



**EVERY AAC BLOCK  
MADE  
FOR STRENGTH...  
AND...**



**autoclaved aerated concrete  
blocks manufacturer's**

## COMPANY PROFILE

**neolite buildcon pvt. ltd.** is promoted by a firm which is leading Gurukrupa Developers and Varad Developers.

Gurukrupa Developers, Class I Government contractors has an extensive experience of more than 50 yrs in construction line. During this tenure we have achieved many milestones. Sugar Factory buildings, Godowns, Irrigation water supply schemes, Bank / Commercial buildings, Industrial buildings and development of Residential Flats, Commercial complex, construction & development of Roads, Bridges are those which itself supersedes our work quality. And for this achievements we have been acclaimed by prestigious awards.



This constant work has instigated us to form a new firm 'Varad Developers' It is a twist of modernisation. Fully committed to commercial and residential construction purpose Varad has an innovative vision.

After the years of success in construction line we have started new project of AAC blocks in the name of **neolite buildcon pvt. ltd.** at **Five Star MIDC Kagal.**

neolite buildcon pvt. ltd. our vision is to become largest suppliers of AAC Blocks to help our nation to conserve the nature.

**Plant capacity 500 M<sup>3</sup> per day. In house laboratory for testing raw materials & finished products.**





I make money  
by saving money

I used AAC Blocks  
I built secure  
Buildings.

I always think about  
environment,  
That's why I used it.

**SAVING  
OF**



**ECOLOGICAL**  
**ECONOMICAL**

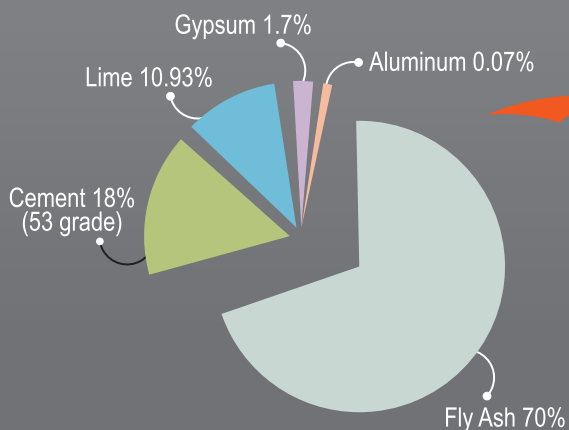
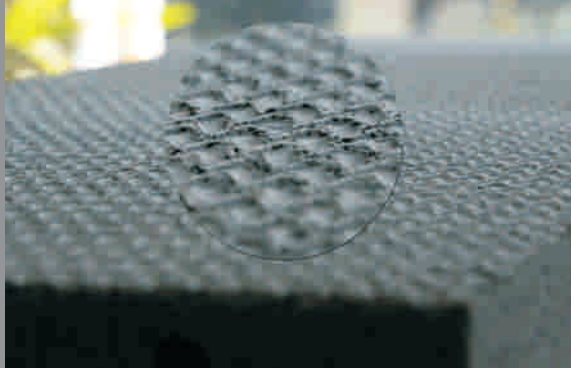
My company is different,  
our vision is global...  
so we used  
Different Blocks.

I am using  
these Blocks because  
I am Techno - savy  
and I care the Earth.

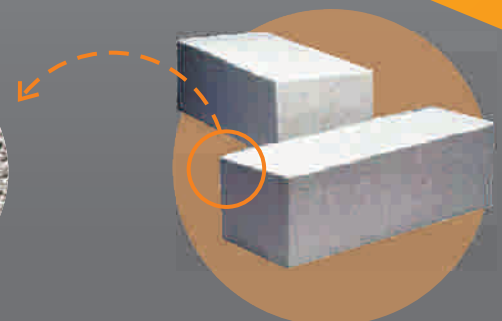
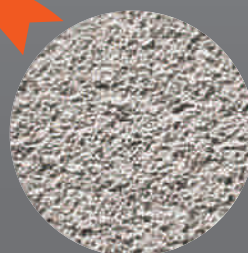
## ABOUT AAC BLOCK

AAC (Autoclaved Aerated Concrete) was invented in the mid -1920 by the Swedish architect and inventor Jahan Axel Eriksson. AAC is one of the major achievements of the 20<sup>th</sup> Century in the field of construction. It is a lightweight, precast building material that simultaneously provides structure, insulation, and fire and sound resistance. AAC Blocks is a unique and excellent type of building material due to its superb heat, fire and sound resistance. AAC blocks are light weight and offers ultimate workability, flexibility and durability.

Aluminium powder along with fly ash, cement, lime and gypsum is mixed in high speed and Automatic batch mixer resulting in AAC slurry, which is poured into mould. Reaction of aluminium with lime, water, silica releases hydrogen gas (H<sub>2</sub>) when escapes from slurry, it rises to give porous structured to calcium silica Hydrate (C-S-H, concrete). This risen cake is cut into blocks of require sizes by wire cutting machine, which are again steam cured under high temperature 210° C and pressure 12 kg. in autoclave for 10 to 12 hours. AAC is a long proven material. AAC blocks are used in a wide range of commercial, industrial and residential application and has been in use in Europe over 90 years, the Middle East for the past 40 Years and in America and Australia for 25 years. It's an estimate that AAC now account for over 40% of all construction in UK and more than 60% of construction in Germany. In India production of AAC blocks started in 1972.



80% Air &  
20% Solid Matter



Size (mm)			Volume ( Cu. M.)	Pieces (Cu. M)
L	H	T		
625	240	100	0.015	66.67
625	240	125	0.01875	53.33
625	240	150	0.0225	44.44
625	240	200	0.03	33.33
625	240	230	0.0345	28.99
600	200	100	0.012	83.33
600	200	125	0.015	66.67
600	200	150	0.018	55.56
600	200	200	0.024	41.67
600	200	230	0.0276	36.23

Technical Specification		
Particulars	Units	Values
Size	mm	600 X 200 / 625 X 240
Thickness	mm	50,75,100,125,150,200,230
Size Tolerance	mm	± 2
Compressive Strength (IS:2185 part III)	N/mm <sup>2</sup>	3 - 4.5
Oven dry density (IS:2185 part III)	Kg/m <sup>3</sup>	550 - 650
Fire Resistance	Hrs.	4 (For 200mm thick Wall)
Thermal Conductivity Index	KW/m/c	0.16
Sound Reduction Index	dB	45 (For 200mm thick Wall)
Dry Shrinkage (IS:2185 part III)	%	0.04

## neolite AAC Blocks V/S Clay Bricks



Particulars	neolite AAC Block	Clay Brick
Size (LxHxB)	625mm X 240mm X 50mm-300mm	225mm X 75mm X 100/150mm
Precision in size, Shape	Uniform & Regular Variation ± 2mm	Non Uniform & Regular Variation ± 2 to 10mm
Compressive Strength	3 - 4.5 N/mm <sup>2</sup> (As per IS:2185 part III)	2.0 - 3.0 N/mm <sup>2</sup>
Dry Density	550-650 kg/m <sup>3</sup> (Oven dry)	1800 Kg/m <sup>3</sup>
Fire Resistance	4 hours (For 200mm thik Wall)	2 Hours
Sound Absorption	42 (dB) for 200 mm thick wall	50 for 230mm thick Wall
Thermal Conductivity. (Kw-M/C)	0.16	0.81
Cement Consumption for Morter 1:6	Use Jointing Chemical ( <b>neo bond</b> )	1.35 bag of Cement
Contribution to carpet area	1.5 to 3 %	Not Contribution
Electricity Bill Saving	Up to 30% of Air conditioning Electricity Bill Saving	No Energy Saving
Cost benefit Factor	Saving Sand, Steel, Cement, Labour, Time, Water for Curing	No Cost Benefit
Internal Plaster	Not necessary only 10-12mm POP	Surface & Size not even 15-20mm Plaster & then POP is apply
External Plaster	12 to 15mm Plaster because of surface & size is even	20 - 25mm Plaster Required
Breakage / Wastage	2 To 3%	8 To 10%
No's of blocks for per Cubic meter	44.44 Nos (625 X 240 X 150)	289 Nos (230 X 100 X150)
Curing for Wall	No need (If Jointing Chemical is Used)	At least 15 day's Curing Required
Availability	Pre- cured by steam curing and ready for delivery through out year	It's Seasonal Not Available through out year



## HOW neolite AAC BLOCKS SAVE THE COST OF CONSTRUCTION



### SAVE STEEL & CONCRETE :-

**neolite** AAC blocks save steel, concrete, sand, internal plaster, curing and reduce the thickness of external plaster. It is 3 times lighter than clay bricks, hence it saves steel and concrete in high rise building. It does not allow water to pass into the wall, so internal sand cement plaster is not necessary, only POP plaster is enough.



### SAVE SAND AND WATER :-

**neolite** AAC blocks require only 3mm joint for using readymade joint adhesive. So it saves costly sand. **neolite** blocks already have high pressure steam curing. So there is no need of curing. Thus it saves water and curing labour cost etc.



### INCREASE IN CARPET AREA :-

Wall made by **neolite** AAC blocks has accurate size and shape, less number of joints and thickness. Hence it saves 15 to 20 mm space of plaster throughout length of every wall of room. So increase in carpet area by 1.5 to 3%. It also has more compressive strength than clay bricks and does not absorb the water so no need to plaster the wall from inside by sand and cement.



### TIME SAVING :-

**neolite** AAC blocks are light weight (3 times) and 5 to 6 times bigger in size than clay bricks. So it reduces the number of joints and its thickness and ultimately saves time as compare to clay bricks.



## SAVE ENVIRONMENT USING neolite AAC BLOCKS



### SAVE AGRICULTURAL LAND :-

**neolite** AAC block use 70% of fly ash, wastage generates from thermal power plant. It does not require clay so no damage of agricultural land.

### SAVE AIR PURITY :-

Fly ash wastage is from thermal power plant mixes with environment and increase pollution. Because of its use in AAC blocks it helps to reduce the pollution.

### SAVE FUEL ON TRANSPORTATION :-

**neolite** AAC blocks are 3 times lighter than clay bricks, so more number of blocks are transported in same vehicle, which saves fuel for transportation compared to clay bricks.

### GREEN BUILDING CERTIFICATES :-

Green building certifying organizations like LEED, IGBC, BREEAM, DGNB, CASBEE certify AAC blocks as a green building material.

## ADVANTAGES OF neolite AAC BLOCKS



### NO DAMPNESS :-

Clay bricks absorb the water but **neolite** blocks have 80% air and 20% solid material. No capillary action. Blocks do not absorb water, hence no dampness to the wall.



### TERMITE PROOF:-

**neolite** AAC blocks are anti-termite and pest resistance because of the material used.



### SOUND INSULATION :-

**neolite** AAC blocks fall in STC-44 (Sound transmission class) which makes it a good sound barrier.



### PROTECT FROM EARTHQUAKE :-

Safety of building in earthquake increases, as **neolite** AAC blocks are 3 times lighter than the clay bricks. Light weight building is always safer than heavy building during earthquake.



### THERMAL INSULATION :-

**neolite** AAC blocks have good thermal insulation property of Rating 30. So these blocks are not affected by outer climate (hot/cold) on walls. This saves electricity cost of A.C.



### FIRE RESISTANT :-

**neolite** AAC blocks fall into fire rating of 4 hours which makes it good fire resistance wall material.



**neolite Way of Profit making...  
Technology for Saving...**

**My Decision  
My Pocket... My Profit !**



**neolite**  
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