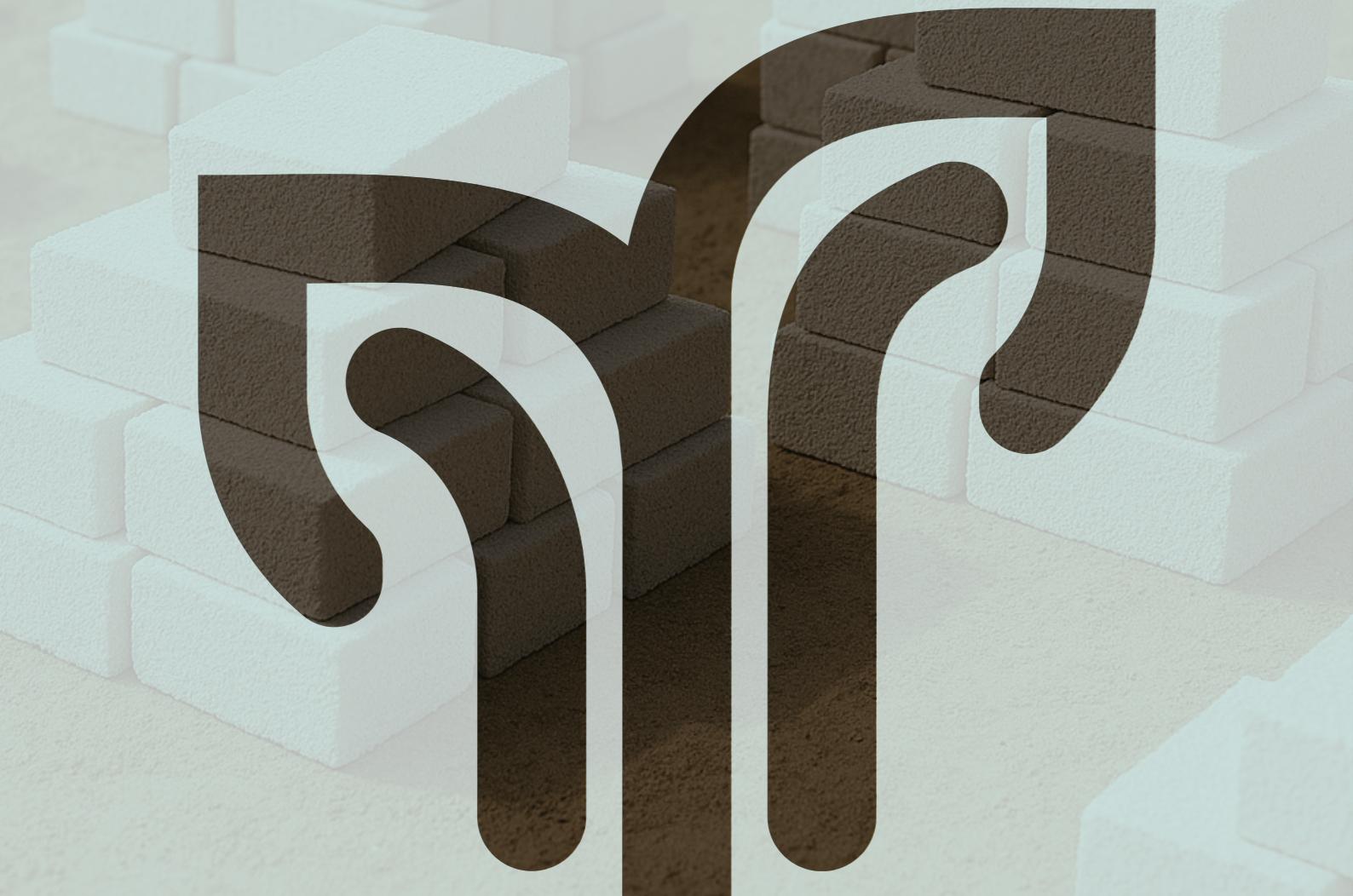




# MOHANCON

## B U I L D S

Build Green, Build Strong.





**The Trusted Name in AAC Blocks  
And Construction Mortar**

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# ABOUT OUR Company

At **Mohancon Builds Pvt. Ltd.**, we are on a mission to transform the way India builds - by introducing smarter, stronger, and more sustainable alternatives to conventional construction materials.

Specializing in the manufacturing of Autoclaved Aerated Concrete (AAC) blocks and high-performance adhesive mortar, our products are designed to meet the demands of modern construction - combining durability with environmental responsibility.

By embracing cutting-edge technology and eco-conscious practices, we help build structures that aren't just robust - they're future-ready. At Mohancon, every block we produce is a step toward a stronger, greener India.

## Why Choose Mohancon Builds?

At Mohancon Builds Pvt. Ltd., we merge innovation with reliability to deliver construction solutions that are not only future-ready but also trusted by builders across regions. Here's why we stand out:

### Competitive Advantages

Precision-engineered AAC blocks and mortar that are lighter, faster to install, and built for long-term performance.

### Cost Efficiency

Low structural load, energy use, & labor needs mean more savings over time - without compromising on quality.

### Superior Quality Control

Manufactured in-house in Madhya Pradesh with strict quality checks for strength, accuracy, and reliable supply.

### Green and Sustainable Practices

Made using eco-friendly materials and processes that save water, energy, and reduce environmental impact.

### Faster Construction Times

Precision-cut blocks and ready-to-use mortar speed up construction, reduce waste, and ease site handling.

### Support & After-Sales Service

Timely delivery, expert assistance, and dealer training to support smart and confident building decisions.

## OUR PRODUCT

# Autoclaved Aerated Concrete Blocks-(AAC)

Autoclaved Aerated Concrete (AAC) Blocks represent a breakthrough in building technology - crafted from a precise blend of cement, lime, sand, water, and an aerating agent, and cured under high-pressure steam in advanced autoclave systems. This innovative manufacturing process results in blocks that are exceptionally lightweight, structurally sound, and thermally efficient, making them the ideal choice for sustainable, high-performance construction.

Particulars	Units	Values	Requirement as per IS-2185 Part-3
Size (Length x Height)	mm	600×200	NA
Size (Width)	mm	75 / 100 / 125 / 150 / 200 / 225 / 250 / 300	NA
Size Tolerance (Max)	mm	±3 (Height & Width), ±3 (Length)	H & W = ±3 mm, L = ±5 mm
Compressive Strength	N/mm <sup>2</sup>	≥ 3.5 for Grade-2 and ≥ 4.0 for Grade-1	≥ 3.0 for Grade-2 and ≥ 4.0 for Grade-1 @ density range 551-650 Kg/m <sup>3</sup>
Oven Dry Density	Kg/m <sup>3</sup>	560 - 640	551 - 650
Fire Resistance	Hrs.	4 (for 150 mm thick wall)	Min 2 hrs. is desirable
Thermal Conductivity (K Value)	W/mK	0.16 - 0.21	0.24 Max for G-1 and G-2 @ density range 551-650 Kg/m <sup>3</sup>
Sound Reduction	dB	37-42	NA
Modulus of Elasticity	MPa	2040	NA
Thermal Resistance (R Value)	m <sup>2</sup> K/W	0.95 (200 mm width) @ 0.21 W/mK	Max Value is desirable
Thermal Conductance (U Value)	W/m <sup>2</sup> K	1.05 (200 mm width) @ 0.21 W/mK	Minimum Value is desirable
Drying Shrinkage (Maximum)	%	0.04 Maximum	0.1 for Gr-2 & 0.05 for Gr-1 Maximum
Sound Transmission Class Rating	dB	44	NA
Capillary Water Absorption	gm/dm <sup>2</sup>	180 Max	< 210 @ 24 hours (as per NFP 14306)

## AAC BLOCKS vs RED BRICKS

# Why are we better

**Lightweight Yet Durable**

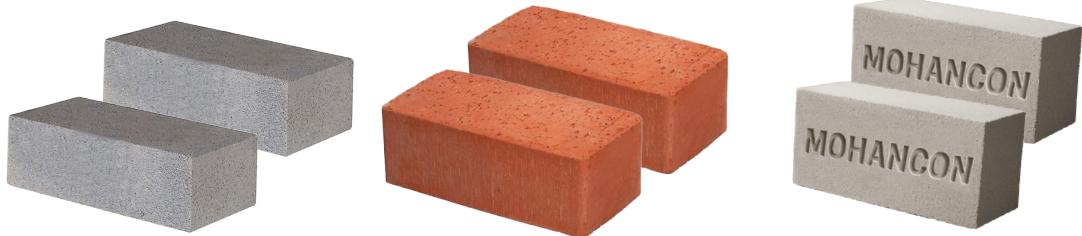
AAC blocks are up to 3 times lighter than clay bricks, reducing dead load on the structure.

**Advanced Insulation**

The porous structure of AAC blocks keep interiors cooler in summer and warmer in winter.

**Environment-Friendly**

Made from recyclable, non-toxic materials, AAC blocks are eco-friendly with a lower carbon footprint.



Particulars	Fly Ash Blocks	Red Clay Bricks	AAC Blocks
Density	1500–1800 Kg/m <sup>3</sup>	1800 Kg/m <sup>3</sup>	550–650 Kg/m <sup>3</sup> (oven dry)
Compressive Strength	3–7 mpa	5–10 mpa	3–5 mpa (higher strength in thicker walls)
Thermal Conductivity	0.35–0.55 W/mK	0.81 W/mK	0.16 W/mK
Water Absorption	Moderate (10-20%)	High (due to high density)	Low (due to lower density)
Sound Insulation	Moderate	Fair (better than clay bricks but worse than AAC blocks)	Excellent (due to air pockets)
Eco-Friendliness	High (recycles industrial waste, low carbon footprint)	Low (requires clay mining and firing in kilns)	High (using fly ash and reducing cement consumption)
Energy Saving	Moderate (insulation benefits)	None (traditional brick does not offer energy savings)	High (reduces HVAC load significantly)

## AAC BLOCKS

# Sizes Offered

Sr No.	Dimension (mm)	CBM of AAC	No of Blocks in 1 CBM
1.	600 × 200 × 50	0.006	166.67
2.	600 × 200 × 75	0.009	111.11
3.	600 × 200 × 100	0.012	83.33
4.	600 × 200 × 125	0.0015	66.67
5.	600 × 200 × 150	0.0018	55.56
6.	600 × 200 × 175	0.0021	47.62
7.	600 × 200 × 200	0.0024	41.67
8.	600 × 200 × 225	0.0027	37.04
9.	600 × 200 × 250	0.0030	33.33
10.	600 × 200 × 275	0.0033	30.30
11.	600 × 200 × 300	0.0036	27.78



## AAC BLOCKS

# Key Benefits

AAC blocks are 9x bigger than red bricks, using 66% less mortar. They're lighter, reducing structural load and cutting costs on steel, cement, and energy.



### Energy Efficient

High thermal insulation helps maintain indoor temperature, reducing heating and cooling costs.



### Fire Resistant

Made from non-combustible materials, AAC blocks offer fire resistance of 2–6 hours, ideal for fire-safe construction.



### Pest Resistant

Being inorganic, AAC blocks naturally resist termites and pests, reducing the risk of damage.



### Low Wastage

Breakage is under 5%, ensuring better material utilization and lower on-site waste.



### Sound Insulation

Good sound-blocking properties make AAC ideal for residential and commercial buildings.



### Earthquake Resistant

Lightweight yet strong, AAC blocks enhance structural stability during seismic activity.



### Water Saver

Only the joints need curing—blocks themselves do not require water, saving consumption during construction.



### Space Efficient

Available year-round, reducing the need for bulk storage at the site.



### Time Saving

Larger size and light weight speed up construction and reduce labor time.



### Easy to Work With

Easy to lift, cut, and install, especially in high-rise and large-scale projects.

## OUR PRODUCT

# Block Joining Mortar

Crafted for next-generation building needs, Mohancon's Mortar Adhesive is a polymer-enriched, ready-to-use thin joint solution designed specifically for AAC block installations. It offers exceptional adhesion strength, reduces material consumption, and eliminates the need for traditional sand-cement mortar. With faster setting time, minimal shrinkage, and improved bonding, it ensures cleaner finishes, stronger joints, and faster project completion - making it the trusted choice for high-performance, cost-effective construction.

Packaging Available in 40 Kg Bags



Parameters	Specifications
Appearance	Grey Powder
Water Required	35%
Pot Life	~1.5 - 2 hrs
Curing	Not required
Tensile Adhesive Strength	>0.4 N/mm <sup>2</sup> (as per ASTM - C1660)
Coverage	170 - 180 sq.ft (for 4" thick blocks)



High bond strength



No shrinkage cracks



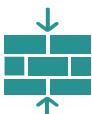
Shock & impact resistant



High thermal Insulation



Superior adhesion



Excellent tensile strength

## AAC BLOCKS

# Ideal Use Cases

AAC Blocks and Block Joining Mortar by Mohancon are ideal for a wide range of construction projects, offering strength, efficiency, and durability across:



### High-Rise Buildings

Lightweight yet strong materials reduce structural load and speed up construction.



### Residential Projects

Perfect for building modern homes with better insulation, soundproofing, and reduced material wastage.



### Commercial Buildings

Supports large-scale developments with consistent quality & faster execution.



### Hospitals & Schools

Provides a durable, fire-resistant, comfortable and safe environment for public spaces.

## Committed to Green Building, Powered by Innovation

At Mohancon, sustainability isn't just a feature - it's a foundation. Our AAC blocks and mortar adhesive are designed to support energy-efficient, eco-conscious construction. By offering excellent thermal insulation, our products help reduce the need for artificial heating and cooling, leading to significant energy savings over a building's lifetime. The manufacturing process itself results in lower CO<sub>2</sub> emissions compared to traditional materials, and the products are non-toxic, recyclable, and generate minimal construction waste. With Mohancon, every build contributes to a cleaner, greener, and more responsible future.



## **GET IN TOUCH**

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Whether you're building a home, a high-rise, or a dream project - Mohancon is here to support you with quality and reliability every step of the way.

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