



METHRAS
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A Green Revolution For Future Buildings



**CELL O CON
REINFORCED AAC PANELS
NON REINFORCED AAC PANELS**

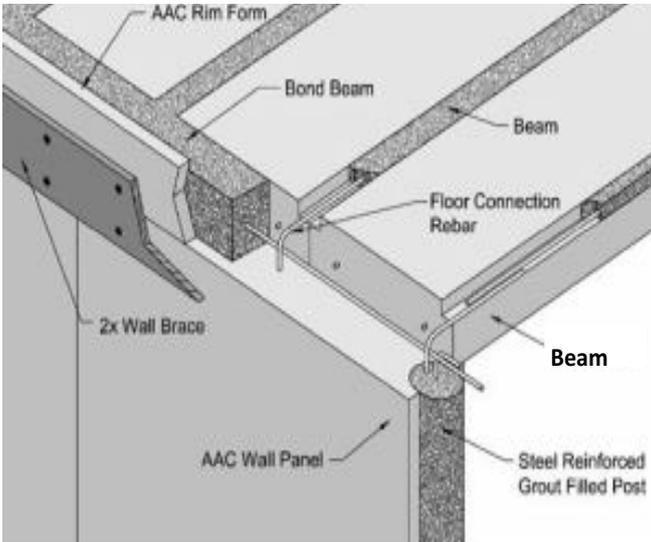
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CELL O CON AAC REINFORCED WALL PANELS AAC REINFORCED FLOOR & ROOF SLAB

CELL O CON AAC REINFORCED WALL PANELS, FLOOR & ROOF SLAB

CELL O CON AAC Reinforced Wall Panels, Floors & Roof Slabs can be manufactured like AAC Block production. CELL O CON AAC Reinforced Wall panels & Roof Slabs are manufactured by state of the art technology, Mixing the Fly ash with cement (OPC), lime, water and aerating agent with autoclaving and necessary reinforcement tensile steel bars conforming to IS:432 as per the design required.

CELL O CON AAC Reinforced Wall Panels, Floor and Roof slabs are prefabricated products, light weight, dead load less on the structure, high strength, thermal insulation, anti-seismic, sound Insulation and fire resistance. Also, it can be used in high rise structures as a shear wall instead of a concrete wall.



AAC Reinforced Roof Slab



AAC Reinforced Wall Panel

CELL O CON AAC Reinforced Wall Panels, are predetermined by a field measurement with high precision, saw-able, drill-able during dry operations. Quick and simple process of installation, time saving, reduce the construction period and improves efficiency.

CELL O CON AAC Reinforced Wall Panels, Floor and Roof slabs can be used in conjunction with masonry walls, Steel or concrete beam (inverted reinforced AAC - T Beam or steel inverted - T beams) shown in the Picture. The electrical conduits with a diameter less than 25mm can be lodged on top or bottom of the roof panels and the conduits can be lodged near the inside or outside face of the wall panels as per the requirement.

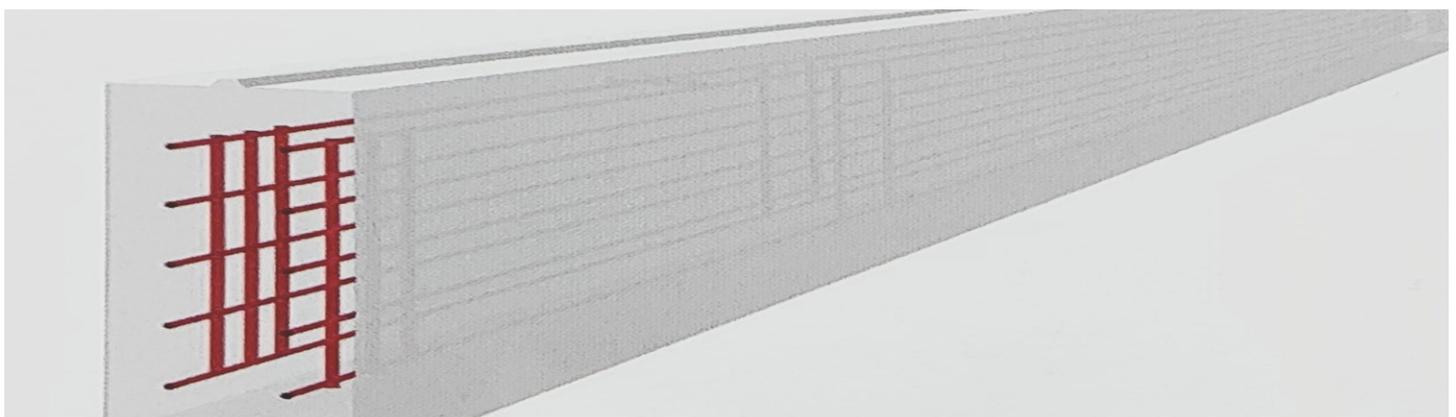
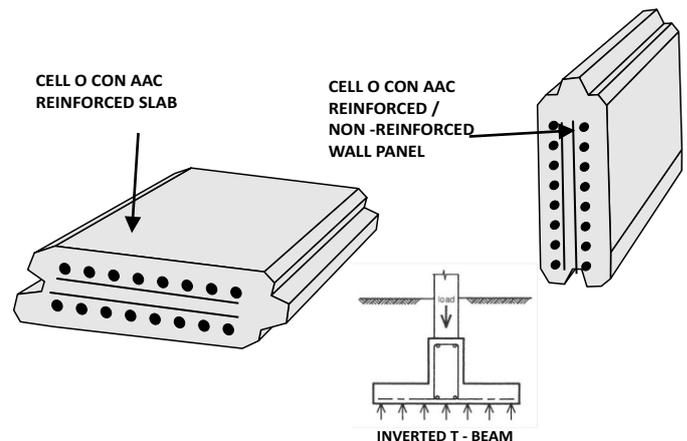
CELL O CON REINFORCED FLOOR & ROOF SLAB- SPECIFICATIONS

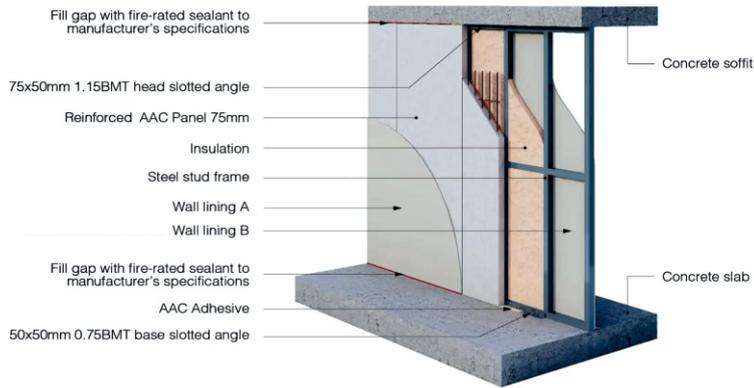
CELL O CON AAC Reinforced Wall Panels conform with the specifications of BIS 6072 - 1971 AAC Reinforced Floor and Roof Slab - 6072 – 2006.

**CELL O CON AAC REINFORCED WALL PANEL,
FLOOR & ROOF SLABS CLASSIFICATIONS**



Dry Density	Class A - Density 800 to 1000 kg/m Class B - Density 750 to 850 kg/m ³ Class C - Density 650 to 750 kg/m ³ Class D - Density 550 to 650 kg/m ³ Class E - Density 450 to 550 kg/m ³
Floor & Roof slabs	Class A - 70 Kg/cm ² Class B - 60 Kg/cm ² Class C - 50 Kg/cm ² Class D - 35 Kg/cm ² Class E - 20 Kg/cm ²
Compressive Strength	>6N/mm ²
Size: Length Width Thickness	1 to 4.0m 600mm 75,100,125,150 to 250mm width increments of 25mm
Tolerance	up to 500mm = 2mm Over 500mm = 5mm
Thermal Resistance	0.182 - 0.36W/M deg K
Sound Insulation	32 - 44 Decibels
Fire Resistance Rating	Sustainable for 1800degree Celsius up to 4 hours
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NON REINFORCED WALL PANEL

CELL O CON AAC NON REINFORCED WALL PANEL & ROOF SLAB

CELL O CON NON REINFORCED AAC WALL PANEL & ROOF SLAB



AAC Non - Reinforced Deck Slab Panel

CELL O CON AAC Non - Reinforced deck slab Panels can be manufactured like AAC blocks Production by mixing the Fly ash with cement (OPC), lime, water and aerating agent with autoclaving method. All technical data and specifications of CELL O CON AAC blocks will be applied. The maximum size for Non Reinforced panel will be 1200x600mm. Non reinforced AAC panels for the maximum length 1200mm can be used for form work to avoid the conventional method roof slab shuttering work and curing period of concrete roof slab.

CELL O CON Non reinforced panels can be placed over the (inverted reinforced AAC beam or Steel inverted T beam)at every interval of 1.2m as shown in the picture. The top of the Non- reinforced panel can be finished by screed concrete with minimum thickness.

CELL O CON AAC Non reinforced panels with jointing grooves (Tongue & groove) or without grooves can be used for wall construction with jointing mortars(CELL O CON DRY MIX MORTAR). The panels can be laid in between RCC Column and beams like AAC Blocks.

The Wall Panel size will be 1200mm x 600mm, the thickness will be chosen as per the requirements. The Plastering for Non reinforced panels will be by regular conventional cement mortar or CELL O CON Dry Mix Plaster or CELL O CON Green Gypsum Plaster on both inside and outside walls. Before plastering the walls, a galvanised mesh or fibre glass mesh 120 gsm should be provided to avoid any shear or expansion crack on the wall. The sill bond beam and lintel bond beam to be provided as per the AAC wall specification.

CELL O CON AAC NON REINFORCED PANELS - ADVANTAGES

Light weight wall panels with required thickness, easy to install, thermal resistance, sound insulation and fire resistant.

Dry Density	550 to 650 kg/m ²
Compressive Strength	4N/mm ² To 6N/mm ²

Other Technical Data for AAC Blocks specification :
Applicable for this Non Reinforced AAC wall Panel & Roof Deck Slab.

