

**Infratech Pvt. Ltd.**

AN ISO 9001:2015 | ISO 14001:2015 | ISO 45001:2018  
Certified Company

COMPLETE  
WALLING  
SOLUTION

MANUFACTURER OF AAC BLOCK



## COMPANY PROFILE

# KNOW US BETTER

### BLOCKS that UNBLOCKS the Future of Infrastructure

There was a time when human life used to be just REAL, but it's not the case now, it has evolved into REAL ESTATE as every day and night, a structure gets built in each corner of India. We as humans have been neglecting the balance of the geographical cycle in the shadow of evolution in the last decade. Carrying the greed to upgrade, we have stopped caring about the surroundings and started hampering nature. However, AAC blocks have come as a rescuer and reinvented the real estate scenario in a shorter period of time, not just with its environmental benefits but as a cost-effective and reliable option.

### Initiator to the Flag bearer

For more than Four decades, in some or the other way, we have been a part of the construction industry. For more than forty years now, we have been providing machines such as Hitachi, JCB, Hyva / Dumper, and so on that are considered as the crux of the machinery department in terms of construction. A venture called Om Concrete got commenced later in 2020. Top-quality ready-mix concrete gets manufactured and supplied across Saurashtra with the same brand name, with all the advanced types of machinery for pouring the concrete. Within a limited time, we have got associated with more than 40 leading builders and 150+ dignified contractors. From a project perspective, we have tied the knot with 20+ sacred organizations, healthcare buildings, and institutional structures. It's been a fortunate journey that we have gained a wise response, and this response leads us to be the most picked brand in the field.

### Wisely Reliable

A company becomes a brand when it proves to be beneficially competitive in the market and to make it happen, two factors play a vital role, first is timely delivery and another is cost-effectiveness. We own our production unit within the edges of Rajkot itself, that's why we can deliberately deliver AAC blocks on time at lower rates and that too without compromising the quality aspect.

# COMPARISON

(AAC Block Vs. Red Clay Brick)

# VS



## AAC BLOCK



High Thermal Insulation does not allow heat to penetrate to the house.



Saves carpet area by 8-12 mm.



Low water seepage and high water absorption.



Low cost per sq.m. as compared to the red bricks.



AAC blocks achieve speedy construction due to their bigger size, low weight and fewer joints.

## RED CLAY BRICK



Low Thermal Insulation allows heat to penetrate to the house.



Takes a larger area due to its size.



High water seepage and high water absorption.



High cost per sq.m.



Brick construction is time-consuming due to smaller bricks and more joints.

# HOUSEHOLD ADVANTAGES

## ADVANTAGES OF AUTOCLAVED AERATED CONCRETE



### Dimensional Accuracy

Blocks and panels are manufactured under factory environment using state-of-the-art modern machineries resulting in products with tighter dimensional tolerances.



### Durable

History of usage dated more than 50 years protecting building envelopes and remain durable even under extreme weather conditions.



### High Strength

Orbix AAC Blocks have higher compressive strength. Steam curing at high pressure gives Orbix Blocks unmatched strength to weight ratio which exceeds the Indian building code requirement.



### Sound Resistant

Scientifically proven better insulation to sound transmitted by air compared with other solid building materials.



### Fire Resistant

More superior than traditional masonry for products with fire resistant up to 4 hours for a nominal block thickness of 100 mm.



### Cost-Effective

Speed and ease of installation result in cost savings compared to traditional masonry construction.



### Impact Resistant

Wall erected using 100 mm thick AAC products is classified as "Severe Duty" grade and able to with stand impact loads potentially resulting from rough usage.



### Good Workability

Orbix AAC can be easily sawn, cut, carved, nailed or drilled using ordinary hand tools.



### Thermal Comfort & Energy Saving

Orbix AAC's excellent thermal insulation properties result in improved comfort level and saves heating and cooling costs.



### Lightweight

AAC density is about one-fifth of that of normal concrete blocks, making it easily handled.



### Water Resistant

Orbix AAC's contains millions closed microscopic cells which strongly resist moisture from passing through.



### Eco-friendly

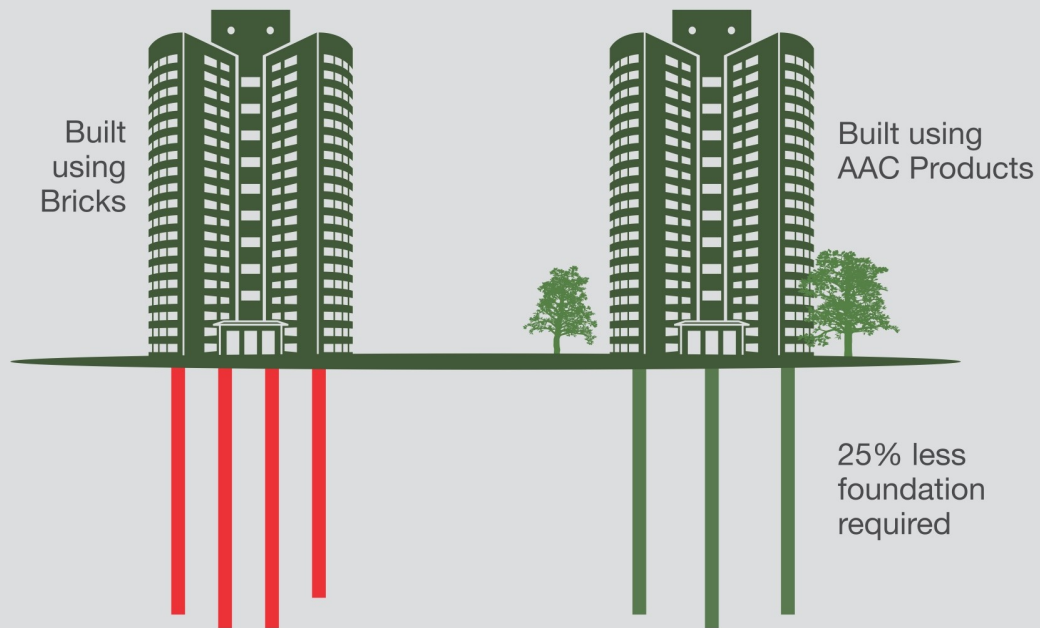
Orbix AAC to help reduce at least 30% of environmental waste, decrease 50% of greenhouse radiation and over 60% integrated energy on the surface of brick.

# COST-SAVING BENEFITS

1

## Save up to 25% of Foundation Cost

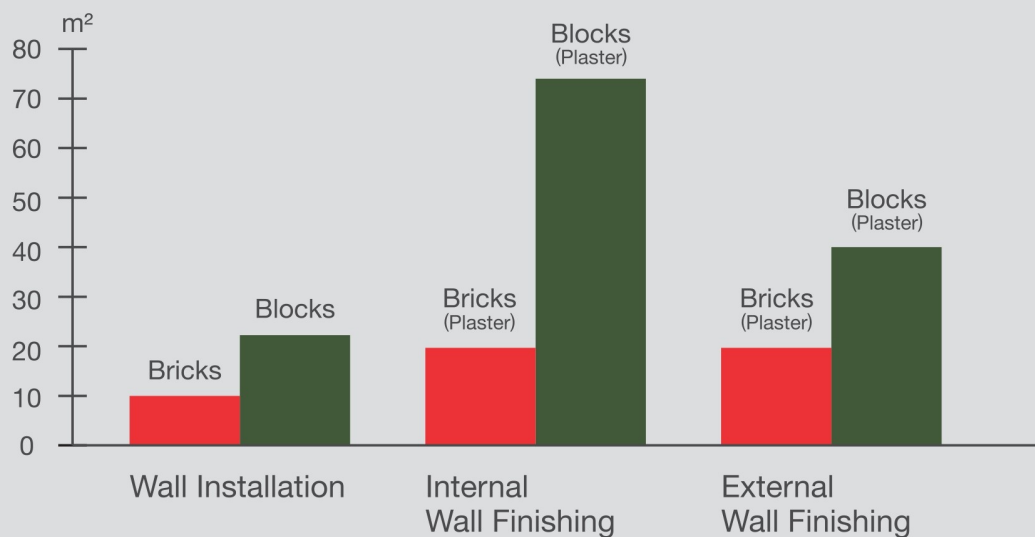
Brick vs AAC Block



2

## Wall Installation Speed

AAC Block vs Brick (m<sup>2</sup>/ worker/ day)





# TECHNICAL SPECIFICATIONS

## ORBIX SIZES

SL. NO.	DIMENSION OF AAC BLOCKS (L X H X B)	CUBIC METER OF AAC BLOCK	NO. OF AAC BLOCK IN 1 CUBIC METRE	WEIGHT OF ONE AAC BLOCK
01	600 X 200 X 100 MM	0.012	83.33 Pcs (Approx)	8/9 Kg (Approx)
02	600 X 200 X 125 MM	0.015	66.67 Pcs (Approx)	10/11 Kg (Approx)
03	600 X 200 X 150 MM	0.018	55.56 Pcs (Approx)	12/13 Kg (Approx)
04	600 X 200 X 200 MM	0.024	41.67 Pcs (Approx)	16/17 Kg (Approx)
05	600 X 200 X 225 MM	0.027	37.04 Pcs (Approx)	18/19 Kg (Approx)
06	600 X 200 X 250 MM	0.030	33.33 Pcs (Approx)	21/22 Kg (Approx)

## ORBIX SPECIFICATIONS

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





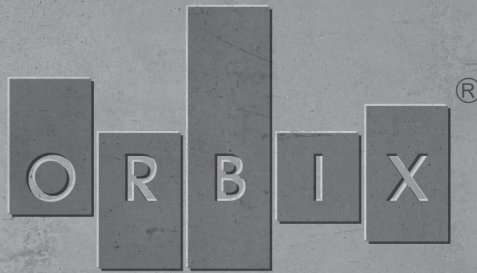
## Calculation Sheet

Length (mm)	Height (mm)	Width (mm)	No of Pcs (Per m <sup>3</sup> )	Work in Sq ft.** (Per m <sup>3</sup> )
600	200	100	83.33	116.33 (Approx)
600	200	125	66.67	93.07 (Approx)
600	200	150	55.56	77.56 (Approx)
600	200	200	41.67	58.17 (Approx)
600	200	225	37.04	50.58 (Approx)
600	200	250	33.33	47.96 (Approx)

\*\* Assumption 12 mm Mortar Thickness

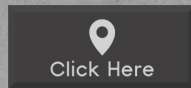




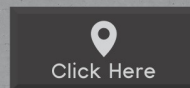


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