of resin used in plywood using spot test			550
b	PVAc adhesive	4835	0.5 kg	3250
c	Resin for plywood	848	1 kg	3000
2	Extender for synthetic resins			
		1508	1 kg	5550
a	Fineness of granules	-do-	250g	1000
b	Moisture content	-do-	250g	500
c	Ash content	-do-	250g	1500
d	Fat content	-do-	250g	1000
e	Nitrogen content	-do-	250g	2000
f	Acidity	-do-	250g	500

Sl. No.	Test Material	I.S. Specification No.	Minimum size of sample cm x cm	Test Charges per sample Rs.
3	Formaldehyde solution			
a	Acidity	3321	250 ml	500
b	Ash content	-do-	-do-	1500
c	Aldehyde content	-do-	250 ml	1000
d	Iron content	-do-	-do-	1000
e	Methanol content	-do-	-do-	2000
4	Phenol			
a	Phenol content	538	250 g	2150
b	Crystallizing point	-do-	-do-	500
5	Urea			
a	Total Nitrogen content	5406	-do-	2150
b	Moisture	-do-	-do-	500
c	Residue on ignition	-do-	-do-	1000
d	pH of 10% solution	-do-	-do-	500
e	Melting point	-do-	-do-	500
6	Paraformaldehyde			
a	Aldehyde content	5271	250 g	1000
b	Ash content	-do-	-do-	1500
c	Acidity	-do-	-do-	500
7	Copper sulphate			
a	Copper content	261	250 g	1000
b	Insoluble matter of copper sulphate in water	-do-	-do-	1000
c	pH	-do-	-do-	500
d	Soluble iron & aluminium compounds	-do-	-do-	1500

Sl. No.	Test Material	I.S. Specification No.	Minimum size of sample cm x cm	Test Charges per sample Rs.
8	Ammonium chloride (Technical & pure)			
a	Moisture	1113	250 g	500
b	Ammonium chloride (% by weight dry basis)	-do-	-do-	2000
c	pH	-do-	-do-	500
d	Matter insoluble in water	-do-	-do-	1000
g	Percent of ammonia in liquor ammonia	799	-do-	1500
10	Base Paper/Resin impregnated Paper	12823/14587	30 x 30	500
11	Formaldehyde content in Plywood/Particle board (Sample should be sealed in polyethelene)	13745	30 x 30	2500
12	Total nitrogen content in urea/melamine	1781/5406		2150

Note:- Service Taxes Extra

III.GENERAL INFORMATION

1. Request for testing should be addressed to the Director, giving full details.
2. Materials along with the indent may be handed over at the Institute on all working days Monday through Friday between 9 A.M. and 4 P.M. If they are sent by post, rail, road or air they should be on door delivery basis and freight paid. Otherwise all expenses incurred in connection with collection and handling of materials including demurrage, if any, have to be borne by the customers.
3. Materials, unless otherwise requested by the customer, will be tested as per the latest version of the Specification.
4. Charges in full for testing should be paid in advance by crossed Demand Draft drawn on any nationalised bank in Bangalore, in favour of the Director, IPIRTI.
5. For testing purposes, samples damaged or spoiled, primer/varnish coated or without sufficient details are not accepted. Such cases may result in prolonged correspondence and delay in taking up the testing work.
6. Tests will normally be carried out on first cum first serve basis and would take approximately 4-8 weeks for completion and issue of test reports depending on the materials.
7. Test reports will be sent by Registered Post, only after receipt of test charges.
8. Facilities are also available at kolkata field station Officer in charge may be contacted for availing the same.

For further details please contact:

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