





HEAT OUTSIDE COOL INSIDE



AAC Block (Autoclaved aerated concrete) is an environmentally friendly lightweight precast building material.

AAC Blocks has high thermal insulation and durability, its factory finish ensures accurate dimensions and quality finish, hence it is preferred in all types of buildings like residential homes, commercial developments, schools, hospitals, hotels etc.





Buildings made with **Shree Heat Shield** are cooler in summer as the heat insulating properties of AAC Blocks prevent the outside hot air from heating up the building.

Substantial (upto 30% reduction) in air conditioning costs.







MORE SAVINGS! GUARANTEED SAVINGS IN FOUNDATION LOAD, STRUCTURAL STEEL CONSUMPTION AND MORTAR COSTS.









VERSATILE

Can be cut to any size and shape Small grooves and chases for services can be cut Can be drilled to provide electrical sockets Nails can be put with hammer



WHY SHREE CEMENT AAC BLOCKS



India's Most Advanced AAC Block Plant (German Plant - Wehrhahn)

Highest Strength

Reliable Delivery of Material

Seamless Order Booking and Delivery Process (Automatic Intimation Facility for Order Despatches)

Consistent and Transparent Quality Practices (Customers can get Quality Tested at Plant)

India's 3rd Largest Cement Producer 46 MTPA Capacity

Rs. 1 Trillion Market Capitalisation

Highest Selling Cement Brand in North India

North India's Largest Capacity Single Location Plant



COST SAVING COMPARED TO RED BRICKS

AAC WITH BRICKS FOR A WALL OF 10' LONG & 10' HEIGHT

PARAMETERS	AAC BLOCKS	RED BRICKS					
Structural saving due to dead load reduction	65% reduction in weight of walls Tremendous structural saving for highrise in Earthquake/Poor Soil	No Additional Saving					
COSTING							
Total cost in construction of 10'X10' wall (Inclusive of raw material & plastering cost)	Rs. 4,400/- Rs. 6,500/-						
Total Saving in 10'X10' wall	Rs. 2,100/-	NIL					
No. of Blocks/Bricks per cubic metre	80 Blocks/Cum (625X200x100mm)	525 Bricks/Cum (225X75X100mm)					
Total cost of Blocks/Bricks in construction of 10'X10' wall	74 Blocks of (625X200X100mm)	525 Bricks (225X75X100mm)					
Price per blocks in 10'X10' construction	Rs. 40/- per block	-					
Cost of block converted in to size of bricks vs per brick cost	Rs. 5.3 per brick	Rs. 6.5 per brick					
Mortar cost per 100sft.	Rs. 600/-	Rs. 950/-					
Plaster	Only one side mandatory (other side direct gypsum plaster)	Both sides are Mandatory					

TECHNICAL DATA

PARAMETER	AS SPECIFIED BY BIS (IS:2185 Part 3:1984)	SHREE HEAT SHIELD TEST RESULTS	
Density (Oven Dry)	551 - 650 Kg/M ³	580-610	
Compressive Strength	4 N/mm ² (Minimum)	Avg. 4.5 N/mm ²	
Thermal Conductivity Range (k Value)	0.24 W/m-k (Maximum)	0.21 - 0.24 W/m-k	
Drying Shrinkage	0.05% (Maximum)	0.01%	
Fire Resistance	-	2 - 6 Hours	
Sound Absorption	-	40-45 decibels for 200 mm thick wall	
Modulas of Elasticity	-	2040 N/mm2	

NUMBER OF BLOCKS IN 1 CUBIC METRE

LXHXB (mm)	USAGE	NO. OF BLOCK IN 1 M3	
625x200x100	Internal Usage	80	
625x200x150	Internal Usage	53	
625x200x200	External Usage	40	
625x200x225	External Usage	35	







INTERNATIONAL RESEARCH ON AAC BLOCKS

- 1. International Journal for Scientific Research & Development, Vol. 7, Issue 02, 2019:
 - Lawrence Ropelwski et al: AAC is unique among construction materials in combining excellent thermal resistance and thermal inertia.
 - Ali J. Hamed: Aerated Autoclaved Concrete has many advantages when compared with conventional concrete, such as advanced strength to weight ratio, lower co-efficient of thermal expansion and good sound insulation.

2. International Journal of Engineering Research & Technology (IJERT), vol. 3 Issue 11, November, 2014:

• In almost all the parameters, the AAC Blocks have a superior edge over burnt clay bricks. Use of AAC blocks leads to savings in overall project cost; enables to speed up the construction process.

3. International Journal of Research in Engineering, Science and Management Volume-1, Issue-9, September -2018:

- AAC Blocks do not allow spread of termites and growth of pests.
- AAC Blocks are completely inorganic and hence do not generate any toxic fumes or poisonous gases harmful to the occupants.
- AAC Blocks reduces operating cost by 30% to 40%, reduces overall construction cost, as it requires less jointing and reduces need for cement and steel. High insulation blocks save upto 30% in energy costs, wall painting and plastering last longer as almost nil efflorescence affects AAC. This translates into lower maintenance costs.

AWARDS AND ACCOLADES



Five Star rating for limestone mines at Beawar and Ras (Rajasthan).



Environment Excellence award 2016 by Mission Energy Foundation for excellence in implementation of new environmental normsexisting TPP category.



Green-Co best practices award.



CSR Excellence Awards 2017



Golden Peacock HR Excellence Award



National Award for Excellence in Cost Management



Sustainability disclosure leadership award 2016, by the world CSR Congress.



National Award for Supply Chain and Logistics Excellence



Best Employers Award



UNIT VII Limca Record



Green World Ambassador Award 2016 by the Green Organisation, London.



Global Sustainability Award 2015



Asia's best CSR Practices award, 2015



ABP Global CSR Leadership Award, best environment friendly project category, Sustainability disclosure leadership award, 2016, by the world CSR Congress

PRESTIGIOUS PROJECTS/CLIENTS

Tata Eureka Park, Noida	Godrej Go Noida	f Links,	Mahagun, Noida	ATS, Noida			
Wave, NoidaPWD School, DelhiAhluwalia Contracts Pvt. Ltd.							
Shapoor Ji Pallon ji and Company Pvt. Ltd.							
BG Shirke Construction Technology Pvt. Ltd., Delhi							
B S Construction Company Haryana Haryana							
Godrej Group UP and Haryana	Parsvnat Delhi	h Group,	Dasna Noida	Dasnac Group, Noida			
Hydro Electric Project,Tulsiyani Group,DehradunGurgaon		, Puri Cons Haryana	Puri Construction, Haryana				
Royal Golf Link City Projects AIPL, Gurgaon							
VRC Construction India Pvt. Ltd.							





AAC BLOCKS BY SHREE CEMENT

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