



QASWA
BLOCKS MFG. LLP.

*For the
Low Carbon
Homes
of the Future*

AAC BLOCKS

BLOCK

JOINTING

MORTAR



High **quality** Blocks

Qaswa Blocks stands out as a premier manufacturer of AAC Blocks in Navi Mumbai, renowned for our unwavering commitment to the highest standards of quality. Our manufacturing process integrates cutting-edge technologies and adheres to current industry trends, overseen by seasoned professionals with extensive experience in AAC technologies.

We tailor the design, production, and delivery of AAC Blocks to meet the specific requirements of our esteemed clients. These blocks offer a unique blend of structural strength, lightweight construction, superior thermal insulation, sound absorption, fire resistance, and impeccable build quality.

At Qaswa Blocks, our vision is to emerge as the foremost AAC Block Manufacturer in Maharashtra. We strive to consistently earn the trust of our clients by delivering AAC Blocks of world-class quality at the most competitive prices.

Furthermore, at Qaswa Blocks, sustainability is at the core of our operations. We prioritize environmental responsibility throughout our manufacturing process, minimizing waste and maximizing energy efficiency. By utilizing eco-friendly materials and implementing sustainable practices, we aim to reduce our carbon footprint and contribute to a cleaner, greener future for our community and the planet.

Mission: Qaswa Blocks is committed to delivering top-quality AAC Blocks, blending strength and sustainability, while minimizing environmental impact, to meet diverse construction needs.

Vision: We aim to be the leading AAC Block Manufacturer in Maharashtra, setting industry standards with innovation, quality, and customer satisfaction, and forging a path towards a greener, more sustainable future.

Pioneering quality,
eco-friendly AAC blocks,
shaping tomorrow.



AAC Block BLOCK JOINING MORTAR



SELF
CURING



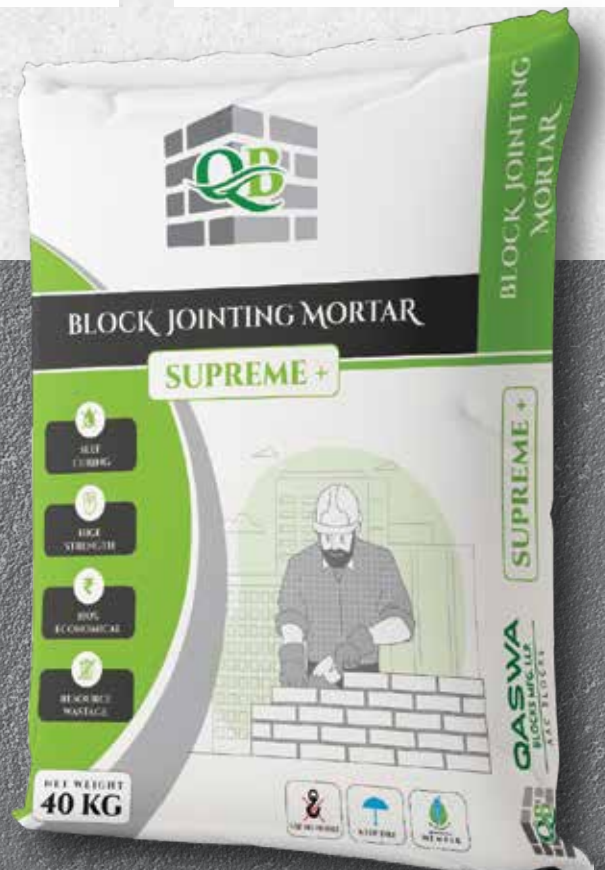
ECONOMICAL



HIGH
STRENGTH



RESOURCE
WASTAGE



AAC (Autoclaved Aerated Concrete) is a green precast masonry material present in global market for over 70 years. QASWA AAC light weight blocks are manufactured by Flyash, Cement, Water, Lime and Aluminium powder. All Ingredients are measured and then mixed and poured in mould. The reaction between aeration agent (Aluminium Powder) and lime creates millions of microscopic bubbles, which increase volume and makes it light in weight. AAC consists almost 80% of air volume, making it lightest material for the masonry.

FIRE RESISTANT

AAC Blocks has remarkable fire resistance properties it is totally inorganic and does not contain any combustible materials. Heat is migrating at a very slow rate due to its low thermal conductivity, giving AAC Block excellent fire resistance.



EARTHQUAKE RESISTANCE

- The low mass of AAC Blocks results in reduced dead load of the building and consequently reducing the applied seismic forces to the structure.
- Region of high Seismic activities like Japan exclusively uses AAC blocks. It has proven to withstand wind loads of category 5 tropical storms.



ACOUSTIC INSULATION

AAC Blocks meets the appropriate standard for sound insulation, quieter and more comfortable interior in building and industries. The sound absorption of untreated AAC surface is better than other masonry products.



THERMAL INSULATION

The thermal conductivity of AAC Blocks helps in maintaining internal temperature as per seasonal needs, which ultimately leads to save the air conditioning load and consequently enhances its energy efficiency.



DURABILITY

AAC Blocks does not contain any organic matter subjected to deterioration and will not degrade even under severe weather conditions.



AAC BLOCK SIZE CHART

SIZE-A

AAC BLOCK TYPE	SIZE/DIMENSIONS	PIECES PER CBM
3" or 75 mm	600 x 200 x 75 mm	111.11
4" Or 100 mm	600 x 200 x 100 mm	83.33
5" or 125 mm	600 x 200 x 125 mm	66.67
6" or 150 mm	600 x 200 x 150 mm	55.56
8" or 200 mm	600 x 200 x 200 mm	41.67
9" or 225 mm	600 x 200 x 225 mm	37.04

SIZE-B

AAC BLOCK TYPE	SIZE/DIMENSIONS	PIECES PER CBM
3" or 75 mm	600 x 200 x 75 mm	87
4" Or 100 mm	600 x 200 x 100 mm	69.44
5" or 125 mm	600 x 200 x 125 mm	56
6" or 150 mm	600 x 200 x 150 mm	46.29
8" or 200 mm	600 x 200 x 200 mm	35
9" or 225 mm	600 x 200 x 225 mm	31

*All Technical Specification as per IS Code 2185 Part III (Reaffirmed 2020)

PEST RESISTANT



AAC Blocks provides airtight interior, it does not contain any organic ingredient. Termites and ants do not eat or nest in AAC block. Being made up of inorganic materials.



EASY WORKABILITY AND SPEEDY CONSTRUCTION

AAC Blocks can be sawn, cut, slotted, drilled, chased and nailed with ordinary woodworking tools which makes them easier to install than other building materials. This also simplifies the installation of electro-mechanical services and other utilities which means more cost savings.



STRENGTH

AAC Blocks are cured under high pressure steam curing-autoclaving process, autoclaving exhibits high strength performance.

Particulars	Unit	Value	Requirements as per IS-2185 Part-3
Compressive strength	N/mm ²	4.28	>4 (Density range 551-650 Grade-1)
Oven Dry Density	Kg/m ³	551-650	551-650

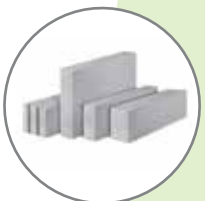


HIGH RESISTANCE TO WATER PENETRATION.

Cellular structure of AAC Blocks making it to resist water penetration effectively.

DIMENSIONS

Available in 600 x 200 with thickness of 75, 100, 125, 150, 200, 225 (all measurement is in mm).



Disclaimer: The information given in this leaflet is for general guidance only. All tests conducted in standard laboratory. Conditions in accordance with relevant standard. There is no express or implied guarantee/ warranty for the result. For specific application instructions can be provided on request.



Product Description:

QASWA Block Jointing Mortar is a versatile high quality mortar mix. Specifically designed to provide strength & adhesion to walls constructed by AAC blocks, fly ash bricks, concrete blocks etc. QASWA Block Jointing Mortar is a unique combination of cement, graded sand & blended polymers to impart high strength & water retention properties.

Mixing:

QASWA Block Jointing Mortar should be mixed with clear potable water. Take almost 10 to 12 litre water for making mix of one bag (40 Kg). Add powder to water and mix until a uniform, lump free consistency is achieved.

Application:

The mix should be spread on the surface to a uniform thickness Of 3-4 mm. It is advised to moisten the blocks before laying.

Precautions:

QASWA Block Jointing Mortar contains non toxic material though care should be taken to avoid dust inhalation. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice.

Packaging / Storage:

QASWA Block Jointing Mortar is available in two types Block Jointing Mortar and Block & Brick Mortar, available in 40 kg Bag. It should be stored in cool and dry space and used within 6 months from the date of manufacturing.T

Features & Benefits:



SR. NO.	PROPERTIES	SPECIFICATION
1	APPEARENCE	FREE FLOWING POWDER
2	COLOUR	GREY
3	WATER DEMAND	25 TO 30%
4	WORKABILITY	VERY GOOD
5	SELF CURING	NO CURING IS REQUIRED
6	POT LIFE	>30 MINUTES



PRODUCTS CHARECTERISTICS & TECHNICAL SPECIFICATION

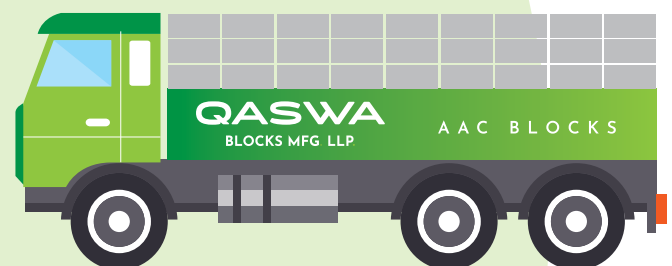
Sr. No.	PARAMETER	AAC BLOCK	CLAY BRICK
1	Size (L x H x T)	600 x 200 x (50 to 300) 625 x 240 x (50 to 300) 650 x 240 x (50 to 300)	230 x 100 x 75 mm
2	Size Tolerance	3 mm (+/-)	05 to 15 mm (+/-)
3	Compressive Strength	as per IS:2185- Part3	as per IS: 1077
4	Dry Density	550 - 850 Kg/ Cum (oven dry)	1850 Kg/Cum
5	Fire Resistance	02 to 06 hours (depending upon thickness)	02 hours
6	Sound Insulation Index	45 dbfor 200 mm thick wall	50 db for 230 mm thick wall
7	Thermal Conductivity	0.16 - 0.18 (w / m-K)	0.81 (w / m-K)

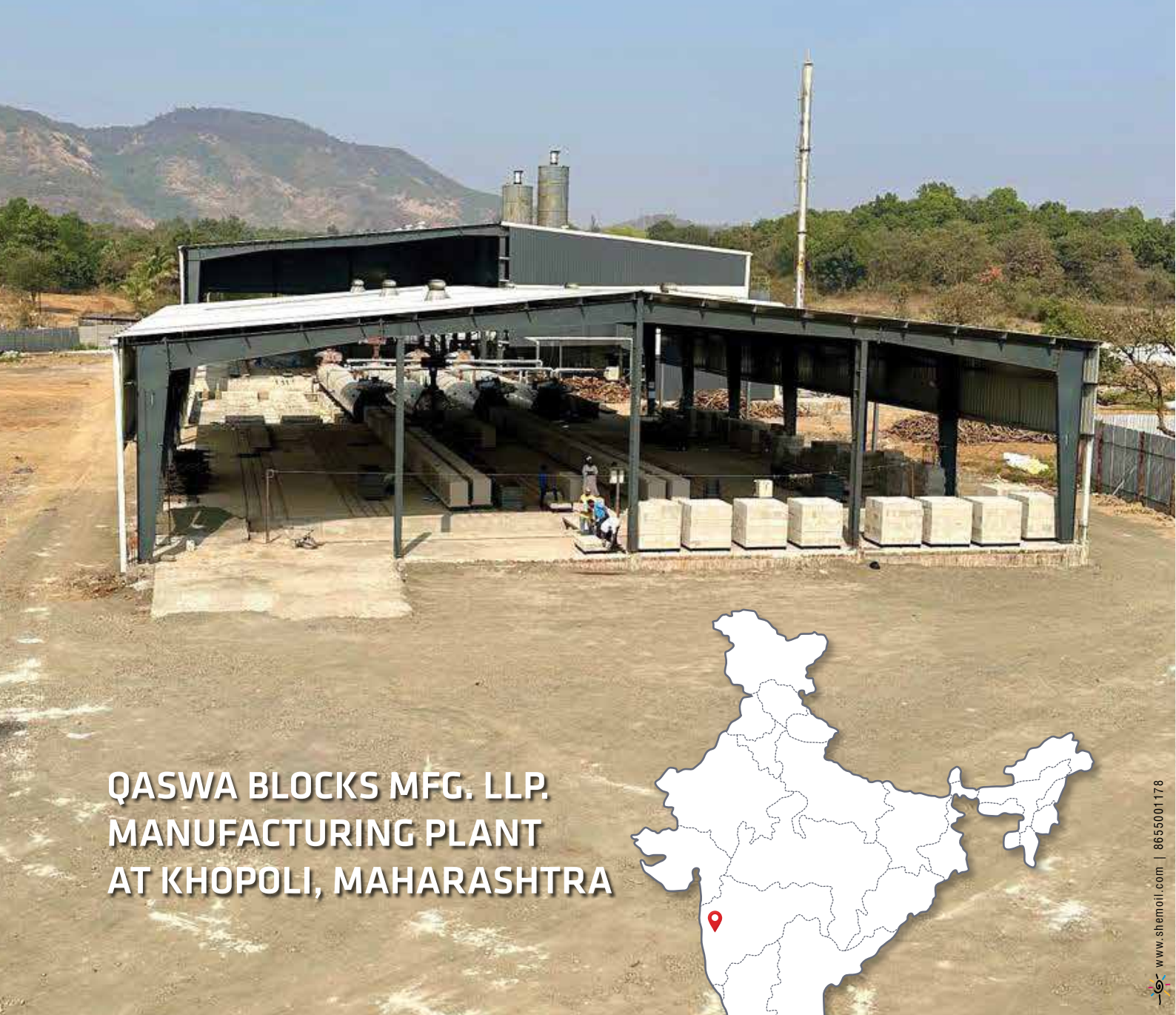
COMPARISON & TRADITIONAL METHOD

1	Structural Cost	Steel saving up to 15% to 20%	No such saving
2	Cement Mortar For Plaster & Masonry	Required less due to flat, even surface & minimum number of joints	Required more due to irregular surface, & more number of joints
3	Breakage & Utilization	Negligible breakage therefore 100% utilization	Average 10 to 15% breakage
4	Construction Speed	Speedy construction due to it's big size, light weight & ease to cut in any size or shape	Comparatively slower
5	Labour Out Put	Approximately double of conventional brick	Comparatively low
6	Quality	Uniform & consistant	Normally varies
7	Carpet Area	More due to less thickness of walling material	Comparatively low
8	Storage	Readily available at any season in a short notice so no storage required	Particularly in monsoon, stock at site is compulsory
9	Water Required	Required less in wetting & curing, hence saving in electricity bill & labour cost.	Need more curing resulted to higher amount of electricity bill & labour cost.
10	Energy Saving	Approximately 30% reduction in air-conditioned load	No such saving

LOGISTICS DATA

Sr. No.	TRUCK CAPACITY	MATERIAL
1	12 Ton	14 -15 CBM
2	25 Ton	33-36 CBM
3	30 Ton	40-43 CBM





QASWA BLOCKS MFG. LLP. MANUFACTURING PLANT AT KHOPOLI, MAHARASHTRA



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Indian Green Building Council
MEMBER