



Mepcrete
AAC BLOCKS



A UNIT OF:
THE METAL POWDER COMPANY LIMITED



MEMBER
Indian Green Building Council



IS:2185 (Part-3)



CM/L-670073516

OUR STANDARDS



PROFILE



THE METAL POWDER COMPANY LTD-AAC (UNIT)

is a subsidiary of MEPCO (METAL POWDER COMPANY LIMITED). MEPCO Commenced its operation in 1961, As one of the manufacturer's of Non-Ferrous Metal Powders and Aluminium Pastes.

In the Year 2015, Mepco expanded its operation and stepped into a new world of construction material. Our company engaged itself in the manufacturing of AAC blocks, a technology that has turned a new leaf in the construction industry.

Our company has India's biggest manufacturing plant at SIPCOT Thiruvallur district, near to Chennai, Tamilnadu with a production Capacity of 30,000 cubic meters per month. We have the largest production capacity.



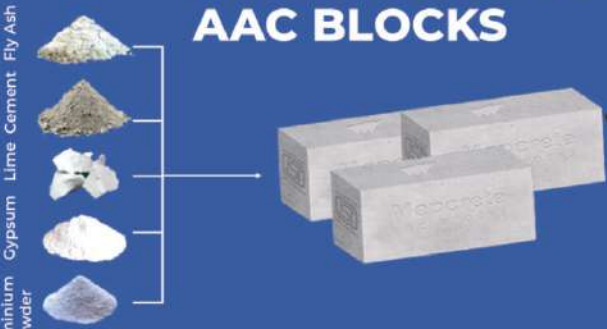
AAC BLOCKS COMPARISON

| | MEPCRETE AAC BLOCK | CONCRETE BLOCK | CLAY BRICK |
|--------------------------------|---|--------------------------|--------------------------|
| Size in mm | 600x200x100-300 | 400x200x100-200 | 230x115x75 |
| Variation in Dimensions | +/-3mm | +/-3mm | +/-5mm |
| Compressive Strength | 30-50 kg/cm ² | 40-50 kg/cm ² | 25-30 kg/cm ² |
| Dry Density | 550-700 kg/m ³ | 1800 kg/m ³ | 1950 kg/m ³ |
| Fire Resistance | 4-6 Hours <small>(depending on thickness)</small> | 4 Hours | 2 Hours |
| Sound Reflection index(db) | 60 for 200mm thick wall | 30 for 200mm thick wall | 40 for 200mm thick wall |
| Thermal Conductivity W / (k-m) | 0.122 | 0.51 | 0.81 |

AAC BLOCKS



PRODUCTION OF AAC BLOCKS



LIGHTER | BIGGER | STRONGER

COST SAVINGS & BENEFITS

- + AAC blocks are the best alternative to other building materials such as steel, cement and jelly
- + High-insulation blocks save up to 30% in energy costs
- + Reduces construction time by 20%
- + Reduces operating cost by 30-40%
- + No burning of fossil fuel (coal)
- + No emission of Carbon Di-Oxide (Co2)
- + Steam cured cement blended blocks
- + Superior thermal insulation of the blocks reduces the need to turn on the air conditioner which in turn helps in saving electricity costs
- + Reduces overall construction cost by 30% as it requires less jointing and reduces need for cement and steel
- + Helps in saving unnecessary labour costs
- + Reduces overall labour and material costs
- + The blocks maintain ecological stability
- + No top soil cutting which saves precious land



Our Products











AAC BLOCKS AVAILABLE SIZES

- + 600mmx200mmx50mm (2")
- + 600mmx200mmx75mm (3")
- + 600mmx200mmx100mm (4")
- + 600mmx200mmx125mm (5")
- + 600mmx200mmx150mm (6")
- + 600mmx200mmx175mm (7")
- + 600mmx200mmx200mm (8")
- + 600mmx200mmx225mm
- + 600mmx200mmx230mm (9")
- + 600mmx200mmx250mm (10")
- + 600mmx200mmx300mm (12")





AAC BLOCKS VS BRICKS

| | | | |
|---|--|--|---|
|  <p>Thickness 4" Weight 8.5Kg</p> |  <p>7 Bricks with 17 Kg Weight</p> |  <p>Thickness 6" Weight 12.5 Kg</p> |  <p>10 Bricks with 30 Kg Weight</p> |
|  <p>Thickness 8" Weight 17.5Kg</p> |  <p>14 Bricks with 35 Kg Weight</p> |  <p>Thickness 9" Weight 20 Kg</p> |  <p>16 Bricks with 40 Kg Weight</p> |

Technical Data Sheet

| | |
|----------------------|---|
| Dimensions | 600mm x 200mm |
| Thickness | 50mm - 300mm |
| Compressive Strength | 4 N /Sq.mm |
| Density | 550 to 650 kg/m ³ |
| Thermal Conductivity | 0.12 W/m-k |
| Sound Reduction (db) | 35 to 60 (db) |
| Fire Resistance | 1600 degree C /6 Hrs for 200 mm Thickness |
| Precision in Size | Variation 2 MM(+/-) |

Features

- + Fast returns on investment due to speedy construction
- + Uniform quality due to mass production
- + Saving in installation and recurring cost of air conditioning units
- + No curing or plastering required

MEPCOBOND

AAC ADHESIVES



- + MEPCOBOND (AAC Bond Adhesive) is available in pack size of 40 kg with shelf life of 12 months from the date of manufacture under proper storage
- + MEPCOBOND is made from polymeric additives which helps in providing mechanical bond between block to block
- + It is a ready to mix product thereby eliminating need for bulk storage of Sand and Cement
- + MEPCOBOND are able to withstand hammering and chiseling. Due to measured application and thin bed the wall construction is accurate
- + MEPCOBOND confirms with ASTM C 1660-09 and has a pot life of 90 minutes

INFRASTRUCTURE

We believe that in order of manufacture a top-class product you need top-class machinery. Thus , our infrastructural facility is equipped with some of the latest tools ,machinery and equipment. Technical Knowledge and Experience helps ours employees deliver the best Our Company has the biggest manufacturing plant at the thiruvallur district,close to Chennai. We manufacture close to 70 truckloads of AAC blocks per day

Our range of modern equipments and machinery is available at the staff's disposal. Our manufacturing facility and laboratory helps us cater to the growing demands of the construction industry. We also have special testing machinery to test the properties of each finished product. Every batch of finished product is tested before dispatch.

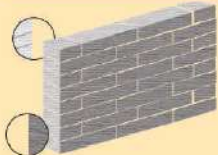
WORKING GUIDELINES

STACKING



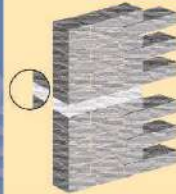
On dry and even surface to avoid damage and contact with moisture

MORTAR THICKNESS



Keep it limited to 8 - 10mm

COPING BEAM



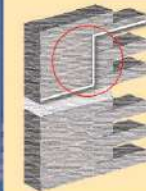
Coping beam with 2 nos 8mm reinforcement after 12 mts height

CUTTING OF BLOCK



AAC can be easily cut and shaped using standard wood working / construction tools. Window trim and decorative features can easily be created on the job site. (Use tools like hackaw or rotary cutter)

ELECTRICAL & SANITARY RECESSES



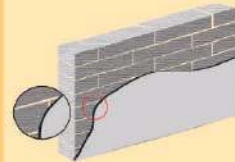
Recesses can be created before plastering of wall using electrical cutting machine / flat drill.

CURING OF MASONRY WALL



Curing required only for mortar joint.

SAVINGS IN PLASTER



Minimum External Plaster Thickness

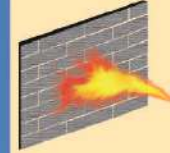
MEPCRETE BENEFITS

SAVING IN STRUCTURAL COSTS



AAC Block are 1/3rd the weight of conventional clay bricks, thereby reducing the dead weight of the structure drastically. Studies show a reduction in steel by 15% and cement by 10% if AAC Block used

FIRE RESISTANCE



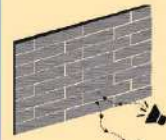
MEPCRETE Blocks are highly recommended for use in areas where fire safety is required. These blocks are fire resistance from 2-6 Hours depending on the thickness on the wall.

PEST RESISTANCE



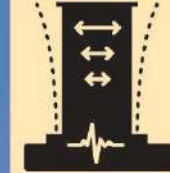
The pest resistant property (as the block are made of inorganic material) of MEPCRETE keeps termites away. Avoiding damages and losses.

SOUND INSULATION



Having a commendable STC (Sound Transmission Classes), MEPCRETE elements are appropriate material for wall construction.

EARTHQUAKE RESISTANT



The manufacturing process gives the blocks commendable strength, maintaining its light weight properly. This make the building earthquake resistant and gives it a longer life.

WATER SAVER



The pest resistant properties (as the block are made of inorganic material) of MEPCRETE keeps termites away, avoiding damages and losses.

MINIMUM STORAGE



The manufacturing of MEPCRETE blocks does not get affected by seasonal fluctuations due to which supply is available at all seasons so the MEPCRETE block buyers do not need to maintain large storage areas

REDUCTION WASTAGE



Unlike conventional clay bricks which are prone to breakages. Around 25% MEPCRETE AAC blocks have almost nil breakages.

TIME SAVING



Time consumes in building walls decreases due to large size and light weight of MEPCRETE AAC blocks.



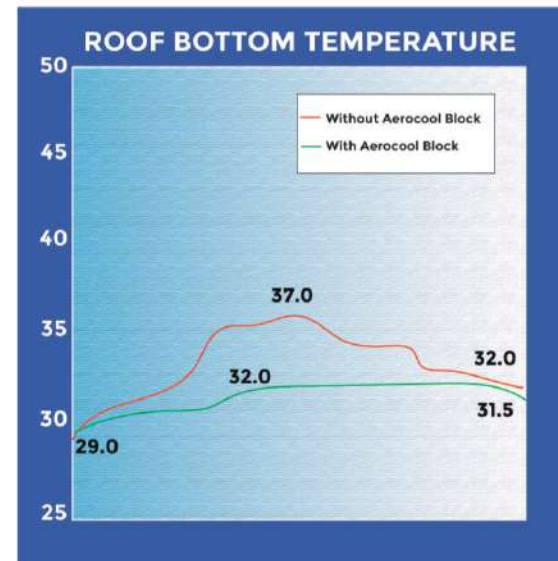
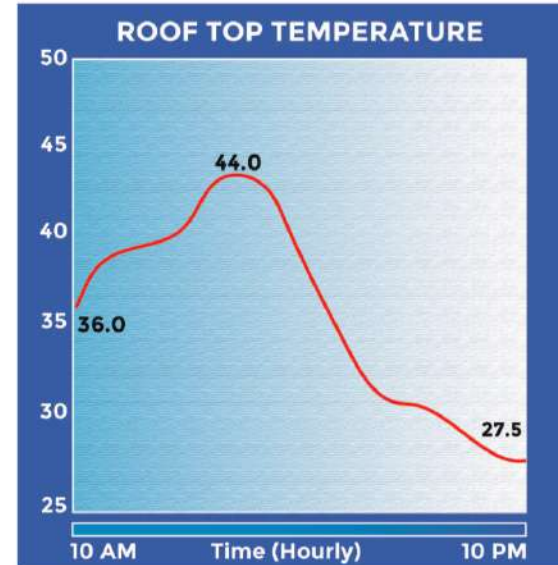
AAC WEATHER COATING ROOF BLOCKS

“AAC Roof tiles have a weather coating shield. They Stimulate the apparence of traditional clay tiles.”

We at Mepcrete manufacture AAC Roof tiles. These tiles are made from a durable water - shedding material that most often lasts the lifetime of a building. Like clay, concrete tile surfaces can be textured or smooth, and tile edges can be uniform or ragged. Architects may select tiles of all one colour, cementish grey color only, or combinations of two or more shades placed in a uniform or random pattern.

AAC roof tiles are made from a mixture of cement, sand and water. They have a long service life.

TEMPERATURE CHART



Features

- Protecting weather coating shield
- Lifetime performances
- Extremely light weight and durable.
- Disaster resistance
- Highly sustainable
- Easy to install and maintain
- Low thermal conductivity
- Light weight
- Fire resistant
- Meprete AAC Blocks holds back the heat absorbed from sun, keeping the temperature inside the room ambient High thermal inertia
- Water penetration resistant
- Light weight
- Suitable for all weather conditions
- Saving in energy costs of air conditioners and heaters.



Mepc
A A C B L
GRADE -

Mepcrete
A A C B L O C K S
GRADE - 1

LIGHTER
It is "Four" times lighter than traditional bricks.

BIGGER
It is "Eight" times bigger than traditional bricks.

STRONGER
Durable, high compressive strength & termite resistant.

**LIGHTER
BIGGER
STRONGER**



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