



Hicube

AAC BLOCK

—Build Beyond Limits—

BUILD
BEYOND
BOUNDARIES

MANUFACTURER OF
Autoclaved Aerated Concrete Block

🌐 www.hicube.org



Hi-Cube
AAC BLOCK
—Build Beyond Limits—

COMPANY INTRODUCTION

The Fact that you are learn through this booklet shows that you are a smart entrepreneur ! thank you for contemplating HI-CUBE BLOCK for your varied construction needs.

In today's competitive, tough economic climate, every business or construction company is compiled to optimize costs without compromising on quality, elgency and speed in their projects.

Toward this end, HI -CUBE BLOCKS turns out to be the best material of choice endowed with many superlatives properties. it is an economical, eco-friendly, reliable and long-lasting options that adds value to the construction in several ways.

HI-CUBE BLOCKS is available in multiple configurations of dimensions, thickness and strength. kindly review the technical chart to select the best option for your construction activity.

just in case you need any assistance, our friendly experts are available to guide you with your selection.





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VISION

To make HI-CUBE replace all types of concrete blocks and conventional clay bricks in the construction industry by offering innovative, eco-friendly, and new age technology along with our unmatched customer service



MISSION

We aim to become a leading manufacturer of AAC Blocks in West Coast India, and to stay committed to offering a complete building solution & a system backed up by skilled technical support and excellent customer service. We believe in delivering high quality and cost effective products which adds value to our customers. We act with integrity and respect. We are continuously driven by our commitment to improving our environmental footprint and creating greener and more sustainable planet.





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TECHNICAL ADVANTAGES



STRUCTURAL SAVINGS

Hicube AAC blocks are very light thus it reduces dead weight and also reduces consumption of steel. Moreover the customized and well shaped blocks lead to minimum use of plaster and are cost saving.



HIGH STRENGTH

Hicube AAC Blocks have higher compressive strength. steam curing at high pressure gives Hicube Blocks unmatched strength to weight ratio which exceeds the Indian Building code requirement.



HIGHER FLEXIBILITY

Hicube AAC blocks are worker friendly. The blocks can be easily grooved, cut and shaped to desired size as easily as wooden planks. Thus, significantly improving the speed of construction, which further leads to cost savings, especially in high volume projects and facilitates easy installation.



FASTER CONSTRUCTION

Huge reduction in construction time as Hicube AAC blocks are lighter in weight, construction time is lesser and the blocks take lesser setting time.



GREEN BUILDING : ECO FRIENDLY & ENERGY SAVING

AAC blocks qualify for LEED/GRIHA with high rating point contribution. Due to its environmental friendliness, Carbon free manufacturing and higher installation, Hicube is highly recommended for green building. Hicube also saves energy consumption as it takes far less energy to manufacture and because of its light weight it reduces the fuel cost for transportation. Hicube also reduces the water consumption to Red Clay Bricks. So for going green Hicube is recommended.



INSTALLATION BENEFITS OF HI CUBE AAC BLOCKS

Cutting of Hicube AAC blocks is very easy. It can be cut with simple working tools at site itself without any extra skills to get desired shape and size. Laying of Hicube AAC blocks are very easy, due to its light weight it is easy to install with skin coat of mortar. Nailability in Hicube AAC blocks can be easily done. Conduiting in Hicube AAC wall can be done without any extra skill with simple working tool. Drilling can also be done in Hicube AAC wall.



EARTHQUAKE RESISTANT

Hicube AAC blocks are lighter and they absorb and transmit minimum force seismic vibrations. Hicube blocks therefore fulfill the requirement of seismic Zone IV and V in which the West Coast of India lies.



FIRE RESISTANT

Unique cellular beehive like structure of AAC Hicube allows it to face temperatures as high as 1500 degrees centigrade and hold up to flames for 4 to 5 hours. They also do not emit any toxic fumes during such hazards.



PEST RESISTANT

The inorganic constitution of Hicube AAC blocks facilitates resistance to pests. Prevention of infestation and attacks by termites and other insects is easier and structures are safer.



HIGH ACOUSTIC INSULATION

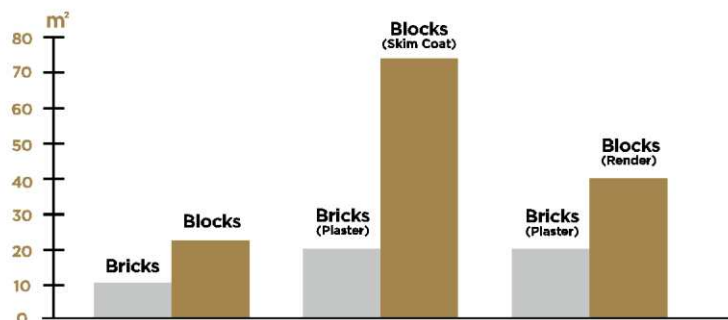
The porous Hicube blocks which fall in STC-44 (Sound Transmission Class) offers attenuation of about 45 to 49dB. The sound absorbing property enhances the quality of living spaces and fulfills requirements in commercial areas too.



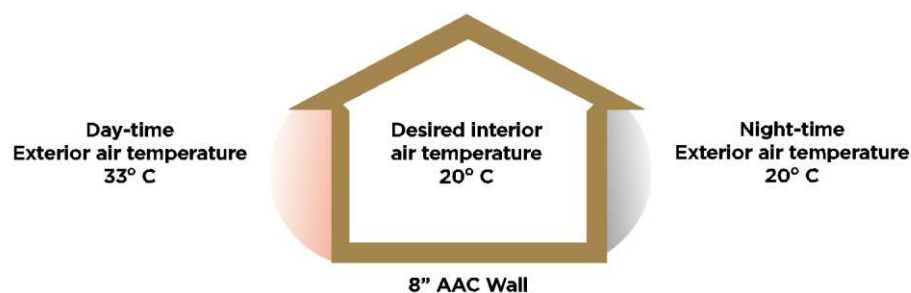
1 Save up to 25% of Foundation Cost Brick vs AAC Block



2 Wall Installation Speed AAC Block vs Brick (m²/Worker/Day)



3 Thermal Control Heat insulation 6 time superior than clay brick



Note : Building uses approximately 30% less energy for cooling and heating the interior air space.



HI-CUBE TECHNICAL PARAMETERS

PRODUCT SPECIFICATION	UNIT	CAPACITY
Length	mm	600
Height	mm	200
Thickness	N/mm ²	100,125,150,200,225,250
Compressive Strength	mm	4+(As Per IS.2185 Part III)
Normal Dry Density	Kg/m ³	550-650
Thermal Conductivity	W/mk	0.24
Sound Reduction	Db	Upto 45 Db - 50 Db(200mm)
Fire Reduction	Hrs	*2 to 6 Depending on thickness
Dry Shrinkage	%	0.04

HI-CUBE TECHNICAL SPECIFICATION

NO.	DIMENSION OF AAC BLOCKS	CUBIC METER OF AAC BLOCK	NO. OF AAC BLOCK IN 1 CUBIC METER	WEIGHT OF ONE AAC BLOCK
01	600x200X100 MM	0.012	83.33 pcs (Approx)	8/9 kg (Approx)
02	600x200X125 MM	0.015	66.67 pcs (Approx)	10/11 kg (Approx)
03	600x200X150 MM	0.018	55.56 pcs (Approx)	12/12 kg (Approx)
04	600x200X200 MM	0.024	41.67 pcs (Approx)	16/17 kg (Approx)
05	600x200X225 MM	0.027	37.04 pcs (Approx)	18/19 kg (Approx)
06	600x200X250 MM	0.030	33.33 pcs (Approx)	21/22 kg (Approx)

HI-CUBE CALCULATION

No.	Length (mm)	Height (mm)	Width (mm)	No. of Pcs. (Per M ³)	Work in Sq ft ** (Per M ²)
01	600	200	100	83.33	116.33 (Approx)
02	600	200	125	66.67	93.07 (Approx)
03	600	200	150	55.56	77.56 (Approx)
04	600	200	200	41.67	58.17 (Approx)
05	600	200	225	37.04	50.58 (Approx)
06	600	200	250	33.33	47.96 (Approx)

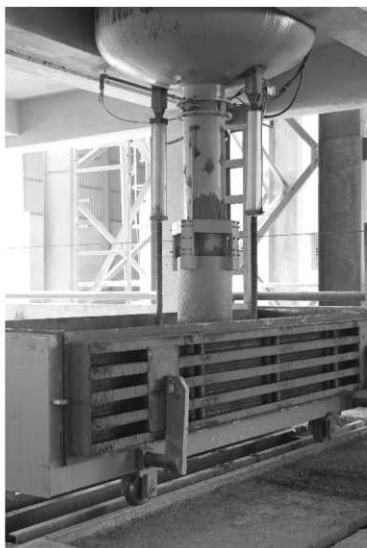
T : 100/125/150/200/225/250



OUR MANUFACTURING FACILITY



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Mrg. By

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