

AAC FLY ASH BLOCKS

THE SUPERIOR, ECO-FRIENDLY ALTERNATIVE TO TRADITIONAL RED CLAY BRICKS

Autoclaved Aerated Concrete (AAC) Fly Ash Blocks are high-performance, lightweight precast building elements engineered for modern sustainable construction. Composed of up to 70% pulverized fly ash combined with cement, lime, and gypsum, these blocks undergo high-pressure steam curing (autoclaving) to create a structurally strong yet porous, cellular matrix. It effectively slashes structural dead load while drastically speeding up installation.

KEY PRODUCT ADVANTAGES

Significant Cost Reduction

Reduces structural dead load by up to 60%, leading to massive savings in structural steel and foundation cement. Minimal mortar and plaster requirements further save up to 20% on total layout cost.

Thermal & Sound Insulation

Low thermal conductivity keeps interiors up to 5°C cooler in summer, lowering HVAC energy expenditures by 25-30%. Offers a high sound attenuation rating of up to 45 dB.

High Speed & Low Workmanship

Blocks are up to 3 times larger than traditional bricks, ensuring 3x faster wall laying speed. Perfectly square dimensions reduce thick plastering layers to a mere 6-10mm.

STANDARD SIZES & DIMENSIONS

Our blocks are manufactured with extreme dimensional accuracy ($\pm 1.5\text{mm}$) ensuring flat, level walls.

Parameter	Standard Specification
Standard Length	600 mm
Standard Height	200 mm / 250 mm
Available Thicknesses	75, 100, 150, 200, 230 mm
Color & Finish	Greyish White / Uniform smooth solid finish

Export Logistics Support

We specialize in palletized bulk packaging optimized for container freight. Seamless shipping offered from **Mundra Port, Gujarat** to global commercial hubs.

TECHNICAL SPECIFICATIONS

Technical Property	Standard Value	Compliance Standard
Compressive Strength	3.5 – 5.0 <i>N/mm²</i>	IS:2185 (Part III) / ASTM C1693
Oven-Dry Density	550 – 650 <i>kg/m³</i>	IS:2185 / Grade I Class A
Thermal Conductivity (k)	0.16 – 0.24 <i>W/mK</i>	Highly Thermal Insulative
Fire Resistance Rating	2 to 6 Hours	Depending on wall thickness
Sound Transmission Class (STC)	Up to 45 dB	Excellent Acoustic Isolation
Drying Shrinkage	0.05% to 0.10% maximum	Prevents post-construction cracks

FREQUENTLY ASKED QUESTIONS

Q1: Which mortar is recommended for laying AAC Fly Ash blocks?

We highly recommend polymer-modified **Thin-Bed Joining Mortar** over traditional sand-cement mixes. Thin-bed layouts require only a 2-3mm joint, completely eliminating thermal bridging and wastage.

Q2: Does an AAC block wall require standard continuous water curing?

No. Unlike standard clay bricks, AAC blocks do not require extensive water curing (tarai) after laying. If polymer-modified premixed joining mortar is applied, the need for continuous watering is virtually eliminated.

Q3: How eco-friendly are these blocks?

Our blocks incorporate up to 70% thermal power plant recycled Fly Ash. This avoids topsoil erosion caused by red bricks and helps your projects secure prestigious green building **LEED certifications**.

BABHANIYA OVERSEAS OPC PVT LTD

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Global Export Hub

Port of Loading: Mundra / Kandla Port

Official Website: www.babhaniya.com