



Cost Savings

The reduced deadweight results into reduction of the use of cement and steel which helps great in cost savings. As the block size is larger size reduces labor cost with lesser joints.



Environment Friendly

AAC is a non-toxic product which does not pollute the air, land or water. The manufacturing process does not use sand and creates no by-products or toxic waste products. No more Sand mining.



Fire Resistant

AAC is a non-toxic product which does not pollute the air, land or water. The manufacturing process does not use sand and creates no by-products or toxic waste products. No more Sand mining.



Water Penetration

Because of the its superior cellular and discontinuous micro structures, AAC walls provide higher resistance to water penetration



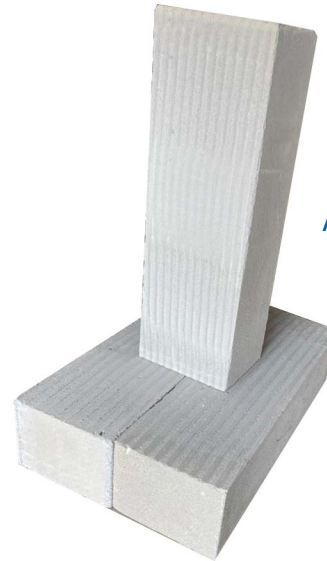
PEST RESISTANT

Consist of the inorganic material in its constitution that helps preventing/avoiding termites, damages or losses



Thermal Insulation

The thermal conductivity of the AAC blocks helps maintaining the inner temperature to be war during winters and cool during the summers which ultimately gives energy efficiency



ULTRA AAC BLOCKS

Autoclaved Aerated Concrete (AAC) Blocks

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Approved as Grade-1 AAC blocks
as per IS Code-2185 Part-3 of 1984.

❖ Unique

❖ Lightweight

❖ Trust

❖ Reliable

❖ Autoclaved

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AAC BLOCKS

Autoclaved Aerated Concrete is a Lightweight, Load bearing, High-insulating and Durable building product, which is produced in a wide range of sizes and strengths. AAC Blocks is lightweight and compare to the red bricks AAC blocks are three times lighter. AAC is produced from the common materials lime, cement, Flyash/sand, water and a small amount of rising agent. After mixing and molding, it is then autoclaved under heat and pressure to create its unique properties. AAC has excellent thermal insulation and acoustic absorption properties. AAC is fire and pest resistant and is economically and environmentally superior to the more traditional structural building materials such as concrete, wood, brick and stone.

- Lightweight saves cost in RCC Structure and energy in transportation, less labor expenses in constructing of walls
- One of its advantages is quick and easy installation
- Increases chances of survival during seismic activity

KEY BENEFITS

- ❖ Economical and Faster construction
- ❖ Less motor required in construction joints
- ❖ An excellent material for soundproofing material and acoustic insulation
- ❖ Highly fire and termite resistance
- ❖ High thermal mass stores and releases energy over time
- ❖ Recyclable material
- ❖ Easy handling and installation due to light weight
- ❖ Easy to cut for chases and holes for electrical and plumbing lines
- ❖ Available in a multiple sizes

Technical Parameters	Traditional Red Bricks	ULTRA BLOCKS (AAC Block)
Size (In mm)	225 x 100 x 65 230 x 75 x 115	600 x 200 x (100/150/200)
Precision in Size	5 to 10 mm (+/-)	1.5 mm (+/-)
Compressive Strength	2.5-3 N/mm ²	3.8-5 N/mm ²
Density	1800-2000 kg/ m ³	550-650 kg/m ³
Fire Resistance	Approx. 2 hrs	2 - 7 hrs depending on thickness
Energy Saving	Less	reduces usage of air conditioner. 25-30% less electricity consumption
Thermal Conductivity	K value = 0.81 W/mk	K value = 0.16 W/mk
Sound Insulation	More than 50db for 230mm thick wall	40-45db for 200mm thick wall
Mortar consumption per M3 with 1:6	1.40 bag of cement	0.50 bag of cement
Quality	Normally varies	Uniform and finished
Environmental Benefits	one clay brick consumes 3kgs of soil	No soil used, uses fly ash from thermal plants and cement
Maintenance	High	Less due to superior properties
Wastage during construction	10-15%	1-2% wastage and can be cut with an axe blade
Construction Benefits	Low	8 times bigger than red brick results in lesser joints, less mortar and high labor cost savings
Savings in plaster	No Savings	50% cost reduction