



HITECH
— SUPERIOR QUALITY, HONEST SERVICES —



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**A TRUE LEADER
IN AAC BLOCKS INDUSTRY**

Hitech AAC Blocks

Hitech is India's leading manufacturer of Autoclaved Aerated Concrete Blocks: an amazingly Innovative and Green Building Material. What makes it superior is its incredible lightweight and insulation properties. About 1/3rd the density of clay brick, 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 NH 48, Valsad, Gujarat . Construction using Hitech AAC Blocks boosts up the project by ensuring at least 6-7 LEED Green Building Certification Points.

Key features

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

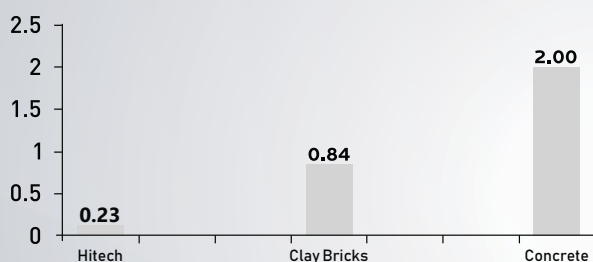
Hitech Benefits

- Resource Efficiency
- Indoor Air Quality
- Energy Efficiency
- Material Efficiency
- Water Conservation
- Affordable

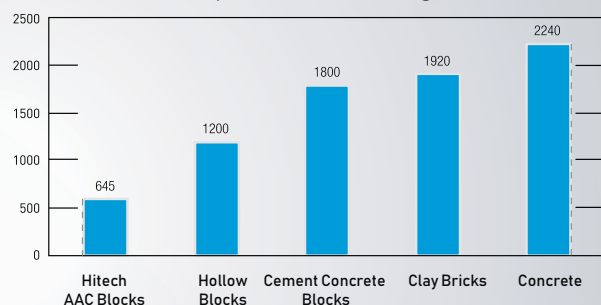
Why use Hitech AAC Blocks ?

- 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

Thermal Conductivity K value(W/M^oK)



Density of wall material (kg/cu.m)



*This is for a typical building, performance varies with number of floors, Earthquake forces & Earthquake zones etc.

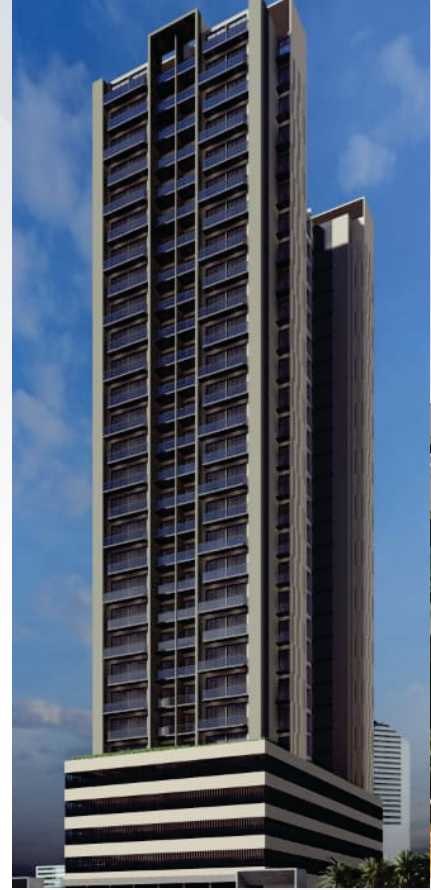


» A Comparative Analysis

PARAMETER	AUTOCLAVED AERATED CONCRETE	CELLULAR LIGHT-WEIGHT CONCRETE
Density (kg/cm)	✓ 551-650 Kg/m ³	x 800-1000
Compressive Strength (N/mm ²)	✓ Minimum of 4	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	Hitech ROCON BLOCKS	CLAY BRICKS	CONCRETE BLOCKS
1.	Face Size	mm	600 mm x 200 mm	230 x 75	400 x 200
2.	Thickness	mm	100-300	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	

Application Areas:



Technical Specifications*

Property	Unit	Value							
Face Size##	mm	625, 600 x 200							
Thickness	mm	50	75	100	125	150	200	230	
Dry Weight	Kg	3.9	5.8	7.8	9.75	11.7	15.6	17.94	
Compressive Strength** (min)	N/mm ²	< 4 (4.2 to 4.6)							
Normal Dry Density	Kg/m ³	551-650							
Thermal Conductivity	W/m-k	0.24(As per IS codes)							
Sound Reduction***	db	37-42							
Fire Resistance-load Bearing (200mm Thickness)	Hrs	4							
Non Load Bearing (100mm thickness)	Hrs	4#							

*Conditions apply

**Confirming to IS 2185 (Part 3), 1995.

#Based on interpolation - 4 hrs for 150 mm thick - not tested.

##Face Size 600X250 is available at Jhajjar plant

***Depends on the thickness.

» The Hitech advantages*

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



Backed by the Leaders

hitech, a leading name in the Indian Building Material Solutions Industry, is a part of the renowned hitech group, which is a 1000 cr. business conglomerate. hitech group comprises a portfolio of eco-friendly products that are the result of cutting edge technology aimed at offering customers a wide range of world class products.

