Wedge Boards

Prefab & Modular Buildings







Approved & Certified Technologies











Prefab & Modular Construction

Aspect	Conventional Masonry Construction	Prefab
Construction Time	Longer construction period, several months to over a year.	Shorter
Cost	Higher costs due to labour, materials, and extended construction period.	More cos construc
Energy Efficiency	Requires additional insulation for high energy efficiency.	Designe tempera
Durability	Life of 50–75 years with external walls total thickness ~230–350 mm mm (9–12") with Brick/block wall.	Similar li mm mm
Environmental Impact	Higher environmental impact due to materials and longer construction.	Lower er less was
Design Flexibility	Greater flexibility in design, allows for custom layouts.	Growing
Resale Value	Typically holds its value well over time.	Higher F prefabric
Maintenance Cost	Requires regular maintenance, especially for vulnerable materials.	Requires
Heat / Cold Insulation	Very low and in extreme climates heating or cooling cost is very high	Made of cooling of







b / Modular Construction

construction period, completed in weeks to a few months.

cost-effective due to reduced labour costs and quicker uction,

ed with energy efficiency in mind, better at maintaining interior ratures.

life of 50–75 years with external walls total thickness ~120–150
 m (4–6") with Wedge Boards LGFS Insulated Panels.

environmental impact, controlled factory construction leads to aste.

ng design options, customizable but somewhat limited.

Resale value, improving with growing acceptance of ricated homes

es much lower maintenance due to modern materials.

of pre-insulated designed to perform with almost zero heating or cost.

Wedge Boards | Technical Details

LGFS Wall Panel Specification – Wedge High-Durability Design (120 mm Total Thickness)

Wedge LGFS insulated walls are superior in thermal, seismic, and lateral performance, with a lightweight and flexible frame. High compressive strength is achieved with LGFS skeleton to match the overall strength & durability of Brick Walls.

Construction Breakdown (Outside to Inside):

LN.	Component	Thickness	Description	Parameter	Value / Grade
1	Cladding	8 mm	Wedge UV-coated High Strength Cement Board		
2	External Board	12 mm	High Strength Waterproof Wedge Perlite-Magnesia Board	Insulation	R20 – R30
	LGFS Frame Cavity	90 mm	Light Gauge Galvanized Steel (LGFS) C-Sections	Thermal Conductivity	~0.03–0.04 W/m·K
	Insulation	90 mm	Wedge HD Perlite Stone Wool	Acoustic Insulation	48–55 dB
5	Internal Board	10 mm	Wedge Perlite-Magnesia Board, interior-grade finish-ready	Durability	FOLLYOARD (with tipe, aluminum LOFC)
	Total Wall Thickness	120 mm	Compact, durable, and thermally insulated	Durability	50+ years (with zinc-aluminum LGFS)
				Fire Resistance	Very High

Key Comparisons

Criteria	Masonry Wall	Wedge LGFS Insulated Wall
Overall Strength	Strong in compression	Strong in frame performance
Flexibility / Ductility	Very Low (brittle)	High (LGFS steel + boards)
Seismic Suitability	Poor	Excellent
Insulation	Poor	Excellent (built-in)
Time of Construction	8-12 Months	< 1 Month
Weight per m ²	~400-500+ kg	~90-120 kg





Performance Characteristics



Wedge Boards













OEM | Wedge Boards Production













SGS

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Test Results			

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Benefits | Wedge Boards





Cost Effectiveness | Wedge Boards





Affordable luxury construction: ₹850 – ₹1280 / SQF
Longer guaranteed life > 50 – 75 years
High strength & maintenance free
Faster construction < 1 month • Less labour requirement • Less materials requirement Less space requirement • Lower materials transportation cost <10% Less Wastage > 90% materials can be re-used
Green Building – 100% recyclable
Easy & simple installation processes Order and cleanliness • Lower direct and indirect costs

OEM | Wedge Steel Production





Accessories







Metal Stud / Runner



Clip

Wedge Stone Wool Board











































Wedge





























































DESIGN | BUILD | MAINTAIN

Get Price >







Wedge



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