



SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH

(A unit of Shriram Scientific and Industrial Research Foundation)

An ISO - 9001:2008 Certified Institute

TEST CERTIFICATE

000374306

Issued to :

WONDER ALU BOARD OVERSEAS
275, IIIRD FLOOR,
RAJDHANI ENCLAVE
PITAMPURA
NEW DELHI - 110034

J.O.No. 503-141-2486
Reg.No. 1371484
Date 13-08-2015
GC-01 (REV-04)
Your Ref.No. -

Kind Attn: MR SACHIN SINGHAL , MANAGER H R

Sample Particulars:

One sample described as Aluminum Composite Panel thickness 4 mm, Coil Thickness 0.50 mm, was received
"The sampling was not carried out by Shriram Institute for Industrial Research. The sample details provided in the test certificate are based on declaration by the party".

Date

TEST RESULTS

S.No.	Tests	Results	Protocol / Technique adopted
A	<u>Physical Properties of Wonder Composite Panel</u>		
1.	Weight, kg/m ²	5.9	Using Weighing Balance
2.	Panel Width, mm	990	Using Measuring Scale
3.	Panel Length, mm	990	Using Measuring Scale
4.	Panel Thickness, mm	4	Using Vernier Caliper
5.	Density at 27°C, g/cm ³ (Polyethylene Core)	0.94	As per ASTM D 792-08
6.	Bond Integrity, N/mm (Peeling Strength)	10.7	As per ASTM D 903-08
7.	Tensile Strength, kg/mm ²	5.1	As per ASTM E 8-10
8.	Yield Strength, kg/mm ²	4.5	As per ASTM E 8-10
9.	Elongation, %	5	As per ASTM E 8-10
10.	Flexural Strength, kg/mm ²	12.1	As per ASTM D 790-08
11.	Ultimate Compressive Strength, MPa	55.6	As per ASTM C 365-10
12.	Water absorption, %	Nil	As per ASTM D 570-10
13.	Deflection Temperature, °C (under 1.8 MPa)	82	As per ASTM MD 648-10
B	<u>Properties of Aluminium skin</u>		
1.	Skin thickness, mm	0.5	Using Thickness gauge
2.	Tensile Strength, N/mm ²	146	As per ASTM E 8-10
3.	Yield Strength, N/mm ²	131	As per ASTM E 8-10
4.	Elongation, %	2	As per ASTM E 8-10
5.	Modulus of Elasticity, kg/mm ²	3387	As per ASTM E 8-10

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AUTHORISED SIGNATORY
(EMPLOYEE CODE: 6094)



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C Paint Finish and Test Properties

1	Lacquering	Lacquering is observed.	By Visual
2	Coating Thickness, micron	26	Using Alcometer
3	Gloss at 60° angle	29	As per ASTM D 523-10
4	Formability (T-Bend)	No cracks in the Coating by tape Observed at 0T.	As per ASTM D 4145-10
5	Cross Hatch	No lifting of the Paint by tape was observed.	As per ASTM D 3359-10
6	Hardness-Pencil		As per ASTM D 3363-10
	a) Gauge Hardness	No cut on the surface of the film is observed.	
	b) Scratch Hardness	No rupture or scratch of the coating is observed up to 6H.	
7	Abrasion Resistance (Falling sand)	Substrate not exposed after 80 Liter of sand.	As per ASTM D 968-10
8	Immersion Test		
	(i) 10% HCl	No visual Change as decomposition, discoloration swelling, clouding, bubbling, is observed.	By Visual Observation
	(ii) 10 % H ₂ SO ₄	No visual Change as decomposition, discoloration swelling, clouding, bubbling, is observed.	By Visual Observation
	(iii) 10% NaOH	No visual Change as decomposition, discoloration swelling, clouding, bubbling, is observed.	By Visual Observation
	(iv) Detergent	No visual Change as decomposition, discoloration swelling, clouding, bubbling, is observed.	By Visual Observation

D.O.R.: 13.03.2015

D.O.C.: 12.08.2015


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