

GripON - AAC Blocks are light weight blocks that are used for residential, commercial and industrial buildings. AAC Blocks has gained popularity as green building material, is fire resistant and has good thermal insulation, solid structure and is easy to work with. AAC Blocks are a viable replacement for conventional red clay bricks.



Features & Benefits

- Highly cost effective
- Saves material
- Light weight
- Excellent thermal Insulation properties
- Environment friendly
- Water & earth quake resistant
- Available in all sizes
- Easy transportation
- Saves labour, time & material
- Saves carpet area
- Termite Resistant

Available Size:

Sizes L x H x W	Volume in CBM	No. Of Blocks (Per CBM)	Face Area (Per Block In Sq. Ft)
600 x 200 x 100	0.012	83.33	1.29
600 x 200 x 125	0.015	66.67	1.29
600 x 200 x 150	0.018	55.56	1.29
600 x 200 x 200	0.024	41.67	1.29
600 x 200 x 225	0.027	37.04	1.29
600 x 200 x 230	0.0276	36.23	1.29
625 x 240 x 100	0.015	66.67	1.61
625 x 240 x 125	0.01875	53.33	1.61
625 x 240 x 150	0.0225	44.44	1.61
625 x 240 x 200	0.03	33.33	1.61
625 x 240 x 225	0.03375	29.63	1.61
625 x 240 x 230	0.0345	28.98	1.61

Particulars	Units	Values
Size	mm	600 x 200 / 625 x 240
Thickness	mm	100 - 230
Size Tolerance	mm	+/- 3
Compressive Strengths	N/mm ²	> 4
Oven Dry Density	Kg/m ³	550 - 650
Fire Resistance	Hrs	2 to 6 (For 200 mm thick wall)
Thermal Conductivity	W/m-k	0.24
Sound Reduction	Db	37 – 42
Modules Of Elasticity	Mpa	2040
Thermal Resistance [®] Value)	m ² k/w	0.46
Dry Shrinkage	%	0.04
Sound Transmission Class Rating	Db	44

Application Methodology

- The Surface where application is to be done should be sound & thoroughly clean to remove all oil, grease and dirt.
- Wet the Block before placing on the desired place to remove loose dust particles.
- Results best with GripOn Block Adhesive.

GripON AAC Blocks VS Clay Bricks

Particulars	AAC Block	Clay Bricks
Size (Lx H x B)	600mm x 200mm x 75mm-300mm	225mm x 75mm x 95mm
Precision in size	Variation ±2mm	Variation ±2mm to 10 mm
Compressive Strength	4 - 5 N/mm ² (As per IS:2185 part III)	2.5-3.0 N/mm ²
Dry Density	550-650 kg/m ³ (Oven Dry)	1800 kg/ m ³
Fire Resistance	2 to 6 Hours depending on thickness	2 Hours
Sound Reduction index 1 (dB)	45 for 200 mm thick wall	50 for 230 mm thick wall
Thermal Conductivity (W/m.K)	0.16	0.81
Mortar Consumption M3 with 1:6	0.5 bag of Cement	1.35 bag of Cement
Chemical Composition	Fly ash used around 70% which reacts with binders (Lime & Cement) to form AAC	Soil is used which contains many inorganic impurities like sulphates etc. resulting in efflorescence
Finishing	Can be directly cut or shaped/ sculptured	Not possible
Contribution to carpet area	3 - 5%	No Contribution
Energy saving	Up to 30% of Air conditioning load reduction	No Energy Saving
Cost benefit Factor	Saving up to 30% Sand, Cement, Labour of Construction cost	No Cost Benefit
Surface Texture	Rough texture on both side helps adhere plaster easily & uniformly	Highly uneven surface resulting higher thickness of plaster.

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