



METHRAS  
**CELLOCON**  
A Green Revolution For Future Buildings



**CELL O CON  
AAC BLOCKS  
AUTOCLAVED AERATED CONCRETE BLOCKS**

**A TECHNOCRAT'S QUALITY PRODUCT**

**✓ GERMAN TECHNOLOGY ✓ SCADA QUALITY CONTROL**

**✓ INNOVATIVE GREEN PRODUCTS**



[www.methrascellocon.com](http://www.methrascellocon.com)



**CELL O CON AAC BLOCKS USED**

# CELL O CON AAC BLOCKS

## BIS APPROVAL - ISI 67000 75015

CELL O CON AAC (Autoclaved Aerated Concrete) block is the maiden green product of Methra Industries India Pvt Ltd., manufactured with Internationally proven, state of the art technology. All products are green construction materials manufactured in a fully automatized plant.

### CELL O CON AAC BLOCKS - SPECIFICATIONS

Length	600 mm
Height	200 mm, 250 mm, 300 mm
Thickness	50 mm to 300 mm
Dimensional Variation	±3 mm in width & Height ±5 mm in Length



### CELL O CON AAC BLOCKS - BIS approval ISI 67000 75015

CELL O CON AAC blocks manufacturing conforms with the Specifications of BIS 2185 (Part 3) 1984, AAC Block tests conform with BIS 6441 - 1972, AAC Blocks to be laid according to BIS 6041 - 1985 and BIS 1905 - 1987.

### CELL O CON - FACET

- |                       |                 |
|-----------------------|-----------------|
| Dimensional Stability | Fire Resistance |
| Sound Proof           | Pest Control    |
| Thermal Insulation    | Time Saving     |
| Earthquake Resistance | Cost Saving     |

### CELL O CON AAC BLOCKS - PROPERTIES

Dry Density (Oven dry)	550 - 650 kg/m <sup>3</sup>
Average Compressive Strength	3.5 N/mm <sup>2</sup> - 4 N/mm <sup>2</sup>
Thermal Conductivity	0.142 - 0.24 W/Mdig.K
Drying Shrinkage	0.01% - 0.05%
Sound Transmission Class	37 - 44 Db

\* Test results are subject to BIS 6441 - 1972



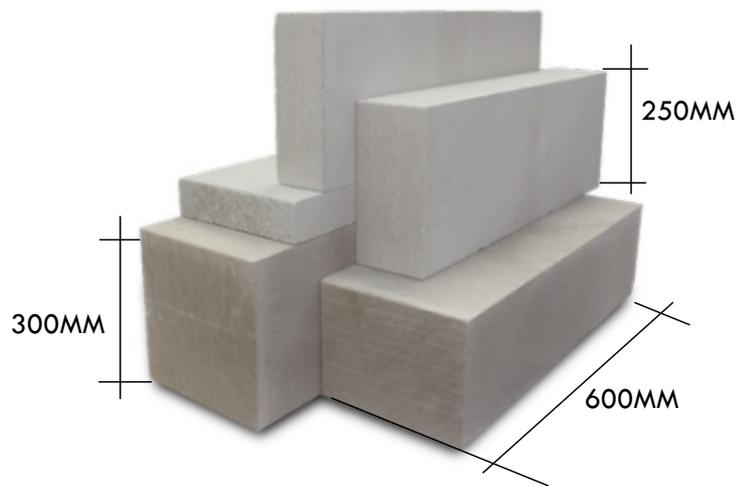


### CELL O CON - STANDARD SIZES

- 600 mm x 200mm x 50 mm
- 600mm x 200mm x 75 mm
- 600mm x 200mm x 100 mm
- 600mm x 200mm x 150 mm
- 600mm x 200mm x 200 mm
- 600mm x 200mm x 230 mm

### CELL O CON AAC BLOCKS - FACETS

Eco-friendly, light weight infill wall block.  
 Energy-efficient and fire resistant.  
 Sound reduction.  
 Low heat transfer due to thermal insulation.  
 Resistant to insects and pests.  
 Reduction in the dead load reduces load on the foundation and other structural members, resulting in economy of the structure.  
 Reduction in the self weight results in less damages during earthquakes.  
 Bigger and light weight blocks result in lesser joints, faster and economic construction.  
 Internal walls can be finished directly by thin plaster with fibre glass mesh 80 gsm or 120 gsm to avoid wall cracks.  
 Minimum external plastering with water proofing compound to avoid any dampness.  
 Conventional cement mortar (1:6 with sieved sand) of thickness 8 mm to 10 mm or dry mix mortar (Joint Mortar) thickness of 3mm to 5 mm for laying AAC Blocks.  
 The joint between, Column, Slab ( RCC member) and AAC Masonry should be plastered after fixing up the galvanized weldmesh or fibreglass mesh to avoid any shrinkage crack, shear crack and expansion crack.  
 Provide Sill Bond Beam and Lintel Bond Beam as per BIS 6041 - 1985 without fail.



### CELL O CON - SPECIAL SIZES

- 600mm x 250mm x 100mm
- 600mm x 250mm x 150mm
- 600mm x 250mm x 200mm
- 600mm x 250mm x 230mm

And

- 600mm x 300mm x 100mm
- 600mm x 300mm x 150mm
- 600mm x 300mm x 200mm
- 600mm x 300mm x 230mm



Cutting with a saw



Cutting with a machine 1



Cutting with a machine 2

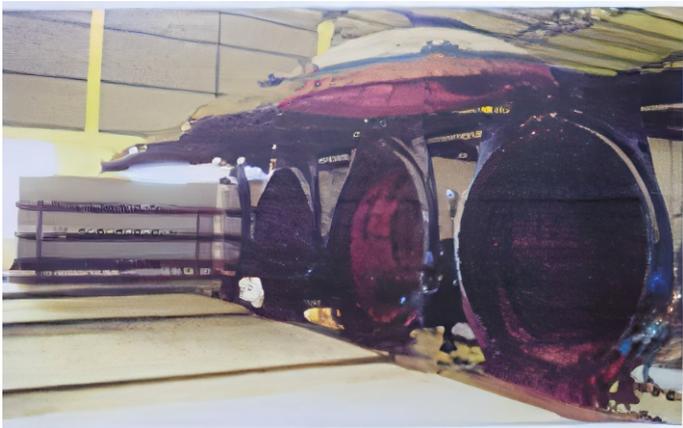


Laying tools and accessories

## COMPRESSIVE STRENGTH TEST

The test specimen should be a cube of size 150 mm x 150mm x 150 mm (cut from centre core of a block), and tested with a machine of least count 1kN. Load has to be applied perpendicular to the aeration (Please check with the manufacturer for ascertaining the correct side). The cube has to be oven dried at 105°+ 5°C to get the constant density of the specimen and oven dried at 50°C before testing. Testing must be carried out at room temperature. This test conforms with BIS 6441 (Part 5) - 1972.

NOTE : If BIS standards for testings are not followed, it will not give the standard results as per BIS.



**AUTO CLAVING**

### CELL O CON - Slab sizes:

1200mm x 300mm x 100mm

1200mm x 300mm x 125mm

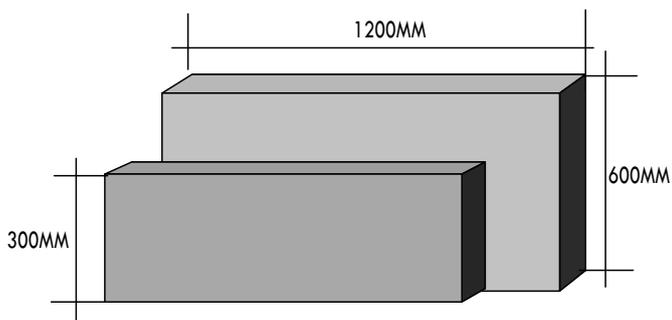
1200mm x 300mm x 150mm

And

1200mm x 600mm X 100mm

1200mm x 600mm X 125mm

1200mm x 600mm x 150mm



**GREEN CAKE TILTING**

## WATER ABSORPTION TEST

There is no specific test mentioned in BIS 2185-3 or BS 6073-1 for water absorption of AAC blocks. These blocks, being lighter, float on water and hence any test involving submersion is not possible. The test for water absorption by capillarity measures the rate at which moisture is taken up by the blocks in exposed fair-faced walling. BS EN 771-4 requires the water absorption by capillarity to be measured over a period of 10 minutes in accordance with BS EN 772 - 11, if rendering is not done. However, we recommend rendering for fair faced walls.



**FG CONVEYOR**



**YARD**