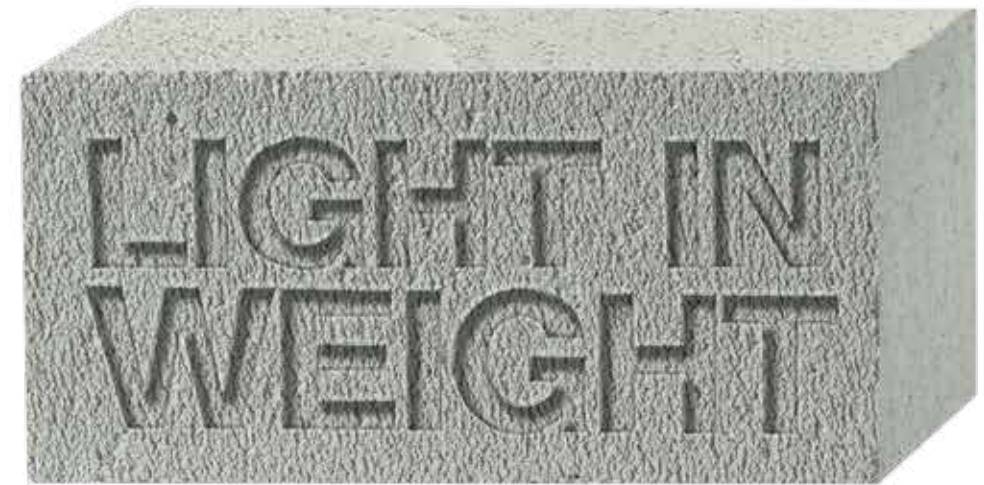


Properties	Specification
Appearance	Free Flowing Powder
Colour	Grey
Water Demand	14-15%
Aggregate	Natural Graded Sand
Additives	Water soluble additives for better efficiency
Workability	Very Good
Minimum Compressive Strength (In MPA)	Min 10 MPA in 28 Days (IS 1661 Requirement for conventional mortar is 8 MPA)
Pot life approximately	2 hrs. at 27°C
Coverage	14-16 sq. ft.



**STRONG IN VALUE**

As homes are changing, so are the ways of building them. Introducing TUFFBLOCKS AAC by Godrej Construction - high strength, light weight aerated autoclaved concrete blocks - the next generation building material.

TUFFBLOCKS AAC is a superior alternative to red clay bricks manufactured using fly ash mixed with cement, lime, water and an aeration agent placed in an autoclave chamber to give the product its high strength and unique properties. The resultant building material, comprising millions of tiny air pores, is set and cut into blocks of varying sizes. Relatively low consumption of readily available raw materials, use of fly ash, excellent durability, energy efficiency, cost effectiveness and ability to be recycled enables TUFFBLOCKS AAC to significantly contribute to a greener environment and qualify as a "green" building material.



#### Light in weight and on the pocket too

TUFFBLOCKS AAC is one fifth the weight of concrete and is produced in easily handled sizes. It reduces dead weight of a structure, and consequently consumption and investment in steel and concrete.

#### Better than conventional bricks

Made of fly ash mixed with readily available raw materials like cement, lime, water and an aerating agent which are autoclaved to give a superior alternative to red clay bricks and a highly durable & energy efficient building material.

#### Incredibly versatile

Across residential, commercial and industrial buildings TUFFBLOCKS AAC can be easily cut, drilled, nailed, grooved, milled crafted and shaped with common hand tools and is readily adaptable to any style of architecture. It is available in many sizes and thicknesses - ranging from 75 mm to 300 mm.

#### Durable and tough

TUFFBLOCKS AAC withstands harsh climatic conditions and remains unaffected under normal atmospheric conditions for years.

#### Time & Cost Saving

Being 8 times the size of a clay brick, TUFFBLOCKS AAC wall construction involves 1/3 the joints, thus an overall mortar saving of up to 66%. Reduction in steel is up to 27% and cement up to 20%.



#### Acoustic Insulation

TUFFBLOCKS AAC's high surface mass coupled with the mechanical vibration energy damping within its porous structure produces a construction material with exceptional sound insulation properties.



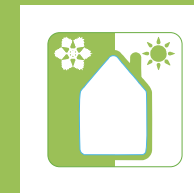
#### Fire Resistant

TUFFBLOCKS AAC is an inorganic and incombustible building material with a melting point of over 1600°C.



#### Thermal Insulation

Due to TUFFBLOCKS AAC's unique chemical structure, it provides superior thermal insulation than conventional masonry.



#### Pest Resistant

It is impossible for insects and rodents to inhabit in TUFFBLOCKS AAC due to its impermeable nature.



#### Energy Efficient

The thermal insulation characteristics of TUFFBLOCKS AAC contribute to a pleasant interior environment leading to greater energy savings in air conditioning.



#### Green Alternative:

As compared to conventional bricks TUFFBLOCKS AAC decreases over 50% greenhouse radiation & integrated energy and utilizes at least 70% environmental waste.

**TUFF  
BLOCKS** | Autoclaved  
Aerated  
Concrete

No matter what your requirement is, you will find a TUFFBLOCKS AAC that suits you.

Parameter	Value	Unit
Size	600 X 200/625 X 200 625 X 240	mm
Thickness	50, 75, 100, 125, 150, 200, 225, 230, 300	mm
Compressive Strength	>3	N/mm <sup>2</sup>
Oven Dry Density	550-650	Kg/m <sup>3</sup>
Thermal Conductivity	0.1588	W/mk

\* Specification as per IS standards (IS 2185 part III)

TUFF Easyfix block binding mortar is a thin-joint, high strength adhesive for quick and firm construction of AAC blocks. It is manufactured through a PLC Controlled computerised process from cement and graded natural sand blended with polymer to impart high strength and water retention properties. Controlled manufacturing processes ensures consistent quality output as per specifications across batches. TUFF Easyfix is delivered to the construction site in bags. Only water needs to be added in adequate quantity prior to use.

#### Advantages of TUFF Easyfix:



Faster application- TUFF Easyfix allows for continuous laying and takes less time for setting than conventional mortar.



Economical- Reduced construction timelines by using TUFF Easyfix leads to reduction in direct cost of labour and overhead costs.



No Shrinkage cracks.



Consistent Quality- Computerized manufacturing process in controlled environmental conditions ensures there is minimum human intervention to provide consistent output quality across batches.



Improved build accuracy of finished walls.



100% natural sand for best coverage results.



TUFF Easyfix provides for better adhesion, stability and durability.



**TUFF**  
EASYFIX | Block Binding Mortar



**Block  
Binding  
Mortar**

TUFF Duroplast is a convenient easy-to-use plaster which is not only stronger than traditional plastering but also looks nice & binds better.

It is manufactured using high quality well graded sand, special binders, cement and polymers in a controlled environment to give you highly durable and impermeable water tight plastering solution. It can be used effectively on brick, block, stone masonry works, concrete surfaces in both inner and outer walls.

Parameter	Specification
Appearance	Free Flowing Powder
Colour	Grey
Water Demand	25-30% (1:3)
Workability	Very Good
Hard Dry	24 Hrs
Pot Life	Approximately 2 Hrs at 27° C
Curing Required	No

**Advantages of TUFF Duroplast:**



Smooth finish



Frequent watering (curing) not required



Time Saving and less rebound reducing material wastage



Uses 100% natural sand free from silt



Easy to use



Impermeable



Reduces chances of developing cracks on the surface

