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# AIWON BLOCKS & AIWON BOND

# ABOUT US

**BRICKCEM CONMATE PVT LTD** stands as a beacon of innovation and sustainability, crafting superior quality construction material.

At the heart of our philosophy lies a deep-rooted dedication to sustainability.

We recognize the urgent need to minimize the environmental footprint in the industry, and our practices reflect this ethos. By harnessing cutting-edge technology and adopting eco-friendly manufacturing processes, we strive to make a positive impact on the planet.

As we look to the future, we remain unwavering in our pursuit of innovation and sustainability. We will continue to push the boundaries of what's possible, driving positive change in the construction industry and beyond.

Welcome to a world where innovation meets sustainability at **BRICKCEM CONMATE PVT LTD**.



## VISION



We envision a world where construction is not just about erecting structures but also about conserving resources, reducing energy consumption and improving the quality of living spaces.



## MISSION

At **BRICKCEM CONMATE** our mission is to be the leading provider of innovative and sustainable construction materials, delivering exceptional quality and value to our customers while fostering a culture of continuous improvement, environmental responsibility and end user satisfaction.



# WHY US ?

**Environmentally Friendly:** Our construction materials prioritize Sustainability, utilizing fewer resources and cutting energy usage, aligning perfectly with eco-conscious construction methods.

**Advanced Technological Solutions:** We harness cutting-edge manufacturing techniques to deliver unparalleled quality.

**Client Satisfaction:** By putting customer requirements first, we ensure responsive service, punctual deliveries, and competitive rates to guarantee satisfaction.

**Sustainability:** Our dedicated research and development team constantly strives to improve our products, making them even more energy-efficient and durable.

**Quality Assurance:** We adhere to stringent quality control measures throughout our manufacturing process, ensuring that our materials consistently meet or exceed industry standards.



# AIWON BLOCKS



## LIGHT WEIGHT

**AAC blocks** are significantly lighter than traditional concrete blocks, facilitating easier handling, transportation, and construction, while reducing structural load demands.



## SOUND INSULATION

With superior soundproofing properties, **AAC blocks** minimize noise transmission, creating quieter and more comfortable living or working spaces, ideal for both residential and commercial buildings.



## COST EFFECTIVE

**AAC blocks** contribute to energy efficiency, reducing heating and cooling costs over the lifespan of a building, making them a financially savvy choice for sustainable construction projects.



## THERMAL CONDUCTIVITY

Typically ranges from Max. 0.24 (W/mk) for consistent indoor temperatures.



## WATER BARRIER

**AAC blocks** serve as an effective barrier against moisture, preventing issues such as dampness, mold, and deterioration, thereby enhancing the durability and longevity of structures, especially in humid climates.



## FIRE RESISTANT

**AAC blocks** possess exceptional fire resistance, providing increased safety by delaying fire spread and minimizing damage, thus ensuring the structural integrity and longevity of buildings, even in fire-prone environments. Depending on thickness, they can withstand fire for 2-6 hours.

Stay ahead of the curve with our innovative lineup of new products, designed to revolutionize your experience.

# AAC BLOCKS

As Per (IS Code 2185 : Part3)

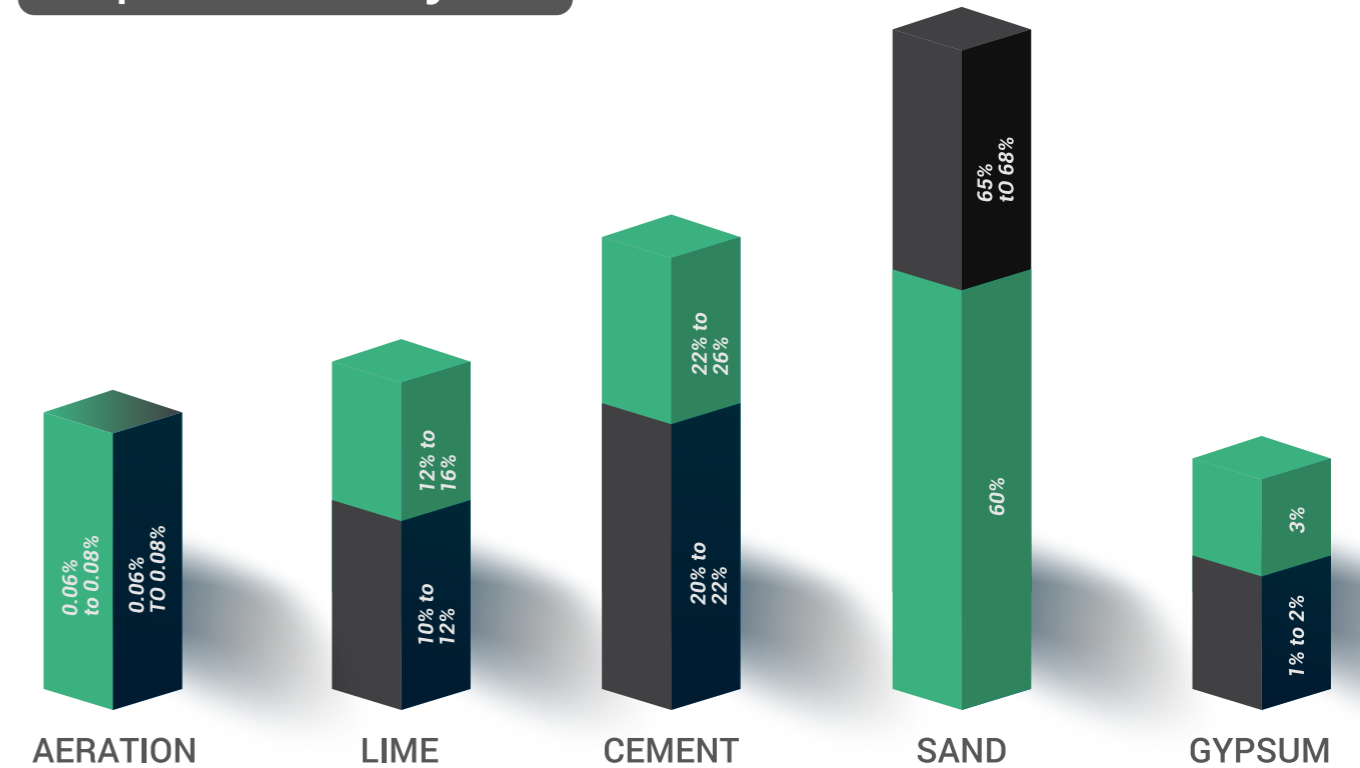
## TECHNICAL SPECIFICATIONS

- 1. AAC Blocks:** Vary in dry density from 550 kg/m<sup>3</sup> to 650 kg/m<sup>3</sup>, suited for different applications with its compressive strength of Minimum 3.5 N/mm<sup>2</sup> & above depending on block type.
- 2. Sizes:** Available in sizes 600mm x 200mm (75mm, 100mm, 150mm, 200mm, 225mm, 230mm)
- 3. Flexible & Environmentally Friendly:** It not only offers design flexibility, but is also environmentally friendly with lower embodied energy and reduced greenhouse gas emissions compared to conventional concrete blocks.
- 4. Drying Shrinkage:** The drying shrinkage shall not be more than 0.05% for Grade 1 blocks and 0.10% for Grade 2 blocks.
- 5. Tolerance:** The maximum variation in the length of the units shall not be more than +/- 5mm and the maximum variation in the height & width of the unit more than +/- 3mm



### Proportion of Sand

### Proportion of Fly Ash



# RED BRICKS V/S AAC BLOCKS

FEATURE	AAC BLOCKS	RED BRICKS
Breakage & Utilization	Negligible breakage, 100% utilization possible	Average 10-12% breakage, hence only 85-90% utilization possible
Construction Speed	Speedy process due to its light weight and dynamicity	Comparatively slow
Labour Output	Approximately twice as much as that of conventional bricks	Comparatively slow
Maintenance	Uniform and Consistent	Not uniform, normally varies
Carpet Area	More due to less thickness of walling material	Comparatively low
Storage	Readily available even at short notice	Stock faces storage issues especially during monsoons
Energy Saving	Approximately 30% reduction in air- conditioned load for heating and cooling.	No energy savings
Water Absorption	Low water absorption (10-15% by volume)	Moderate water absorption (10-20% by volume)
Design Flexibility	High design flexibility (easily cut and shaped)	Limited design flexibility



# AIWON BOND

**Block Jointing Mortar:** is a high-quality, water-resistant, cement-based mortar designed specifically for joining **AIWON BOND AAC Blocks** other similar materials. Formulated with carefully selected graded dry sand, grey cement, and imported modified polymers, it ensures stronger, smoother joints. Enhanced by Superbond Technology, this mortar offers improved workability, water retention, durability, and superior adhesion to surfaces, making it more resistant to corrosive environments compared to traditional jointing mortars.

## KEY FEATURES

- **Stronger Adhesion:** Ensures a robust bond between blocks.
- **No Water Percolation:** Prevents water from seeping through joints.
- **Consistent Quality:** Maintains uniform performance across applications.
- **No Curing Required:** Eliminates the need for post-application curing.
- **Superbond Technology:** Enhances overall performance and longevity.

## BENIFITS OF AAC BLOCKS

- **High Strength:** Superbond Technology and selected graded ingredients provide a strong bond to surfaces.
- **Faster Construction:** Eliminates curing time, speeding up the construction process compared to conventional mortar.
- **Reduces Wastage:** Offers excellent workability, reducing material wastage.
- **Economical:** Easy application saves time and costs.
- **No Water Percolation:** Thin joints and quality materials prevent water from passing through.
- **No Heat Loss:** The 3mm thin joints and special ingredients prevent heat loss through joints.
- **Superbond Technology:** Includes selected graded ingredients and imported modified polymers for superior adhesion and a smoother finish.

## APPLICATION AREAS

**Laying and Jointing of AAC Blocks:** Ideal for securely joining AAC blocks.

**Jointing of Concrete Windows and Door Frames:** Suitable for ensuring a strong bond for concrete frames.

## PACKAGING AND STORAGE

**Packaging:** Available in 40 kg bags.

**Shelf Life:** 6 months when stored properly in a cool, dry place.

**Storage Conditions:** As temperature, humidity, and other site conditions vary, the provided information should be used as a general guideline.

## SUMMARY

**AIWON BOND BLOCK** Jointing Mortar, leveraging its advanced Superbond Technology, ensures the creation of strong and thin joints. It is not only cost-effective but also enhances wall evenness by improving leveling and reducing plaster thickness. This mortar is ideal for various construction applications, offering durability and efficiency



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*Innovating Eco-Friendly  
Construction for Generations*

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