

# Superior Technology: The Smarter Choice.



## Key Features :

- Superior Acoustic Insulation
- Reduced Structural Cost
- Energy Savings up to 15%-20%
- 100% Termite & Mold-Resistant
- State-of-the-art German Technology

The right choice. The smart choice!



**RELIABLE**  
**AAC BLOCKS**

## Applications & areas

- Internal & external walls
- Cavity walls
- Partition walls
- Best suited for
  - Air conditioned buildings
  - Fire rated applications and insulated buildings



Pancham Icon, Baroda



Oberoi Splendor, Mumbai



Taj Vivanta, Hyderabad



SIS Meridian, Chennai

## Discover the new age construction material – Aerocon AAC Blocks

Aerocon AAC Blocks offers everything you're looking for:

- Manufactured using Fly Ash, Cement, Lime & Aeration agent
- Product conforms to IS 2185 Part-3
- Excellent substitute for clay bricks and hollow/solid concrete blocks
- Green Building Product



Aerocon has a longtime association with the Indian Green Building Council (IGBC) and consistently work together for the cause of sustainable construction.

## Towards a green future with Aerocon AAC Blocks

- Aerocon is India's leading manufacturer of autoclaved aerated concrete blocks: an amazingly innovative and green building material
- What make it superior is its incredible lightweight and insulation properties. About 1/3rd the density of clay brick, these can be laid much quicker, saving time and building costs
- Being more resilient to damage helps reduce wastage during transportation
- These blocks offer effective & practical solutions for the current building regulations and are manufactured using the latest technologies at India's most advanced AAC facilities located in Chennai & Surat
- Construction using Aerocon AAC Blocks boosts up the project by ensuring at least 6-7 LEED green building certification points



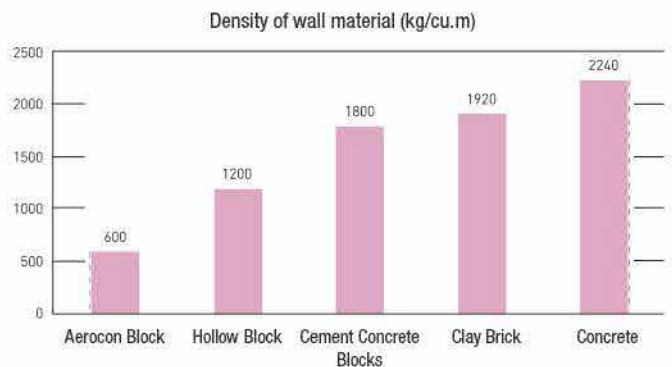
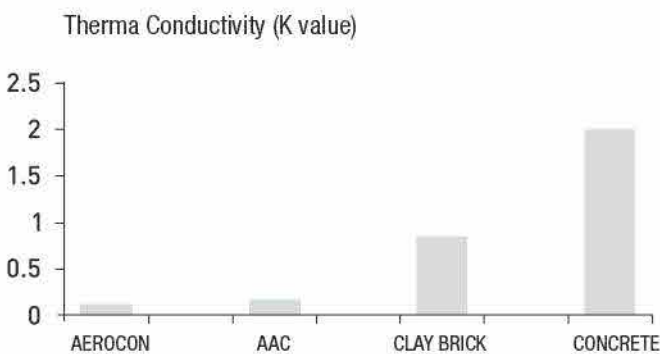


## Why use Aerocon AAC Blocks?

- Energy saving and eco-friendly; helps reduce carbon foot print
  - Manufactured from recycled material with zero wastage
  - Quicken up construction by up to 30%
- Dimensionally accurate & easy workability
  - Factory finished with superb surface finish; easily accepts renders & plasters
  - Use of standard tools to cut, saw, chisel, drill & shape
- Unmatched properties
  - Super lightweight; 1/3rd the density of clay bricks
  - Non-combustible with superior fire resistance
  - Exceptional thermal & acoustic insulation
  - No cavity construction; eliminates termites, rodents, pests & fungal growth
- Guaranteed savings\*
  - Reduces foundation load of the building up to 30%
  - Reduces power consumption by 27%
  - Steel & Cement savings by 18% & 12% respectively

TECHNICAL DATA						
Property	Unit	Value				
Face Size	mm	600x200				
Thickness*	mm	75	100	125	150	200 230
Dry Weight	Kg	5.25	7	8.75	10.5	14 16.10
Compressive Strength**min	N/mm <sup>2</sup>	3				
Normal Dry Density**	Kg/m <sup>3</sup>	551-600				
Thermal Conductivity	W/m-k	0.12				
Sound Reduction***	db	37-42				
Fire Resistance-load Bearing (200 mm thickness)	Hrs	4				
Non Load Bearing (100 mm thickness)	Hrs	4*				

\*Other thickness can be given on request. \*\*Confirming to IS 2185 (Part 3), 1995 Grade 2. \*\*\*Depends on the thickness. \*Based on interpolation – 4 hrs for 150 mm thick – not tested



\*This Is For A Typical Building, Performance Varies With Number Of Floors, Earthquake Forces & Earthquake Zones Etc.

Aerocon Blocks – Jumbo Size



From (L-R) Aerocon AAC Block, Concrete Block, Hollow Block & Clay Brick



JSW, Mumbai



Park Hyatt, Hyderabad



L&T Infotech, Mumbai

### A comparative analysis

PARAMETER	AUTOCLAVED AERATED CONCRETE	CELLULAR LIGHT-WEIGHT CONCRETE
Density (kg/cu m)	✓ 551-600	x 800-1000
Compressive Strength (N/mm <sup>2</sup> )	✓ Minimum of 3	x 1.5-2.5
Dimensional Characteristics	✓ Dimensionally Accurate	x Dimensional Variations
Curing	✓ Autoclaving (Steam)	x Normal
Pore Size and Distribution	✓ Small and Distributed	x Large
Drying Shrinkage	✓ Within IS limits	x No Consistency

S. No.	CRITERIA	UNIT	AEROCON BLOCKS	CLAY BRICKS	CONCRETE BLOCKS
1.	Face Size	mm	600 x 200	230 x 75	400 x 200
2.	Thickness	mm	75- 230	115	100, 150, 200
3.	Faster Construction		Yes	Slow	
4.	Workability		Easy	Moderate	Difficult
5.	Quality		Highly Consistent – Factory Made	Inconsistent – Manually Made	
6.	Insulation Properties		Superior	Moderate	Average
7.	Fire Rating		Superior	Normal	
8.	Services		Easy	Electric/Plumbing Chasing Difficult	
9.	Environment friendly		Green Material	No	

### The Aerocon advantage\*

1. We provide technical support for lightweight walling-based structural design
2. Advise on the handling, storage and efficient use of these products so as to minimise wastage, and thereby costs
3. Advise on the construction of walls:
  - Recommended/Correct practices
  - Training of supervisors and masons
  - Site audit & feedback process on walling work

