



HINDUSTAAN TEST HOUSE

Ref. No.....HTH/QA/0886

October 27, 2022.....

RIANGDO VENEERS PRIVATE LIMITED
Barapani Industrial Area
Opposite RKB Cement, Umlam
RI Bhol, Meghalaya, India-793103

**Subject: Consent for carrying out Tests on
Wooden Flush Door Shutters as per IS 2202 (P-1) 1999**

Dear Sir,

We would like to inform you that we have full facilities to undertake complete testing for wooden flush Door shutter including Varying Humidity Test:

S. No.	PRODUCT	RELEVANT IS	NATURE OF TEST(s)
01	Wooden Flush Door shutters	IS:2202(P-1):1999	Varying Humidity Test Flexure Test Shock Resistance Test Edge Loading Test Buckling Test Misuse Test

You are requested to send the samples(s) along with the test request letter for above mentioned tests as per IS 2202 (P-1) 1999 as and when you required.

Thanking You,

Yours Faithfully



For Hindustaan Test House



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TEST REPORT

Issued to: RIANGDO VENEERS PRIVATE LIMITED	Job No.: HTH/TR/22/090521
Address: Barapani Industrial Area Opposite RKB Cement, Umiam RI Bhoi, Meghalaya, India-793103	ULR No.: TC750922000001159F
Test Report As per IS: 2202(P1) 1999, Amendment No.-04	Issued date: 27.10.2022

PART A: PARTICULARS OF TEST ITEM

Sample description: Wooden Flush Door shutters (Solid Core Type) Core Block Board, Type Non-Decorative, BN, Non-Modular	Sample Quantity: Three
Declared values, if any: ---	Sample Size: 2044 x 899 x 35 mm
Date of receipt: 05.09.2022	Code No.: 10357136/2022/SS/7
Batch No. & Mfg date: Trial Batch No.01 & 18.08.2022	BIS seal: NA
Any other Information/Expiry date, if any: ---	IO's Signature: NA
Date of commencement of Testing: 12.09.2022	QR Code: 100000223689
Date of Completion of Testing: 27.10.2022	Encoded Code: 22MC05D

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

I. Mechanical Testing (Wood & Wood Products)

S. No.	Test Parameter(s)(Clause)	Unit	Result(s)/Observation (s)	Specified Values/ Tolerance	Test Method
1.	Workmanship and Finish (Cl. 9)	---	Satisfactory	Satisfactory	IS: 2202(P-1)-1999
2.	Stiles and Rails (Cl. 7.3)	---	No joint observed	Shall be made of one piece, without any joint	IS: 2202(P-1)-1999
3.	Dimensions and Squareness Test (Cl. 11.1)				IS: 4020(P2) 1998
	a) Height	mm	2045 (+1)	± 5	
	b) Width	mm	900 (+1)	± 5	
	c) Thickness	mm	35.43 (+0.43)	± 1	
	d) Squareness	mm	0.47	1 (Max.)	
	e) Thickness Variation	mm	0.38	0.8 (Max.)	

[Signature]
Analyst

[Signature]
Authorized Signatory

Terms & Conditions : 1. The above results relate only to the Item tested. 2. Sample(s) is/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; should not be used as evidence in the court. 5. Hindustaan Test House is an NABL accredited laboratory vide certificate number TC-7509 and BIS approved laboratory.



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Issued to: RIANGDO VENEERS PRIVATE LIMITED	Job No.: HTH/TR/22/090521
Address: Barapani Industrial Area Opposite RKB Cement, Umliam RI Bhol, Meghalaya, India-793103	ULR No.: TC750922000001159F
Issued date: 27.10.2022	
Test Report As per IS: 2202(P1) 1999, Amendment No.-04	

S. No.	Test Parameter(s)(Clause)	Unit	Result(s)/Observation (s)	Specified Values/ Tolerance	Test Method
4.	General Flatness Test (Cl. 11.2) a) Twist b) Cupping c) Warping	mm mm mm	3.02 2.92 2.64	6(Max.) 6(Max.) 6(Max.)	IS: 4020(P3)1998
5.	Local Planeness Test (Cl. 11.3) Maximum depth of deviation	mm	0.36	0.5 (Max.)	IS: 4020(P4) 1998
6.	Impact Indentation Test (Cl. 11.4) a) General Effect b) Maximum Indentation	--- mm	No abnormal defect seen 0.16	Shall have no abnormal defect 0.2 (Max.)	IS: 4020(P5) 1998
7.	Flexure Test (Cl. 11.5) a) Deflection at Maximum Load b) Residual Deflection	mm mm	45.16 4.24	<Width/15 <Max. Deflection/10	IS: 4020(P6) 1998
8.	Edge Loading Test (Cl. 11.6) a) Deflection at Maximum Load b) Residual Deflection c) Lateral Buckling during loading d) Residual Lateral Buckling after removal of load	mm mm mm mm	4.08 0.38 1.08 No residual lateral buckling observed	5 (Max.) 0.5 (Max.) 2 (Max.) Shall be no residual lateral buckling observed	IS: 4020(P7) 1998
9.	Shock Resistance Test (Cl. 11.7) a) When tested in accordance with Clause 2.1 of IS 4020 (Part-8) b) When tested in accordance with Clause 3.1 of IS 4020 (Part-8)	--- ---	No visible damage observed No permanent deformation and deterioration observed	Shall be no visible damage Should with stand without any significant permanent deformation and deterioration	IS: 4020(P8) 1998

Analyst
Analyst

Rakesh
Authorized Signatory

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Issued to: RIANGDO VENEERS PRIVATE LIMITED	Job No.: HTH/TR/22/090521
Address: Barapani Industrial Area Opposite RKB Cement, Umiam RI Bhoi, Meghalaya, India-793103	ULR No.: TC750922000001159F
Test Report As per IS: 2202(P1) 1999, Amendment No.-04	Issued date: 27.10.2022

S. No.	Test Parameter(s)(Clause)	Unit	Result(s)/Observation (s)	Specified Values/ Tolerance	Test Method
10.	Buckling Test (Cl. 11.8) a) General Effect b) Deflection at Maximum Load c) Residual Deformation	--- mm mm	No abnormal defect seen 43.24 3.97	Shall have no abnormal defect 50 (Max.) 5 (max.)	IS: 4020(P9) 1998
11.	Slamming Test (Cl. 11.9) When tested in accordance with 2.1 of IS: 4020 (Part-10)	---	No visible damage observed	Shall not have any visible damage	IS: 4020(P10) 1998
12.	Misuse Test (Cl. 11.10)	---	No permanent deformation observed	Shall not be any permanent deformation	IS: 4020(P11) 1998
13.	Varying Humidity Test (Cl. 11.11) a) Visual Observation b) Departure from General Planeness c) Recovery of the original size	--- mm %	No visible warping, twist or delamination observed 0.32 93	Shall not be any visible warping, twist or delamination 1.0 (Max.) 90 (Min.)	IS: 4020(P12) 1998
14.	End Immersion Test (Cl. 11.12)	---	No delamination observed	Shall have no delamination	IS: 4020(P13) 1998
15.	Knife Test (Cl. 11.13)	---	Pass Standard	Min. Pass Standard	IS: 4020(P14) 1998
16.	Glue Adhesion Test (Cl. 11.14)	---	No delamination observed	Shall be no delamination occurring in glue lines	IS: 4020(P15) 1998
17.	Screw Withdrawal Resistance Test (Cl. 11.15) Visual Observation	N ---	1712 No visible damage at the point of withdrawal	1000 (Min.) Shall be no visible damage at the point of withdrawal	IS: 4020(P16) 1998

PART D: REMARKS: ---

Rajesh
Analyst

Rakesh Kumar
Authorized Signatory

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Issued to: RIANGDO VENEERS PRIVATE LIMITED	Job No.: HTH/TR/22/090522
Address: Barapani Industrial Area Opposite RKB Cement, Umiam RI Bhoi, Meghalaya, India-793103	Issued date: 27.10.2022
Test Report As per IS: 2202(P1) 1999 (Amend No. 04)	

PART A: PARTICULARS OF TEST ITEM

Sample description: Face Veneer (Gurjan)	Sample Quantity: One
Declared values, if any: ---	Sample Size: 2400 x 1220 x 0.5 mm
Date of receipt: 05.09.2022	Code No.: 10357136/2022/SS/7
Batch No. & Mfg date: --- & ---	BIS seal: NA
Any other Information/Expiry date, if any: ---	IO's Signature: NA
Date of commencement of Testing: 15.09.2022	QR Code: 100000223689
Date of Completion of Testing: 27.10.2022	

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

I. Mechanical (Wood & Wood Products)

S. No.	Test Parameter(s)(Clause)	Unit	Result(s)/Observation (s)	Specified Values/ Tolerance	Test Method
1.	Veneers	---	Rotary cut and smooth	Shall be rotary cut or sliced and reasonably smooth	IS: 2202(P-1)-1999
2.	Defects in Veneers		Satisfactory	Shall be free from sapwood	IS: 2202(P-1)-1999
3.	Moisture Content	%	7.78	< 10	IS: 2202 (P1) 1999
4.	Thickness	mm	0.51 (+2.00%)	0.4 - 1.5	IS: 2202 (P1) 1999
3.	Species	---	Gurjan	---	As per manufacturer declaration

PART D: REMARKS: ---

Analyst

Authorized Signatory

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TEST REPORT

Issued to: RIANGDO VENEERS PRIVATE LIMITED	Job No.: HTH/TR/22/090523
Address: Barapani Industrial Area Opposite RKB Cement, Umiam RI Bhol, Meghalaya, India-793103	Issued date: 27.10.2022
Test Report As per IS 2202(P1) 1999 (Amend No.-04)	

PART A: PARTICULARS OF TEST ITEM

Sample description: Core Veneer/Cross Band (Makai)	Sample Quantity: One
Declared values, if any: ---	Sample Size: 1200 x 600 x 2.40 mm
Date of receipt: 05.09.2022	Code No.: 10357136/2022/SS/7
Batch No. & Mfg date: --- & ---	BIS seal: NA
Any other Information/Expiry date, if any: ---	IO's Signature: NA
Date of commencement of Testing: 15.09.2022	QR Code: 10000223689
Date of Completion of Testing: 27.10.2022	

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

I. Mechanical (Wood & Wood Products)

S. No.	Test Parameter(s)/ (Clause)	Unit	Result(s)/ Observation (s)	Specified Values/ Tolerance	Test Method
1.	Veneers	---	Rotary cut and smooth	Shall be rotary cut or sliced and reasonably smooth	IS: 2202(P-1)-1999
2.	Defects in Veneers		Satisfactory	May contain sound knots, not exceed 50 mm in anyone direction and open defects (split & check) such defects do not impair the smooth finish of the surface required for painting or staining. Dead knots shall not be permissible.	IS: 2202(P-1)-1999
3.	Moisture Content	%	7.75	< 10	IS: 2202(P-1)-1999
4.	Thickness	mm	2.43 (+1.25%)	1.0 - 3.0	IS: 2202(P1)-1999
5.	Species	---	Makai	---	As per manufacturer declaration

PART D: REMARKS: ---


Analyst


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Issued to: RIANGDO VENEERS PRIVATE LIMITED **Job No.:** HTH/TR/22/090524
Address: Barapani Industrial Area
Opposite RKB Cement, Umiam
RI Bhoi, Meghalaya, India-793103 **Issued date:** 27.10.2022
Test Report As per IS: 2202(P1)-1999 (Amend No. 04)

PART A: PARTICULARS OF TEST ITEM

Sample description: Core/Wooden Strip (Makai) **Sample Quantity:** One
Sample Size: 400 x 28 mm
Declared values, if any: --- **Code No.:** 10357136/2022/SS/7
Date of receipt: 05.09.2022 **BIS seal:** NA
Batch No. & Mfg date: --- & --- **IO's Signature:** NA
Any other Information/Expiry date, if any: --- **QR Code:** 10000223689
Date of commencement of Testing: 15.09.2022
Date of Completion of Testing: 27.10.2022

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

I. Mechanical (Wood & Wood Products)

S. No.	Test Parameter(s)(Clause)	Unit	Result(s)/Observation (s)	Specified Values/ Tolerance	Test Method
1.	Moisture Content	%	9.32	Not more than 12%	IS: 2202(P1) 1999
2.	Width	mm	28.40	Not more than 30 mm	IS: 2202(P1) 1999
3.	Species	---	Makai	---	As per manufacturer declaration

PART D: REMARKS: ---

[Signature]
Analyst

[Signature]
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TEST REPORT

Issued to: RIANGDO VENEERS PRIVATE LIMITED	Job No.: HTH/TR/22/090525
Address: Barapani Industrial Area Opposite RKB Cement, Umiam RI Bhoi, Meghalaya, India-793103	Issued date: 27.10.2022
Test Report As per IS: 2202(P1) 1999, Amendment No.-04	

PART A: PARTICULARS OF TEST ITEM

Sample description: Stile and Rail (Piney)	Sample Quantity: One
	Sample Size: 400 x 60 mm
Declared values, if any: ---	Code No.: 10357136/2022/SS/7
Date of receipt: 05.09.2022	BIS seal: NA
Batch No. & Mfg date: --- & ---	IO's Signature: NA
Any other Information/Expiry date, if any: ---	QR Code: 100000223689
Date of commencement of Testing: 15.09.2022	
Date of Completion of Testing: 27.10.2022	

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

I. Mechanical (Wood & Wood Products)

S. No.	Test Parameter(s)(Clause)	Unit	Result(s)/Observation (s)	Specified Values/ Tolerance	Test Method
1.	Moisture Content	%	9.59	12 (Max.)	IS: 2202(P-1)-1999
2.	Width	mm	60.42	45 - 75	IS: 2202(P-1)-1999
3.	Species	---	Piney	---	As per manufacturer declaration

PART D: REMARKS: ---

Analyst

Authorized Signatory

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