

TECHNICAL DATA SHEET

Durable and versatile boards crafted from recycled plastics for a more sustainable future."



Technical Specifications

Properties	Particulars
Product Category	Multi-Layered Recycled Plastic Board (MLPB)
Raw Materials	100% upcycled multilayered plastic waste coupled with Aluminium layer in microns, and when upcycled, they form Plastic-Aluminium Composites.
Tree Planting Initiatives / Carbon Offsets	Every kg of ECOFUZE sheets displaces 4 kgs CO2 emission, hence a 12 mm ECOFUZE of 32 sq. ft weighing 36 kgs displaces 144 kgs CO2 emissions
Adhesives	No Chemical used as Adhesive
Recyclability	100% Recyclable
Available Products	ECOFUZE Plain, Roofing & Shuttering Sheets
Applications (Plain Sheet) Size - 8ft x 4ft	Superior and sustainable alternative to plywood, cement boards, and WPC
Applications (Roofing Sheet) Size - 8ft x 3.24ft	Superior and sustainable alternative to cement, asbestos, and GI Roofing Sheets
Thickness (Plain Sheets)	5mm, 8mm, 12mm, 18mm, 24mm, 30 mm
Thickness (Roofing Sheets)	5mm

Physical and Value Added properties

Properties	Particulars & Test Method
Density, Kg/m ³	1010 (1734 (Part -1) - 1983 (RA 2018))
Moisture Content, % by mass	Nil (IS 2380 (P-3)): 1977
Static Bending Strength, N/mm ²	106.2 (IS 2380 (P-4)): 1977
Bending Strength, Load in Newton	1910 (IS 2380 (P-4)): 1977
Water Absorption (at 24 hours), %	0.24 (IS 2380 (P-16)): 1977
Boiling Water Proof Test	Passes the Test (IS 1734 (P-6): 1983 (Guideline))
Tensile Strength, N/mm ²	11.2 (IS 2380 (P-6): 1977
Compressive Strength, N/mm ²	32.8 (IS 2380 (P-7): 1977 (Guideline))
Flexural Strength, N/mm ²	65.5 (IS 1734 (P-11): 1983 (Guideline))
Modulus of Elasticity (Young's Modulus), N/mm ²	12880 (IS 2380 (P-4): 1977)
Screw Pull Test, Kg	231.3 (IS 2380 (P-14): 1977)
Nail Holding Test, Kg	157.1 (IS 2380 (P-14): 1977)
Shear Strength, Kg	157.5 (IS 2380 (P-9): 1977)
Impact Resistant Test (Mass of Hammer Use - 500gm)	1250, Average Drop of Height at the Final Failure, mm (IS 2380 (P-10): 1977)
Sound Absorption	Approx. 30 dB
Termite Proof	Yes
Overlay Laminate/Veneer	Yes
Surface Painting	Yes