

M/s Alstone International  
2E/7, Jhandewalan Extn.  
New Delhi, India

26 June, 2013

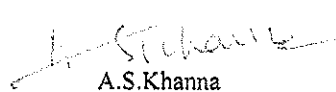
Job No: IN/CN/ASK-26/13-14

Subject: Testing of Wood Polymer Composite 18mm thick Hybrid Board

Dear Sir,

Please find hereby the test results of samples submitted to us.

Sr. No.	Test	Test Method	Results
1	Density Kg/m <sup>3</sup>	IS: 2380(P-3)1997	714
2	Moisture Content, %	IS: 2380(P-3)1997	0.31
3	Water Absorption, % (a) 2 Hours (b) 24 Hours	IS: 2380(P-16)1997	0.13 0.31
4	Thickness Swelling, % After 2 Hours	IS: 2380(P-17)1997	0.18
5	Modulus of rupture N/mm <sup>2</sup>	IS: 2380(P-4)1997	More than 9.0
6	Modulus of Elasticity, N/mm <sup>2</sup>	IS: 2380(P-4)1997	912
7	Tensile Strength, N/mm <sup>2</sup>	IS: 2380(P-6)1997	11.3
8	Screw withdrawal strength, N (a) Face (b) Edge	IS: 2380(P-14)1997	1820 1103
9	Nail withdrawal strength, N (a) Face (b) Edge	IS: 2380(P-14)1997	1420 1004
10	Screw Holding Test	IS: 2380(P-14)1997	Satisfactory

  
A.S.Khanna

Corrosion Science & Engineering  
IIT Bombay  
Powai, Mumbai - 400076

# IIT Bombay

Prof. A. S. Khanna

(Fellow NACE, Fellow ASM, Fellow AvH)

Telefax : (+91-22) 25767891 (O)

Fax : (+91-22) 25723480, 25726975

E-mail : khanna@iitb.ac.in

Chairman - SSPC India

President : Humboldt Academy of Bombay

11	Nail Holding Test	IS: 2380(P-14)1997	Satisfactory
12	Flexure Test	IS: 4020(P-5)1998	Passes the test
13	Edge Loading Test	IS: 4020(P-6)1998	Passes the test
14	Shock Resistance Test (5 kgf)	IS: 4020(P-7)1998	Passes the test
15	Water resistance test (60 ± 2°C for 3 hrs)	IS: 1734(P-4)1983	Passes the test
16	Knife Test	IS: 4020(P-13)1998	Passes the test
17	Resistance to stain	IS: 12823:1990	Passes the test
18	Resistance to Crack	IS: 12823:1990	Passes the test
19	Resistance to steam	IS: 12823:1990	Passes the test
20	Resistance to cigarette burn	IS: 12823:1990	Passes the test
21	Spot test	IS: 1659:2004	Passes the test
22	Mycological Test	IS: 1734(P-7):1983	Passes the test
23	Humidity Test (Varying) At 27 ± 2°C & 30 ± 5 % RH (for one week) & 27 ± 2°C & 85 ± 5 % RH (for one week) (size:- 300x300mm)	IS: 4020(P-11):1983 Guideline	Length - 0.04mm Thick - 0.02mm
24	Thickness, mm	IS: 2380(P-2):1977	18.01
25	Squareness, mm	IS: 2380(P-2):1977	0.02
26	Edge Straightness Test, mm	IS: 2380(P-2):1977	0.02
27	Retention of Preservation		Passes the test
28	Softening Point °C		115
29	Heat Deflection Temp °C	IS: 1734(P-2)	130
30	Workability Test		Satisfactory
31	Fire point °C		320

Test results pertain to sample submitted to us.

  
A.S. Khanna

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Dept. of Met. Engg. & Material Science, Indian Institute of Technology, Bombay, Powai, Mumbai - 400076. India