

NIRMAL
Building Material Manufacturer
— SINCE - 1989 —

ONECRETE

AAC BLOCKS



ONE CRETE FEATURES



ENVIRONMENTAL FRIENDLY

AAC is recyclable, inert, and nontoxic. It is not a source of chemical off-gassing and thus creates a suitable environment.



COOL IN SUMMER WARM IN WINTER

Upto 30% reduction in air conditioning costs. 100% green building material preferred in LEED certified buildings



LIGHT WEIGHT

ONE CRETE - AAC blocks have a density 1/3rd of bricks of 1/4th the density of R.C.C



HIGH STRENGTH

Exceeds the Indian building code requirements



NO EFFLORESCENCE

Low cost of maintenance



SAVINGS

AAC block is 1/3rd the weight of bricks yet equivalent in strength to red bricks



PRECISE FINISH AND ACCURACY

Only final coat of putty/pop required



SUPERIOR NOISE REDUCTION

Sound proof Interiors



DIMENSIONS

Sizes L x H x W	Volume CBM	No of Blocks (Per CBM)	Face Area (Per Block in Sq.Ft)
600 x 200 x100	0.012	83.33	1.32
600 x 200 x 150	0.018	55.56	1.32
600 x 200 x 200	0.024	41.67	1.32
600 x 200 x 225	0.027	36.23	1.32

COSTING

Parameter	AAC Block	Clay Brick
Total cost in construction of 10'X10' wall (Inclusive of raw material & plastering cost)	Rs. 6,600/-	Rs. 12,000/-
Total Saving in 10'X10' wall	Rs. 5,400/-	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. 55/- per block	-
Cost of block converted in to size of bricks vs per brick cost	Rs. 7.5 per brick	Rs. 11 per brick
Mortar cost per 100sq.ft.	Rs. 900/-	Rs. 1750/-
Plaster	Only one side mandatory (other side direct gypsum plaster)	Both sides are Mandatory

AREA OF APPLICATION



Residential
Buildings



Commercial
Buildings



Industrial
Buildings



Institutional
Buildings



Add on Floors
& Extension

COMPARISON

Parameter	AAC Block	Clay Brick
Structural Cost	Steel saving upto 15%	No saving
Cement Mortar for Plaster & Masonry	Required Less due to flat, even surface and less number of joints	Requires more due to Irregular surface and more number of joints
Breakage	Less than 2%	Average 10 to 12%
Construction Speed	Speedy construction due to its big size light weight and easy to cut in any size or shape	Comparatively slow
Quality	Uniform & Consistent	Normally varies
Fitting & Chasing	All kind of fitting and chasing possible	All kind of fitting and chasing possible
Carpet Area	More due to less thickness of walling material	Comparatively Less
Energy Saving	Approx. 30% reduction in air-conditioned Load	No such saving
Chemical Composition	Flyash used around: 65 to 68% which reacts with lime and cement to form AAC	Soil used contains many inorganic Impurities like sulphate etc. resulting in efflorescence

ONECRETE

NIRMAL BRICKS AND BLOCKS,

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