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A TRUE LEADER
IN AAC BLOCKS INDUSTRY

Birla Aerocon AAC Blocks

Birla Aerocon 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 Chennai, Surat, Jhajjar & Thimmapur. Construction using Birla Aerocon 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

Birla Aerocon Benefits



Resource Efficiency



Indoor Air Quality



Energy Efficiency



Material Efficiency



Water Conservation

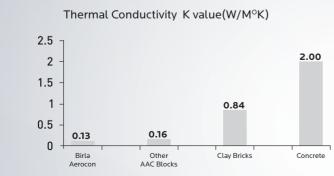


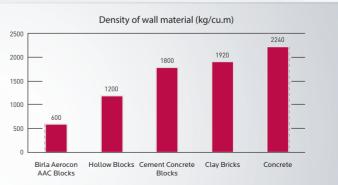
Affordable

Why use Birla 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%
- 2. Dimensionally accurate & easy workability.
 - Factory finished with superb surface finish; easily accepts renders & plasters
 - Use of standard tools to cut, saw, chisel, drill & shape

- 3. 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
- 4. Guaranteed Savings*.
 - Reduces foundation load of the building up to 30%
 - Reduces Power Consumption by 27%
 - Steel & Cement Savings by 18% & 12% respectively





*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/m³	x 800-1000
Compressive Strength (N/mm2)	✓ 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	BIRLA AEROCON BLOCKS	CLAY BRICKS	CONCRETE BLOCKS		
1.	Face Size	mm	600 mm x 200 mm	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			

Application Areas:









Technical Specifications [®]									
Property	Unit	Value							
Face Size##	mm	600 x 200							
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/mm²	3							
Normal Dry Density	Kg/m³	551-600							
Thermal Conductivity	W/m-k		0.15						
Sound Reduction***	db	37-42							
Fire Resistance-load Bearing (200mm Thickness)	Hrs	4							
Non Load Bearing (100mm thickness)	Hrs	4 4#							

^{*}Other thickness can be given on request. **Confirming to IS 2185 (Part 3), 1995, Compressive Strength of 4 N/mm² is available at Jhajjar and Chennai plants.

The Birla Aerocon 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

HIL, a leading name in the Indian Building Material Solutions Industry, is a part of the renowned C.K Birla Group, which is a \$2.4 billion business conglomerate. HIL's Green Building Brand-Birla Aerocon, compromises 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.



^{*}Based on interpolation - 4 hrs for 150 mm thick - not tested.

^{##} Face Size 600X250 is available at Jhajjar plant ## Face size of 600X240 is available at Golan Plant, ***depends on the thickness.





