



Recycled | Resilient | Remarkable

# 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 <sup>3</sup>	1010 (IS 1734 (Part -1)- 1983 (RA 2018) )
Moisture Content, % by mass	NII (IS 2380 (P-3)): 1977
Static Bending Strength, N/mm <sup>2</sup>	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 <sup>2</sup>	11.2 (IS 2380 (P-6): 1977)
Compressive Strength, N/mm <sup>2</sup>	32.8 (IS 2380 (P-7): 1977 (Guideline))
Flexural Strength, N/mm <sup>2</sup>	65.5 (IS 1734 (P-11): 1983 (Guideline))
Modulus of Elasticity (Young's Modulus), N/mm <sup>2</sup>	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



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