



हिन्दुस्तान परीक्षण शाला HINDUSTAN TEST HOUSE

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TEST REPORT

| | |
|--|------------------------------------|
| Issued to: RIANGDO VENEERS PRIVATE LIMITED | Job No.: HTH/TR/22/090517 |
| Address: Barapani Industrial Area Opposite RKB Cement, Umiam RI Bhol, Meghalaya, India-793103 | ULR No.: TC750922000001157F |
| Test Report As per IS: 848-2006, Amendment No.-02 | Issued date: 27.10.2022 |

PART A: PARTICULARS OF TEST ITEM

| | |
|--|-------------------------------------|
| Sample description: Synthetic Resin Adhesives for Plywood (BWP-Grade) | Sample Quantity: One |
| Declared values, if any: --- | Sample Size: 5 L |
| Date of receipt: 05.09.2022 | Code No.: 10357136/2022/SS/5 |
| Batch No. & Mfg date: Trial Batch No. 01 & 16.08.2022 | BIS seal: NA |
| Any other Information/Expiry date, if any: Shelf life 35 days | IO's Signature: NA |
| Date of commencement of Testing: 06.09.2022 | QR Code: 100000223687 |
| Date of Completion of Testing: 22.09.2022 | Encoded Code: 22C034E |

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. | Cyclic Test (BWP Grade) (Cl. 7.3) | --- | | | IS: 848-2006 |
| | a) Six cycles: Each cycle consisting of 8 hrs boiling in water and there after drying at 65 ±2°C for 16 hrs | | No separation of plies at edges or surface | Shall not be show any separation of plies at the edges and/or surface at the end of six cycles | |
| | b) Visual Examination (Cl: 7.3.3.1) | --- | Satisfactory | No delamination/ separation of plies observed at the edges/surface of the specimen | |

Rohit Sharma
Analyst

Rakesh Kumar
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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| Address: Barapani Industrial Area Opposite RKB Cement, Umiam RI Bhol, Meghalaya, India-793103 | ULR No. TC750922000001157F |
| Test Report As per IS: 848-2006, Amendment No.-02 | Issued date: 27.10.2022 |

| S. No. | Test Parameter(s)(Clause) | Unit | Result(s)/ Observation (s) | Specified Values/ Tolerance | Test Method |
|--------|------------------------------------|------|----------------------------|---|-------------------|
| | c) Adhesion of Plies (Cl. 7.3.3.2) | --- | Pass Standard | Wood failure Shall be predominant and shall be more than 75% for excellent bond and not less than 50% for pass standard. For less than 50% wood failure, the specimen shall be considered as failed. | IS: 1734(P5) 1983 |
| 2. | Quality of Resin Adhesives (Cl. 5) | --- | Satisfactory | Shall comply with the requirements specified in 7, when the resin and hardener have been stored in closed containers under conditions as specified by the resin adhesive manufacturer and the adhesive is tested within the shelf life. | IS: 848-2006 |

II. Chemical (Industrial & Fine Chemicals)

| | | | | | |
|----|--|-----|-------|-------------------|--------------|
| 1. | Acidity and Alkalinity (pH), (Cl. 7.4) | --- | 10.08 | Not less than 2.0 | IS: 848-2006 |
|----|--|-----|-------|-------------------|--------------|

PART D: REMARKS: ---

Rahul Sharma
Analyst

Rakesh
Authorized Signatory

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TEST REPORT

Issued to: RIANGDO VENEERS PRIVATE LIMITED **Job No.:** HTH/TR/22/090518
Address: Barapani Industrial Area **ULR No.:** TC75092100001158F
Opposite RKB Cement, Umiam
RI Bhoi, Meghalaya, India-793103 **Issued date:** 27.10.2022
Test Report As per IS: 710-2010

PART A: PARTICULARS OF TEST ITEM

Sample description: Marine Plywood (Grade BWP, Treatment-ACC) **Sample Quantity:** One
Sample Size: 2440 X 1220 X 19 mm
Declared values, if any: --- **Code No.:** 10357136/2022/SS/6
Date of receipt: 05.09.2022 **BIS seal:** NA
Batch No. & Mfg date: Trail Batch No. 01 & 18.08.2022 **IO's Signature:** NA
Any other Information/Expiry date, if any: --- **QR Code:** 10000223688
Date of commencement of Testing: 15.09.2022 **Encoded Code:** 22MCCAA, 22CCE5C
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. | Dimension (Clause 6) | | | | IS: 710-2010 |
| | a) Length | mm | 2442 (+2) | +6, -0 | |
| | b) Width | mm | 1221 (+1) | +3, -0 | |
| | c) Thickness | mm | 19.30 (+1.58%) | ± 5 % | |
| | d) Edge Straightness | % | 0.06 | 0.2 (Max.) | |
| | e) Squareness | % | 0.13 | 0.2 (Max.) | |
| 2. | Workmanship and Finish (Clause 7) | --- | Satisfactory | Satisfactory | IS: 710-2010 |
| 3. | Moisture Content (Cl. 9.1.1) | % | 7.65 | 5 - 15 | IS: 1734 (P1) 1983 |

[Signature]
Analyst

[Signature]
Authorized Signatory

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TEST REPORT

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|--|-----------------------------------|
| Issued to: RIANGDO VENEERS PRIVATE LIMITED | Job No.: HTH/TR/22/090518 |
| Address: Barapani Industrial Area Opposite RKB Cement, Umiam RI Bhoi, Meghalaya, India-793103 | ULR No.: TC75092100001158F |
| Test Report As per IS: 710-2010 | Issued date: 27.10.2022 |

| S. No. | Test Parameter(s)(Clause) | Unit | Result(s)/ Observation (s) | Specified Values/ Tolerance | Test Method |
|--------|---|-------------------|---|--|--|
| 4. | Glue Adhesion in Dry State (Cl. 9.1.2) a) Glue Shear Strength i. Average ii. Minimum, individual b) Adhesion of Plies | N --- --- | 2148 1697 Pass Standard | 1350 (Min.) 1100 (Min.) Shall be min. Pass Standard | IS 710-2010 IS: 1734 (P4) 1983 IS: 1734 (P5) 1983 |
| 5. | Water Resistance Test (Cl. 9.1.3) a) Glue Shear Strength I. Average II. Minimum, individual b) Adhesion of Plies | N --- --- | 1559 1308 Pass Standard | 1000 (Min.) 800 (Min.) Shall be Min. Pass Standard | IS: 710-2010 IS: 1734 (P4) 1983 IS: 1734 (P5) 1983 |
| 6. | Tensile Strength (Cl. 9.1.4) a) Along the grain direction b) Across the grain direction c) Sum of Tensile Strength (a + b) | N/mm ² | 48.56 53.73 102.29 | 42 (Min.) 25 (Min.) 84.5 (Min.) | IS:1734 (P9) 1983 |
| 7. | Mycological Test (Cl. 9.1.5) a) Edge of the Specimen b) Glue Shear Strength I. Average II. Minimum, individual c) Adhesion of Plies | --- N --- | No sign of Separation at edges 1563 1228 Pass Standard | Shall be no sign of separation 1000 (Min.) 800 (Min.) Shall be Min. Pass Standard | IS: 1734 (P7) 1983 IS: 1734 (P4) 1983 IS: 1734 (P5) 1983 |
| 8. | Static Bending Strength (Cl. 9.1.6) a) Modulus of Elasticity I. Along the grain direction i. Average ii. Minimum, individual II. Across the Grain Direction i. Average ii. Minimum, individual | N/mm ² | 7944.98 7440.14 5168.71 4873.55 | 7500 (Min.) 6700 (Min.) 4000 (Min.) 3600 (Min.) | IS: 710-2010 IS: 1734 (P11) 1983 |

[Signature]
Analyst

[Signature]
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Issued to: RIANGDO VENEERS PRIVATE LIMITED
Address: Barapani Industrial Area
Opposite RKB Cement, Umiam
RI Bhol, Meghalaya, India-793103
Job No.: HTH/TR/22/090518
ULR No.: TC75092100001158F
Issued date: 27.10.2022
Test Report As per IS: 710-2010

| S. No. | Test Parameter(s)(Clause) | Unit | Result(s)/ Observation (s) | Specified Values/ Tolerance | Test Method |
|--------|--|--|--|--|-------------------------------------|
| | 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 | 53.53 51.46 51.55 45.87 | 50 (Min.) 45 (Min.) 30 (Min.) 27 (Min.) | |
| 9. | Wet Bending Strength (Cl. 9.1.7) a) Modulus of Elasticity I. Along the grain direction i. Average ii. Minimum, individual II. Across the Grain Direction i. Average ii. Minimum, individual b) Modulus of Rupture I. Along the grain direction i. Average ii. Minimum, individual III. Across the Grain Direction i. Average ii. Minimum, individual | N/mm ² N/mm ² | 4142.46 3792.00 3567.84 3267.53 38.35 36.02 31.73 29.80 | 3750 (Min.) 3400 (Min.) 2000 (Min.) 1800 (Min.) 25 (Min.) 22 (Min.) 15 (Min.) 13 (Min.) | IS: 710-2010 IS: 1734 (P11) 1983 |
| 10. | Retention of Preservative (Cl. 9.1.8) | Kg/m ³ | 12.26 | 12 (Min.) | IS 2753 (P1) 1991 |

PART D: REMARKS: ---

[Signature]
Analyst

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| Issued to: RIANGDO VENEERS PRIVATE LIMITED | Job No.: HTH/TR/22/090519 |
| Address: Barapani Industrial Area Opposite RKB Cement, Umiam RI Bhoi, Meghalaya, India-793103 | Issued date: 27.10.2022 |
| Test Report As per IS: 710 - 2010 | |

PART A: PARTICULARS OF TEST ITEM

| | |
|--|-----------------------------------|
| Sample description: Face Veneer (Gurjan) | Sample Quantity: One |
| Declared values, if any: --- | Sample Size: 2440 x 1220 x 0.9 mm |
| Date of receipt: 05.09.2022 | Code No.: 10357136/2022/SS/6 |
| 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: 10000223688 |
| 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: 710 - 2010 |
| 2. | Defects in Veneers | | Satisfactory | Shall be free from sapwood | IS: 710-2010 |
| 3. | Moisture Content | % | 7.68 | 10 < | IS 710-2010 |
| 4. | Thickness | mm | 0.91 (+1.11%) | ± 5 % | IS 710-2010 |
| 5. | Species | --- | Gurjan | --- | As per manufacturer declaration |

PART D: REMARKS: ---

[Signature]
Analyst

[Signature]
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Issued to: RIANGDO VENEERS PRIVATE LIMITED **Job No.:** HTH/TR/22/090520
Address: Barapani Industrial Area
Opposite RKB Cement, Umiam
RI Bhoi, Meghalaya, India-793103 **Issued date:** 27.10.2022
Test Report As per IS: 710-2010

PART A: PARTICULARS OF TEST ITEM

Sample description: Core Veneer/Cross Band (Makai) **Sample Quantity:** One
Sample Size: 1200 x 600 x 1.6 mm
Declared values, if any: --- **Code No.:** 10357136/2022/SS/6
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:** 100000223688
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. | Veneers | --- | Rotary cut and smooth | Shall be rotary cut or sliced and reasonably smooth | IS: 710 -2010 |
| 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: 710 -2010 |
| 3. | Moisture Content | % | 7.93 | 10 < | IS: 710 -2010 |
| 4. | Thickness | mm | 1.62 (+1.25%) | ± 5% | IS: 710-2010 |
| 5. | Species | --- | Makai | --- | As per manufacturer declaration |

PART D: REMARKS: ---

[Signature]
Analyst

[Signature]
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