



**STEP INTO THE  
NEW ERA OF CONSTRUCTION WITH**

**BLOCKCON**  
**AAC BLOCKS**



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**BlockCon AAC blocks** are advanced, lightweight, and precast construction materials designed for modern building needs. These blocks are crafted using a precise blend of cement, lime, fly ash, water, and an aerating agent. The mixture undergoes a curing process under controlled heat and pressure, resulting in blocks that have exceptional strength, durability, and reliability.

Known for being environmentally friendly, BlockCon AAC blocks offer outstanding benefits such as superior thermal insulation, excellent fire resistance, and effective soundproofing. These properties not only improve the energy efficiency and comfort of buildings but also contribute to sustainable construction practices.

The lightweight nature of these blocks makes them easy to handle, significantly reducing construction time and labour costs. Their versatility ensures they are suitable for a wide range of applications, from residential homes to large commercial complexes and industrial projects. BlockCon AAC blocks provide a smart, eco-conscious, and cost-effective solution for building modern, energy-efficient structures.





With BlockCon, you're not just building structures; you're creating legacies that endure. Choose Lighter, High Strength, smarter, faster, and greener construction with BlockCon.

## Key Features



### Lightweight and Easy to Handle

BlockCon AAC blocks are significantly lighter than traditional bricks, making them easier to transport, handle, and install. This reduces construction time and labor effort.



### High Strength and Durability

Despite being lightweight, AAC blocks have excellent compressive strength, ensuring long-lasting performance and structural stability.



### Thermal Insulation

Their superior thermal insulation properties help maintain comfortable indoor temperatures, reducing the need for excessive heating or cooling and lowering energy bills.



### Fire Resistance

BlockCon AAC blocks are highly fire-resistant, offering enhanced safety for buildings. They can withstand high temperatures, making them ideal for fire-prone areas.





## **Soundproofing**

These blocks provide excellent acoustic insulation, reducing noise transmission and ensuring a peaceful environment, especially in residential and commercial spaces.



## **Eco-Friendly**

Manufactured using fly ash, a waste product from thermal plants, BlockCon AAC blocks promote the recycling of industrial waste. They have a lower carbon footprint compared to traditional materials.



## **Cost-Effective**

Their lightweight nature reduces the load on foundations, potentially lowering the cost of structural supports. Faster construction also translates into labour and time savings.



## **Precision and Consistency**

The manufacturing process ensures uniform size and shape, making it easier to achieve smooth and even finishes without additional plastering or adjustments.



## **Pest and Mold Resistance**

AAC blocks are inorganic and resist pests, termites, and mold, ensuring better indoor air quality and longevity of the structure.





## Versatile Applications

Suitable for various types of constructions, including residential buildings, commercial spaces, industrial facilities, and high-rise structures.

## Why Choose **BLOCKCON**

At BlockCon, we combine cutting-edge technology with sustainable practices to create building materials that elevate your projects. Our AAC blocks offer unparalleled strength, precision, and efficiency, making them the ultimate choice for modern construction.



## ADVANTAGES at a glance:

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- Speeds up construction by 30%, reducing labour and project timelines.
- Saves up to 20-30% on energy costs for heating and cooling.
- Eco-friendly composition supports green building certifications.

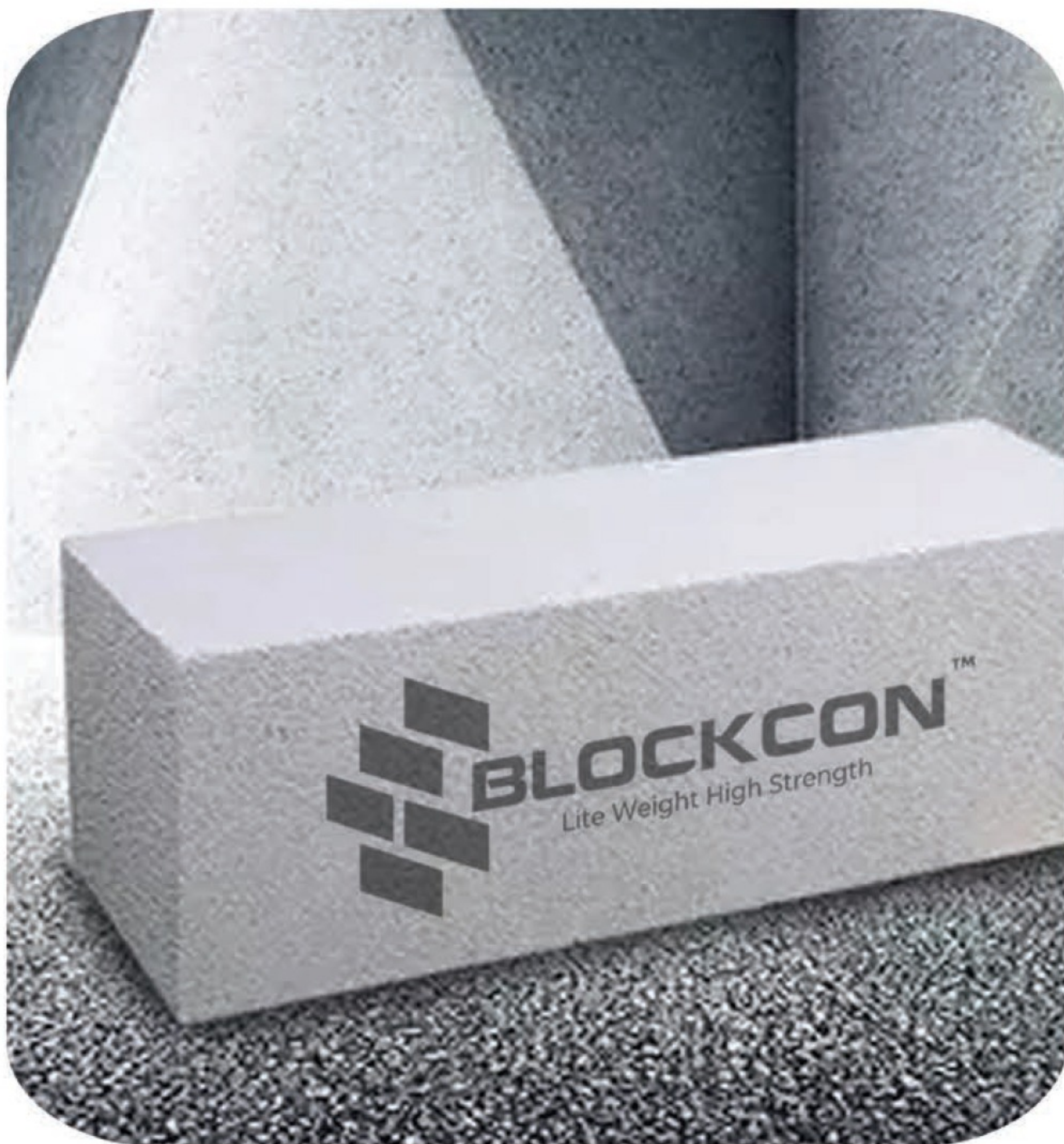


# Where

# **BLOCKCON** Excels :

**BlockCon AAC Blocks** are versatile and adaptable, making them suitable for a wide range of applications:

- **Residential Buildings:** Ideal for homes and apartments, offering comfort, safety, and energy efficiency.
- **Commercial Spaces:** Perfect for offices, malls, and showrooms due to their strength and durability.
- **Industrial Units:** Reliable for warehouses, factories, and cold storage with high load-bearing capacity.
- **Public Infrastructure:** Suitable for schools, hospitals, and government projects, ensuring long-term reliability and safety.



## **BENEFITS** for every project:

### **Eco-Friendly Construction :**

Manufactured using fly ash and other recyclable materials, Blockcon helps reduce the carbon footprint.

**Cost Efficiency :** Faster installation, minimal wastage, and reduced plastering costs make it a cost-effective choice.

**Long-Term Durability :** Resistant to fire, pests, and harsh weather conditions, ensuring a longer life span for your structures.

**Energy Savings :** Superior thermal insulation lowers the need for heating and cooling, saving energy costs.





## Why Builders & Contractors trust **BLOCKCON**

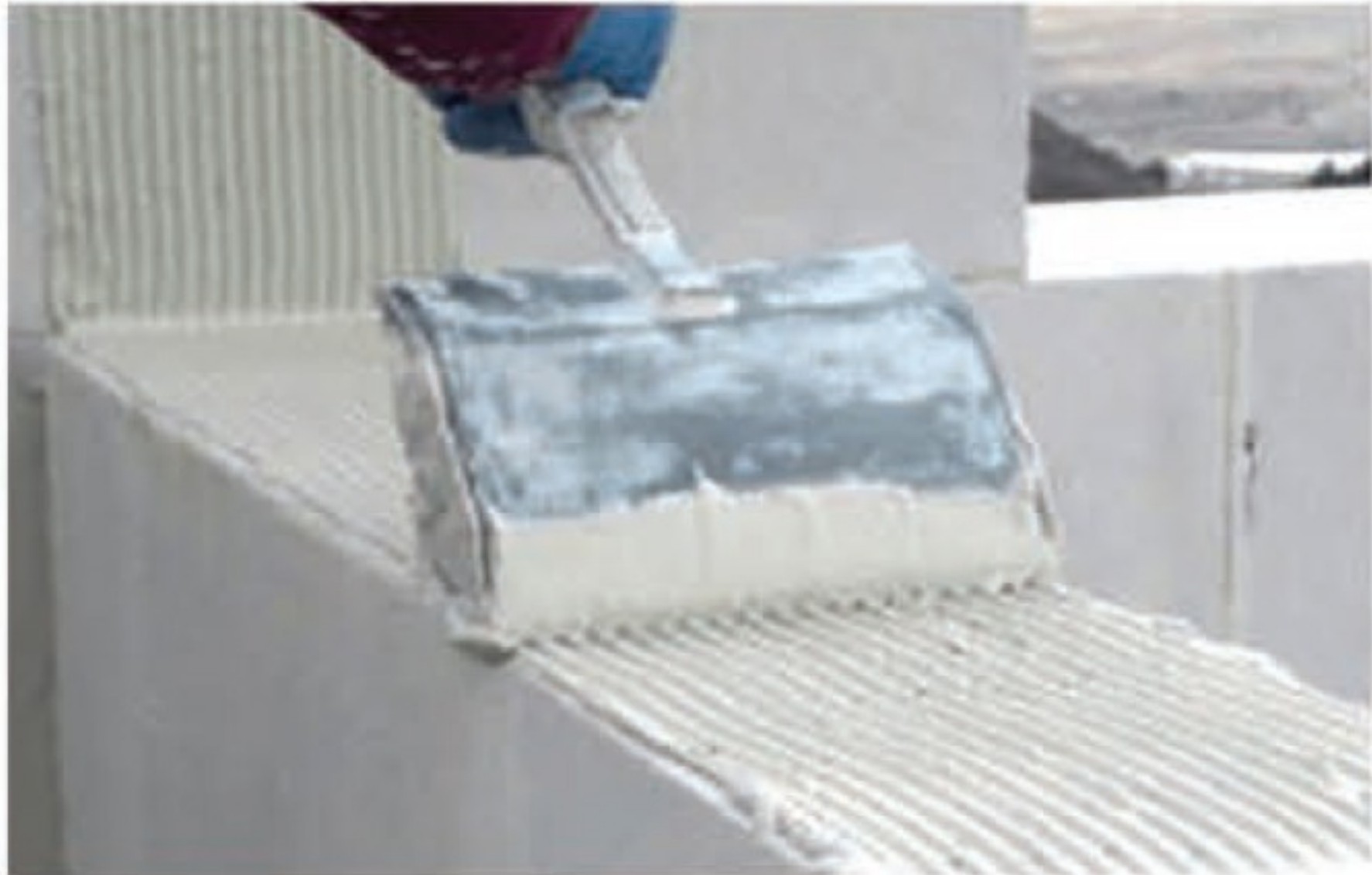
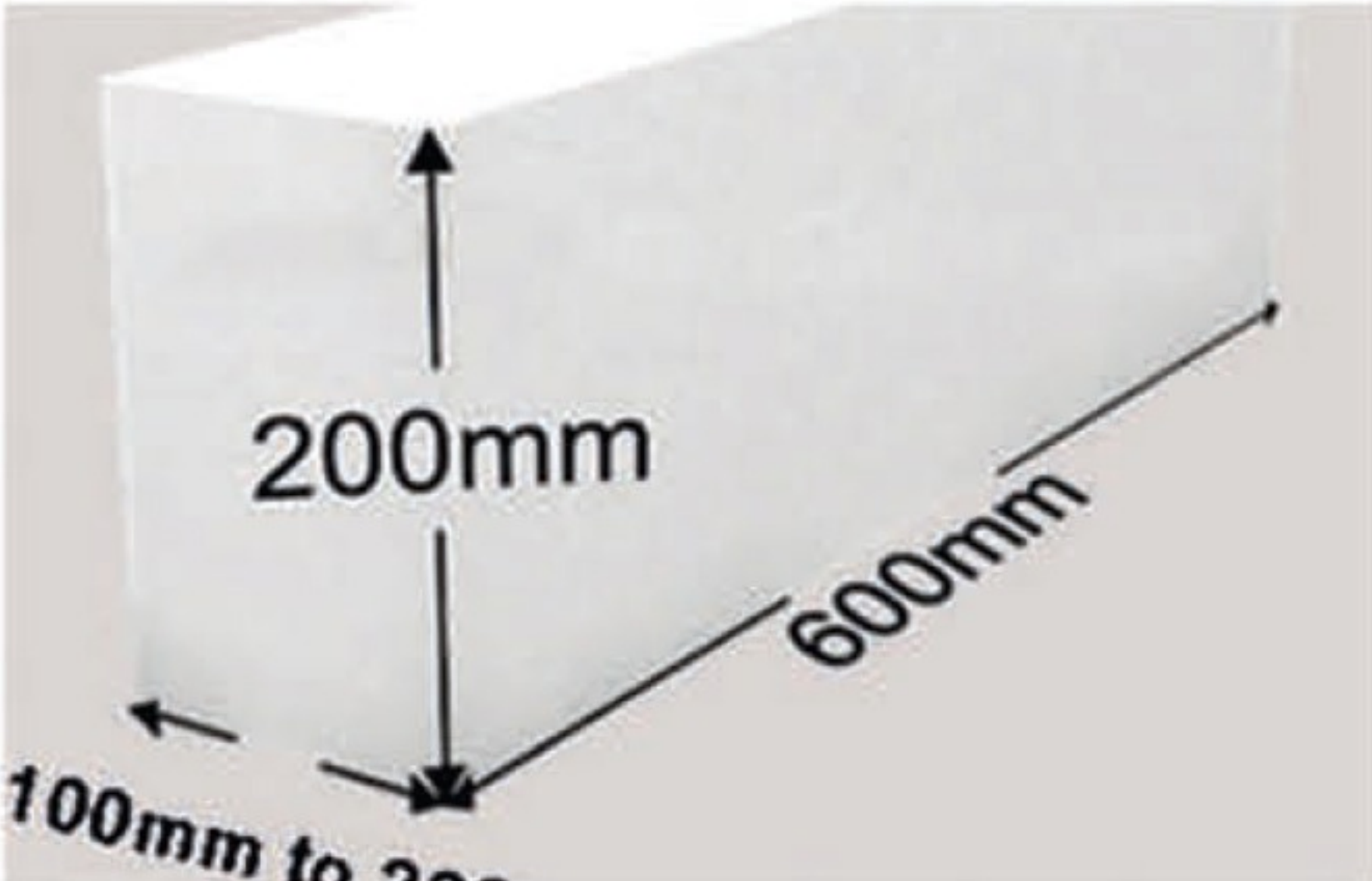
BlockCon is tested, trusted, and recommended by leading builders and architects. Its superior features and eco-friendly benefits align with global standards, making it the preferred choice for modern construction.





## Technical Parameters

Parameter	Unit	Value Block	Value Brick
Size : Length x Height	mm	600x200 or 625x240	225x75
Size : Thickness	mm	50, 75, 100, 150, 200, 225, 300	105
Dry Density	Kg/M3	550-650	1900-2000
Compressive Strength	Kg/cm2	<3	<3
Thermal Conductivity	W/KOM	0.16 to 0.18	0.81 to 0.96
Size Variation	mm	+1mm	+10 mm



## Project Impact

Cost Element	(X) Saving Element	(X) Projected Impact
Steel & Concrete	10	5
Carpet Area	1.5	3
Plastering Mortar	35	2
Joining Mortar	60	1
Wastages	10	0.5
Capex of HVAC System	30	0.3
Project Saving		11.8



# Comparisons

## Comparison between AAC Blocks, Clay Bricks

Parameters	AAC Block	Clay Brick
Size	600mmx200mm x50-300mm	230mmx115mmx75mm
Precision in size	Variation 2mm $\pm$	Variation 10 mm $\pm$
Compressive Strength	30-40 kg/cm <sup>2</sup> (As per IS:2185 part II)	25-30 kg/cm <sup>2</sup>
Dry density	551-650 kg/M <sup>3</sup> (oven dry)	1800 kg/M <sup>3</sup>
Wet density	Approx 750-800kg/m <sup>3</sup>	Approx 2400kg/m <sup>3</sup>
Wastage	upto 3%	upto 20%
Baking	Done in autoclaves with high pressure steam ready in 12 hours	Done in clay Kilns
Fire Resistance	upto 4 hours for 200 mm thickness	2 hours
Sound reduction (DB)	upto 42 <sub>(db)</sub> for 200 mm thickness	50 for 230mm thick wall
Thermal conductivity	Approx 0.16-0.25	Approx 0.81
Surface quality (Fungus problems)	None, smooth clean finish with no fungus	Fungus and salinity problems on the surface
Adoption to various surface finishes	Smoother surface results in better coating application	inconsistent surface
Mortar consumption	0.018 per M <sup>2</sup> with 1.6/0.5% bag of cement	0.1 per M <sup>2</sup> with 1.6/0.35% bag of cement
Consumption time	Reduced by upto 50% compared to clay bricks	Double AAC blocks
Energy saving	32% (App.) Air-condition load heating and cooling come down	No saving
Cost benefit factor	saving sand, steel, cement, labour time, water for curring and dead load reduce 30% structural cost	No saving
Contribution to carpet area	1.5-3%	No saving
Chemical composition	Fly ash used in 50% which reacts with (Lime & Cement) to form AAC which is an inert material	Soil is used which contains many inorganic impurities like sulphates etc. Which results in efflorescence



# Technical Specifications



Property	Units	AAC Block	Clay brick
Size	mm	600x200x(75to300)	230x75x110
Size tolerance	mm	± 5mm in length* ± 3mm in width & height	± 05 to 15
Compressive Strength	N/mm <sup>2</sup>	Min 4.0*	2.5 to 3.5
Normal Dry (Oven Dry Density)	Kg/m <sup>3</sup>	551 to 650*	1800
Normal Conductivity "K"	W/m-k	Max 0.24*	0.81
Drying shrinkage	%	Max 0.05*	-
Fire resistance	Hrs.	2to6 (depending on thickness)	2
Sound reduction index	Db	45 for 200 mm thick wall	-

\*As per IS2185 part 3

## Comparison between AAC Block and clay brick

Parameters	AAC Block	Clay Brick
Structural cost	Steel saving upto 15%	No saving
Cement mortar for paster & masonry	Required less due to flat even surface and less number of joints	Requires more due to irregular surface and more number of joints
Breakage	less than 2%	Average 10-12%
Construction speed	Speedy construction due to its big size light weight and easy to cut in any size or shape	Comparatively slow
Quality	Uniform & consistent	Normally varies
Fitting & Chasing	All kind of fitting and chasing possible	All kind of fitting and chasing possible
Carpet area	More due to less thickness of walling material	Comparatively less
Energy saving	Approx. 30% reduction in air-conditioned load	No such saving
Chemical composition	Flyash used around 65 to 68% which reacts with lime and cement to form AAC	Soil used contains many inorganic impurities like sulphate etc. resulting in efflorescence

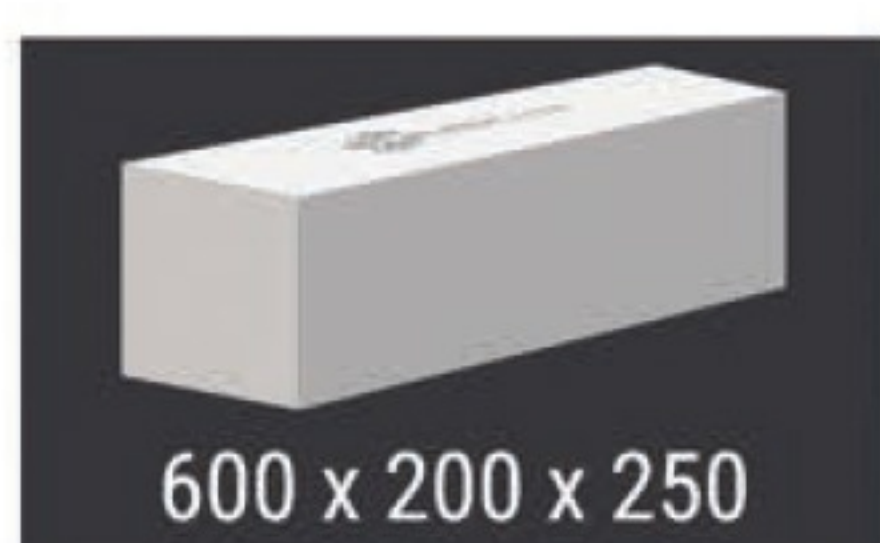


# BUILD STRONG LAST LONG

Calculation Sheet				
Length (mm)	Height (mm)	Width (mm)	No of Pcs (per m <sup>3</sup> )	Work in Sq ft (per m <sup>2</sup> )**
600	200	250	38.33	116.33
600	200	230	36.33	50.58
600	200	200	41.67	58.17
600	200	150	55.56	77.56
600	200	125	66.67	93.07
600	200	115	72.46	108.11
600	200	100	83.33	116.33

\*\*Assumption : 12mm Mortar thickness

## Block available sizes







# Join The **BLOCKCON** Revolution

Build Smarter. Build Greener. Build with **BLOCKCON**

BlockCon is more than a building material—it's a commitment to sustainability, innovation, and excellence. Whether you're constructing homes, apartments, offices or industrial facilities, BlockCon AAC Blocks provide unmatched performance, safety, and cost-efficiency.



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