FLY ASH BLOCKS

Aerated Autoclaved Blocks for Masonry

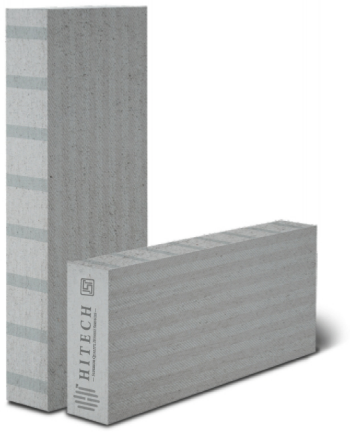
- Fly Ash Blocks (Aerated Autoclaved) are used as a substitute against conventional building masonary such as red clay bricks & have been widely accepted globally because of their beneficial properties.
- The aerating is caused by a reaction of a mix of various materials mainly consisting of silica (through fly-ash) quicklime, cement & others. Fly Ash Blocks (Aerated Autoclaved) consist of around 80% air, this aerated material is processed through autoclaving which entails high pressurized curing of aerated materials formed in cellular shapes.

FLY ASH BLOCKS (AERATED AUTOCLAVED) COVERAGE[1]

Size (mm) L H W	QUANTITY OF BLOCKS 1CBM
600 x 200 x 50	166.66
600 x 200 x 75	111.11
600 x 200 x 100	83.33
600 x 200 x 125	66.66
600 x 200 x 150	55.55
600 x 200 x 200	41.67
600 x 200 x 225	37.03
600 x 200 x 300	27.77
625 x 240 x 50	133.33
625 x 240 x 75	88.88
625 x 240 x 100	66.66
625 x 240 x 125	53.32
625 x 240 x 150	44.43
625 x 240 x 200	33.33
625 x 240 x 225	29.63
625 x 240 x 300	22.22

KEY FEATURES & BENEFITS

- Bigger in size
- Thermal insulation
- Fire Resistant
- Better Compressive Strength
- Rough Surface
- Technical assistance



Coverage of commonly used sizes have been illustrated in the table.

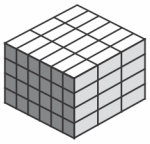
HITECH
— SUPERIOR QUALITY, HONEST SERVICES —

TECHNICAL SPECIFICATIONS[1] *(Complies to IS 2185 (3) & IS 6441)*

Particulars	Units	Values
Size (Length × Height)	mm	600/625 x 200/240
Size (Width)	mm	75, 100, 125, 150, 200 225, 300
Size Tolerance (Maximum)	mm	±3 (Width & Height) & ±5 (Length)
Compressive Strength	N/mm^2	G1: ≥4.0
Oven Dry Density	Kg/m^3	560 - 640
Fire Resistance	Hours	4 (for 150 mm thick wall without plaster)
Thermal Conductivity (K Value)	W/mk	0.16 - 0.21
Sound Reduction	dB	37 - 42
Modulus of Elasticity	Mpa	2040
Thermal Resistance (R Value)	$m^2.K/W$	0.95 (200 mm Width) @ K = 0.21 W/mK
Thermal Conductance (U Value)	W/m^2K	1.05 (200 mm Width) @ K = 0.21 W/mK
Drying Shrinkage (Maximum)	%	0.04
Sound Transmission Class Rating	dB	44
Capillary Water Absorption	gm/dm^2	180

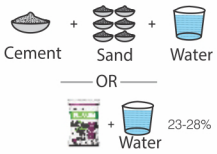
PREPARATION & APPLICATION GUIDELINES[2]

Stacking



Stack on dry & even surface to avoid damage & contact with moisture

Mortar for Masonry

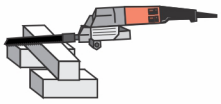


Thin Bed Adhesive (Premixed) (ASTM C 1660-09).

Wetting of Blocks before application

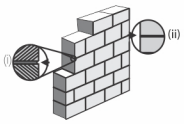
Dip in water & lift immediately.

Cutting of Block



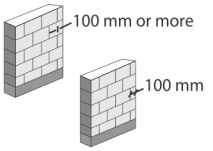
Use tool like hacksaw or rotary cutter.

Mortar Thickness

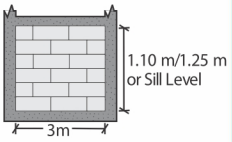


(I) Pre-mix Med Bed : 5-6 mm
(ii) Pre-mix Thin Bed : 2-3 mm

Bond Pattern

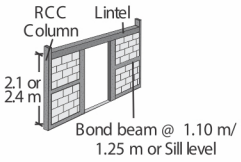


Coping Beam



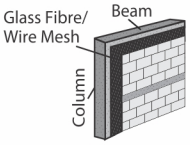
Coping beam with 2 nos 8 mm rein force cement after 1.2 mts. height.

Lintel Support



Lintel support on full block.

Beam & Column Junctions



It should cover 6 " on both the surfaces (Internal & External)

[1] *The Values obtained are from our laboratory testing conditions. Tests conducted on site conditions may show slight variation due to methods of testing/application.*

[2] *Illustrations should be treated as guidelines only, kindly refer TDS for detailed method statement before product usage.*

[3] *Illustrations should be treated as guidelines only, kindly refer TDS and IS 6041 for detailed method statement before product usage.*