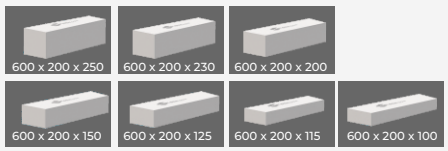
Comparisons

Comparison Between AAC Blocks, Clay Bricks

Parameters	AAC Block	Clay Brick
Size	600mmx200mm x50-300mm	230mmx115mmx75mm
Precision in size	Variation 2mm ±	Variation 10mm ±
Compressive Strength	30-40 kg/cm² (As per IS:2185 part 3)	25-30 kg/cm²
Dry density	551-650 kg/m³ (oven dry)	1800 kg/m³
Wet density	Approx 750-800kg/m³	Approx 2400kg/m³
Wastage	upto 3%	upto 20%
Baking	Done in autoclaves with high pressure steam ready in 12 hours	Done in clay Kilns
Fire Resistance	upto 4 hours for 200 mm thickness	2 hours
Sound reduction (DB)	upto 42(db) for 200 mm thickness	50 for 230mm thick wall
Thermal conductivity	Approx 0.16-0.25	Approx 0.81
Surface quality (Fungus problems)	None, smooth clean finish, no fungus	Fungus and salinity problems on the surface
Adoption to various surface finishes	Smoother surface result in better coating application	Inconsistent surface
Mortar consumption	0.018 per M² with 1.6/0.5% bag of cement	0.1 per M² with 1.6/0.35% bag of cement
Consumption time	Reduced by upto 50% compared to clay bricks	Double AAC blocks
Energy saving	32% (App.) Air-condition load, heating/cooling come down	No saving
Cost benefit factor	Saveing sand, steel, cement, labor, water for curring and dead load reduce 30% structural cost	No saving
Contribution to carpet area	1.5-3 %	No saving
Chemical composition	Fly ash used in 50% which reacts with (Lime & cement) to form AAC Which is an inert material	Soil is used which contains many inorganic impurities like sulphates etc. which results in efflorenscence
Structural cost	Steel saving up to 15%	No saving
Cement mortar for plaster & masonry	Required Less due to flat even surface, fewer joints	Requires More needed due to irregular surface and more number of joints
Breakage	Less than 2%	Average 10-12%
Construction speed	Speedy construction due to its big size light weighy and easy to cut in any size or shape	Comparatively slow
Quality	Uniform & consistent	Normal varies
Fitting & Chasing	All kinds of fitting/chasing possible	All kinds of fitting and chasing possible
Carpet area	More due to less wall thickness of walling material	Comparatively less
Energy saving	Approx. 30% reduction in air-conditioned load	No such saving

Block Available Sizes



Technical Specification

Property	Units	AAC Block	Clay brick
Size	mm	600x200x(75to300)	230x75x110
Size tolerance	mm	± 5mm in length*± 3mm in width & height	± 05 to 15
Compressive Strength	N/mm²	Min 4.0*	2.5 to 3.5
Normal Dry (Oven DryDensity)	Kg/m³	551 to 650*	1800
Normal Conductivity "K"	W/m-k	Max 0.24*	0.81
Drying shrinkage	%	Max 0.05*	-
Fire resistance	Hrs.	2 to 6 (depending on thickness)	2
Sound reduction index	Db	45 for 200 mm thick wall	-

*As per IS2185 part 3

Calculation Sheet

Length (mm)	Height (mm)	Width (mm)	No of Pcs (per m³)	Work in Sq ft (per m²)
600	200	250	33.33	45
600	200	230	36.23	48.5
600	200	200	41.67	56
600	200	150	55.6	75
600	200	125	66.7	89
600	200	115	72.5	97
600	200	100	83.33	112
625	250	250	25.6	44.5

*Assumption : 12mm Mortar thickness

Build Smarter. Build Greener. Build with BLOCKCON

BlockCon is more than a building material-it's a commitment to unstainability, innovation, and excellence. Whether you are constructing homes, apartments, offices or industrial facilities, BlockCon AAC Blocks provide unmatched performance, safety, and cost- efficiency.

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BlockCon AAC blocks are advanced, lightweight, and precast construction materials designed for modern building needs. These blocks are crafted using a precise blend of OPC cement, lime, fly ash, water, and an aerating agent. The mixture undergoes a curing process under controlled heat and pressure, resulting in blocks that have exceptional strength, durability, and reliability.

Known for being environmentally friendly, BlockCon AAC blocks offer outstanding benefits such as superior thermal insulation, excellent fire resistance, and effective soundproofing. These properties not only improve the energy efficiency and comfort of buildings but also contribute to sustainable construction practices.

The lightweight nature of these blocks makes them easy to handle, significantly reducing construction time and labour costs. Their versatility ensures they are suitable for a wide range of applications, from residential homes to large commercial complexes and industrial projects. BlockCon AAC blocks provide a smart, eco-conscious, and cost-effective solution for building modern, energy-efficient structures.

With BlockCon, you're not just building structures; you are creating legacies that endure. Choose Lighter, High Strength, smarter, faster, and greener construction with BlockCon.

AAC Block Advantages

Block Jointing Mortar

AAC Block Adhesive is a factory prepared blend of carefully selected raw materials, Portland cement and graded aggregates and polymers. Designed for use with water to produce high strength thixotropic mortar, for laying Aerated Light weight concrete, Fly ash.

1 Cube meter AAC block = Approx 426 pcs clay bricks

AAC Block Size Quantity in 1 Cubic Meter

LENGTH	HEIGHT	THICKNESS	QUANTITY
24" (600mm)	10" (250mm)	3" (75mm)	88.88 PCS
24" (600mm)	10" (250mm)	4" (100mm)	66.66 PCS
24" (600mm)	10" (250mm)	5" (125mm)	53.33 PCS
24" (600mm)	10" (250mm)	6" (150mm)	44.44 PCS
24" (600mm)	10" (250mm)	8" (200mm)	33.33 PCS
24" (600mm)	10" (250mm)	10" (250mm)	26.66 PCS
24" (600mm)	8" (200mm)	4" (100mm)	83.33 PCS
24" (600mm)	8" (200mm)	5" (125mm)	66.66 PCS
24" (600mm)	8" (200mm)	6" (150mm)	55.55 PCS
24" (600mm)	8" (200mm)	8" (200mm)	41.66 PCS
24" (600mm)	8" (200mm)	10" (250mm)	33.33 PCS
25" (625mm)	10" (250mm)	4" (100mm)	64 PCS
25" (625mm)	10" (250mm)	5" (125mm)	51.20 PCS
25" (625mm)	10" (250mm)	6" (150mm)	42.60 PCS
25" (625mm)	10" (250mm)	8" (200mm)	32 PCS
25" (625mm)	10" (250mm)	10" (250mm)	25.60 PCS

(Quantity is per cubic meter)

Why Choose BLOCKCON

At BlockCon, we combine cutting-edge technology with sustainable practices to create building materials that elevate your projects. Our AAC blocks offer unparalleled strength, precision, and eficiency, making them the ultimate choice for modern construction.

Where BLOCKCON Excels :

BlockCon AAC Blocks are versatile and adaptable, making them suitable for a wide range of applications:

Residential Building : Ideal for homes and aprartmenrs, offering comfort, safety, and energy efficiency.

Commercial Spaces : Perfect for offices, malls, and showrooms due to their strenght and durability.

Industrial Units : Reliable for warehouses, factories, and cold storage with high load-bearing capacity.

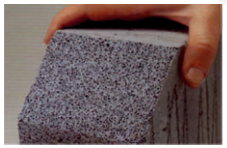
Public Infrastructure : Suitable for schools, hospitals, and government projects, ensuring long-term reliablity and safety.

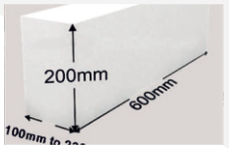
Why Builders & Contractors trust BLOCKCON

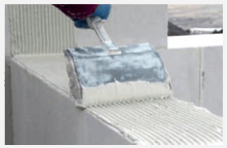
BlockCon is tested, trusted, and recommended by leading builders and architects. Its superior features and eco-friendly benefits align with global standards, making it the preferred choice for modern construction.

Technical Parameters

Parameter	Unit	Value Block	Value Brick
Size : Length x Height	mm	600x200 or 625x240	225x75
Size : Thickness	mm	50,75,100,150,200,225,300	105
Dry Density	Kg/M3	550-650	1900-2000
Compressive strength	Kg/cm2	<3	<3
Thermal Conductivity	W/KOM	0.16 to 0.18	0.8 to 0.96
Size Variation	mm	+1mm	+10 mm







Project Impact

Cost Element	(X) Saving Element	(X)
Steel & Concrete	10	5
Carpet Area	1.5	3
Plastering Mortar	35	2
Joining Mortar	60	1
Wastages	10	0.5
Capex of HVAC System	30	0.3
Project Saving		11.8