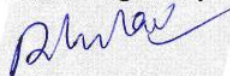


Technical Properties of Vpremium board

Type "A" category 3 Fibre Cement Boards ISO 8336/ IS 14862 / ASTM C 1186 standards

S.NO	Property	Test Method	Unit	Requirement	Test Results
Physical Characteristics	Dimensional Tolerances : - Length & Width - Thickness - Straightness & Squareness	ASTM C1185 / IS14862 / ISO 8336		$\pm 0.5\%$ $\pm 10\%$ 3mm/m & 4mm/m	Pass Pass Pass
	Density	ASTM C1185	Kg /m3	>1250	1298
	Flexural Strength (MOR – Wet Condition)	ASTM C1185	N/mm2	> 7.0	9.1
	Water Impermeability-	ASTM C1185		No water droplets at the underside	Pass
	Moisture Movement	ASTM C1185	%		0.061
	Water Absorption	ASTM C1185	%	30-36	30.64
	Moisture Content	ASTM C1185	%	4-8	4
	Water Vapour Transmission Water Vapour Resistance Factor (μ)	ISO 12572	g/m2. Per day		40.6 117
	Glue-Line Shear Force/Strength	ASTM D1037	N		3264.2
	Direct Screw Withdrawal Resistance	ASTM D1037	N		989.7, 643.3
Durability	Freeze-Thaw resistance (50 cycles)	ASTM C 1185	Cycles		Pass
	Warm water resistance	ASTM C1185			Pass
	Soak-Dry resistance (50 cycles)	ISO 8336	Cycles		Pass
	Heat-Rain resistance (25 cycles)	ASTM C1185	Cycles		Pass
FIRE	Ignitability	BS 476, Part 5		Class P - not easily Ignitable	Class P
	Fire Propagation Index	BS 476, Part 6		Lower Values are better	2.79
	Surface Spread of Flame	BS 476, Part 7			Class 1
	Fire Resistance – Integrity & Insulation (in minutes for Non-load bearing, Insulated double-skin partition)	BS 476, Part 22	Both in minutes	>120	171 & 148
	Surface Burning Characteristics : - Flame Spread Index - Smoke Developed Index - Class	ASTM E84		Lower Values are better	0 0 A
Acoustic	Sound Transmission Coefficient (STC) : - Bare Board (8mm thick) - Typical Partition (with 10mm facing sheets, 72mm stud, 50mm glass wool 48kg/m3)	DIN 52210 / ISO 140	dB dB		29 45
	Thermal Conductivity	ASTM C518	W/m ⁰ K Kcal/mh ⁰ K		0.0748 0.0643

Authorised Signatory



Narasimha Rao Peri
General Manager