

IPIRTI TESTING CHARGES

Effective from 1st April 2020



**Center for Testing and Evaluation of
Wood Composites(CENTEC)**



Indian Plywood Industries Research and Training Institute

(Autonomous Body under the Ministry of Environment, Forest & Climate Change, Govt. of India)

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Sl. No.	Test Material	I.S. Specification No.	Minimum size of sample cm x cm	Current Test Charges from April 2017	Test Charges from 1 st April 2020 GST @ 18% is to be added
	A. Wood				
1	Classification of Timber including Identification of species	4021	1mtr x15 x 10	2,940	8,500
2	Identification of species	399	15 x 10	1,470	5,000
3	Moisture content determination.	1708 (partI)/287	15 x 10	600	1,000
4	Thickness			600	1,000
5	Spot test for Preservative treatment (Treatment given such as boron compounds/ CCA/ACC/CCB)	401/5539/ 121-20/1920	15 x 10	780	1000
6	Depth of Penetration of Preservative Chemical			780	1000
7	Quantitative estimation of preservative chemicals a) CCA/CCB/ACC 2753(Pt. 1) b) Boron 2753(Pt. 1) (Treatment given should be specified)	401/2753	15 x 10 15 x 10	11,670 4,320	14,000 5,200
8	Non Coniferous timber in converted form for general	5966		3,460	4,200
9	Preservative treated & seasoned sawn timber from rubberwood a) CCA/CCB/ACC 2753 (part I) b) Boron 2753 (part II)	14960		11,670 4,320	14,000 5,200
10	Specific Gravity / Density	1734/1708	1 plank	780	1,000
11	Face Veneer / Core Veneer (ID, MC & Thickness)	303		2,680	6,800
12	Seasoning	1141		1,300	2,500
13	Weight			780	1,000
14	Cracks			780	1,000
15	Warping			780	1,000
16	Knots			780	1,000
17	Strength of finger jointed teak section against clean teak wood	1708		4,320	5,200
18	Block Shear Strength	1708		1,730	2,750

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B. PLYWOOD					
1	Commercial plywood	303	Full Size	5,790	8,000
2	Structural Plywood	10701	-do-	20,740	25,000
3	Shuttering Plywood	4990	-do-	22,470* 10,800**	27,000* 13,000**
4	Marine Plywood	710	-do-	21,340* 9,680**	26,000* 12,000**
5	Aircraft plywood				
	i) Medium strength	709	-do-	9,680	12,000
	ii) High strength	4859	-do-	12,700	15,300
6	Fire retardant plywood including CI 12.2	5509	-do-	7,520	9,000 17,000
a	Flammability	5509		2,160	2,600
b	Rate of Burning	5509		2,160	2,600
c	Flame Penetration	5509		2,040	2,500
7	Decorative plywood	1328	-do-	4,590	5,500
8	Visual Defects in Veneer (face)	303	-do-	600	1,000

* Includes preservative estimation

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C. PARTICLE BOARD					
1	Wood particle board	3087	Full size board	11,840	20,200
2	Veneered particle board including Formaldehyde emission	3097	-do-	7,520	15,000
3	Rice husk particle board including Formaldehyde emission	3097	-do-	7,520	15,000
4	Cement bonded particle board	14276	-do-	13,820	16,600
5	Prelaminated particle board including Formaldehyde emission	12823	-do-	14,440	23,300
6	Prelaminated Cement Bonded Particle Board	15786-2008	-do-	20,740	25,000
7	High density particle board including Formaldehyde emission	3478	-do-	9,160	17,000
8	P.B. Composition		-do-	5,190	6,300
9	Internal Bonding Test	2380	-do-	1,730	2,100
10	Thickness of Laminate			600 per side	1000 per side
11	Grade Test			2,860	3,500
D. FIBRE BOARD					
1	Medium density fibre board (MDF) including Emission test	12406	-do-	11,850	16,500
2	Prelaminated MDF including Emission test	14587	-do-	18,760	26,000
E. HARDBOARD					
1	Fibre hardboard	1658	-do-	5,190	6,300

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F. FLUSH DOOR					
1	Flush door shutter	2202(Pt I)	Full size door 2 Nos.	18,930	25,000
1a	Flush door shutter acceptance tests only as per	IS:2202, Part I	1 Door	5,190	6,300
2	Hollow Core Flush door	2191	-do-	18,840	25,000
3	Type tests for door Shutter	4020	Full size Door 2 Nos.	18,840	25,000
4	Type test for door shutter - Individual Tests				
i	Dimensional & Squareness test	4020	Full size door	780	1,000
ii	General flatness test	-do-	-do-	780	1,000
iii	Local Planeness test	-do-	-do-	780	1,000
iv	Impact indentation test	-do-	-do-	2,160	2,600
v	Flexure test	-do-	-do-	2,160	2,600
vi	Edge loading test	-do-	-do-	2,160	2,600
vii	Shock resistance	-do-	-do-	3,460	4,200
viii	Buckling test	-do-	-do-	2,160	2,600
ix	Slamming test	-do-	-do-	1,300	1,600
x	Misuse test	-do-	-do-	2,160	2,600

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xi	Varying Humidity	-do-	-do-	6,050	7,300
xii	End immersion test	-do-	-do-	1,300	1,600
xiii	Knife test	-do-	-do-	780	1,000
xiv	Glue adhesion test	-do-	-do-	950	1,200
xv	Screw withdrawal test	-do-	-do-	1,730	2,100
G. PANEL DOORS SHUTTER					
a)	As per IS:1003 (Part 1)	1003 (Part I)	Full size door	18,840	22,600
b)	Moulded Panel Door				
	i) Panel Door	IS15380	-do-	18,930	23,000
	ii) Skin	IS15380	-do-	11,840	14,200
H. OTHER PANEL PRODUCTS					
1	Blockboard	1659	-do-	9,080	11,000
2	Bamboo mat board (BMB)	13958	-do-	6,480	8,000
3	Compreg (General Purpose)	3513 (Part I)	-do-	13,830	16,600
4	BMCS	IS15476	Full Sheet	15,560	19,000
5	BMVC	14588-1999	-do-	15,560	19,000
6	Coir Veneer Board	14842	Full size	5,790	25,000
7	Laminated Veneer Lumber	14616	-do-	20,740	25,000

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I. Fire Rated Door Testing (On Project Mode – MoU to be signed)					
	Upto 30 Minutes Rating Upto 60 Minutes Rating	BS 476 Part 20 & 22 / IS 3614 -do-	Full size door with all hardware fitted in frame	1,45,000	1,45,000 1,75,000
	Upto 90 Minutes Rating Upto 120 Minutes Rating			2,20,000	2,20,000 2,65,000
J. Individual Tests					
1	Density	1734/1708	30 x 30	780	1,000
2	Modulus of rupture / Bending Strength	-do-	100 x 30	1,730	2,750
3	Modulus of elasticity	-do-	100 x 30	1,730	2,750
4	Tensile strength	-do-	50 x 30	2,160	2,750
5	Compressive strength	-do-	50 x 30	1,730	2,750
6	Nail/Screw holding power	-do-	50 x 30	1,730	2,750
7	Hardness	1734/1708	50 x 30	1730	2750
8	Thermal conductivity	3346	100 x 100	5,190	6,250
9	Termite Resistance	4833	30 x 30	5,880	8,000
10	Fungal resistance	4873	30 x 30	5,880	8,000
11	Borer resistance Natural infestation	-do-	30 x 30	5,880	8,000
12	Abrasion resistance test	-do-	30 x 30	3,460	4,200
13	Aging			600	1,000
14	Boiling			600	1,000
15	Water Resistance for Plywood	303/710/4990		1,900	2,750
16	Solid Contents			1,730	2,750
17	Flow Time			1,730	2,750
18	Gel Time			1,730	2,750

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19	Dimensional Tests (Windows)		Full size window	780	1,000
20	Glue test for joints	4021 (part II)		950	2,750
21	Mycological Test	1734	150 x 100	2,000	2,750
22	Water absorption, swelling, etc (for particle board)	2380	-do-	1,220	2,750
23	Acoustic Properties				
i	Sound absorption coefficient	10420	50 x 50	8,640	10,500
ii	Transmission loss coefficient	-	50 x 50	8640	10,500
24	Load bearing capacity test	15476		4,320	5,200
25	Impermeability test	15476		1,440	2,750
26	Falling weight test	15476		1,440	2,750
27	IZOD Impact Test			2,160	2,600
28	Glue Shear Strength – Dry State			1,730	2,100
29	Glue Shear Strength – Wet State			1,730	2,100

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.

K CHEMICALS

1	Resin and adhesives				
a	Identification of resin used in plywood			950	1,000
b	PVAc adhesive	4835	0.5 kg	5,620	8,000
c	Resin for plywood	848	1 kg	5,190	7,000
2	Extender for synthetic resins				
a	Fineness of granules	-do-	250g	1,730	2,100
b	Moisture content	-do-	250g	870	1,100
c	Ash content	-do-	250g	2,600	3,200
d	Fat content	-do-	250g	1,730	2,100
e	Nitrogen content	-do-	250g	3,460	4,200
f	Acidity	-do-	250g	870	1,100

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3	Formaldehyde Emission				
a	Perforated Method	13745		4,320	6,000
b	Chamber Method	EN 717-I		26,700	37,500
4	Maida	1508		9,360	11,250
5	Formaldehyde solution				
a	Acidity	3321	250 ml	870	1,100
b	Ash content	-do-	-do-	2,600	3,200
c	Aldehyde content	-do-	-do-	1,730	2,100
d	Iron content	-do-	-do-	1,730	2,100
e	Methanol content	-do-	-do-	3,460	4,200
6	Phenol				
a	Phenol content	538	-do-	3,720	5,000
b	Crystallizing point	-do-	-do-	870	1,100
7	Urea				
a	Total Nitrogen content	5406	-do-	3,720	4,500
b	Moisture	-do-	-do-	870	1100
c	Residue on ignition	-do-	-do-	1,730	2,100
d	pH of 10% solution	-do-	-do-	870	1,100
e	Melting point	-do-	-do-	870	1,100
8	Paraformaldehyde				
a	Aldehyde content	5271	250 g	1,730	2,100
b	Ash content	-do-	-do-	2,600	3,200
c	Acidity	-do-	-do-	870	1,100
9	Copper sulphate				
a	Copper content	261	250 g	1,730	2,100
b	Insoluble matter of copper sulphate in water	-do-	-do-	1,730	2,100
c	pH	-do-	-do-	870	1,100
d	Soluble iron & aluminium compounds	-do-	-do-	2,600	3,200

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10	Ammonium chloride (Technical & pure)				
a	Moisture	1113	250 g	870	1,100
b	Ammonium chloride (% by weight dry basis)	-do-	-do-	3,460	4,200
c	pH	-do-	-do-	870	1,100
d	Matter insoluble in water	-do-	-do-	1,730	2,100
11	Percent of ammonia in liquor ammonia	799	-do-	2,600	3,200
12	Base Paper/Resin impregnated Paper		30 x 30	870	1100
13	Formaldehyde content in Plywood/Particle board (Sample should be sealed in polyethelene)	13745	30 x 30	4,320	6,000
14	Total nitrogen content in urea/melamine		500gm	3,720	4,500
15	Volatile Compunds (VoC)			1,500	1,800
16	Toxicity Index			MoU	MoU
17	Fiber Analysis				
a	Fiber Length, Width of Fiber, Curl of Fiber, Fiber Coarseness and Shives			3,000	3,600
L. Weathering Studies					
1	UV Weathering			120 per hour	145 per hour
2	Xenon			MoU	MoU

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 nationalized bank in Bangalore, in favour of the **IPIRTI CORPUS FUND** payable at Bangalore.
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. Fire rated doors may be submitted fitted in frame with all hardwares in properly packed box. For door size more than 8ft X 4ft, the masonry work and fixing of door to masonry has to be arranged by the customer.
7. 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. Fire door testing would take around 6-9 months' time based on samples in queue.
8. Duration of Chamber Method Formaldehyde Emission depends on samples already in queue and time taken for samples to arrive at steady state.
9. Duration of termite test is 3 years, for Borer is 3 years and Fungus is 3 months.
10. Test reports will be sent by Registered Post, only after receipt of test charges.
11. Facilities are also available at kolkata field station Officer in charge may be contacted for availing the same.

For further details please contact:

The Director,

Indian Plywood Industries Research & Training Institute,

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