



**CONECC**<sup>TM</sup>  
AAC BLOCKS  
INDUSTRY LEADERS & INNOVATORS

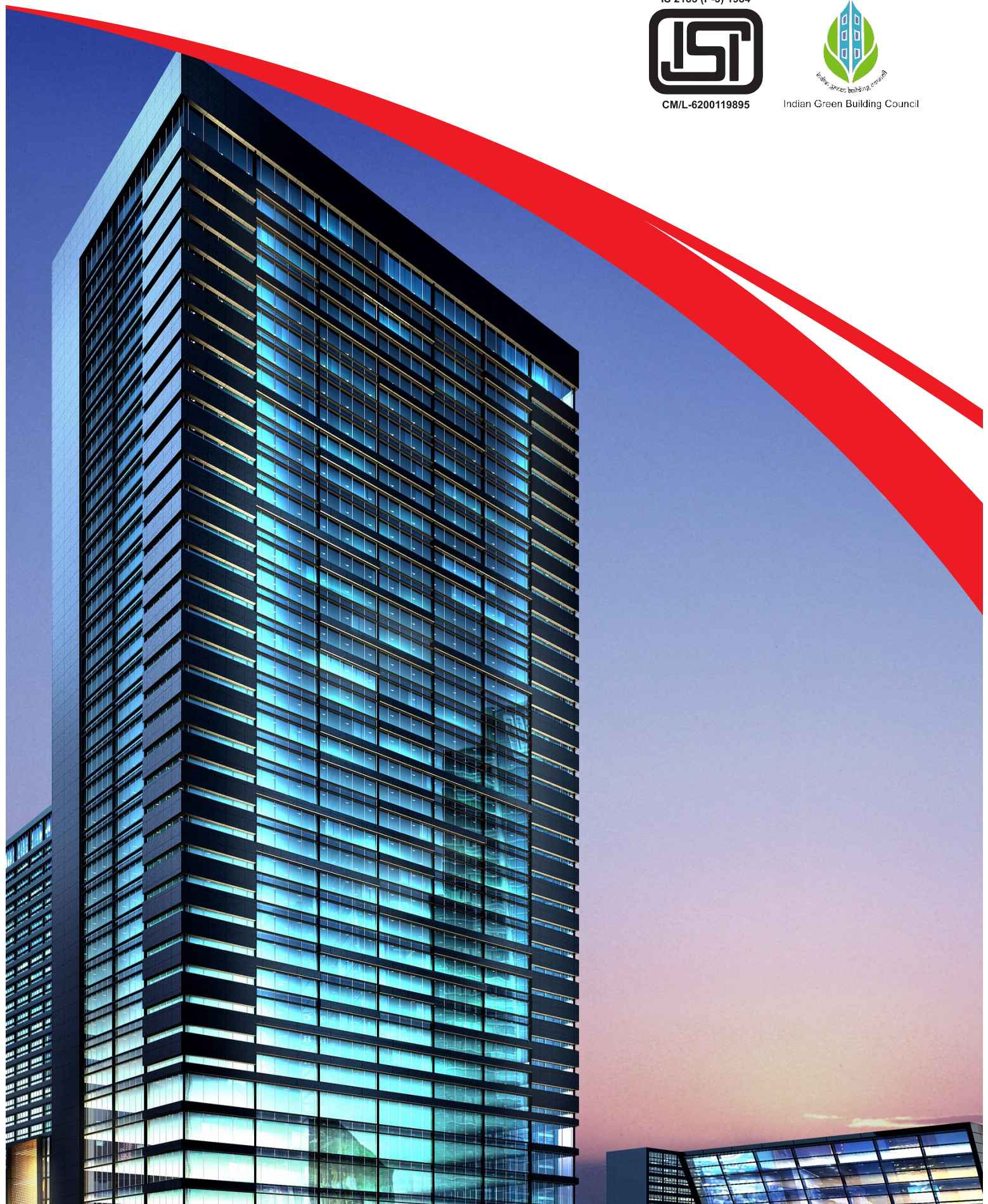
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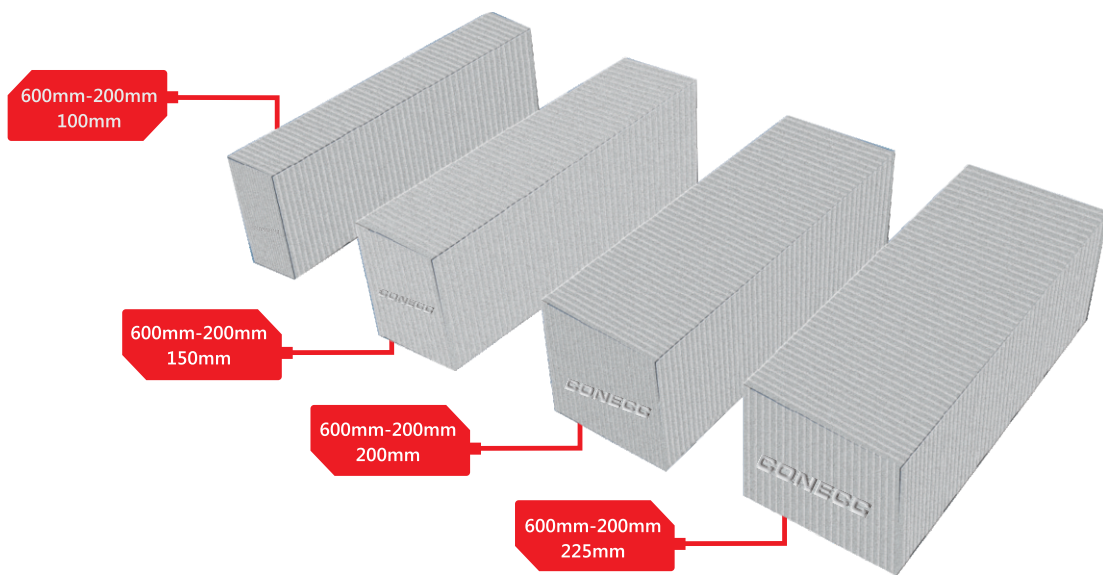
Indian Green Building Council



# CONECC™ AAC BLOCK is 100% INDIAN BRAND

## BETTER BONDING AND REDUCES THE CONSTRUCTION COST

Conecc AAC Block Comes with unique features "Ribbed finish", which helps in better bonding of plaster. Conecc Block is only the block with ribbed finish in the AAC industry.



## TECHNICAL SPECIFICATIONS

Type of Product	Autoclaved Aerated Concrete Blocks
Technical Data	600 mm.L X 200 mm.H X 75 to 225 mm.W (Other sizes can be customized)
Precision in Size	Variation 1.5 mm (+/-)
Compressive Strength	3-5 MPa
Fire Resistance	1200°C / Up to 7 hours
Density	550 - 650
Sound Reduction Index (db)	42 - 45 db (For 200 mm thick wall)
Thermal Conductivity	0.16 (k) w/m deg.C
Colour	Light Grey

## COMPARISON BETWEEN AAC BLOCKS - CLAY BRICKS

No	Parameter	CONECC AAC Blocks	Clay Bricks
1	Size	600 X 200 X 100 - 300mm	230 X 75 X 150 mm
2	Precision in Size	Variation 1.5 mm (+/-)	Variation 5 mm (+/-)
3	Compressive Strength	3-5 MPa	1.5-2 MPa
4	Mortar Consumption per cum with 1:6	0.5 bag of cement	1.35 bags of cement
5	Chemical Composition	Fly-ash is used approx 60% which reacts with binders (lime & cement) to form AAC which is an inert material	Soil is used which contains many inorganic impurities like sulfates etc which results in efflorescence
6	Contribution to Carpet Area	3-5%	None
7	Finishing	Can be directly incised, rasped to round edge, cut for arches, tapered to create profiles, sculptured, etc	Not Possible
8	Co2 Emission	One sq ft of carpet area will emit 2.2 kg of CO2	One sq ft of carpet area will emit 17.6 kg of CO2
9	Dry Density	550-650 kg/m3 (Oven Dry)	1900 kg/m3
10	Fire Resistance	Upto 7 hours	Around 2 hours
11	Cost Benefit Factor	Depending upon project design, savings up to 20% in structural cost due to reduction of dead load	None
12	Energy Saving	Upto 30% of air-conditioning load, both heating and cooling load will come down	None

### COST SAVING ASPECTS

Cost Component	Saving in Component	Estimated Impact on Project Cost	Explanation
Mortar Material	60%	1%	Conecc AAC Blocks are 9 times the size of conventional bricks, resulting in 1/3rd the number of joints. Thus an overall mortar savings of up to 65%
Plastering Material	35%	2%	Exceptional dimensional accuracy & smooth surfaces eliminates need of three-coat plaster walls and allows for a final 6mm skin coat (putty/gypsum plaster)
Breakages	65%	1%	Breakage in Conecc AAC Blocks is less than 3% as compared to 15% in bricks
Structural Material (Steel & Concrete)	15%	6%	Being light weight, Conecc AAC Blocks reduce dead weight of the building. This translates to design of lighter structures leading to reduction in steel and concrete by up to 20%.
Increase in Floor Space Area	2%	4%	Due to exceptional thermal insulation and weather barrier properties, it is possible to use thinner blocks, which results in increase of carpet area.
Savings in Capex (for HVAC Systems)	30%	0.3%	Conecc Blocks have excellent insulation properties, which results in saving of capex of HVAC systems.
Savings in Power Consumption	12%	0.2%	Conecc Blocks reduces usage of lights & power infrastructure like transformers, DG sets, cable sizes and saves overall electricity charges.

## COST COMPARISON

### Unit Rate Comparison of 100mm wall per 100 Sq. Ft

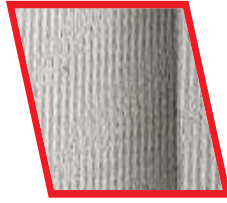
SI No	Description	UOM	Rate Rs	Brick Work		AAC Work	
				100mm Wall / 100SFT			
				Qty	Amount Rs	Qty	Amount Rs
<b>A. Material Costing</b>							
1	Clay Brick	Nos	7.50	533.00	3997.50	0.00	0.00
2	AAC Block/100mm	Nos	45.00	0.00	0.00	75.00	3375.00
3	Cement	Bag	350.00	5.00	1750.00	2.00	700.00
4	Sand	MT	1100.00	1.25	1375.00	0.50	550.00
<b>Total Cost of Material</b>			<b>Rs</b>		<b>7122.50</b>		<b>4625.00</b>
<b>B. Labour</b>							
1	Skilled Mason	Man days	600.00	1	600.00	0.50	300.00
2	Mason	Man days	500.00	1	500.00	0.50	250.00
3	Helper	Man days	400.00	1	400.00	0.50	200.00
<b>Total Cost of Labour</b>			<b>Rs</b>		<b>1500.00</b>		<b>750.00</b>
<b>Total Cost of Construction/100mm wall thickness 100SFT - Rs</b>					<b>Material Cost + Labour</b>		<b>A + B</b>
					<b>8622.50</b>		<b>5375.00</b>

## AAC BLOCKS CALCULATOR

SIZES L X H X W	VOLUME (Cu.M.)	Nos of Blocks per Cu.M.	Face Area (Sq. Ft.)	Nos of Blocks per Load
600 x 200 x 100	0.012	83.33	1.33	2100
600 x 200 x 125	0.015	66.67	1.33	1700
600 x 200 x 150	0.018	55.55	1.33	1400
600 x 200 x 200	0.024	41.67	1.33	1050
600 x 200 x 230	0.023	36.20	1.33	950
600 x 240 x 100	0.0144	69.44	1.55	1750
600 x 240 x 150	0.0216	46.73	2.32	1200

## RIBBED FACE

AAC BLOCK is the only block in the industry which comes with a unique ribbed finish on the face. Thus, it helps in better bonding of plaster & jointing mortar which increases strength of structure.



## FIRE RESISTANCE

AAC Blocks are non-combustible, hence provides a fire resistance of 6 to 7 hrs in accordance with BS-5628-3 approx twice more protection than normal cement blocks & conventional clay bricks. Thus, allows sufficient time for the safe evacuation of occupant.



## LIGHTER

AAC Blocks are 1/3rd times lighter than cement blocks & conventional clay bricks hence it reduce dead load of structure drastically resulting in to saving of steel upto 15% & concrete upto 7%.



## COST EFFECTIVE

- Reduces operating cost by 30% to 40%
- Reduces overall construction cost by 2.5%
- Saves 30% energy cost
- Lower maintenance cost.



## DURABILITY

AAC Products have been in use for nearly 70 years. Since then, the usage of AAC BLOCKS has spread to most parts of the world and it has proved its durability under different climatic conditions.



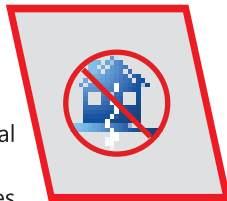
## STRONGER

AAC Blocks has approximate density of 600-650 kg/m<sup>3</sup> & compressive strength of 3 to 5 N/mm<sup>2</sup>, which makes it stronger than other bricks.



## EARTH QUAKE RESISTANCE

Building & structures constructed with AAC BLOCKS are lighter but stable when compared to cement blocks & conventional clay bricks. Thus, absorb & transmit less SEISMIC forces in event of any earth quakes & provide additional safety to the occupants.



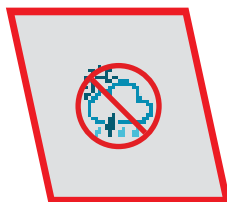
## PEST & TERMITE RESISTANCE

AAC BLOCKS are inorganic in nature which does not allow growth of pests & spread of termites. Thus, provides better environment for healthier living.



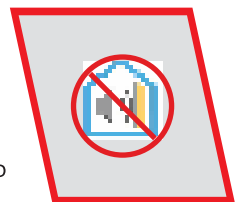
## WEATHER PROOF

AAC BLOCKS has very low specific conductivity which makes heating or cooling (Air conditioning) very efficient and it generates regular saving on energy & global warming.



## SOUND PROOF

AAC BLOCKS has perfect sound proofing properties due to its aerated structure which provides superior sound insulation for same thickness of wall as compared to cement blocks & conventional clay bricks wall.



## FAST INSTALLATION

AAC BLOCKS are light weight, bigger in size & require very less water for curing compare to cement blocks & conventional clay bricks, which in term reduces construction time by 20%



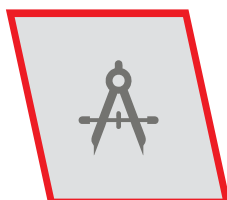
## LONG LASTING

AAC BLOCKS do not contain any organic material. Hence, they will be protected from pest and termite which results in long lasting durability of building in normal atmospheric conditions.



## ACCURACY

AAC BLOCKS has the exact dimension which provides perfect accuracy to our customers.



## ADJUSTABLE

AAC BLOCKS can be easily cut, drilled, nailed, milled and grooved to fit individual requirements.



## Marketed By



AN ISO 9001-2015 CERTIFIED COMPANY

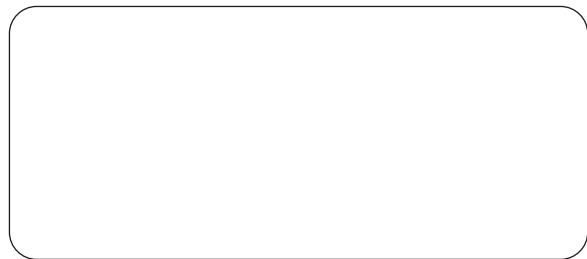
475 F2 Sourbha, Jawaharlalnehru Road,  
3rd Stage, BEML Layout RR Nagar,  
Bengaluru - 560098

Contact - (L) 080 - 28611303,28601393

(M)+91 95385 01236 ,95381 01456

Mail - info@durgamba.co.in

## Our Dealer



## Manufactured By

