

Our range of products:



Multi Hole Brick



Extruded Cladding
Tile



Floor Tile



8 Hole Brick



Handmade Cladding
Tile



Breeze Block

Build Better, **Live Greener**

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THERMOBRICK

Built To Last

A product by Jindal Ceramica

Foundation for generations :

Story of Jindal Ceramica



Jindal Ceramica has been a trusted partner in creating dream spaces, crafting exceptional building materials with a focus on innovation and sustainability for years.



Thermobrick

our one-of-a-kind Perforated Clay Hollow Bricks is an extension of the same ethos of our commitment to a better world.





Building a Sustainable Future with GRIHA-Enlisted Thermobrick



Inspired by Satya Pal Jindal's vision for sustainability, our Thermobrick is proudly listed in GRIHA — a prestigious recognition for green building excellence.

Why Choose a GRIHA-Enlisted Product?

- 🌿 **Lower Carbon Footprint:** Reduces emissions through eco-friendly production and energy-efficient performance.
- 🌿 **Energy Efficiency:** Cuts down heating and cooling costs.
- 🌿 **Eco-Friendly:** Made from sustainable, locally sourced materials.
- 🌿 **Enhanced Building Performance:** Superior thermal and sound insulation.
- 🌿 **Regulatory Advantage:** Easier compliance with green building norms.
- 🌿 **Increased Property Value:** Higher market value for eco-certified structures.

Join our commitment to a smarter, more sustainable future with enhanced speed, savings, and durability.

Build Better, Live Greener





State-of-the-Art Production at our Jhajjar Factory



Recycling 100% of the production process materials including residual water and utilising the residual heat from the kiln for drying

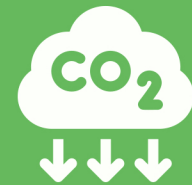
Our natural, environmentally friendly yet technologically advanced specialised **Thermobricks offer sustainable building solutions with-**



Higher fuel efficiency.



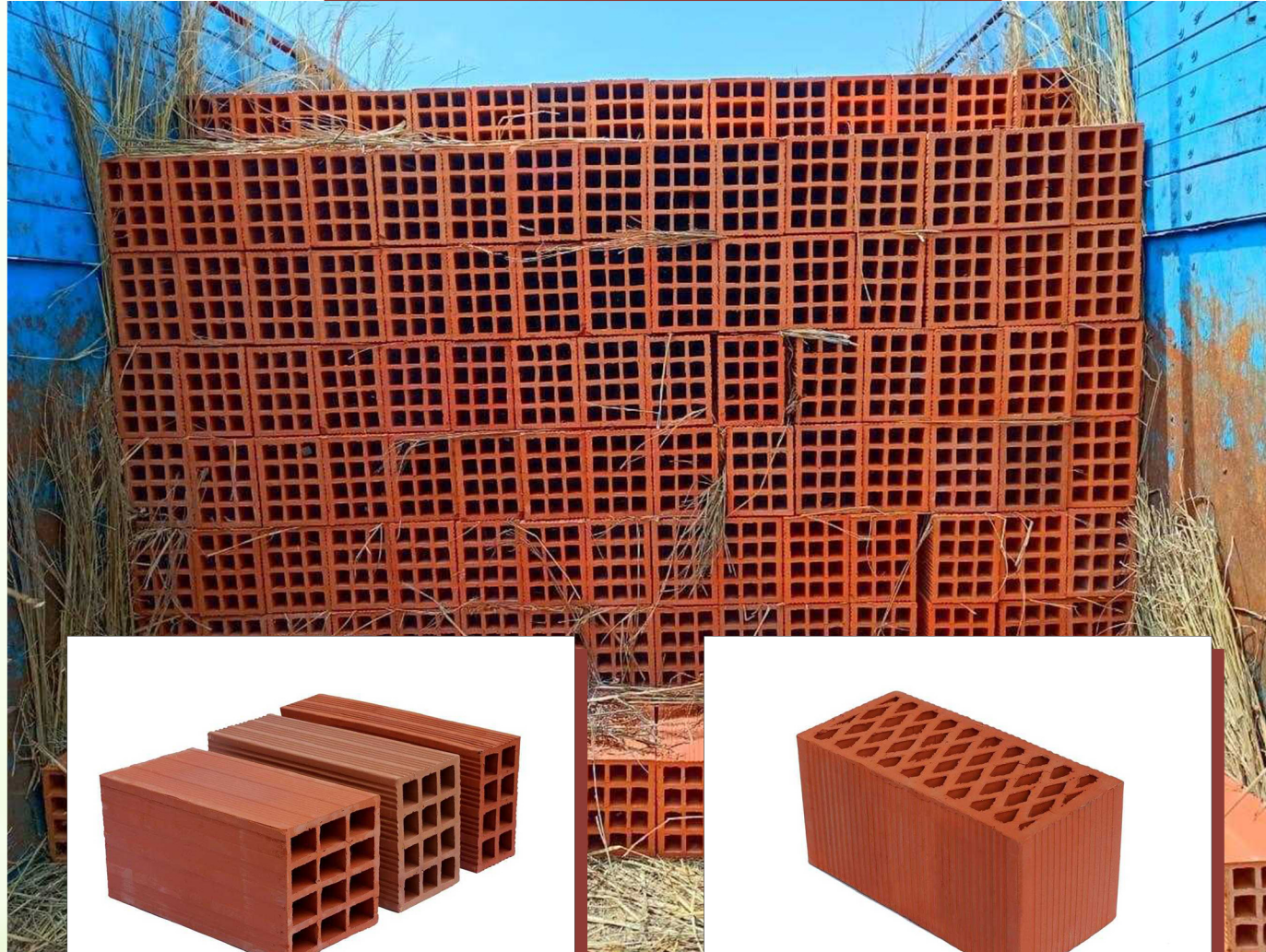
Health & safety of our employees and the communities in the vicinity



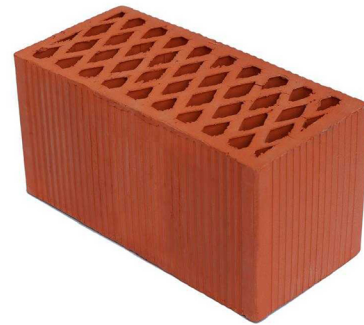
Minimizing Carbon emissions during production.



Minimal particulate matter emission during Firing Process



Thermobrick HP



Thermobrick VP

Introducing Thermobrick:

The most Advanced Walling Solution today

Thermobrick is a multicellular hollow clay block walling system designed for better economics, efficiency, and performance.

The holes in the brick make it lighter and easier to handle than traditional bricks, providing higher thermal insulation and offering a smarter, sustainable, better choice.



Build Faster



Equivalent to 9 bricks to achieve fastest construction.



60% lighter than conventional bricks making it easier & faster to lay.



The wall can be left exposed; saving plaster, paint and maintenance costs.

Build Smarter



Substantial savings on structural cost due to less dead load.



Uniform block size helps optimise the number required, resulting in less on-site wastage.



Uses 95% less water than traditional methods.

Build Better



Stronger than conventional bricks.



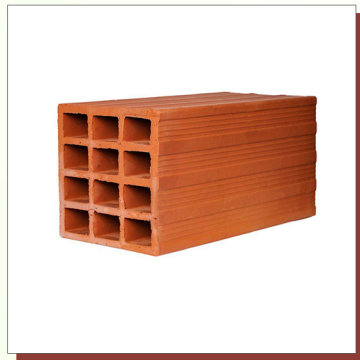
<15% water absorption ensures minimal risk of dampness, cracks or shrinkage of walls.



Excellent thermal & sound insulation.

The Power of Two:

Load Bearing and Non-Load Bearing Thermobrick Solutions



For Non-Load Bearing Walls:

Horizontally perforated blocks excel in infill masonry for non-load bearing walls in high-rises, houses, hospitals, schools, and commercial buildings.

STC: 49, **Thermal Conductivity (W/mK):** 0.251,
U-Value (W/(m²K): 1.26



For Load-Bearing Walls:

Vertically perforated blocks offer superior compressive strength for load-bearing construction, eliminating columns and reducing structural costs. Ideal alternative to AAC blocks and conventional bricks.

Disclaimer: Thermal conductivity report by PIBCO Limited; Acoustic report by Prasar Bharti

Building Excellence Brick by Brick



Bricks that Build Better

PRODUCT	SIZE	WEIGHT (Kg)	COMPRESSIVE STRENGTH (KG/CM ²)
VERTICAL HOLLOW BLOCK	280x135x130mm	5.5	100
VERTICAL HOLLOW BLOCK	280x70x130mm	2.8	100
VERTICAL HOLLOW BLOCK	280x205x130mm	8.3	100
HORIZONTAL HOLLOW BLOCK	100x200x300mm	5.75	35
HORIZONTAL HOLLOW BLOCK	150x200x400mm	11.5	35
HORIZONTAL HOLLOW BLOCK	200x200x400mm	12.4	35



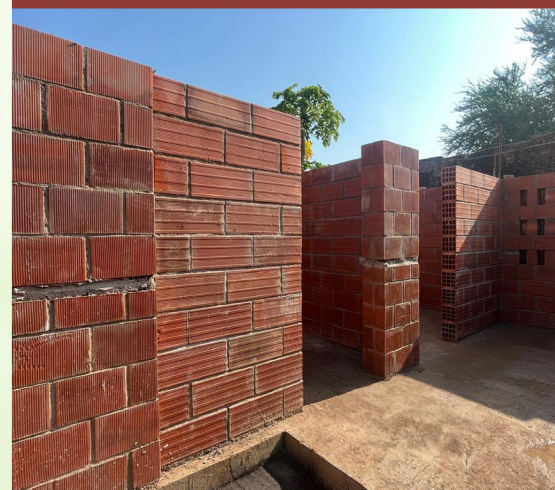
Technical Specifications

WATER ABSORPTION (%)	PERFORATION (%)	EFFLORESCENCE
<15	26	negligible
<15	26	negligible
<15	26	negligible
<15	>45	negligible
<15	>45	negligible
<15	>45	negligible

Disclaimer: The tests are done by PIBCO Ltd (R&D Centre)

Transforming Communities:

A Glimpse of the Housing Project in Madhya Pradesh



Enhancing Home Value with **Thermobricks**

Thermobricks clay hollow blocks are increasingly being used, delivering significant benefits including cost reduction, improved energy efficiency, and accelerated construction schedules, making them a smarter choice to enhance the overall value of the Infrastructure.

Keeping in mind its advantages and applications while prioritising compliances, Thermobricks can significantly contribute to developing sustainable and cost-effective housing in India.

Here's how we achieve this –

Advantages



Cost-Effectiveness:

Less Dead Load: Hollow blocks, being 60% lighter, significantly reduce building weight, offering cost savings on foundations, steel, and construction due to faster assembly with a lighter framework.

Reduced Mortar Usage: The larger size of these blocks means fewer joints, which decreases the amount of mortar required for construction.



Energy Efficiency:

Thermal Insulation: The air pockets in hollow blocks provide good thermal insulation, helping to maintain cooler indoor temperatures and reducing energy costs for air conditioning.

Sustainable Manufacturing: Clay is a natural material that often comes with energy-efficient production methods, making these an eco-friendly option.



Structural Advantages:

Lightweight: The reduced weight of hollow blocks makes them easier to handle and reduces the load on the foundation and structure, helping in cost savings.

Sound Insulation: The air gaps in hollow blocks also provide sound insulation, improving the acoustic comfort of the buildings.



Construction Efficiency:

Ease of Installation: Larger block sizes and lighter weight allow for faster construction compared to traditional bricks.

Versatility: Suitable for various types of buildings, including residential, commercial, and institutional structures.

Analysis for 1 m² Brick Work

BLOCK	HORIZONTAL HOLLOW BLOCK 8" thick wall	RED BRICK 9" thick wall
Size (mm) L X B X H	400 X 200 X 200	230 X 110 X 75
COST PER BLOCK IN RS (BASE COST EXCL. LOADING, TRANSPORT, UNLOADING CHARGES)	70	9
TRANSPORT, LOADING, UNLOADING PER BLOCK	(Assuming 35 ton - Rs 25000) 9	(Assuming 35 ton - Rs 20000) considering availability 2
TOTAL BLOCK COST IN RS	79	11
COST PER UNIT FOR COMPARISION	7.18	1
NO OF BRICKS	12	102
MORTAR IN M ³ FOR 1 M ² BRICK WORK	0.008	0.036

Disclaimer: Analysis conducted by Architect Vamsi, Sthala Architects
*Special CSR Pricing for Affordable Housing Projects

Analysis for 1 m² Brick Work

BLOCK	HORIZONTAL HOLLOW BLOCK 8" thick wall	RED BRICK 9" thick wall
MORTAR COMPARISION (NO OF TIMES)	1	4.5
LABOUR REQUIRED PER 1 M ³	0.5 mason, 1 helper	1 mason, 2 helper
LABOUR REQUIRED PER 1 M ²	i.e 0.2 m ³ 0.1 mason, 0.2 helper	i.e 0.23 m ³ 0.23mason, 0.46 helper
COST OF BLOCKS IN RS	948	1122
COST OF MORTAR RS 4500/M ³ IN RS	36	162
LABOUR COST IN RS (MASON - RS 1000 HELPER - RS 700)	240	552
TOTAL COST PER M ²	1224	1836
		50% Costlier

On-Site Training

by Jindal Ceramica Technical Experts



Enhance your construction expertise with our free on-site training sessions! Our team, including experienced civil engineers and trained masons, offers hands-on guidance on Thermobrick Smart Bricks application.

We provide tailored training sessions for your project in-charge and masons to ensure efficient and high-quality masonry work. Our step-by-step training approach covers everything from material handling to precise brick laying techniques, ensuring your team masters the process quickly and effectively.



Contact our product development team today to schedule a session and build with confidence!