

### D.K.Plywood MTC (Material Test Report) for HDF Skin doors

- Thickness of door: 35mm+ , 32 mm +, 38 mm +
- Random Tests based on Door sizes: 2060mm X 970 mm & 2060mm X 820 mm
- Maximum Size of HDF 2 Panel door skin is: 1070 mm X 2125 mm
- Design of door and door skins: All designs on page 12 as per attached Guntier Catalog

### MTC (Material Test Report), Hdf Moulded- Raised High Density Fibre Panel Doors, Observed Test Parameters And Values

S.No	Nature of Test	Values prescribed	Values Achieved
1	Dimensions and Square ness	<u>Recommended Value</u> Length width: $\pm 5$ mm Thickness: $\pm 1$ mm Square ness: 1 mm at a length of 500 mm	<u>Achived Value</u> Length width: $\pm 3$ mm Thickness: $\pm 0.8$ mm Square ness: 0.9 mm at a length of 500 mm
2	General Flatness	< 6.0 mm	Arrived 5.5 mm
3	Local Plainness	<0.5 mm	Arrived 0.4 mm
4	Impact Indentation	<0.2 mm	Arrived 0.2 mm
5	Flexure Test	<u>Recommended Value</u> Residual deflection < 1/ 10th of max. Deflection. Max.Deflection < 1/30th of length & < 1/15th of width whichever is less.	<u>Arrived Value</u> Residual deflection < 1/ 10th of Max. Deflection < 1/30th of length & < 1/15th of width.
6	Edge Loading Test	<u>Recommended Value</u> Max Deflection < 5.0mm Residual deflection <0.5mm Lateral buckling <2.0mm	<u>Achieved Value</u> Max Deflection < 4.7 mm Residual deflection <0.4 mm Lateral buckling <1.8 mm
7	Shock Resistance Test	Should withstand 5 impacts	Passed; Can withstand 5 impacts

8	Buckling Test	<u>Recommended Value</u> Initial deflection < 50 mm Res. deflection < 5.0 mm	<u>Achieved Value</u> Initial deflection < 49 mm Res. deflection < 4.8 mm
9	Slamming Test	100 impact without any damage	Result; 100 impact without any damage
10	Misuse Test	Should Pass	Passed
11	Varying Humidity Test	<u>Recommended Value</u>	<u>Arrived Value</u>
		Max departure from plainness <1 mm Recovery to original size > 90 %	Max departure from plainness < 0.9 mm <u>Achieved</u> Recovery to original size > 93 %
12	End Immersion Test	No delamination in one cycle	Result; Didn't Delaminate
13	Knife Test	Should Pass	Passed
14	Glue Adhesion Test	Should Pass	Passed
15	Screw withdrawal Resistance	> 1000 N	Achieved >1020N