



**TEST REPORT**

|   |                                    |
|---|------------------------------------|
| <b>Issued to:</b> ROYALE TOUCHE INDUSTRIES PRIVATE LIMITED  | <b>Job No.:</b> HTH/TR/23/011614   |
| <b>Address:</b> Survey. No. 2589, 2601 to 2607, 2610 to 2611, 2613 to 2616<br>2706 to 2708, Dangarva, Mehsana<br>Gujarat, India- 384450 | <b>ULR No.:</b> TC750924000000151F |
| <b>Test Report</b> As per IS: 5509-2021   | <b>Issued date:</b> 06.02.2024     |

**PART A: PARTICULARS OF TEST ITEM**

|  |                                       |
|--|---------------------------------------|
| <b>Sample description:</b> Fire Retardant Plywood (Grade-BWR, Type 4-Combination of Ammonium Phosphates & Boron) | <b>Sample Quantity:</b> One           |
| <b>Declared values, if any:</b> ---  | <b>Sample Size:</b> 2440x 1220x 25 mm |
| <b>Date of receipt:</b> 16.01.2024   | <b>Code No.:</b> 10440778/2023/SS/8   |
| <b>Batch No. &amp; Mfg date:</b> Trial & 22.12.2023  | <b>BIS seal:</b> NA                   |
| <b>Any other Information/Expiry date, if any:</b> ---  | <b>IO's Signature:</b> NA             |
| <b>Date of commencement of Testing:</b> 17.01.2024   | <b>QR Code:</b> 10000600575           |
| <b>Date of Completion of Testing:</b> 06.02.2024   | <b>Encoded Code:</b> 24M5171          |

**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)  | IS Clause | Unit                     | Result(s)/ Observation (s)                               | Specified Values/ Tolerance  | Test Method   |
|--------|--|-----------|--------------------------|--|--|---------------|
| 1.     | <b>Dimension and Tolerance</b><br>a) Length<br>b) Width<br>c) Thickness<br>d) Edge Straightness<br>e) Squareness | 8         | mm<br>mm<br>mm<br>%<br>% | 2440 (+0)<br>1220 (+0)<br>25.41 (+1.64%)<br>0.05<br>0.05 | +6, -0<br>+3, -0<br>± 5 %<br>0.2 (Max.)<br>0.2 (Max.)  | IS: 5509-2021 |
| 2.     | <b>Workmanship &amp; Finish</b>  | 9         | ---                      | Satisfactory   | Shall be reasonably clean to handle and free of dirt and stain other than any uniform colour of the flame retardant solution | IS: 5509-2021 |

**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.



Rajat  
Analyst



Rakesh  
Rakesh Kumar  
Authorized Signatory





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| S. No. | Test Parameter(s)(Clause)                | IS Clause | Unit              | Result(s)/ Observation (s) | Specified Values/ Tolerance            | Test Method                          |
|--------|--|-----------|-------------------|----------------------------|--|--------------------------------------|
| 3.     | Moisture Content                         | 12.1      | %                 | 8.03                       | 20 (Max.)                              | IS: 1734 (P1) 1983                   |
| 4.     | Flammability Test                        | 12.1      | m, s              | 34m 17.5s                  | 30 (min.)                              | IS: 1734 (P3) 1983                   |
| 5.     | Flame Penetration Test                   | 12.1      | m, s              | 67m 27.5s                  | $\frac{15}{6} \times thickness$ (min.) | IS: 1734 (P3) 1983                   |
| 6.     | Rate of Burning Test                     | 12.1      | m, s              | 24m 49.4s                  | 20 (min.)                              | IS: 1734 (P3) 1983                   |
| 7.     | Water Resistance Test (as per BWR grade) | 12.2      | ---               | Pass Standard              | Shall be minimum pass                  | IS 303-1989<br>IS: 1734 (P5) 1983    |
| 8.     | <b>Static Bending Strength</b>           | 12.2      |                   |                            |  | IS: 303 -1989<br>IS: 1734 (P11) 1983 |
|        | <b>a) Modulus of Elasticity</b>          |           | N/mm <sup>2</sup> |                            |  |                                      |
|        | I. Along the grain direction             |           |                   |                            |  |                                      |
|        | i. Average                               |           |                   | 7694.68                    | 5000 (Min.)                            |                                      |
|        | ii. Minimum, individual                  |           |                   | 7539.51                    | 4500 (Min.)                            |                                      |
|        | II. Across the Grain Direction           |           |                   |                            |  |                                      |
|        | i. Average                               |           |                   | 4886.66                    | 2500 (Min.)                            |                                      |
|        | ii. Minimum, individual                  |           |                   | 4681.90                    | 2200 (Min.)                            |                                      |
|        | <b>b) Modulus of Rupture</b>             |           | N/mm <sup>2</sup> |                            |  |                                      |
|        | I. Along the grain direction             |           |                   |                            |  |                                      |
|        | i. Average                               |           |                   | 44.39                      | 40 (Min.)                              |                                      |
|        | ii. Minimum, individual                  |           |                   | 38.47                      | 36 (Min.)                              |                                      |
|        | II. Across the Grain Direction           |           |                   |                            |  |                                      |
|        | i. Average                               |           |                   | 45.19                      | 20 (Min.)                              |                                      |
|        | ii. Minimum, individual                  |           |                   | 40.47                      | 18 (Min.)                              |                                      |

PART D: REMARKS: ---

-----End of Report-----

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Laboratory Address : Plot No. 36, Sector-1, HSIIDC IGC Saha, Ambala Cantt - 133 104, (Haryana)