





Technical Specification for Fiber Cement Sheet







Specification No : SP-CES-EL-FCSHT-R00			Rev No.	R00
Prepared By	Checked By	Reviewed By	Approved By	Date
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1.0 Record of Revision

Sr No	Spec Cl No	Rev	Change in specification	Approved by

2.0 Scope.

This specification is intended to cover the manufacturing, testing at manufacturer's works, supply and delivery of Fiber cement sheet.

This sheet can be used for board wiring purpose in the meter rooms.

The fibre cement sheet shall be fixed directly on the wall for installation of all equipment's such as MCB's, SDF's, meters and wires.

3.0 Applicable standards





This Fiber cement sheet shall confirm to this specification and latest revision of following codes with all amendments –

SL No.	Standard no.	Title
1.	IS: 14862	Fiber Cement sheet

4.0 Climatic conditions of the installation

Fiber cement sheet shall be designed to work continuously under following conditions –

4.1	Location	Covered area in consumer premises
4.2	Pollution	High corrosive dust
4.3	Humidity	90% maximum





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4.4	Ambient temperature	Average 45 ⁰ C, Maximum 50 ⁰ C
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5.0 General technical requirements

Product	Non-Asbestos Fiber cement sheet		
Thickness	18 mm thick		
Test Method	As per IS: 14862, ASTM C 518 , ASTM C 518 , ISO 8336		
Mechanical and Physical Properties			
Sr. No	Properties	Unit	Value
1	Apparent Density (Ambient)	Kg/m3	>1300
2	Basic colour	Light grey	
3	Thickness	Mm	18
4	Minimum Modulus of rupture (EMC)	Mpa or N/mm2	>10
5	Minimum Modulus of rupture (WET)	Mpa or N/mm2	>7
4	Impact strength	KJ/m2	>1.7
5	Screw withdrawal strength	N/mm	100
6	Thermal conductivity at 50DegC	W/m/K	0.19
7	PH value		9-10
8	Moisture content	%	8 to 9
9	Water absorption (Equilibrium to saturation)	%	<15

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Fire Resistance Properties as per BS-476

Sr. No	Properties	Results
10	Combustibility	Class "O" non-combustible
11	Ignitability	Class "P" non easily Ignited
12	Fire Propagation Index	<3
13	Surface spread of flame	Class -1
Other requirements		
14	Water repellent coating	Water repellent coating shall be applied on each fibre cement sheet for better water absorption property (water will be repelled in maximum quantity).
15	ISI Marking	Each Fiber Cement sheet shall be marked with standard ISI marking.
16	Test Certificates	Test Certificates to be submitted from the reputed government approved laboratories for above mentioned tests.





6.0 Recommended make and product

Sr.no	Make and product
6.1	M/s Sahyadri Industries Limited, Product – ECOPRO PLUS, Fiber Cement sheet , 18mm thick M/s Everest, 18mm thick, Fiber Cement sheet
6.2	Or, original manufacture of fibre cement sheet having similar type of properties and valid type test report conducted as per IS: 14862

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