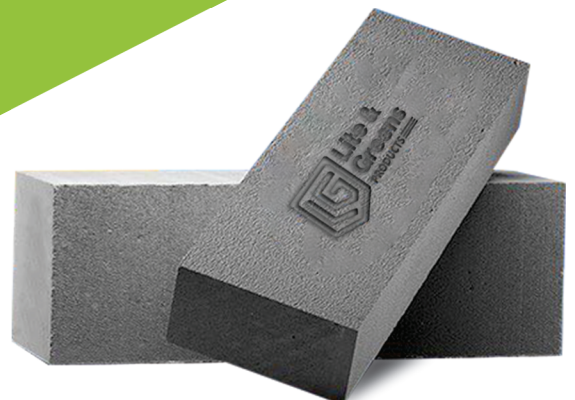




**Lite &
Greens**
PRODUCTS



**Step to
GREENER
WORLD**



WHO WE ARE

Welcome to Lite & Greens Products Pvt Ltd, where innovation meets construction excellence! We specialize in the manufacturing and distribution of high-quality Autoclaved Aerated Concrete (AAC) blocks. With a commitment to sustainable building solutions and cutting-edge technology, we don't just manufacture AAC blocks; we craft solutions where every block tells a story of Quality, Durability and Precision.



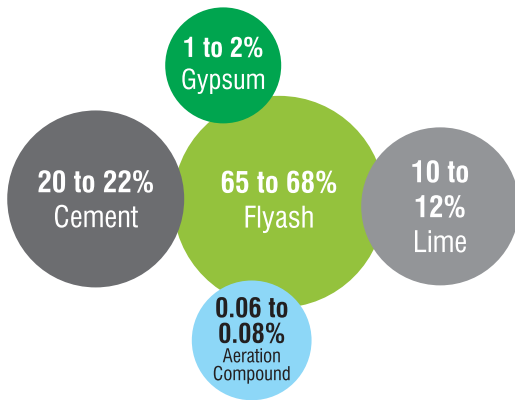
WHAT SETS US APART

Your success is our success. Lite & Greens Products Pvt Ltd believes in building lasting relationships through a customer-centric approach. From personalized service to on-time deliveries, ensuring that your construction endeavours align with the highest safety and quality standards. This dedication to excellence is our assurance to you, our valued partners.

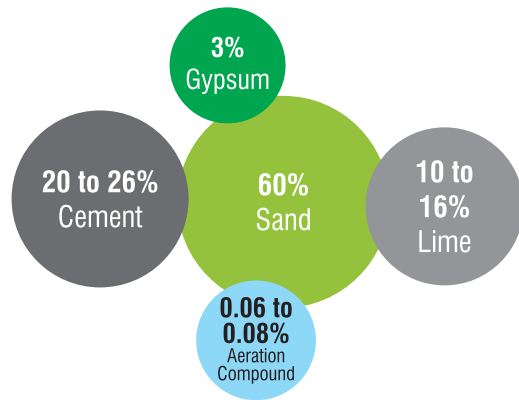
Join hands with Lite & Greens Products Pvt Ltd for a construction experience that combines the strength of AAC blocks with the reliability of a trusted partner.



AAC FLY ASH BLOCKS



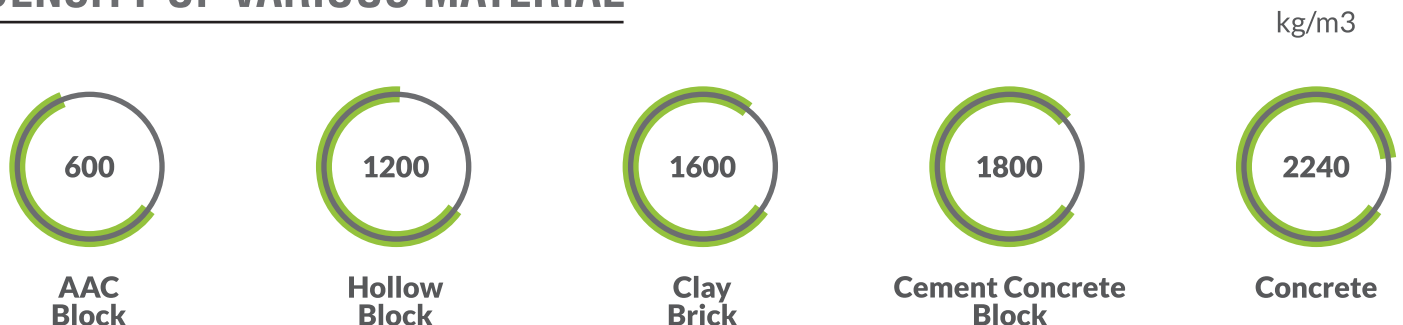
AAC SAND BLOCKS



AAC BLOCKS ADVANTAGES



DENSITY OF VARIOUS MATERIAL



TECHNICAL SPECIFICATION

*As per IS 2185 Part 3

PROPERTY	UNITS	AAC BLOCK	CLAY BRICK
Size	mm	600 X 200 X (75 to 300)	230 X 75 X 110
Size Tolerance	mm	+/- 5mm in length +/- 3mm in width & height	+/- 05 to 15
Compressive Strength	N/mm ²	Min 4.0	2.5 to 3.5
Normal Dry (Oven Dry) Density	Kg/m ³	551 to 650*	1800
Thermal Conductivity "K"	W/m-k	Max 0.24*	0.81
Drying Shrinkage	%	Max 0.05%*	-
Fire Resistance	Hrs.	2 to 6 (Depending on thickness)	2
Sound Reduction	Db	45 for 200 mm thick wall	-

COMPARISON BETWEEN AAC BLOCK AND CLAY BRICK

PARAMETER	AAC BLOCK	CLAY BRICK
Structural cost	Steel having upto 15%	No Saving
Cement Mortar for Plaster & Masonry	Required Less due to flat, even surface and less number of joints	Required 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 and Consistent	Normally varies
Fitting and 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	Not 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

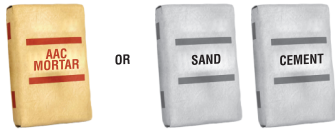
CALCULATION SHEET

AAC BLOCK SIZE (in mm)	No of Pcs (per m ³)	Work in Sq. ft. ** (per m ³)	TRUCK SIZE			
			10 Ton	16 Ton	20 Ton	25 Ton
Volume (M ³)			15.00	24.00	27.00	33.75
PCS						
600 x 200 x 100	83.33	109.76	1250	2000	2250	2813
600 x 200 x 125	66.67	87.81	1000	1600	1800	2250
600 x 200 x 150	55.56	73.17	833	1333	1500	1875
600 x 200 x 200	41.67	54.88	625	1000	1125	1406
600 x 200 x 230	36.23	47.72	543	870	978	1223

GUIDELINE

(Refer IS 6041-1985 code of practice for Construction of Autoclaved Cellular Concrete Block Masonry)

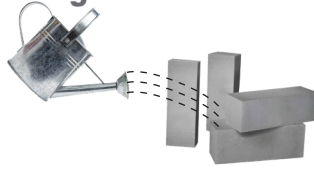
MORTAR FOR MASONRY



The AAC blockwork shall be carried out using a thin bed jointing mortar containing polymers. This premixed mortar helps in proper adhesion and forms a strong bond between the layers of the blocks.

(Refer IS 6041-1985 para 3, 3.9.2)

Wetting of Blocks



This block need to be wetted before or during laying in the walls; in case the climatic condition so required, the top and the sides of the blocks may be slightly moistened.

(Refer IS 6041-1985 para 6, 6.1)

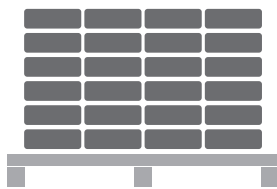
Coping Beam



Horizontal coping at 0.9 to 1.2 mtr height & Vertical coping in centre if wall length is more than 3 mtr, with 2nos 8mm reinforcement, M20 concrete.

(Refer IS 6041-1985 Para 4, 4.6.5.1 & 2)

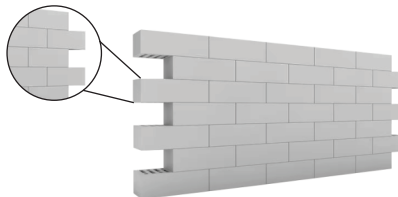
Storage



The blocks shall be stored in such a way as to avoid any contact with moisture on the site.

(Refer IS 6041-1985 para 5, 5.1)

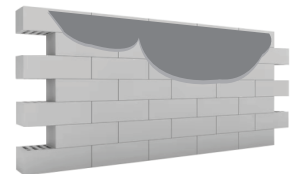
Mortar thickness



3 to 4 mm in ready mix mortar.

(Refer IS 6041-1985 Para 7, 7.1)

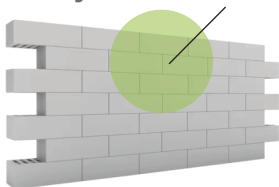
Plaster



Plaster thickness required Internal: 10 to 12mm, External: 15 to 17mm.

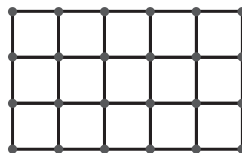
(Refer IS 6041-1985 Para 12)

Electric and sanitary chases



Chase to be grooved before plaster of wall and use electric wall chasing machine for zero vibration & good quality work, Do not chase on joints.

Beam & Column



Use wire mesh/fiber mesh for RCC-Masonry joints & coping

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BLOCK JOINTING MORTAR

Lite & Greens Jointing Mortar is a superior water resistant cement based mortar joint especially formulated for joining Lite & Greens AAC Blocks etc. It contains selected graded dry sand, grey cement and imported & modified polymers that make the joints stronger and smoother. Its Latest Technology further improves workability, water retention, durability and strong adhesions to surfaces. It is also more resistant to corrosive environment than traditional jointing mortars.

TECHNICAL PROPERTIES

Tensile strength @ 28 days	: >0.35 N/square meter
Compressive strength @ 28 days	: >5 N/square meter
Workability	: 170-180 mm sq.ft./40 kg with 25% of water
Silt content in sand	: < 1.0%
Bulk density	: 1650-1700 kg/m ³

PRODUCT CHARACTERISTICS

Physical nature	: Free flowing grey powder
Water requirement	: 20 to 25% by weight
Hard dry	: 24 hours (depending on temperature & humidity)
Pot life	: Approx. 30 min.
Coverage	: 170 sq.ft. (considering joint thickness of 2-3 mm)
(per 40 kg bag)	



BLOCK JOINTING BENEFITS

High Strength:

It contains selected graded ingredients and imported & modified polymers for stronger adhesion and smoother finish.

Reduces Wastage:

It has excellent workability compared to conventional mortar.

No water Percolation:

due to its thinner joints and materials used no pores are formed to let water pass.

Faster Construction:

No curing time is required and hence making the construction faster than conventional mortar.

Economical:

Its ease of application saves time and cost.

No heat loss:

Due to 3mm thin joints and the ingredients used, it doesn't let heat loss through joints.

CONSUMPTION

- 40KG bag will cover approximately 140 sq. ft. with average thickness of 3mm for block size of 600 X 200 X 100 mm. The coverage will vary depending on surface condition.

NOTE

- Minimum thickness to be applied is from 3mm to 4 mm take care of the undulation in the blocks leading to good bonding strength.
- Plastering can be done at construction site as per standard masonry practice generally after 4 days, conducting and chiseling can be done generally after 7 days.

DIRECTION FOR USE

Surface Preparation

- The surface should be sound and thoroughly cleaned. Old surface should be free from wax, grease, dirt, flakes & loose particles
- **Mixing**
 - Gradually add 3 parts of powder to 1 part of water (by volume) and mix it for 5-10 minutes to achieve smooth paste consistency.
 - Attempt to be made to break the lump during mixing so that maximum dispersion of polymer takes place in the mortar resulting into good bonding strength with the blocks.
 - After mixing allow the paste to stand for 2-3 minutes to mature and again mix it for paste consistency
 - Do not attempt to extend the pot life by adding more water to the mixed adhesive.

Application Methodology

- Put well mixed Lite & Greens block jointing mortar on the block with help of trowel, spread mortar uniformly on the unit.
- Use notch trowel for good transfer and firmly place the block with slight shear to ensure good transfer & bonding.
- Lite & Greens block jointing mortar to be applied on the faces of the block and on column and beam, material to be applied on both i.e. surfaces as well as on block to ensure good bonding at the joints.
- Use rubber hammer to have good contact between the blocks.





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Greens**
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1504, Sun Central Place, SP ring road ,
Ambli , Ahmedabad -380058



99791 23455



Info@liteandgreens.com

