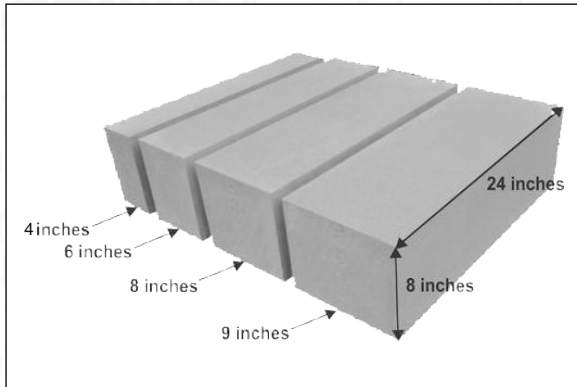


V- LITE BLOCKS

Autoclaved Aerated Concrete (AAC)



V LITE BLOCKS is a Superior **Light Weight Concrete Blocks** used in masonry which is **eco friendly** in nature and a **Green Construction Material** accepted globally, having **light weight, high insulation, fire resistant** properties and many other benefits. It is used in both **Interior and Exterior** of building for **load bearing and non load bearing** walls which can be grooved, nailed, or cut as per desired shape and sizes etc. to provide **easy and quick installation** with standard power tools. It is composed of Calcined Gypsum, lime, cement, water and Powder having many tiny air pores upto 80% which

makes it **light, durable** and **cost effective**. It is strengthened by **high pressure steam** by curing them in **autoclaves** and gives **higher compressive strength**. It is not only fast in installation but also **saves money** as it **reduces the dead load** resulting into less reinforcement used in superstructure compared to conventional brick system.



Block Sizes	Weight of Block (approx)	Blocks in 1 CBM.
600x200x200mm	16 to 17Kgs.	42 Nos.
600x200x150mm	12 to 13 Kgs	55 Nos.
600x200x125mm	10 to 11 Kgs.	69 Nos.
600x200x100mm	8 to 9 Kgs.	83 Nos.
600x200x75mm	6 to 7 kgs.	107 Nos.



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for more detailed information about product kindly visit www.nrvinfra.com

V- LITE BLOCKS

Autoclaved Aerated Concrete (AAC)



Advantages



Light Weight



Eco Friendly



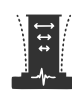
Fast & Time Saving



Acoustic Performance.



Pest Resistant



Earthquake Resistant



Fire Resistant



Thermal Insulation



Energy Saving



Cost Effective



Easy Handling



Minimum Breakage



No Curing Required

Technical Details	Value
State	Solid
Colour	Grey
Sizes	600 x 200 x (100-300) mm
Size Tolerance	+ / - 3mm
Compressive Strength	> 3 N/mm ²
Dry Density	550 - 650 kg/m ³ (Depending on grade of AAC block)
Fire Resistance	4 to 6 Hours depends upon thickness of wall
Sound Reduction	upto 45 db
Dry Shrinkage	0.04% of the size of the block
Thermal Conductivity w/(km)	0.25 w/mk
IS CODE	2185 Part-3

Thickness of Joints:

2-3 mm thin bed while using Jointing Mortar, against 10-12 mm thick mortar in conventional mortar.



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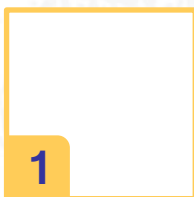
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V- LITE BLOCKS

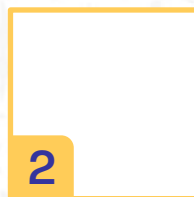
Autoclaved Aerated Concrete (AAC)



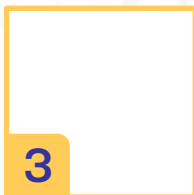
Application Procedure Of AAC Blocks



Preparation of the Substrate: The substrate should be cleaned, leveled and compacted to ensure a stable base for the blocks.



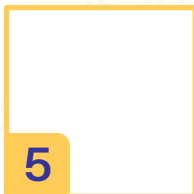
Installation of Lateral Support: Lateral support should be installed around the perimeter of the wall to provide stability and support for the AAC blocks.



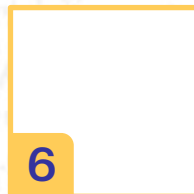
Mixing of Mortar: A suitable mortar mix should be prepared for the jointing of the AAC blocks.



Laying of AAC Blocks: Blocks should be laid on the substrate and jointed with the mortar from corners & working towards centre of the wall. The blocks should be laid vertically, level and plumb, with consistent joint widths and depths.



Cutting of AAC Blocks: If necessary, AAC blocks can be cut to fit specific dimensions using a masonry saw or other appropriate cutting tools.



Application of Finishing Coat: Once the AAC blocks have been installed, a finishing coat of paint or plaster can be applied to provide an attractive and durable surface finish.

Types of V Lite Blocks

Density of block in oven dry condition (Kg/CBM.)	Comp. Strength (N/mm ²) for Grade I	Comp. Strength (N/mm ²) for Grade II	Area of Application
451 to 550	2	1.5	Non - load bearing Walls, Partitions, Insulation, Landscaping.
551 to 650	4	3	Load-bearing walls, partitions and Foundations.
651 to 750	5	4	Load-bearing walls, partitions and Foundations.

Area of Applications



- Block Jointing Mortar is recommended for fixing of AAC Block
- Residential • Commercial and Industrial Buildings • Warehouses • Hospitals • Hotels
- Amusement Parks • Auditorium • Theaters • Firewalls • Shaftwalls • Power Plant • etc.



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DO'S

- Stack on proper surface
- Proper site preparation
- Proper storage
- Use the right tools
- Proper installation
- Use adequate support
- Seal the blocks
- Use the appropriate grade
- Hire skilled labour



DONT'S

- Expose to Moisture
- Use of Wrong Tools
- Usage of Wrong Mortar
- Overloading the Blocks
- Skimp on Support
- Neglecting Proper Alignment
- Use of Damaged Blocks
- Ignore Safety Standards

Other Points:

- Hacking should be properly done / bondcoat to be applied on RCC before laying the blocks.
- Stiffner / Bond Beam with reinforcement should be provided at every 1.2 mtr for stability, stiffness and strength of walls.
- For Long wall Vertical mullion to be provided at every 3meter.
- Mesh to be provided for RCC and Block work junction and at Conduit Grooves
- First level of Block should be laid with a conventional mortar of 15-50mm thick and shall be dried for 24 hours.
- Top most gap of approx 15 - 20mm between wall and beam should be filled with lean concrete, backer rod etc.
- Minimum thickness for load bearing wall shall be 150 or 200mm thick.
- Proper wetting of blocks should be done before use.
- Do not use AAC Block in foundation, water tank, etc.
- These steps may vary depending on the specific application and the local building codes, but following a general procedure like this can help ensure a successful installation of AAC blocks.
- It is always advisable to consult with a qualified engineer while determining the need for and designing of AAC block wall to ensure and meet local building codes & regulations and to ensure safety and stability of building.

Safety Measures :

USE:



Disclaimer: The use of this product is beyond the manufacturer's control and liability is restricted to the replacement of material proven faulty. The manufacturer is not responsible for any loss or damage arising from incorrect usage. Specifications are subject to change without notice.



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