

THE ABILITY TO BUILD **STRONGER** **GREENER** **FASTER**



Autoclaved Aerated Concrete Block

www.abilitygroup.org

Ability Group of Companies



Ability Industries

Solapur's trusted manufacturer of sustainable building materials including AAC blocks, fly ash bricks, and construction chemicals.



Ability Properties

A real estate advisory creating value by connecting clients from first-time homebuyers to multinational corporations with their ideal spaces.



Ability Construction

Solapur's premier construction company with 100+ professionals delivering highquality residential, commercial, and mixed-use projects.



Ability Marketing

A personalised digital marketing partner for small and medium businesses that functions as an extension of your team.



Ability Foundation

A philanthropic organisation that partners with local leaders to create long-term community-focused solutions.

Ability Industries is a part of the Ability Group

At Ability Group, we transform ideas into reality through our diverse portfolio of specialised companies. With expertise spanning properties, construction, manufacturing, digital marketing, and community development, we deliver exceptional value and results in every sector we serve. Our commitment to quality, innovation, and customer satisfaction unites our businesses under a single vision of excellence.

Vision

To lead transformation, define markets, and create sustainable growth across industries.

Mission

To integrate expertise, drive change, support local businesses, and uplift communities.

Purpose

To build trust, deliver excellence, and shape a brighter, sustainable future.

Values

Ability Group is committed to excellence encapsulated in its values: **ABILITY**.

A

Agility: We adapt quickly, stay proactive, and ensure efficient project delivery in a changing world.

B

Brilliance: We are committed to consistently exceeding expectations with excellence in everything we do.

I

Integrity: We build trust through honesty, authenticity, and ethical business practices

L

Leadership: We inspire, empower, and lead with excellence and responsibility in every endeavor.

I

Innovation: We challenge the status quo with a creative, future-focused mindset across all operations.

T

Trust: We deliver on promises and earn reliability through every relationship and project.

Y

Young: We bring fresh perspectives, energy, and a passion for growth and innovation.

Quality that stands the test of time

Ability Industries is Solapur's leading manufacturer of Autoclaved Aerated Concrete (AAC) blocks. Our superior building solution combines quality, sustainability, and cost-effectiveness, and is an excellent choice for all your real estate projects.



The Ability Advantage

Our 3-acre facility, equipped with the latest technology and exceptional advanced machinery, ensures high-volume production with precision—delivering faster turnaround, consistent quality, and reliable project support.

Consistent Quality: Manufactured with high quality materials and advanced technology.

Cost Efficiency: Reduces project costs through faster build times and lower labour needs.

Local Edge: Made in Solapur so faster delivery and lower transport costs.

Fully Automatic Plant: Automation ensures consistent quality and precision in every block.

Hardener Oil Treatment: Specialised oil ensures strong, durable edges resistant to crumbling.

100% Fly Ash Utilisation: Pure fly ash with zero pound ash fillers used for superior block quality and eco-friendly production.

Eco-Friendly: Qualifies your project for LEED and GRIHA certifications.

RO Water Treatment Plant: Purified water enhances block strength and overall product quality.



Manufactured to outperform

Engineered to last



Structural Savings

Ability AAC Blocks are ultra-light, reducing dead weight, steel consumption, and plaster usage, thus resulting in significant cost savings.



High Strength

Steam-cured under high pressure, Ability Blocks deliver exceptional strength-to-weight ratio, exceeding Indian Building Code standards.



Faster Construction

Lightweight design means faster handling, quicker setting, and a major reduction in overall construction time.



Fire-resistant

Withstand extreme temperatures up to 1500°C and resist flames for 4-5 hours without emitting toxic fumes.



Superior Sound Insulation

Achieving STC-44, Ability Blocks reduce noise by 45–49dB, enhancing living and working environments.



Earthquake Resistant

Lightweight and resilient, Ability Blocks minimise seismic impact, meeting standards for Zones IV & V.



Green Building Certified

Ability AAC Blocks help qualify for LEED and GRIHA certifications. They are energy-efficient, reduce transport emissions, and use less water than clay bricks.



Easy Installation

Lightweight and simple to handle, Ability Blocks require minimal mortar and basic tools for cutting, drilling, and nailing, ensuring a quick, easy build.



Flexible & Worker-Friendly

Ability AAC Blocks are easy to cut and shape, speeding up work, reducing waste, and lowering labor costs, especially for large projects.



Pest Resistant

Made from inorganic materials, Ability Blocks are naturally resistant to termites and other pests, ensuring long-term structural safety.



Light Weight

Up to 3 times lighter than red bricks—easy to handle, transport, and install, reducing structural load.

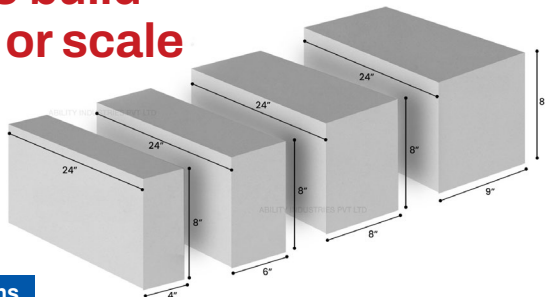


Water-resistant

Low moisture absorption prevents dampness, leakage, and surface damage.

The smarter way to build No matter the size or scale

Ability AAC Blocks are engineered to meet the demands of modern construction standards, ensuring high performance across diverse building requirements.



Ability AAC Block Sizes & Specifications

DIMENSION OF AAC BLOCKS (LXHX B)	CUBIC METER OF AAC BLOCK	NO. OF AAC BLOCKS IN 1 CUBIC METRE	WEIGHT OF ONE AAC BLOCK
600*200*100 MM (2 feet x 8" h x 4" w)	0.01200	83.33 Pcs (Approx)	8/9 KGS (Approx)
600*200*125 MM (2 feet x 8" h x 5" w)	0.01500	66.67 Pcs (Approx)	10/11 KGS (Approx)
600*200*150 MM (2 feet x 8" h x 6" w)	0.01800	55.55 Pcs (Approx)	12/13 KGS (Approx)
600*200*175 MM (2 feet x 8" h x 7" w)	0.02100	47.62 Pcs (Approx)	14/15 KGS (Approx)
600*200*200 MM (2 feet x 8" h x 8" w)	0.02400	41.67 Pcs (Approx)	16/17 KGS (Approx)
600*200*225 MM (2 feet x 8" h x 9" w)	0.02700	37.04 Pcs (Approx)	18/19 KGS (Approx)
600*200*250 MM (2 feet x 8" h x 10" w)	0.03000	33.33 Pcs (Approx)	20/21 KGS (Approx)

PRODUCT SPECIFICATIONS	UNITS	CAPACITY
Length	Mm	600 (2 feet)
Height	Mm	200 (8 inch)
Thickness	Mm	100 (4"), 150 (6") , 200 (8") , 225 (9")
Compression Strenght	Ni mm-	>4(As per IS . 2185 Part 3
Normal Dry Density	Kg/m=	550-650
Thermal Conductivity	W/mk	0.24
Sound Reduction	Db	Upto 42
Fire Resistance	Hrs	*4
Dry Shrinkage	%	0.04

Precision. Performance. Profit

Ability AAC Blocks are designed to enhance project efficiency, strengthen structural integrity, and reduce material costs.

Ability AAC Block Cost Effectiveness

COST COMPONENT	SAVING IN COMPO-NENT	ESTIMATE IMPACT ON PROJECT COST	EXPLANATION
Mortal material	60%	2%	Ability AAC Blocks are 7 times larger than conventional bricks, reducing the number of joints by one-third and resulting in up to 60% savings in mortar.
Plastering material	35%	2%	Exceptional dimensional accuracy and smooth surfaces eliminate the need for traditional three-coat plastering, allowing for just a final 6 mm skin coat of putty or gypsum plaster.
Wastage	10%	0.5%	Brick breakage can be as high as 15%, while with AAC blocks, it is less than 5%.
Structural material (Steel & concrete)	20%	8%	Being lightweight, MC Blocks significantly reduce the building's dead load, enabling the design of lighter structures and resulting in up to 20% savings in steel and concrete.
Increase in floor space area	2%	2%	Thanks to exceptional thermal insulation and weather barrier properties, thinner blocks can be used, leading to an increase in carpet area.
Saving in capecx for HVAC systems	30%	0.5%	AAC blocks offer excellent insulation, leading to significant savings in both the CAPEX and OPEX of HVAC systems.
Total impact on project cost	-	15%	-

Delivering strength, speed, and sustainability

Ability AAC Blocks offer unmatched benefits ensuring superior quality of all your construction projects

Ability AAC Block vs Red Clay Brick

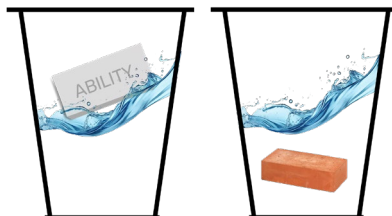
PARAMETER	ABILITY AAC BLOCK	RED CLAY BRICK
Basic raw materials & other inputs	Cement (IS-12269, IS-8112), sand (PFA-IS-383), high quality lime (IS-712), gypsum, water (IS-456), fly ash (IS-3812 PT-1), and aluminum as aerating compound	Top soil and energy
Dry density (kg/m ³)	550-650 kg/m ³ (dry density) - IS-2185 (PT-3)	1900 kg/m ³
Compressive strength (kg/cm ²)	30-45 kg/cm ² - IS-2185 (PT-4)	40-75 kg/cm ²
Aging	Gains in strength with age	No gain in strength with age
Thermal conductivity (W/mK)	0.24 W/mK (for 550-650 kg/m ³)	0.81 W/mK
Sound insulation	Superior to burnt clay and hollow concrete	Normal
Ease of working	Can be cut, nailed, and drilled	Normal
Fire resistance	4 to 6 hours (depending on thickness)	2 hours
Sound reducing index	45 dB for 200mm thick wall	50 dB for 230mm thick wall (frequency 200 to 2000 Hz)
Pest & rodent resistance	No fungus and algae germination due to non-organic properties	Algae susceptible
Process	Casting, rising, pre-curing (IS-456, IS-2185 PT-4)	Moulding and heat treatment
Pre-cast brick size	600×200×75 to 300mm (IS-2185 PT-3,4)	230×100×70 mm
Pre-cast elements	Any size of elements feasible	Not feasible

Delivering performance, reliability, and peace of mind

Ability AAC Blocks leave our facility only after rigorous quality testing and certification.

Ability AAC Block vs Red Clay Brick

PARAMETER	ABILITY AAC BLOCK	RED CLAY BRICK
Water absorption by weight	Less than 20% by volume - IS-2185 (PT-3)	20% by volume
Drying shrinkage (mm/meter)	Shrinkage after maturing 0.011 (for 600 kg/m ³) - IS-2815 (PT-3)	No shrinkage
Productivity	Output 100% more than brickwork	Normal
Eco-friendliness	Pollution-free, normal energy requirement, open process uses fly ash or sand lime	Creates smoke, uses high energy, wastes agricultural land
Structural saving due to dead weight reduction	55% reduction in wall weight - tremendous structural saving for high-rise buildings in earthquake/poor soil areas	No additional saving
Automation	Automated manufacturing process with accurate design mix	Manual
Labour involvement for 10×10 ft wall	1	2
Construction speed	Very high due to bigger size and light weight	Comparatively lower
Quality	Uniform and finished	Normally varies
Delivery	Pre-cured and ready for delivery (IS-456)	Seasonal



Cost saving compared to red bricks

AAC with bricks for a wall of 10' long & 10' height

PARAMETER	ABILITY AAC BLOCK	RED CLAY BRICK
Structural saving due to dead load reduction	65% reduction in weight of walls Tremendous structural saving for highrise in Earthquake/Poor Soil	No Additional Saving

COSTING

Total cost in construction of 10'x10' wall (Inclusive of raw material & plastering cost)	₹ 4,400	₹ 6,500
Total Saving in 10'x10' wall	₹ 2,100	NIL
No. of Blocks/Bricks per cubic metre	83.33 Blocks/Cum (600x200x100mm)	525 Bricks/Cum (225x75x100mm)
Total cost of Blocks/Bricks in construction of 10'x10' wall	75 Blocks of (600x200x100mm)	525 Bricks (225x75x100mm)
Price per blocks in 10'x10' construction	₹ 40 per block	-
Cost of block converted in to size of bricks vs per brick cost	₹ 5.5 per brick	₹ 7.00 per brick
Mortar cost per 100sqft.	₹ 600	₹ 950
Plaster	Only one side mandatory (other side direct gypsum plaster)	Both sides are Mandatory
Cement	₹ 300x2 Bag = ₹ 600	₹ 300x5 Bag = ₹ 1500/-
Labour	Construction 0.5 Day (4 Hour) Costing - ₹ 750	Construction 1 Day (8 Hour) Costing - ₹ 1500
Apx. Total cost of construction 4" Wall Thickness 100 sqft (Materials + Labour)	₹ 5500	₹ 9000



Ability AAC Blocks Factory, Solapur



ABILITY[®] INDUSTRIES



Contact us for superior building solutions

At Ability Industries, we understand the unique challenges of property development and offer solutions that help you build better, faster, and more profitably.

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