

# Quality And Accreditation Institute Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



## Certificate of Accreditation

### **Eco Paryavaran Laboratories and Consultants Private Limited**

Eco Bhawan, E-207, Industrial Area, Phase VIII-B (Sector 74)  
Mohali- 160071, Punjab, India

has been assessed and accredited in accordance with the Standard  
**ISO/IEC 17025:2017**

“General Requirements for the Competence of Testing and Calibration Laboratories”  
In the field of  
**Testing**

This certificate remains valid for the Scope of Accreditation as specified  
in the annexure subject to continued compliance to the above standard &  
any other requirements specified by QAI.



**QAI/CIA/TL/2026/0161**

Valid from: 05 March 2026

**Dr. Bhupendra Kumar Rana**  
Chief Executive Officer

Valid until: 04 March 2028

**Prof. Vikram Kumar**  
Chair, CIA



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Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Materials</b>		
1.	Concrete Paving Blocks	Individual Length	IS 15658-2021 Annexure-B (Clause B 1.3.1)
2.		Average Length	Clause 7.2 IS 15658-2021 Annexure-B
3.		Individual Width	IS 15658-2021 Annexure-B (Clause B 1.3.1)
4.		Average Width	Clause 7.2 IS 15658-2021 Annexure-B
5.		Individual Thickness	IS 15658-2021 Annexure-B (Clause B 1.3.2)
6.		Average Thickness	Clause 7.2 of IS 15658 Annexure-B
7.		Aspect Ratio Individual	IS 15658-2021 Annexure-B (Clause B 1.3.3)
8.		Aspect Ratio Average	Clause 7.2 of IS 15658 Annexure-B
9.		Arris/Chamfer Width Individual	IS 15658-2021 Annexure-B (Clause B 2)
10.		Arris/Chamfer Width Average	Clause 7.2 of IS 15658 Annexure-B
11.		Arris/Chamfer Depth Individual	IS 15658-2021 Annexure-B (Clause B 2)

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1 of 24

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	<b>Building, Infrastructure &amp; Construction Materials</b>		
12.	Concrete Paving Blocks	Arris/Chamfer Depth Average	Clause 7.2 of IS 15658 Annexure-B
13.		Plan Area, Asp Individual	IS 15658-2021 Annexure-B (Clause B 3)
14.		Plan Area, Asp Average	Clause 7.2 of IS 15658 Annexure-B
15.		Individual Wearing Face area	IS 15658-2021 Annexure-B (Clause B 3)
16.		Average Wearing Face area	Clause 7.2 of IS 15658 Annexure-B
17.		Ratio of wearing face area and plan area, Individual	Clause 7.2 of IS 15658 Annexure-B
18.		Ratio of wearing face area and plan area, Average	Clause 7.2 of IS 15658 Annexure-B
19.		Deviation from Squareness Individual	IS 15658-2021 Annexure-B (Clause B 4)
20.		Deviation from Squareness Average	Clause 7.2 of IS 15658 Annexure-B
21.		Thickness of wearing layer Individual	Clause 7.2 of IS 15658 Annexure-B
22.		Thickness of wearing layer Average	Clause 7.2 of IS 15658 Annexure-B

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2 of 24

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	<b>Building, Infrastructure &amp; Construction Materials</b>		
23.	Concrete Paving Blocks	Water Absorption -Individual	IS 15658 Annex-C
24.		Water Absorption -Average	IS 15658 Annex-C
25.		Compressive strength -Individual	IS 15658 Annex-D
26.		Compressive strength -Average	IS 15658 Annex-D
27.		Abrasion Resistance - Dry, Individual	IS 15658 Annex-E
28.		Abrasion Resistance - Dry, Average	IS 15658 Annex-E
29.		Abrasion Resistance –Wet, Individual	IS 15658 Annex-E
30.		Abrasion Resistance –Wet, Average	IS 15658 Annex-E
31.		Tensile Splitting Strength -Individual	IS 15658 Annex-F
32.		Tensile Splitting Strength -Average	IS 15658 Annex-F
33.		Failure load -Individual	IS 15658 Annex-F
34.		Failure load -Average	IS 15658 Annex-F
35.		Flexural Strength -Individual	IS 15658 Annex-G
36.		Flexural Strength -Average	IS 15658 Annex-G
37.		Breaking load – Individual	IS 15658 Annex-G
38.		Breaking load – Average	IS 15658 Annex-G

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3 of 24

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Materials</b>		
39.	Coarse Aggregate	Elongation Index	IS: 2386 (Part-1)
40.		Flakiness Index	IS: 2386 (Part-1)
41.		Combined Elongation Index & Flakiness Index	IS: 2386 (Part-1)
42.	Coarse Aggregate/Fine Aggregate	Sieve Analysis (80 mm, 63 mm, 50 mm, 40 mm, 31.5 mm, 25 mm, 20 mm, 16mm, 12.5 mm, 10 mm, 6.3mm, 4.75 mm, 2.36 mm, 1.18 mm, 0.6 mm)	IS: 2386 (Part-1)
43.	Coarse Aggregate	10% Fines Value	IS: 2386 (Part-4)
44.		Impact Value	IS: 2386 (Part-4)
45.		Abrasion Value	IS: 2386 (Part-4)
46.		Crushing Value	IS: 2386 (Part-4)
47.		Material Finer than 75 Micron IS Sieve	IS: 2386 (Part-1)
48.	Coarse Aggregate/Fine Aggregate	Soft Fragments	IS: 2386 (Part-1)
49.		Organic Impurities	IS: 2386 (Part-2)
50.		Coal and lignite	IS: 2386 (Part-2)
51.		Bulk Density (Loose State)	IS 2386 (Part-3)

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4 of 24

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Materials</b>		
52.	Coarse Aggregate/Fine Aggregate	Bulk Density (Rodded State)	IS 2386 (Part-3)
53.		Specific Gravity	IS 2386 (Part-3)
54.		Clay Lumps	IS 2386 (Part-3)
55.		Soundness by Sodium Sulphate	IS 2386 (Part-5)
56.		Soundness by Magnesium Sulphate	IS 2386 (Part-5)
57.		Total % of all Deleterious Material (Except Mica)	IS 383
58.		Water Absorption	IS 2386 (Part-3)
59.		Timber	Moisture Content
60.	Moisture Content		IS 1708 (Part 1)
61.	Synthetic Resin Adhesives for Plywood (Phenolic, Amino plastic and Bio-Materials Based)	Visual examination	IS 848
62.		Forcible separation of Plies	IS 1734 (Part 5)
63.		Cyclic test (BWP grade) Six Cycle, each cycle consisting of 8 h boiling in water and thereafter drying at $65 \pm 2$ °C for 16 hrs	Clause 7.3 of IS 848
64.		Cyclic test (BWR grade) Three Cycle, each cycle consisting of 8 h boiling in water and thereafter drying at $65 \pm 2$ °C for 16 hrs	Clause 7.3 of IS 848

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5 of 24

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Materials</b>		
65.	Synthetic Resin Adhesives for Plywood (Phenolic, Amino plastic and Bio-Materials Based)	Cyclic test (MR grade) Three Cycle, each cycle consisting of 8 hrs boiling in water and thereafter drying at 65 ±2 °C for 8 hrs	Clause 7.3 of IS 848
66.	Commercial Veneer	Classification by appearance	Clause 4 of IS 14315
67.		Blister	IS 10701
68.		Checks	IS 10701
69.		Discolouration	Clause 4, 6 and 7 of IS 14315
70.		Dote	Clause 4, 6 and 7 of IS 14315
71.		Insect hole	Clause 4, 6 and 7 of IS 14315
72.		Joints	Clause 4, 6 and 7 of IS 14315
73.		Knots (Dead)	Clause 4, 6 and 7 of IS 14315:1995
74.		Pin knots (dead)	Clause 4, 6 and 7 of IS 14315
75.		Pin knots (live)	Clause 4, 6 and 7 of IS 14315
76.	Knots (tight)	Clause 4, 6 and 7 of IS 14315	
77.	Patches	Clause 4, 6 and 7 of IS 14315	



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Materials</b>		
78.	Commercial Veneer	Splits	Clause 4, 6 and 7 of IS 14315
79.		Swirl	Clause 4, 6 and 7 of IS 14315
80.		Thickness	Clause 9.3 of IS 14315:1995
81.		Length	Clause 9.4.1 of IS 14315
82.		Width	Clause 9.4.1 of IS 14315
83.		Squareness	Clause 9.4.2 of IS 14315
84.		Edge straightness	Clause 9.4.3 of IS 14315:1995
85.		Veneer/Core/Cross band	Slope
86.	Plywood for General Purpose	Classification by appearance	Clause 5.1 of IS 303
87.		Blister	Clause 5.2 of IS 303
88.		Checks	Clause 5.2 of IS 303
89.		Discolouration	Clause 5.2 of IS 303
90.		Dot	Clause 5.2 of IS 303
91.		Insect hole	Clause 5.2 of IS 303
92.		Joints	Clause 5.2 of IS 303
93.		Knots (Dead)	Clause 5.2 of IS 303

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7 of 24

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Mechanical Testing				
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
	<b>Building, Infrastructure &amp; Construction Materials</b>			
94.	Plywood for General Purpose	Pin knots (dead)	Clause 5.2 of IS 303	
95.		Pin knots (live)	Clause 5.2 of IS 303	
96.		Knots (tight)	Clause 5.2 of IS 303	
97.		Patches	Clause 5.2 of IS 303	
98.		Splits	Clause 5.2 of IS 303	
99.		Swirl	Clause 5.2 of IS 303	
100.		Length Plywood for General Purpose		Clause 8.1 of IS 303
		Plywood for General Purpose		
101.		Width		Clause 8.1 of IS 303
102.		Thickness		Clause 8.2 of IS 303
103.	Squareness		Clause 8.3 of IS 303 Annex C	
104.	Edge straightness		Clause 8.3 of IS 303 Annex C	
105.	Workmanship & Finish		Clause 9 of IS 303	
106.	Glue adhesion-Water Resistance test		IS 1734 (Part 5)	

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8 of 24

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Materials</b>		
107.	Plywood for General Purpose/ Marine Plywood / Plywood for concrete shuttering works / Structural Plywood	Mycological Test	IS 1734 (Part 7)
108.	Plywood for General Purpose	Glue Adhesion -Mycological Test	IS 1734 (Part 5)
109.	Plywood for General Purpose/ Marine Plywood /Veneered Plywood /Plywood for concrete shuttering works /Commercial Veneer	Moisture content	IS 1734 (Part 1)
110.	Plywood for General Purpose / Marine Plywood	Static bending Strength-Modulus of Elasticity-Along-Average	IS 1734 (Part-11)
111.	/ Plywood for concrete shuttering works /	Static bending Strength-Modulus of Elasticity-Along-Minimum	IS 1734 (Part-11)
112.	Structural Plywood	Static bending Strength-Modulus of Elasticity-Across-Average	IS 1734 (Part-11)
113.		Static bending Strength-Modulus of Elasticity-Across-Minimum	IS 1734 (Part-11)
114.		Static bending Strength-Modulus of Rupture-Along-Average	IS 1734 (Part-11)

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9 of 24

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Materials</b>		
115.	Plywood for General Purpose / Marine Plywood	Static bending Strength-Modulus of Rupture -Along-Minimum	IS 1734 (Part-11)
116.	/ Plywood for concrete shuttering works /	Static bending Strength-Modulus of Rupture -Across-Average	IS 1734 (Part-11)
117.	Structural Plywood	Static bending Strength-Modulus of Rupture -Across-Minimum	IS 1734 (Part-11)
118.	Marine Plywood	Length	Clause 6.1 of IS 710
119.		Width	Clause 6.1 of IS 710
120.		Thickness	Clause 6.2 of IS 710
121.		Squareness	Clause 6.3 of IS 710 Annex C
122.		Edge Straightness	Clause 6.3 of IS 710 Annex C
123.		Workmanship & Finish	Clause 7 of IS 710
124.		Marine Plywood / Plywood for concrete shuttering works	Glue adhesion in dry state -Glue shear Strength
125.	Glue adhesion in dry state - Adhesion of Plies		IS 1734 (Part 5)
126.	Marine Plywood	Water Resistance Test-Glue shear Strength	IS 1734 (Part 4)
127.	Marine Plywood /Veneered Plywood	Water Resistance Test-Adhesion of Plies	IS 1734 (Part 5)

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10 of 24

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	<b>Building, Infrastructure &amp; Construction Materials</b>		
128.	Marine Plywood /Plywood for concrete shuttering works	Mycological-Adhesion of Plies	IS 1734 (Part 5)
129.	Marine Plywood	Mycological -Glue Sheer Strength	IS 1734 (Part 4)
130.	Marine Plywood /Plywood for concrete shuttering works/ Structural Plywood	Wet bending Strength-Modulus of Elasticity-Along the Face Grain-Average	IS 1734 (Part-11)
131.		Wet bending Strength-Modulus of Elasticity-Along the Face Grain- Minimum	IS 1734 (Part-11)
132.		Wet bending Strength-Modulus of Elasticity-Across the Face Grain-Average	IS 1734 (Part-11)
133.		Wet bending Strength-Modulus of Elasticity-Across the Face Grain-Minimum	IS 1734 (Part-11)
134.		Wet bending Strength-Modulus of Rupture-Along the Face Grain-Average	IS 1734 (Part-11)
135.		Wet bending Strength-Modulus of Rupture -Along the Face Grain-Minimum	IS 1734 (Part-11)
136.		Wet bending Strength-Modulus of Rupture -Across the Face Grain-Average	IS 1734 (Part-11)
137.		Wet bending Strength-Modulus of Rupture -Across the Face Grain-Minimum	IS 1734 (Part-11)



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Materials</b>		
138.	Veneered Plywood	Surface requirements	Clause 7 of IS 1328
139.		Length	Clause 8.1 of IS 1328
140.		Width	Clause 8.1 of IS 1328
141.		Thickness	Clause 8.2 of IS 1328
142.		Squareness	Clause 8.3 of IS 1328 Annex B
143.		Edge straightness	Clause 8.3 of IS 1328 Annex B
144.		Workmanship & Finish	Clause 9 of IS 1328
145.	Plywood for concrete shuttering works	Length	Clause 7.1 of IS 4990
146.		Width	Clause 7.1 of IS 4990
147.		Thickness	Clause 7.2 of IS 4990
148.		Edge Straightness	Clause 7.3 of IS 4990 Annex C
149.		Squareness	Clause 7.3 of IS 4990 Annex C
150.		Workmanship & Finish	Clause 8 of IS 4990
151.		Resistant to water -Glue Shear Strength	IS 1734 (Part 4)

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12 of 24

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152.	Plywood for concrete shuttering works	Resistant to water -Adhesion of Plies	IS 1734 (Part 5)
153.		Mycological Test -Glue shear Strength	IS 1734 (Part 4)
154.	Plywood for concrete shuttering works / Structural Plywood / Marine Plywood	Tensile Strength- in the direction parallel to the grain	IS 1734 (Part 9)
155.		Tensile Strength-in the direction at right angle to the grain	IS 1734 (Part 9)
156.	Plywood for concrete shuttering works/ Marine Plywood	The sum of the tensile strengths in both directions	IS 1734 (Part 9)
157.	Structural Plywood	Length	Clause 8.1 of IS 10701
158.		Width	Clause 8.1 of IS 10701
159.		Thickness	Clause 8.2 of IS 10701
160.		Straightness	Clause 8.3.1 of IS 10701 Annex C
161.		Squareness	Clause 8.3.1 of IS 10701 Annex C
162.		Workmanship & Finish	Clause 8.4 of IS 10701
163.		Glue Shear Strength in dry state	IS 1734 (Part 4)



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	<b>Building, Infrastructure &amp; Construction Materials</b>		
164.	Structural Plywood	Resistance to water-average failing load	IS 1734 (Part 6)
165.		Resistance to Micro-organisms	IS 1734 (Part 7)
166.		Compressive strength- along the grain	IS 1734 (Part 10)
167.		Compressive strength- across the grain	IS 1734 (Part 10)
168.		Panel shear strength	IS 1734 (Part 13)
169.		Modulus of rigidity	IS 1734 (Part 14)
170.		Rolling shear strength	IS 10701 Annex E
171.		Block Boards	Permissible Defects in commercial Grade
172.	Permissible Defects in Decorative Veneers Grade		IS 1328
173.	Length		IS 1659
174.	Width		IS 1659
175.	Thickness		Clause 7.1 of IS 1659 Annex D
176.	Variation in thickness on a Board		Clause 7.1 of IS 1659 Annex D
177.	Edge Straightness		Clause 7.3 of IS 1659 Annex D

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14 of 24

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Materials</b>		
178.	Block Boards	Squareness	Clause 7.3 of IS 1659 Annex D
179.		Dimensional Changes Caused by Humidity-Change in Length at 90% RH	Clause 9.2.1 of IS 1659, Annex E
180.		Dimensional Changes Caused by Humidity-Change in Length at 40% RH	Clause 9.2.1 of IS 1659, Annex E
181.		Dimensional Changes Caused by Humidity-Change in Thickness at 90% RH	Clause 9.2.1 of IS 1659, Annex E
182.		Dimensional Changes Caused by Humidity-Change in Thickness at 40% RH	Clause 9.2.1 of IS 1659, Annex E
183.		Dimensional Changes Caused by Humidity-Delamination	Clause 9.2.1 of IS 1659, Annex E
184.		Dimensional Changes Caused by Humidity-Change in Local planeness	Clause 9.2.1 of IS 1659, Annex E
185.		Resistance to water	Clause 9.2.2 of IS 1659, Annex F
186.		Adhesion of Plies	Clause 9.2.3 of IS 1659, Annex G
187.		Mycological Test	Clause 9.2.4 of IS 1659 Annex H
188.	Modulus of Rupture- Average	Clause 9.2.5 of IS 1659 Annex J	

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15 of 24

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

**Eco Paryavaran Laboratories and Consultants Private Limited**

Eco Bhawan, E-207, Industrial Area, Phase VIII-B (Sector 74)

Mohali-160071, Punjab, India

QAI/CIA/TL/2026/0161

Valid from: 05 March 2026

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Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Materials</b>		
189.		Modulus of Rupture- Minimum individual	Clause 9.2.5 of IS 1659 Annex J
190.	Block Boards	Modulus of Elasticity- Average	Clause 9.2.5 of IS 1659 Annex J
191.		Modulus of Elasticity - Minimum individual	Clause 9.2.5 of IS 1659 Annex J
192.		Spot Test	Clause 9.2.6 of IS 1659 Annex K
193.	Wooden Flush Doors	Workmanship and Finish	Clause 9.1 of IS 2202 (P-1)
194.	Shutters (Solid Core Type)	Workmanship and Finish	Clause 9.2 of IS 2202 (P-1)
195.		Workmanship and Finish (Non-decorative Type)	IS 710
196.		Workmanship and Finish (Decorative type)	IS 1328
197.		Width	IS 4020 (Part 2)

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16 of 24

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Materials</b>		
198.	Wooden Flush Doors	Height	IS 4020 (Part 2)
199.	Shutters (Solid Core Type)	Thickness	IS 4020 (Part 2)
200.	IS 2202 (Part 1)/Wooden Flush Doors Shutters (Solid	Variation in thickness	IS 4020 (Part 2)
201.	Core Type) IS 2202 (Part	Squareness	IS 4020 (Part 2)
202.	2)/Wooden Flush Doors Shutters (Cellular, Hollow	General flatness test (Twist, Cupping, Warping)	IS 4020 (Part 3)
203.	and Tubular Core Type) IS	Local planeness test	IS 4020 (Part 4)
204.	2191 (Part 1)/Wooden Flush Door Shutters	Impact indentation test General Effect	IS 4020 (Part 5)
205.	(Cellular, Hollow and Tubular Core) IS 2191 (Part	Impact indentation test-Depth of Indentation	IS 4020 (Part 5)
206.	2)/Moulded High-Density Fibre (HDF) Panelled Door	Flexure Test-Deflection at maximum load of Length	IS 4020 (Part 6)
207.	Shutters	Flexure Test-Deflection at maximum load of width	IS 4020 (Part 6)
208.		Flexure Test - Residual Deflection	IS 4020 (Part 6)
209.		Edge loading test- Deflection of edge	IS 4020 (Part 7)
210.		Edge loading test- Residual deflection	IS 4020 (Part 7)
211.		Edge loading test- Lateral buckling	IS 4020 (Part 7)

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17 of 24

# Quality And Accreditation Institute

## Centre for International Accreditation

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Materials</b>		
212.	Wooden Flush Doors Shutters (Solid Core Type)	Edge loading test- Residual buckling (after removal of load)	IS 4020 (Part 7)
213.	IS 2202 (Part 1)/Wooden Flush Doors Shutters (Solid Core Type)	Shock Resistance test (Light body, Heavy body impact)	IS 4020 (Part 8)
214.	IS 2202 (Part 2)/Wooden Flush Doors Shutters (Cellular, Hollow and Tubular Core Type)	Buckling resistance test-Residual deformation	IS 4020 (Part 9)
215.	IS 2202 (Part 2)/Wooden Flush Doors Shutters (Cellular, Hollow and Tubular Core Type)	Buckling resistance test-Initial deflection	IS 4020 (Part 9)
216.	IS 2191 (Part 1)/Wooden Flush Door Shutters (Cellular, Hollow and Tubular Core)	Slamming Test	IS 4020 (Part 10)
217.	IS 2191 (Part 1)/Wooden Flush Door Shutters (Cellular, Hollow and Tubular Core)	Misuse test	IS 4020 (Part 11)
218.	IS 2191 (Part 2)/Moulded High-Density Fibre (HDF) Panelled Door Shutters	Varying humidity test-Visible warping, Twisting or delamination	IS 4020 (Part 12)
219.	IS 2191 (Part 2)/Moulded High-Density Fibre (HDF) Panelled Door Shutters	Varying humidity test -General planeness	IS 4020 (Part 12)
220.	IS 2191 (Part 2)/Moulded High-Density Fibre (HDF) Panelled Door Shutters	Varying humidity test-Recovery of original size (Height)	IS 4020 (Part 12)
221.	IS 2191 (Part 2)/Moulded High-Density Fibre (HDF) Panelled Door Shutters	Varying humidity test-Recovery of original size (Width)	IS 4020 (Part 12)
222.	IS 2191 (Part 2)/Moulded High-Density Fibre (HDF) Panelled Door Shutters	Varying humidity test-Recovery of original size (Thickness)	IS 4020 (Part 12)
223.	IS 2191 (Part 2)/Moulded High-Density Fibre (HDF) Panelled Door Shutters	Varying humidity test-Recovery of original size (Diagonal Length)	IS 4020 (Part 12)
224.	IS 2191 (Part 2)/Moulded High-Density Fibre (HDF) Panelled Door Shutters	End immersion test	IS 4020 (Part 13)

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18 of 24

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Materials</b>		
225.		Knife test	IS 4020 (Part 14)
226.		Glue adhesion test	IS 4020 (Part 15)
227.		Screw withdrawal resistance test	IS 4020 (Part 16)
228.		Screw withdrawal -Visible Damage	IS 4020 (Part 16)
229.	Wooden Flush Doors Shutters (Solid Core Type)	Workmanship and Finish	Clause 9 of IS 2202 (P-2)
230.	Wooden Flush Doors Shutters (Cellular, Hollow and Tubular Core Type)	Workmanship and Finish	Clause 9.1 of IS 2191 (Part 1)
231.		Workmanship and Finish	Clause 9.2 of IS 2191 (Part 1)
232.		Workmanship and Finish (Commercial Type)	IS 710
233.		Workmanship and Finish (Decorative type)	IS 1328
234.		Workmanship and Finish	Clause 9 of IS 2191 (Part 2)
235.	Medium Density Particle Boards of Wood and other Lignocellulosic Materials for General Purpose	Finish	Clause 7 of IS 3087
236.	Medium Density Particle Boards of Wood and other	Length	IS 2380 (Part 2)
237.		Width	IS 2380 (Part 2)

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19 of 24

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Materials</b>		
238.	Lignocellulosic Materials for General Purpose /Medium density Fibre Boards of wood and Other	Thickness	IS 2380 (Part 2)
239.		Squareness	IS 2380 (Part 2)
240.		Edge Straightness	IS 2380 (Part 2)
241.	Lignocellulosic Materials for General Purpose/Veneered Medium Density Particle Boards from Wood and other Lignocellulosic Material	Density	IS 2380 (Part 3)
242.		Variation from mean density, percent	IS 2380 (Part 3)
243.		Moisture content	IS 2380 (Part 3)
244.		Modulus of rupture	IS 2380 (Part 4)
245.		Modulus of elasticity	IS 2380 (Part 4)
246.		Internal bond strength	IS 2380 (Part 5)
247.		24 h thickness swelling	IS 2380 (Part 17)
248.	Medium Density Particle Boards of Wood and other Lignocellulosic Materials for General Purpose /Medium density Fibre Boards of wood and Other Lignocellulosic Materials for General Purpose	Screw withdrawal strength (face)	IS 2380 (Part 14)
249.		Screw withdrawal strength (edge)	IS 2380 (Part 14)



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Materials</b>		
250.	Medium Density Particle Boards of Wood and other	Internal bond strength-Cyclic Test (Moisture resistance)	IS 2380 (Part 5)
251.	Lignocellulosic Materials for General Purpose /Veneered Medium Density Particle Boards from Wood and other Lignocellulosic Material /Medium density Fibre Boards of wood and Other Lignocellulosic Materials for General Purpose	Internal bond strength- Boil Test (Moisture resistance)	IS 2380 (Part 5)
252.	Veneered Medium Density Particle Boards from Wood and other Lignocellulosic Material	Finish	Clause 7 of IS 3097
253.	Medium density Fibre Boards of wood and Other Lignocellulosic Materials for General Purpose	Finish	Clause 7 of IS 12406



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Materials</b>		
254.	Moulded Panel Fibreboard Skin	Density	IS 2380 (Part 3)
255.		Moisture content	IS 2380 (Part 3)
256.		Water Absorption, After 2 hour and 24 hours	IS 2380 (Part 16)
257.		Swelling in water - General absorption, 24 hours (Thickness, Length, Width)	IS 2380 (Part 17)
258.		Swelling in water Surface absorption	IS 2380 (Part 17)
259.		Modulus of rupture	IS 2380 (Part 4)
260.		Internal bond strength- Wet state	IS 2380 (Part 5)
261.		Internal bond strength- Dry state (2 h boiling)	IS 2380 (Part 5)
262.		Immersion in boiling water for 4 hours	IS 15380
263.		Moulded High-Density Fibre (HDF) Panelled Door Shutters	Workmanship and Finish



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building Material</b>		
1.	Synthetic Resin Adhesives for Plywood (Phenolic, Amino plastic and Bio-Materials Based)	Acidity and alkalinity (pH)	Annex B of IS 848
2.	Marine Plywood	Retention of Preservative as Acid Copper Chrome (ACC) or Copper chrome Boron (CCB)	IS 2753 (Part 1 and Part 2)
3.	Plywood for concrete shuttering works	Retention of Preservative as Acid Copper Chrome (ACC or Copper chrome Boron (CCB)	IS 2753 (Part 1)
4.	Structural Plywood	Retention of Preservative	IS 2753 (Part 1 and Part 2)
5.	Plywood for General Purpose /Marine Plywood /Veneered Plywood /Plywood for concrete shuttering works /Structural Plywood /Medium Density Particle Boards of Wood and other Lignocellulosic Materials for General Purpose /Veneered Medium	Formaldehyde content	IS 13745

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23 of 24

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building Material</b>		
	Density Particle Boards from Wood and other Lignocellulosic Material /Medium density Fibre Boards of wood and Other Lignocellulosic Materials for General Purpose /Moulded Panel Fibre Board Skin		
6.	Coarse Aggregate/Fine Aggregate	Total alkali Content as Na <sub>2</sub> O	IS 4032
7.		Total Sulphate Content as SO <sub>3</sub>	BS EN 1744 Part 1
8.		Acid Soluble Chloride Content	BS EN 1744 Part 1
9.		Reduction in Alkalinity	IS 2386 (Part 7)
10.		Silica content	IS 2386 (Part 7)

