

Technical Information

RENACON AUTOCLAVED AERATED CONCRETE (AAC) BLOCKS

A green building initiative from Renaatus Procon Private Limited

- Overview** Renacon Autoclaved Aerated Concrete (AAC) blocks is extremely versatile for a non-load bearing construction applications including external walls, internal walls, fireplaces, garden beds, fences, etc. It has been manufactured from recycled material which offer lightweight, superior acoustic and thermal insulation benefits. It is a perfect alternate to traditional bricks and concrete blocks which are made available in various dimensions and can be laid in the traditional way.
- Key Features**
- ◆ Eco Friendly
 - ◆ Certified Green Building material
 - ◆ Economic
 - ◆ Fire resistant
 - ◆ Energy efficient
 - ◆ Acoustic Insulation
 - ◆ Seismic resistance
 - ◆ Rapid and Robust construction
 - ◆ Dimensionally accurate
 - ◆ Reduces Structural cost and so on...
- Standards & Certifications**
- ◆ Renacon AAC Blocks Confirming to IS 2185 Part 3: 1984 (Reaffirmed 2005), an Indian Standard Specification for Concrete masonry units: Part 3- Autoclaved Cellular (Aerated) Concrete Blocks
 - ◆ Renacon AAC Blocks has been certified by BIS for its quality
 - ◆ Renacon AAC Blocks has been certified and listed as “Green Product” by GRIHA Council and Green Pro Organisation
 - ◆ Renacon AAC blocks also meets the Standard Requirements of ASTM C1693-11 and BS EN 771-4: 2003
 - ◆ Renacon AAC blocks are certified as “Green Product” by various professional organisation like “GRIHA”, “Green Pro”, etc.
 - ◆ Accredited by BIS for meeting the required quality parameters as per IS 2185 Part 3.
- Areas of Application**
- ◆ Internal & External walls, Partition walls, Fire rated applications, Insulated buildings, rapid construction needs, Fences, Residential, Commercial, Industrial and Institutional buildings
 - ◆ Ideal replacement for conventional bricks and blocks
 - ◆ Follow IS 6041 (1985): Code of practice for construction of autoclaved cellular concrete block masonry
- Note:** Contact Our Technical Services for recommendations.
- Installation**
- ◆ Install the AAC blocks by following a standard and established technique
 - ◆ Go through the Standard instructions manual to ensure proper handling and installation of Autoclaved Aerated Concrete (AAC) blocks
 - ◆ Damage may occur if AAC is moved or handled several times

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Technical Data (Typical values)		
General Parameters		
Dimensions	Multi dimensions (Refer the Installation manual or Contact our Technical services for requirements and guidelines)	
Density	551 to 650 kg/m ³	
Classification	Grade 1 and 2 (The autoclaved Cellular Concrete blocks shall be available in two Grades)	
General	The units shall be free from cracks or other defects	
Shape	Shall be supplied in rectangular blocks	
Length (in mm)	600 ± 2	
Height (in mm)	200 ± 2	
Width (in mm)	Available in various sizes (Eg.: 200 ± 2)	
Faces and Arises	The Masonry units ♦ Shall be flat and rectangular opposite faces ♦ Shall be parallel ♦ All arises shall be square ♦ Bedding Surfaces shall be at right angles to faces of blocks	
Surface Texture and Finish	The Masonry Units ♦ Can be ranging from a very fine close texture to Coarse open texture ♦ Shall have a sufficient rough surface to afford good key to plaster	
Performance		
Parameters	Requirement	Typical Values
Compressive strength (in N/mm ²)	> 4.0 for Grade 1 and > 3.0 for Grade 2 (for Density in oven dry condition: 551 to 650 kg/m ³)	> 4.2 for Grade 1 and > 3.5 for Grade 2 (for Density in oven dry condition: 551 to 650 kg/m ³)
Thermal Conductivity (W/mK)	Max 0.24	0.21
Drying Shrinkage (%)	> 0.05 for Grade 1 and > 0.10 for Grade 2	0.04
Classification as per Compressive Strength (ASTM C1691)	348 psi for AC2; 580 psi for AC4	> 590 psi
Green Building points	Shall meet the requirements	Yes
Termites and Pest Resistance	NA	High
Water Consumption during construction	NA	Negligible

*NA: Not applicable

Size / Dimensions	Renacon AAC Blocks are available in multi dimensions Colour: Off White Contact our Technical Services for specific and customised size needs.
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Warning!	Product for Professional Use Handle with Care; Use PPEs Like safety helmet, Safety Boots, Wear gloves and other protective clothing while handling AAC blocks Wear Suitable protective clothing, gloves while handling For Clarifications and Usage related queries, Contact our Technical Services
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Additional Information

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Renacon



The data presented in this medium are in accordance with the present state of our knowledge but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. All the above information must in every case be taken as merely indicative and subject to confirmation after long time application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product.

The applicable version of the Technical Data Sheet for this product can be downloaded from our websites. Previous versions of the Technical Data Sheets are rendered void with the issue of a new one. Date of issue: 16.06.2022/O