



# POWER TUFF

GREENER INDIA

WALLING SOLUTIONS

# Experience the PowerLite Block

PowerLite has a competitive edge since its products are backed by years of professional experience and competence. Customers are satisfied as a consequence of our insights and cutting-edge service standards.

**Unstoppable** ————— **Strength.**

**Unbreakable** ————— **Durability**



# AAC Blocks

## AERATED AUTOCLAVED BLOCKS FOR MASONRY

- AAC Blocks (Aerated Autoclaved) are used as a substitute against conventional building masonry such as red clay bricks & have been widely accepted globally because of their beneficial properties.
- The aerating is caused by a reaction of a mix of various materials mainly consisting of silica (through fly-ash) quicklime, cement & others. AAC Blocks (Aerated Autoclaved) consist of around 80% air, this aerated material is processed through autoclaving which entails high pressurized curing of aerated materials formed in cellular shapes.

### FLY ASH BLOCKS (AERATED AUTOCLAVED) COVERAGE

Size (mm) L    H    W	Quantity of Blocks 1 Cubic Mtr	Weight Kg.
600x200x75	111.1 Pcs.	6.75 Kg.
600x200x100	83.3 Pcs.	9.00 Kg.
600x200x150	55.5 Pcs.	13.50 Kg.
600x200x200	41.6 Pcs.	18.00 Kg.
600x200x225	37.0 Pcs.	20.25 Kg.

Note : Tolerance  $\pm 5\%$

## Key features & Benefits

Bigger in size



Thermal insulation



Fire Resistant



Better Compressive Strength



Rough Surface



Technical assistance

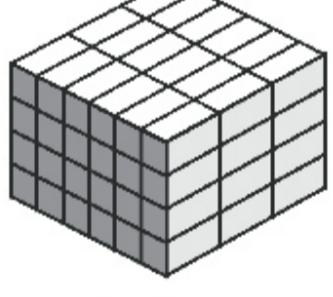
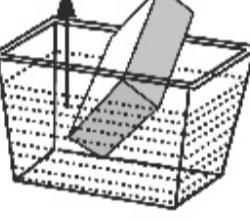
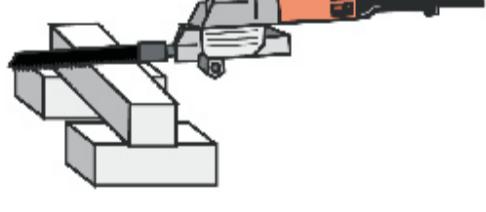
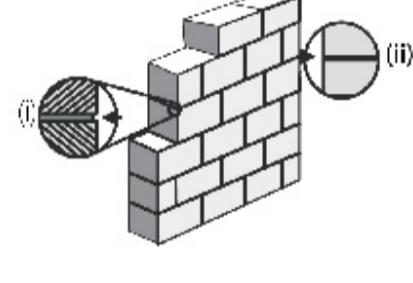
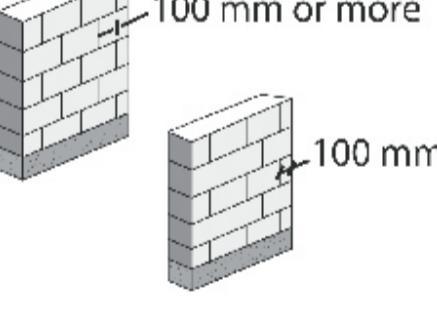
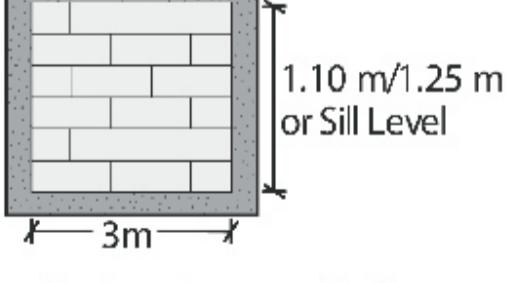
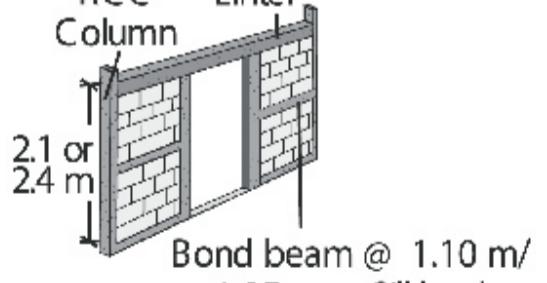
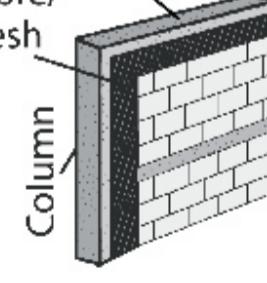


# Technical Specification

(Complies to IS 2185 (3) & IS 6441)

Particulars	Units	Values
Size (Length x Height)	mm	600 x 200
Size (Width)	mm	75, 100, 125, 150, 200, 225, 250, 300
Size Tolerance (Maximum)	mm	$\pm 3$ (Width & Height) & $\pm 5$ Length
Compressive Strength	N/mm <sup>2</sup>	G1: $\geq 4.0$   G2: $\geq 3.3$
Oven Dry Density	Kg/m <sup>3</sup>	640 - 750
Fire Resistance	Hours	4 (for 150 mm thick wall without plaster)
Thermal Conductivity (K Value)	W/mK	0.16 - 0.21
Sound Reduction	dB	37 - 42
Modulus of Elasticity	Mpa	2040
Thermal Resistance (R Value)	m <sup>2</sup> K/W	0.95 (200 mm Width) @ K = 0.21 W/mK
Thermal Conductance (U Value)	W/m <sup>2</sup> K	1.05 (200 mm Width) @K = 0.21 W/mK
Drying Shrinkage (Maximum)	%	0.04
Sound Transmission Class Rating	dB	44
Capillary Water Absorption	gm/dm <sup>2</sup>	180

## Preparation & Application

<b>Stacking</b>  Stack on dry & even surface to avoid damage & contact with moisture	<b>Mortar for Masonry</b> Cement + Sand + Water OR Thin Bed Adhesive (Premixed) (ASTM C 1660-09).	<b>Wetting of Blocks before application</b>  Dip in water & lift immediately.
<b>Cutting of Block</b>  Use tool like hacksaw or rotary cutter.	<b>Mortar Thickness</b>  (i) Pre-mix Med Bed : 5-6 mm (ii) Pre-mix Thin Bed : 2-3 mm	<b>Bond Pattern</b> 
<b>Coping Beam</b>  Coping beam with 2 nos 8 mm rein force cement after 1.2 mts. height.	<b>Lintel Support</b>  Bond beam @ 1.10 m/ 1.25 m or Sill level Lintel support on full block.	<b>Beam &amp; Column Junctions</b>  It should cover 6 " on both the surfaces (Internal & External)

1. The Values obtained are from our laboratory testing conditions. Tests conducted on site conditions may show slight variation due to methods of testing/application.
2. Illustrations should be treated as guidelines only, kindly refer TDS for detailed method statement before product usage.
3. Illustrations should be treated as guidelines only, kindly refer TDS and IS 6041 for detailed method statement before product usage.

# Power Joint Fiber Mesh



Power Joint is made of Fiber for high mechanical strength in order to reinforce the plaster. In addition to this "High Grade Pure Latex" is used to provide higher tensile strength in areas prone to cracks Viz "Joints between two differential substrates" & areas where "Electrical conduits"

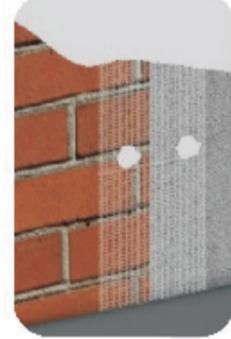
## Application area

Exterior / Interior Wall Reinforcement

## Dimensional characteristics

Properties Name	Properties Value
Treated Fabric Weight	180 / 145 / 140 / 95 gsm
Mesh Size	5mm x 5mm
Standard roll length	50m
Standard roll width	200mm / 1000mm

- Heavy stress that effects some wall parts (window area and partitions)
- Dissimilar material after chasing during plumbing & electric works
- Cracks generated in between dissimilar substrates like RCC-blocks joints; brick-block joints; S\C plaster-gypsum plaster joints
- Substrate imperfections when a thin plaster is used



## How to Apply



1. Make the surface clean, free of debris and oil. Chasing should be completely filled
2. Apply the first layer of base coat over the entire surface.
3. Apply the mesh from the top to the bottom of the wall by pressing it into the first layer of the base coat (starting from the centre then out to the side).
4. Apply the rest of the base coat keeping the mesh sandwiched between the two coats
5. Apply at least 3 mm of upper coat material on top of the base coat

# Block Joining Mortar

## Technical Specification

Parameters	Specification
Appearance	Grey Powder
Water Required	35%
Pot Life	~1.5 - 2 hrs
Curing	Not required
Tensile Adhesive Strength	>0.41 N/mm <sup>2</sup> (as per ASTM - C1660)
Coverage	170 - 180 sq.ft (for 4" thick blocks)

## Features

- High bond strength
- No shrinkage cracks
- High thermal insulation
- Shock & impact resistant
- Superior adhesion
- Excellent compressive & tensile strength



Packaging  
30KG & 40KG bag



## Ask for Free Technical Assistance

 **9950950581 | 9214469361**

## Factory Address:

Near Rock Forever, Shikarbadi,  
Bilota  
Teh.- Delwara, Rajsamand

## Office Address:

7/3 Bedla Road, Near Bank of  
Baroda,  
Old Fatehpura, Udaipur (Raj.)

