

## FACTORY IN-HOUSE TEST REPORT

PLYWOOD FOR CONCRETE SHUTTERING WORKS IS: 4990:2024

Date : 12-03-2026.

Brand HUTTON (FILM FACE)

Grade : BWP

Size: 2440mm X 1220 mm

Type : 3(CSFF)

Thickness : 12mm (34 KG)

Formaldehyde Class: E<sub>2</sub>

Sl. No.	TEST	PRESCRIBED VALUE	RESULTS
1	<b>Dimension (mm)</b> a) Length b) Width c) Thickness	Tolerance of a) + 6 mm, - 0 mm b) + 3 mm, - 0 mm c) ± 5%	Tolerance of a) 2442mm b) 1221mm c) 11.92mm to 12.167mm
2	<b>Squareness, %</b>	0.20%	0.08
3	<b>Edge Straightness, %</b>	0.20%	0.11
4	<b>Workmanship and finish</b>	As per Clause 8	Conforms
5	<b>Moisture content, %</b>	5 to 15	9.50%
6	<b>I) Glue Shear Strength in dry state</b> a) Average b) Minimum Individual <b>ii) Adhesion of plies (knife test)</b>	a) 1350 N b) 1100 N ii) Min. Pass Standard	a) 1515 N b) 1312N ii) Excellent
7	<b>Resistance of water (After 72 hour boiling)</b> i) <u>Glue Shear Strength</u> a) Average b) Minimum Individual <b>ii) Adhesion of plies (knife test)</b>	a) 1000 N b) 800 N ii) Min. Pass Standard	a) 1378 N b) 949 N ii) Excellent
8	<b>Resistance of Micro-organism</b> i) <u>Glue Shear Strength</u> a) Average b) Minimum Individual ii) <i>Adhesion of plies (knife test)</i>	a) 1000 N b) 800 N ii) a) No separation at edges b) Min. Pass Standard	1284 N 989 N pass standard
9	<b>Tensile Strength</b> i) Parallel to the face grain ii) Perpendicular to the face grain iii) Sum of the Tensile Strength	i) Min : 28 N/ mm <sup>2</sup> ii) Min : 26 N/ mm <sup>2</sup> iii) Min : 60.0 N/ mm <sup>2</sup>	a) 49 N/ mm <sup>2</sup> b) 39 N/ mm <sup>2</sup> c) 88. N/ mm <sup>2</sup>

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