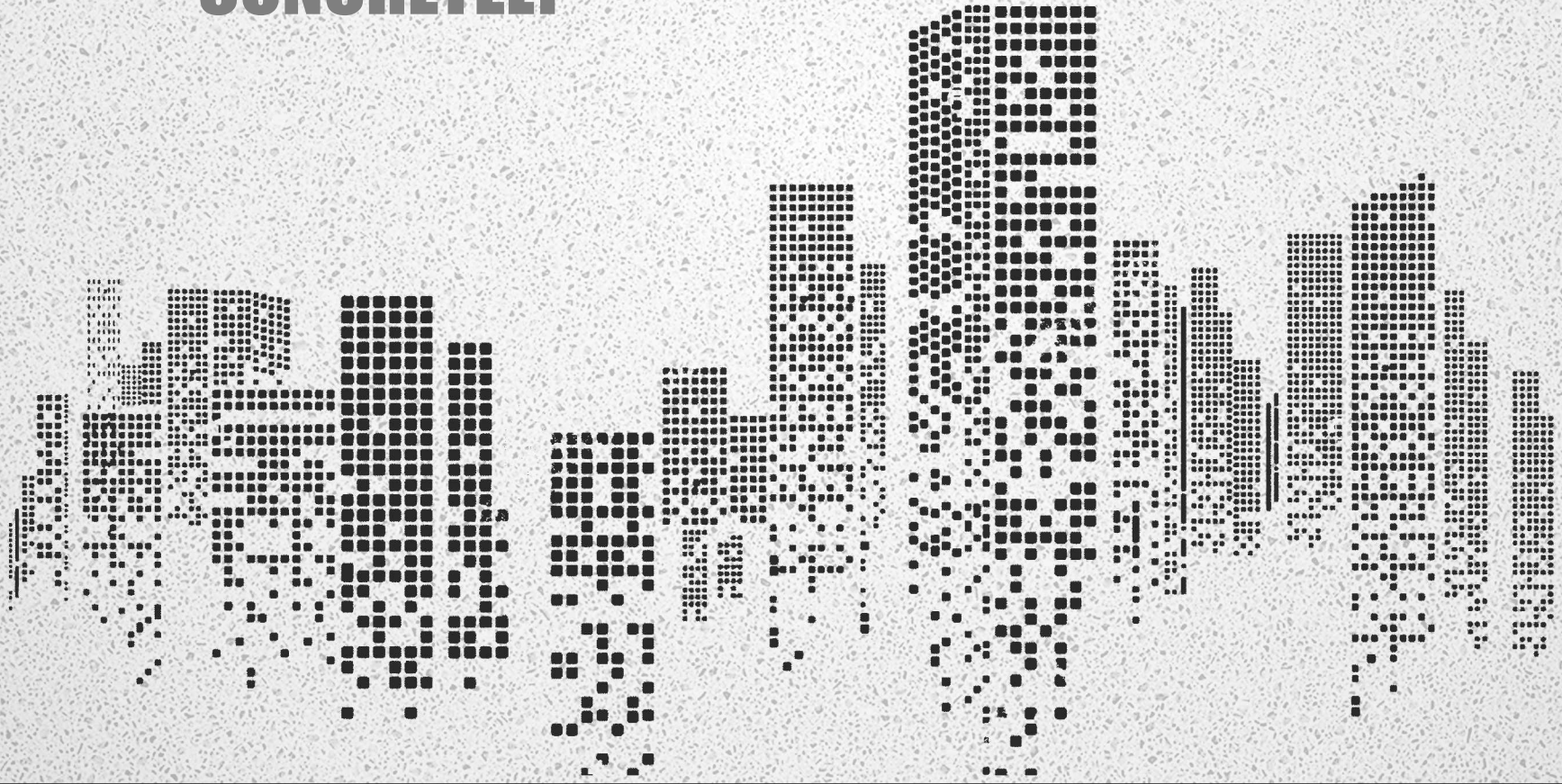




Citadel

ECO-BUILD SOLUTIONS

REENFORCING QUALITY CONCRETELY



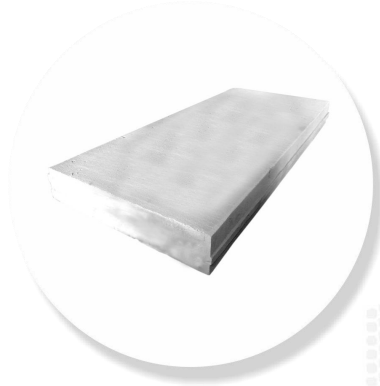
Diversified AAC Portfolio



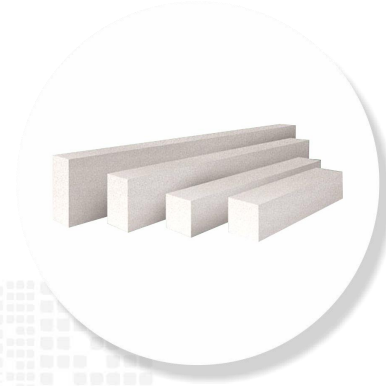
REINFORCEMENT PANELS



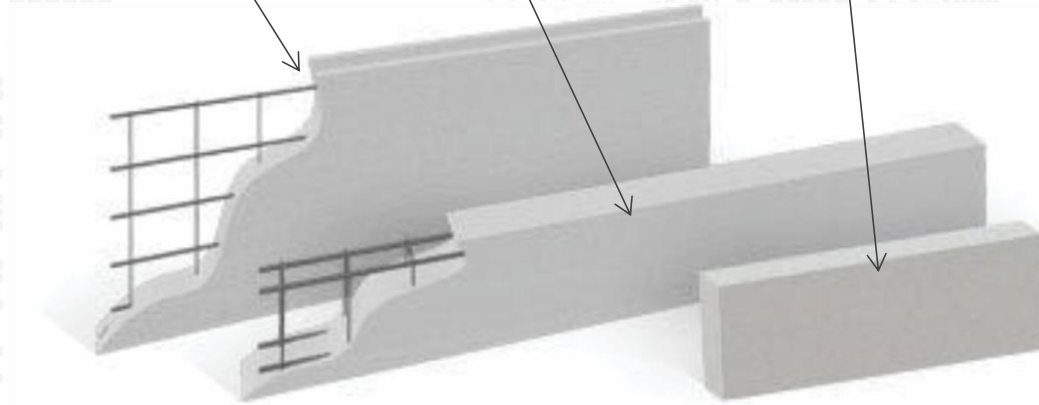
AAC Wall Panels



AAC Slab



AAC Lintel

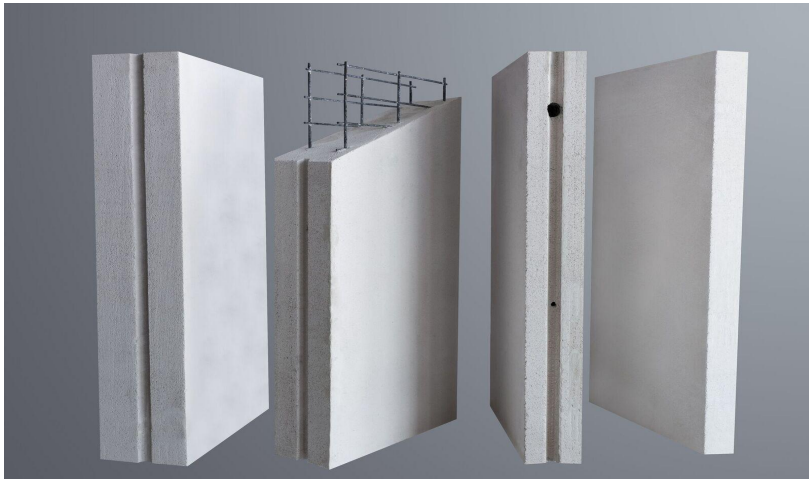
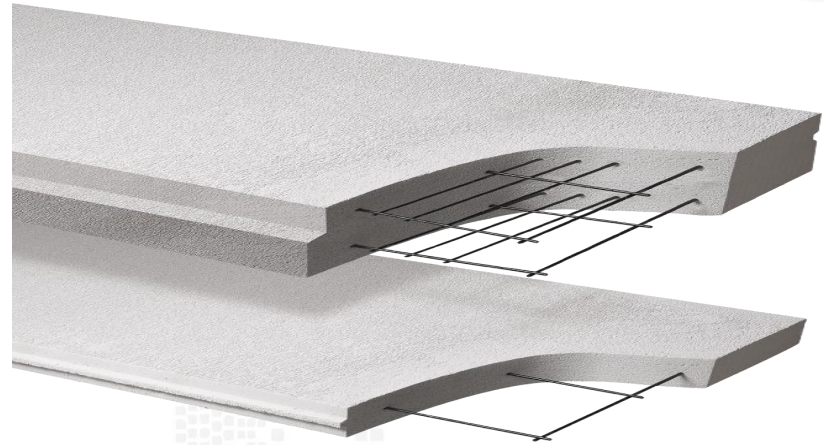


Key Features:



Reinforced AAC Structure

Makes it more strong and durable



Unique Tongue and Groove design

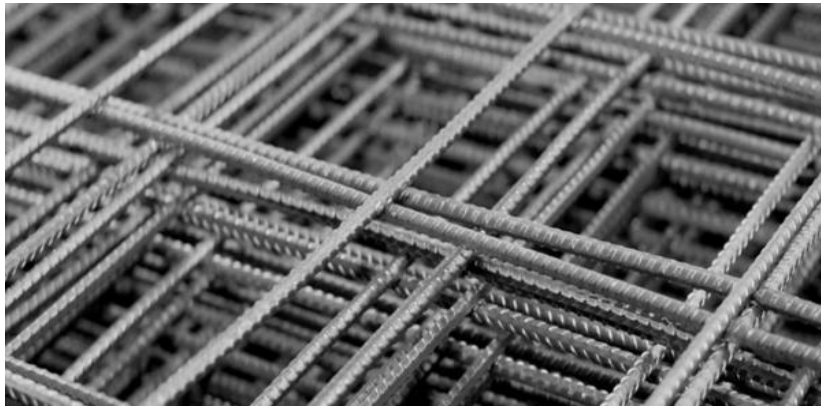
Facilitates easy fitting and efficient sealing

Key Features:



Water Repellent

As the silicon oil is added to the wet AAC mass



Patented Anticorrosion treatment of Reinforcements

2 coats of ACM(Anti-Corrosion Mix) and 1 coat of Inertol and it is evaluated by CBRI

1/4th the weight of dense concrete

Light Weight AAC Wall :



Maximum Wind Load: **100 kg/m²**
For single reinforcement & **200 kg/m²**
for double reinforcement

Size: Length = 1m to 3m, Width = 600mm
Thickness = 100, 125, 150, 200mm

PROPERTIES	VALUES
Oven Dry Density	640 kg/m ³
Shear Strength	15 - 30% of Comp. Strength
Modulus of Elasticity	2.64 kN/mm ²
Thermal Conductivity	0.11 - 0.17 W/moC



AAC Wall Panels Applications



- Floor & roof slabs for building (Extension and TDR work)
- Covering the open balconies and chajja Duct covering
- Infrastructure: Claddings , Schools , Cabins
- Residential buildings
- Mezzanine floors work at factory, commercial
- Industrial / Bungalows / Commercial
- Residential Roofs / Roof of security cabins / Toilets



Light Weight AAC Slab :



Maximum superimposed load : 500 kg/m²

Size: Length = 1m to 4m

Width = 100, 125, 150, 200, 250, 300 mm

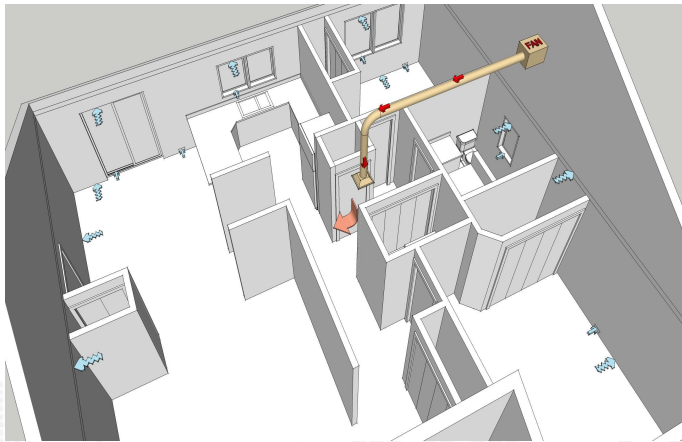
PROPERTIES	VALUES
Oven Dry Density	640 kg/m ³
Bending Compression	15 kg/cm ²
Shear Strength	15 - 30% of Comp. Strength
Modulus of Elasticity	2.64 kN/mm ²
Thermal Conductivity	0.11 - 0.17 W/moC



AAC Slab Application



- Construction of Cabins & Cubicles
- In the construction of bungalows & storages
- For the construction of Bank & ATMs as it provides added safety
- Partition Walls for Offices, Commercial Complex,
- Multiplex, Industries & Residential buildings.



Light Weight AAC Lintel :

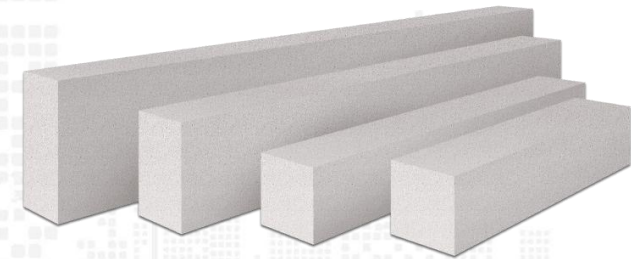


Maximum superimposed load : 100 kg/m²

Size: Length = 1m to 2.5m, width/

Thickness =125, 150 mm

PROPERTIES	VALUES
Oven Dry Density	640 kg/m ³
Bending Compression	15 kg/cm ²
Shear Strength	15 - 30% of Comp. Strength
Modulus of Elasticity	2.64 kN/mm ²
Thermal Conductivity	0.11 - 0.17 W/moC



AAC Lintel Applications



- As reinforced support above windows and doors





Time Saving

Unique Tongue and Groove mechanism which facilitates faster construction



High Strength to weight ratio

AAC has strength to weight ratio of 18 to 22 compared to M15 grade concrete having 16.



Sound Absorption

Excellent sound attenuation up to 45db with plaster



Energy Efficient

Millions of tiny air cells created during manufacturing of AAC contributes to providing excellent insulation leading to savings in energy cost



Less Water Required

Facilitates neat and clean construction. A boon in water deficient areas.



Fire Resistant

AAC sinters (starts to melt) at 1300°C making it fire resistant up to 1200°C and up to 6 hours of direct exposure



Earthquake Resistant

Due to less inertia effect, structure built is less susceptible to earthquakes



Thank You



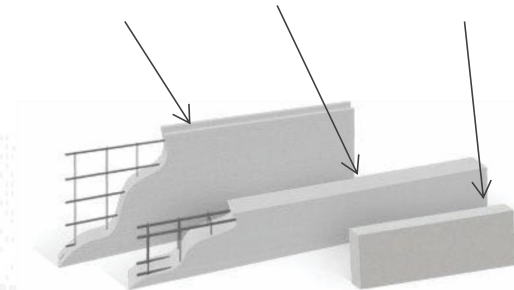
AAC Wall Panels



AAC Slab



AAC Lintel



GGBS



Dry Mortar



AAC Blocks

www.citadelecobuild.com

Mobile : 9657-9657-47 | Email : sales@citadelgr.com

Pune | Mumbai | Goa | Bengaluru | Baramati | Hingoli | Nasik | Kolhapur | Belgaon | Aurangabad | Satara