

The logo features a stylized green 'B' icon composed of three geometric shapes. To its right, the words 'BE GREEN' are written in a green, sans-serif font, and 'BLOCKS' is written in a larger, bold, green, sans-serif font below it.

BE GREEN
BLOCKS

BE GREEN BLOCKS LLP



BE GREEN

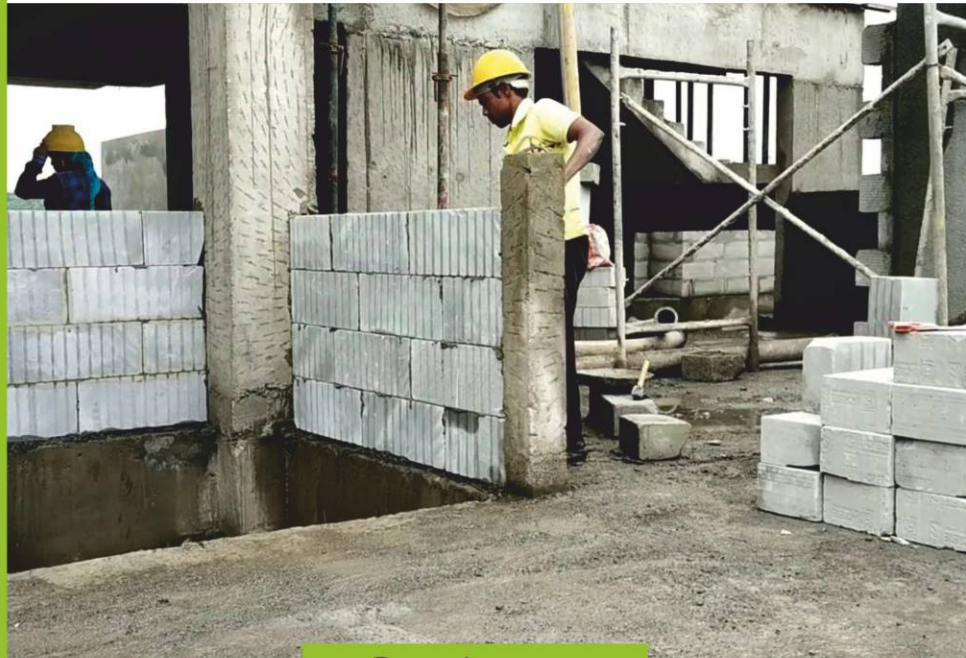
What is AAC Blocks?

The Autoclaved Aerated Concrete (AAC) material was developed in 1924 in Sweden. It has become one of the most used building.

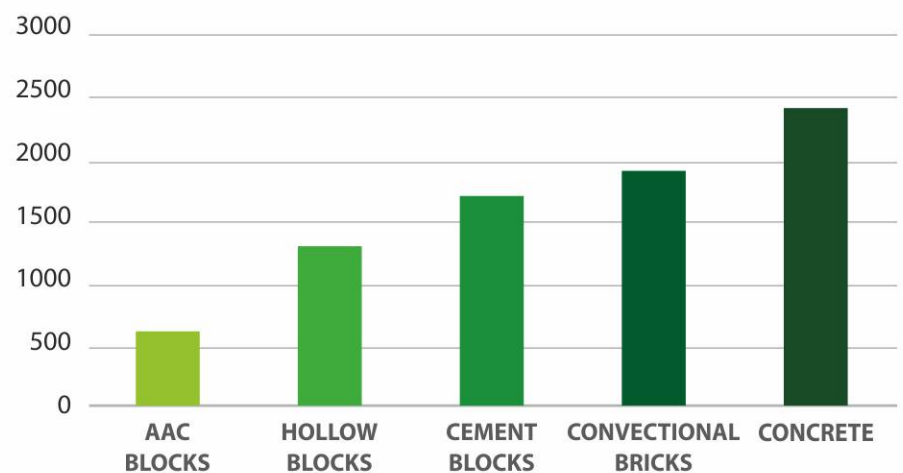
AAC Blocks has many advantages like lightweight, Fire Resistant, Termite resistant, water saver, cost saver. That's why it is growing rapidly in our industry.

AAC offers incredible opportunities to increase building quality and at the same time reduces costs at the construction site.

AAC is produced out of a mix of pulverized fly ash (PFA), lime, cement, gypsum, water and aluminium and is hardened by steam curing. As a result of its excellent properties, AAC is used widely.



Density KG/M



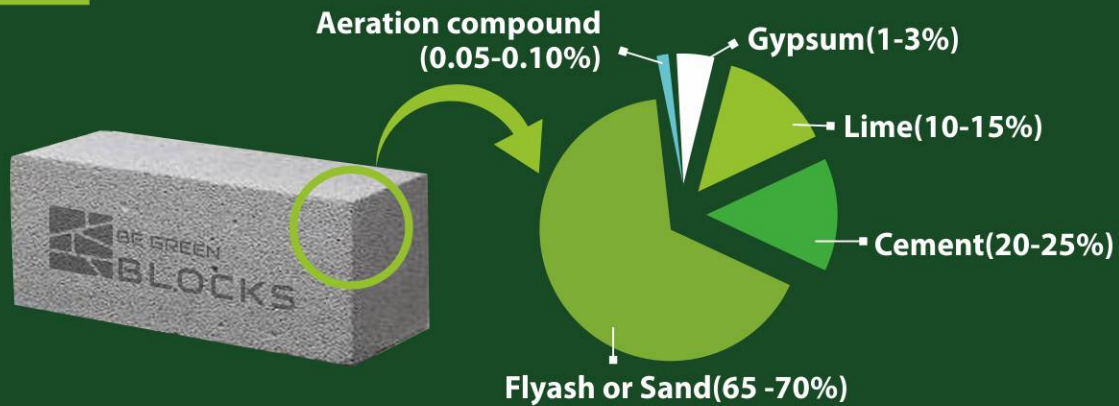
Why Be Green?

- Latest machinery for production
- Great quality
- In house lab for quality testing
- Promising delivery
- 24/7 Support

Advantages

- Light weight
- Faster construction
- Environment friendly
- Perfect size & shape
- Superior fire resistance
- High resistance to water penetration
- Termite resistant

Material Chart



AAC BLOCK SPECIFICATIONS

S.N	Properties	Specifications
1	General Size	600 x 200 x 75-100, 625 x 200 x 75 -100
2	Thickness	50,75,100,125,150,200,225
3	Minimum Compressive Strength	3 to 4.5 N/mm ² (is 2185)
4	Minimum Dry Density	450 to 650 Kg/m ³
5	Thermal Resistance	0.8-1.25 per inch of thickness
6	Allowable Shear Stress	8-22 psi
7	Sound Absorption	Up to 42 De
8	Fire Resistance	4* hours
9	Thermal Conductivity	0.16 to 0.18 W/Mk
10	Dry Shrinkage	0.04% of the size of AAC block

Comparison Between AAC Block & Red Brick

Parameter	AAC Block	Red Block
Structural Cost	Steel Saving upto 15%	No Saving
Cement Mortar for Plaster & masonry	Required less due to Flat, even surface and less number of joints	Requires more due to Irregular surface and more number of joints
Brackage	Less Than 2%	Average 10 to 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 - 68% which reacts with lime and cement to form AAC	Sell used contains many inorganic impurities like sulphate etc. resulting in efflorescence

Calculation Sheet

Length (mm)	Height (mm)	Width (mm)	No of Pcs (per m ³)	work in Sq.ft ** (per m ³)
600	200	100	83.33	116.33
600	200	125	66.67	93.07
600	200	150	55.56	77.56
600	200	200	41.67	58.17
600	200	230	36.23	50.58

**Assumption:12mm Mortar Thickness

AAC BLOCK JOINTING MORTAR is a ready to mix and use, self-curing cementitious mortar for laying of AAC. It's a factory-made dry mixed mortar blended with carefully selected raw materials such as graded sand, mineral binders and ordinary Portland cement (OPC) in combination with selected polymeric additives which help in providing mechanical bond and adhesion between block and block to a surface. Designed for use with water to produce high strength thixotropic mortar that meet and exceed the requirements of National and International Standards.



Guideline

(Refer is 6041 - 1985 code of Practice of Construction of Autoclaved cellular Concrete Block Masonry)



Mortar For Masonry

OR

The blocks shall be embedded with a mortar, the strength of which is relatively lower than that of the mix used for making blocks in order to avoid the formation of cracks. A 1:6 cement - sand mortar may be used. (Refer IS 6041-1985 Para 3, 3.92)

Wetting of Blocks

These blocks need not be wetted before or during the laying in the walls; in case the climatic condition so required. The top and the sides of the blocks may be slightly moistened. (Refer IS 6041-1985 Para 6.6.1)

Coping Beam

Horizontal coping at 0.9 to 1.2 mtr height & Vertical coping in centre if wall length is more than 3 mtr. with 2nos 8mm reinforcement, M20 concrete. (Refer IS 6041-1985 Para 4.4.6.5.1 & 2)

Storage

The blocks shall be stored in such a way as to avoid any contact with moisture on the site. (Refer IS 6041-1985 Para 5, 5.1)

Mortar Thickness

Keep it & limited to 10 to 12 mm in cement sand mortar (Refer IS 6041-1985 Para 7, 7.1) & 3 to 4 mm in ready mix mortar.

Plaster

Plaster thickness required Internal: 10 to 12mm, External: 15 to 17mm (Refer IS 6041-1985 Para 12)



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