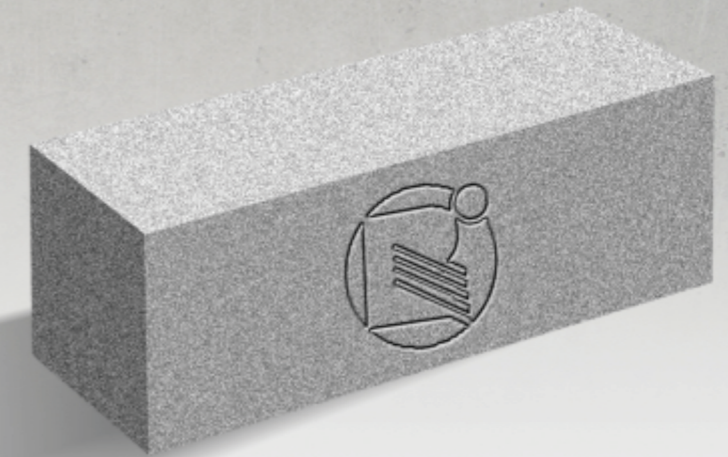




## Benefits

- Made from recycled industrial waste AAC is Eco-friendly & Sustainable and does not emanate gases.
- It is 3-4 times lighter than traditional bricks, hence; is easier and cheaper to transport and reduces overall dead load of a building, thereby allowing construction of any buildings.
- Tiny air pores and thermal mass of blocks provide excellent thermal insulation, thus reducing heating and air conditioning costs of a building
- AAC is Non-combustible and fire resistant up to 1600° C
- Superior sound absorption qualities due to porous structure of blocks. Ideal for schools, hospitals, hotels, offices, multi-family housing and other such structures.
- Blocks can be easily cut, drilled, nailed, milled and grooved to fit individual requirements.
- Simplifies hydro-sanitary and electrical installations, such as pipes or ducts, which can be installed after the main construction is complete.
- Results in smooth walls with perfect contact between different elements and reduces cement and steel usage.
- AAC is Termite/Pest Resistant and has low maintenance cost.
- Easy to install. Sets and hardens quickly.

## High-strength, lightweight concrete blocks



### RoboTek Build Con Pvt. Ltd

Plot No. 19, 1st Floor, Sri Krishna Devaraya Nagar,  
Yellareddy Guda, Hyderabad -500 073.

T. 040 - 23733279.









E. vk@robotek.in

www.robotek.in

**ROBOTEK**  
BUILDCON PVT LTD  
**ULTRA LITE AAC Blocks**



## Features

- 
**Environment protection**  
 Reduces at least 30% of environmental waste, decreases over 50% of greenhouse radiation and over 60% integrated energy on the surface of brick.
- 
**Energy saving**  
 The remarkably good insulation properties of Autoclaved Aerated Concrete (AAC) create a pleasant interior environment.
- 
**Ventilation**  
 Autoclaved Aerated Concrete (AAC) is very airy thus allowing more diffusion of water, reducing humidity of the building.
- 
**Non toxic**  
 Autoclaved Aerated Concrete products do not contain any toxic gas substances, and does not allow parasites and worms to grow.
- 
**Lightweight**  
 Autoclaved Aerated Concrete blocks are one-fifth of the weight of concrete and are produced in easily handled sizes.
- 
**Accuracy**  
 The accurate manufacturing process ensures that the AAC panels and blocks are always produced to size. This results in less on-site trimming and reduced quantities of mortar and finishing materials use.
- 
**Long life**  
 Autoclaved Aerated Concrete products are not affected by harsh climatic conditions and will not degrade under normal atmospheric conditions.
- 
**Earthquake Resistant**  
 The impact of earthquake forces on a structure is proportional to the weight of the structure. AAC makes it light and provides excellent resistance to earthquake forces.

## The Way Ahead

**RoboTek** was set up with the aim to create an eco-friendly building material that could aid in creating greener structures. **RoboTek** is Promoted by Founder Directors of **Robo Silicon Pvt. Ltd.** widely known as **RoboSand**, a well-known substitute for river sand across pan India.

Over time **RoboSand™** has emerged as the preferred material for construction and has earned the respect and patronage of leading industries, including real estate and construction giants in the country.

## The need to go Eco friendly

Autoclaved Aerated Concrete Blocks are built from readily available raw materials. After mixing and molding, it is then autoclaved under heat and pressure to create its unique properties.

The demand and need for eco-friendly products is what led to the concept of manufactured sand and Autoclaved Aerated Concrete Blocks.

### Technical Information

01	Size	600mm x 200 mm x 75-300 mm
02	Precision in size	Variation $\pm 1$ mm
03	Compressive strength	4.0 - 5.0 N/mm <sup>2</sup>
04	Dry density	650 -700 kg/m <sup>3</sup> (oven dry)
05	Fire Resistance	2-6 hrs depending on thickness
06	Sound reduction index (dB)	45 dB for 200 mm thick wall
07	Thermal Conductivity	0.16 (k) w/m deg.C
08	Colour availability	Greyish White

