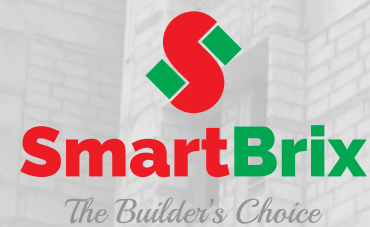


# Autoclaved Aerated Concrete (AAC) Key Features:



**Faster, Stronger & Cost Effective Solutions for Building Construction!!**



## Corporate Office

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## Manufacturing Unit

### **SmartBrix**

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*The Builder's Choice*



**Light weight,  
High Compressive Strength  
AAC Blocks**



# High Dimensional Accuracy



# Provides Sound and Thermal Insulation

SmartBrix vs. Conventional Bricks		
Particulars	SmartBrix	Regular Clay Bricks
Size (LxHxB)	600mm x 200mm x 75mm, 100mm, 150mm, 200mm & 230mm	225mm x 100mm x75mm
Structural Cost	Steel Saving Upto 15%	No Saving
Mortar Consumption / Cu.M with 1:6	0.5 bag of cement (due to flat, even surfaces & less no. of joints)	1.35 bag of cement (due to irregular surface and more no. of joints)
Breakage	Less than 3%	Upto 15%
Construction speed	Speedy construction due to its big size, light weight & easy to cut in any size or shape	Comparatively slow
Quality	Uniform & Consistent	Normally varies
Carpet Area	More due to less thickness of walls	Comparatively low
Availability	Any time	Shortage in monsoon
Energy Saving	Approx. 30% reduction in air-conditioned load	No such savings
Chemical Composition	Sand/Flyash used around 60 - 70 % which reacts with Lime & Cement to form AAC	Soil is used which contains many inorganic impurities like sulphates etc. resulting in efflorescence
Precision In Size	Variation 1.00 (+/-) mm	Variation 3.15 (+/-)
Compressive Strength	3.5-4.5N/mm2(As per IS:2185 part III)	2.5 - 3.0 N/mm2
Sound Reduction Index1(dB)	45 for 200 mm thick wall	50 for 230 mm thick wall
Thermal Conductivity.(Kw-m/C)	0.16	0.81
Cost benefit factor	Savings up to 24% in structural cost due to reduction of dead load (Subject to project design)	No such savings
Weight	550 to 600 kg/Cubic meter	1950 to 2000 kg/Cubic meter

## About SmartBrix

SmartBrix, a product of Bondada Engineering Private Limited, is a light weight autoclaved aerated concrete brick / block with high dimensional accuracy. These blocks are manufactured through world class automated process plant technology. SmartBrix can be used for all types of building constructions including high rise buildings for speedy and economic constructions.

SmartBrix Technical Specifications		
Particulars	UOM	Values
Size	mm	600x250/600x200
Thickness	mm	75,100,125,150, 200 & 230
Size Tolerance	mm	+1 or -1
Compressive Strength	N/mm2	>3.5
Normal Dry Density	Kg/m3	550-650
Fire Resistance	Hrs.	2 to 6 (Depending on Thickness)
Thermal Conductivity	W/m-k	0.16
Sound Reduction Index	Db	45 for 200 mm Thick Wall
Modulus of Elasticity	Mpa	2040
Thermal Resistance (R Value)	M2-0 K/w	0.46
Dry Shrinkage	%	0.04

