

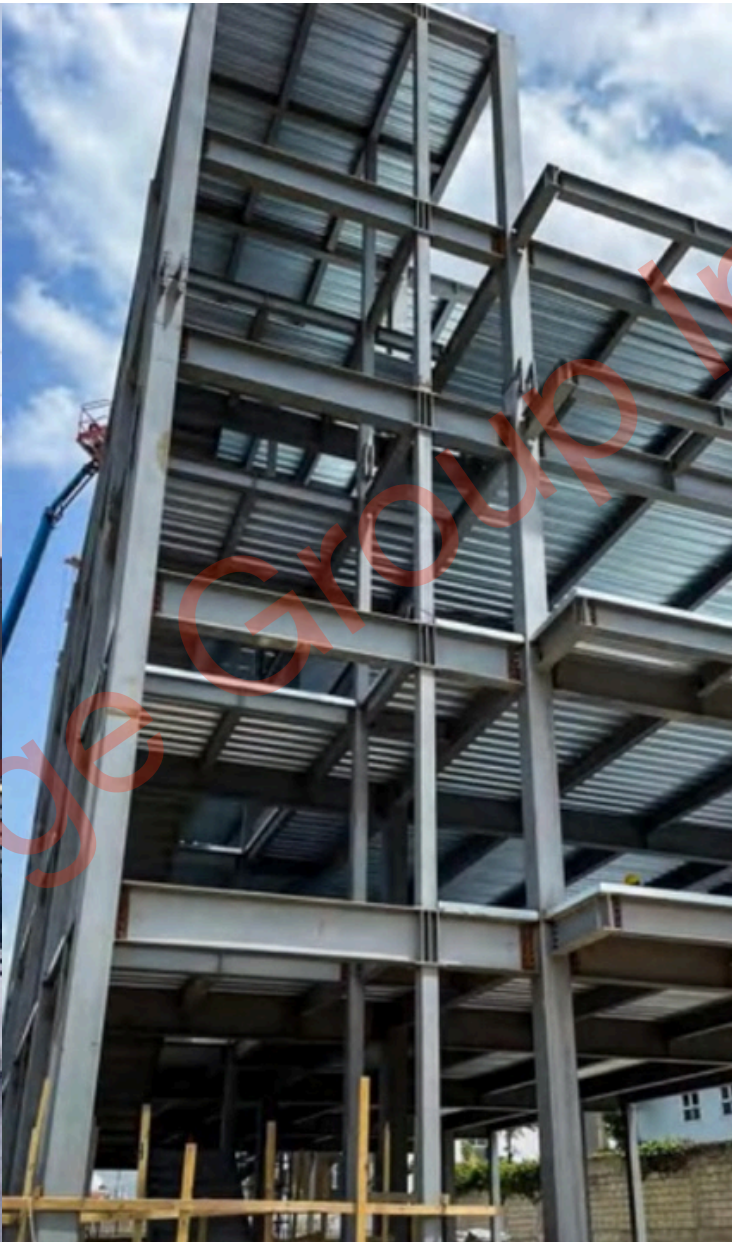
Wedge Boards

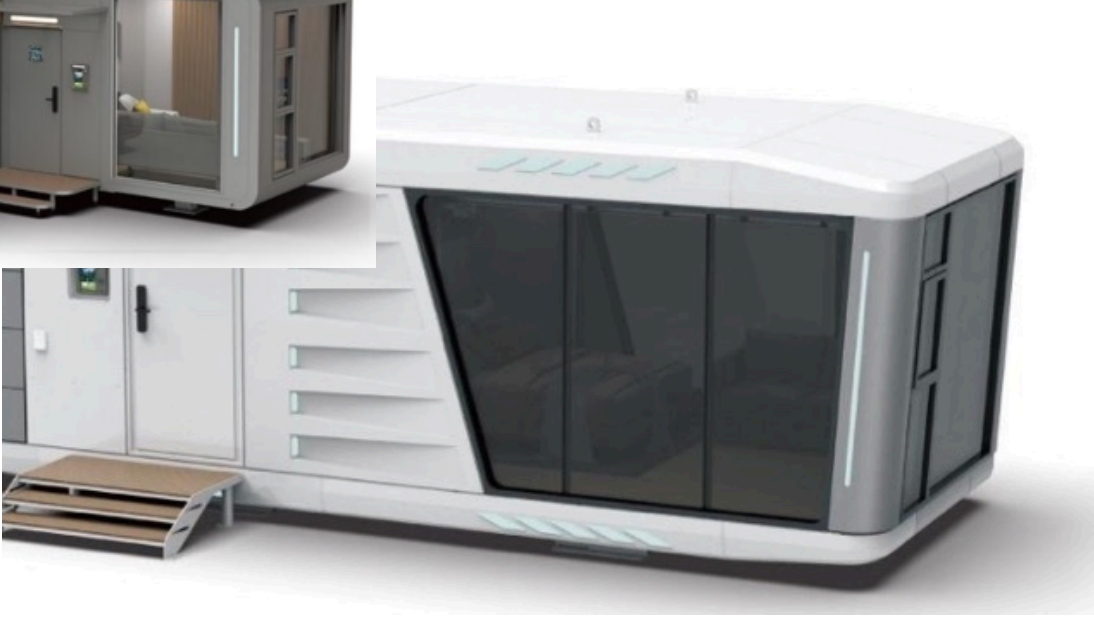
Prefab & Modular Buildings



Approved & Certified Technologies

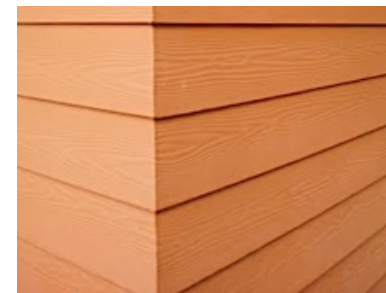






Prefab & Modular Construction

Aspect	Conventional Masonry Construction	Prefab / Modular Construction
Construction Time	Longer construction period, several months to over a year.	Shorter construction period, completed in weeks to a few months.
Cost	Higher costs due to labour, materials, and extended construction period.	More cost-effective due to reduced labour costs and quicker construction,
Energy Efficiency	Requires additional insulation for high energy efficiency.	Designed with energy efficiency in mind, better at maintaining interior temperatures.
Durability	Life of 50–75 years with external walls total thickness ~230–350 mm mm (9–12") with Brick/block wall.	Similar life of 50–75 years with external walls total thickness ~120–150 mm mm (4–6") with Wedge Boards LGFS Insulated Panels.
Environmental Impact	Higher environmental impact due to materials and longer construction.	Lower environmental impact, controlled factory construction leads to less waste.
Design Flexibility	Greater flexibility in design, allows for custom layouts.	Growing design options, customizable but somewhat limited.
Resale Value	Typically holds its value well over time.	Higher Resale value, improving with growing acceptance of prefabricated homes
Maintenance Cost	Requires regular maintenance, especially for vulnerable materials.	Requires much lower maintenance due to modern materials.
Heat / Cold Insulation	Very low and in extreme climates heating or cooling cost is very high	Made of pre-insulated designed to perform with almost zero heating or cooling 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
1	Cladding	8 mm	Wedge UV-coated High Strength Cement Board
2	External Board	12 mm	High Strength Waterproof Wedge Perlite-Magnesia Board
	LGFS Frame Cavity	90 mm	Light Gauge Galvanized Steel (LGFS) C-Sections
	Insulation	90 mm	Wedge HD Perlite Stone Wool
5	Internal Board	10 mm	Wedge Perlite-Magnesia Board, interior-grade finish-ready
	Total Wall Thickness	120 mm	Compact, durable, and thermally insulated

Performance Characteristics

Parameter	Value / Grade
Insulation	R20 – R30
Thermal Conductivity	~0.03–0.04 W/m·K
Acoustic Insulation	48–55 dB
Durability	50+ years (with zinc-aluminum LGFS)
Fire Resistance	Very High

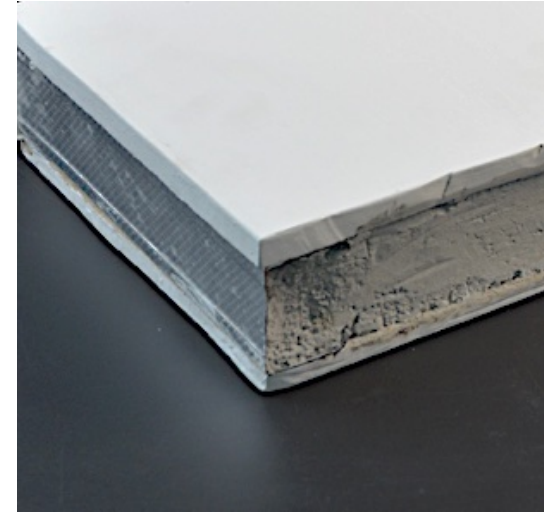
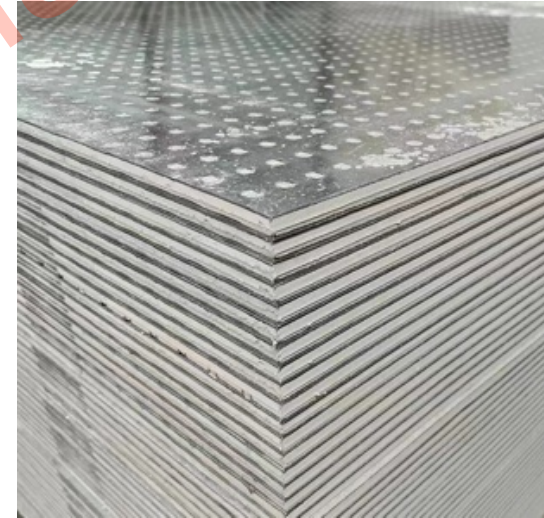
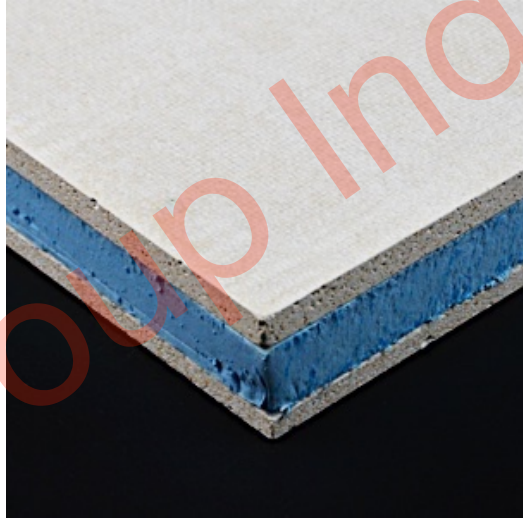
Key Comparisons

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



Wedge Boards

Wedge



OEM | Wedge Boards Production



SGS

Test Report

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Test Piece:

Sample No. 0001 Sample ID Description

1 0001/001/001 0001/001/001

Remarks:

(1) Negative = 1 point = 0.001%
(2) (N1) = Not Detected
(3) (N1) = Not Detected
(4) (N1) = Not Detected
(5) (N1) = Not Detected

Analysis:

Test Method: With reference to ISO 15534-1, analysis was performed by NDT

Test Results:

Test Item	Unit	Result	Acceptance
Discoloration	0.001-0.01	0.001	0.1
Discoloration	0.01-0.1	0.01	0.1
Discoloration	0.1-1	0.1	0.1
Discoloration	1-10	1	0.1
Discoloration	10-100	10	0.1
Discoloration	100-1000	100	0.1
Discoloration	1000-10000	1000	0.1

Notes:

(1) Negative = 0.001% Positive = 0.001%
(2) (N1) = Not Detected
(3) (N1) = Not Detected
(4) (N1) = Not Detected
(5) (N1) = Not Detected

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02455/2019/001

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TEST REPORT

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Test Information:

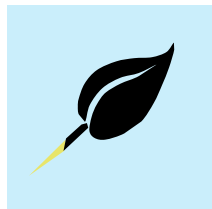
Sample description: Size 100x100x10

No.	Test Item	Test Method	Test condition	Test result	Acceptance	Conclusion
1	Density	ASTM D1535 Section 9	Condition 1: 20°C/50% RH Condition 2: 20°C/50% RH	1.20 g/cm ³	1.20 g/cm ³	Pass
2	Flexural strength (dry condition)	ASTM D1535 Section 9	Condition 1: 20°C/50% RH Condition 2: 20°C/50% RH	12.0 MPa	12.0 MPa	Pass
3	Water absorption	ASTM D1535 Section 9	Condition 1: 20°C/50% RH Condition 2: 20°C/50% RH	0.2%	0.2%	Pass
4	Moisture content	ASTM D1535 Section 9	Condition 1: 20°C/50% RH Condition 2: 20°C/50% RH	0.2%	0.2%	Pass

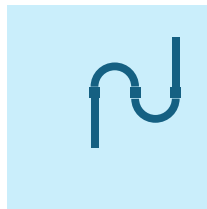
SGS

02455/2019/001

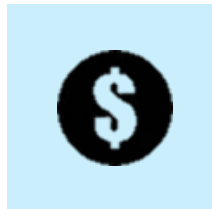
Benefits | Wedge Boards



Green & Sustainable



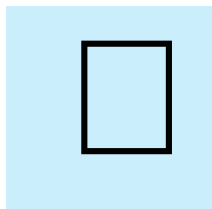
Easy installation
of services



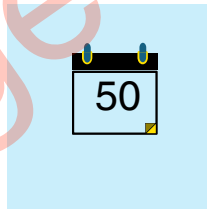
Cost Effective



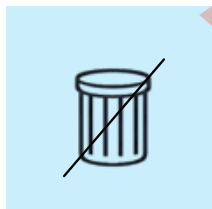
High Strength



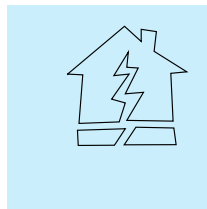
Rapid Installation



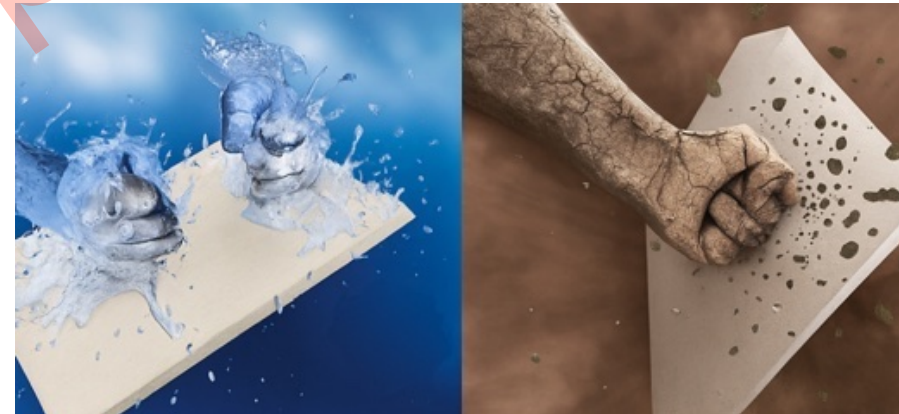
Waterproof
& Durable



Reduced wastages



Seismic resistant



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



Screws
(board to metal frame)



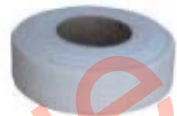
Screws
(metal frame)



Anchors



Multi-purpose
Joint Compound



2" fiberglass
Mesh tape



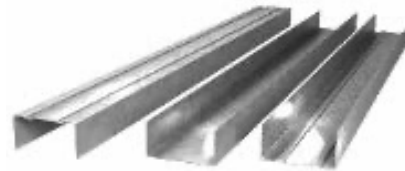
Backer rod



PU Sealant



Metal Stud / Runner



Metal Chanel

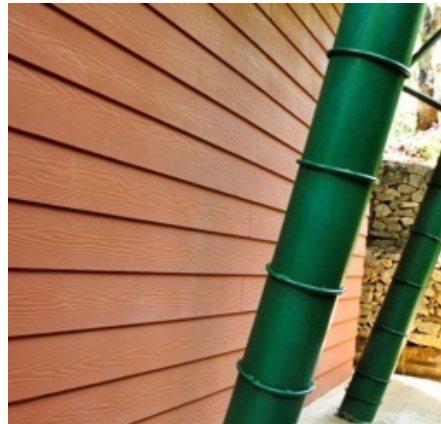


Clip



Wedge Stone Wool
Board









Wedge





















Get Price >



Wedge

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