

SAHYADRI INDUSTRIES LIMITED

Research & Development Centre

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R&D/SIL/C-4/12/22

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TECHNICAL DATA SHEET

Product Name : "ECOPRO" Fiber cement flat sheet
 Product : Non-Asbestos fiber cement board
 Test method Followed : As indicated (ASTM C 1185, ASTM C 518, ISO 8336, IS 14862 etc.)
 Thickness : 4 mm to 25 mm

Mechanical & Physical Properties

Sr. No.	Properties	Unit	Standards	Value
1	Apparent Density (Ambient)	Kg/m ³	ISO 8336	>1300
2	Basic Color			Light Gray

Mechanical Characteristics ISO 8336

3	Minimum Modulus of Rupture (EMC)	M pa or N/mm ²	ISO 8336	>10
4	Minimum Modulus of Rupture (WET)	M pa or N/mm ²	ISO 8336	>7
5	Impact Strength (Charpy Method)	KJ/m ²	ASTM D 256	>1.7
6	Lamina Bonding Strength	M pa or N/mm ²	ASTM D 1037	>1.0
7	Screw Withdrawal Strength	N/mm	IS 2380, part XIV	>100

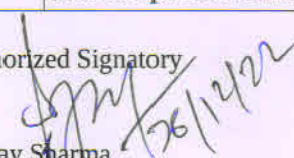
Additional Characteristic

8	Thermal Conductivity at 50°C (Mean Temperature)	W/m/K	ASTM 518	0.19
9	PH Value			9-11
10	Acoustic Insulation	db.	BS 2750	26 db. (6 mm board)
11	Moisture Content (at EMC)	%		8 to 9
12	Water absorption (Ambient to Saturation)	%		<30
13	VOC as formaldehyde	mg/m ³	BS EN 717-1:2004	NOT DETECTED

Fire Resistance Properties as per BS-476

Sr. No.	Properties	Results
13	Combustibility	Class "0"- non-Combustible as per BS476 Part IV
14	Ignitability	Class "P"- not easily ignited as per BS476 Part V
15	Fire Propagation Index	0.1 as per BS 476 Part VI 1989+A1
16	Surface Spread of Flame	Class -1, as per BS 476 Part VII

Authorized Signatory


 Sanjay Sharma
 Sr. Manager (R&D)