



WONDER Walls

Reliability • INNOVATION • STRENGTH

WONDER WALLS

BUILDING THE FUTURE, ONE WALL AT A TIME



COMMERCIAL PROJECTS



RESIDENTIAL HOMES



INTERIOR & PARTITION WALLS



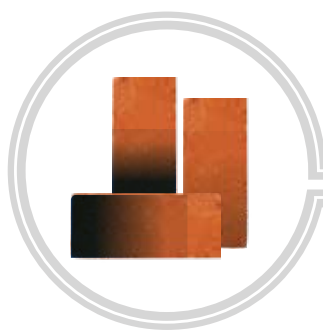
BOUNDARY & DESIGNER WALLS

An Eco-friendly, Quick,
Cost Effective, Strong
Replacement of Traditional
Bricks and Blocks

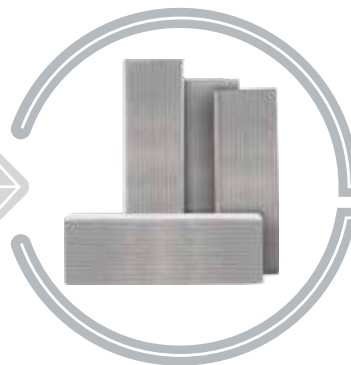
www.wonderbuildcon.in

IT'S ABOUT TIME

WONDER WALLS By ASHCON BUILDTECH answers the need of the hour. When the situation calls for faster completion & a long-lasting solution, our AAC Wall rises to meet the need. That is why we say, "It's About Time". Because the time has come to advance higher, further & faster.



Bricks



AAC Lightweight Block



WONDER WALLS
By ASHCON BUILDTECH



WONDER WALLS By Ashcon Buildtech is a lightweight and steel-reinforced wall.

WONDER WALLS By ASHCON BUILDTECH comes equipped with a tongue and groove to provide ordinary on-site installers with easy installation.

It is suitable for both internal and external

non-load-bearing walls.

- **WATER, FIRE, EARTHQUAKE RESISTANT**



Seismic/Earthquake Resistant, Built to Withstand Earthquake Forces Shock Wave Absorption, Protects Inhabitants During Earthquakes

- **SPACE SAVING**



Maximized Carpet Area, Additional substantial Space with Inner Walls.

Advantages



Cost Effective

Save upto 25% in Foundation cost



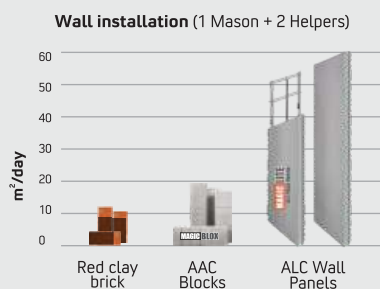
Building using Bricks

Building using AAC Products

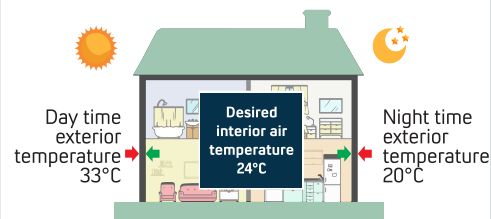


Wall Installation Speed

Bricks Vs AAC Blocks Vs ALC wall Panel



Thermal Control



Building uses approx. 30% less energy for cooling and heating the interior air space



Fire Resistance

MagicLite ALC Wall Panel provides a fire rating of **4 hours for Thickness of 100 mm**. This makes it one of the best building materials available in the market.

Thickness (mm)	75	100	150	200
Fire rating (hours)	3	4	6	8



Acoustic Insulation

MagicLite ALC Wall Panels provides extraordinary defense against noise pollution. The sound reduction index is more than **40 dB**.

Thickness (mm)	75	100	150
STC rating (dB)	40	43	46

- With 3-4 mm skim coat
- For 52 dB, install gypsum board (12.5mm) with stud framing on both sides.



Space saving

Better option to use thinner internal walls, 75mm instead of 100 mm and as a result there is an increase in floor space area upto 2%.



Durable

Absorbs strong impacts. Withstand harsh weather conditions without cracking.



Easy & Fast Installation

It is easy to chisel, cut & core the ALC Panel, as per requirement.

COMPLETED/ UNDER CONSTRUCTION PROJECTS



**Malls, shopping complex,
Studio**



**Industrial Projects
Mega Factories**



**Builder Sample flat
Sales Offices**



Residential Projects



Temporary Structures



**Internal Partitions /
Rapid construction**

Technology Comparison

Parameters	 Burnt Clay Bricks	 AAC Blocks	 Hollow Core Wall Panel	 Dry Wall	 Sandwich Wall	 WONDER Walls
Weight	185 kg/m ² (115 mm)	70 kg/m ² (100 mm)	110 kg/m ² (100 mm)	20 kg/m ²	54 kg/m ² (75 mm)	55 kg/m ² (75 mm) 70 kg/m ² (100 mm)
Dry Density	1950 kg/m ³	550-650 kg/m ³	1550 kg/m ³	600-800 kg/m ³	1000 Kg/m ³	550-650 kg/m ³
Speed of Installation (1 Mason + 2 Helpers)	10 m ² /day	20 m ² /day	40 m ² /day	40-50 m ² /day	20-30 m ² /day	40-50 m ² / day
Fire Resistance	2 Hours (200 mm)	2 Hours (200 mm)	2 Hours (100 mm)	1 Hours (100 mm)	2 Hours (75 mm)	4 Hours (100 mm)
Thermal Conductivity (W/K-m)	0.81	0.16	0.4	0.25	0.21	0.16
Sound Reduction Index (dB)	50 dB (230 mm)	44 dB (200 mm)	44 dB (100 mm)	40 dB (100 mm)	35 dB (100 mm)	44 dB (100 mm)
MEP Installation difficulty level	Medium	Very Low	High	High	High	Very Low

• ECOFRIENDLY

Compliance with Green building product, Zero Toxic Emissions, No use of asbestos, ensuring safety and health of occupants and construction workers

VERSATILE APPLICATION

Easy Slotting, Nailing, Hanging, Drilling, and Grooving



ACCESSORIES



Panel Lifting Tool



Anchor Fastener (Bolt)



Cleaning Brush



Drill Machine



Grinding Machine



Hammer Machine



Hammer



L-clip



Measuring Tape



Mortar Mixer



Nylon Rope



Panel Cutter Machine



Plastering Trowel



Plumb Bob



Right Angle



Spirit Level



Tapping Screw



Wedge



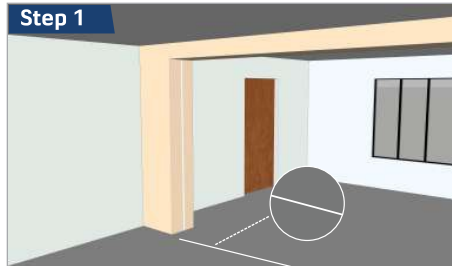
Wrench



Thin Bed Mortar

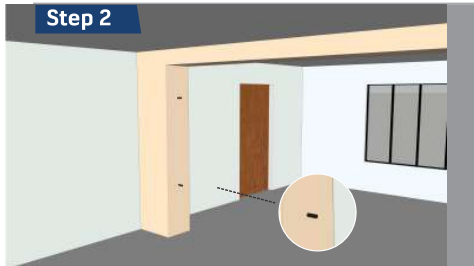
GUIDE FOR PERFECT INSTALLATION

Step 1



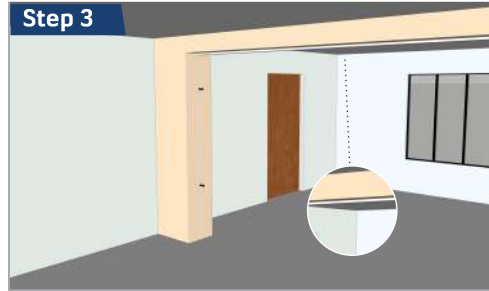
Ensure the floor and ceiling are free of dust before making the line by chalk.

Step 2



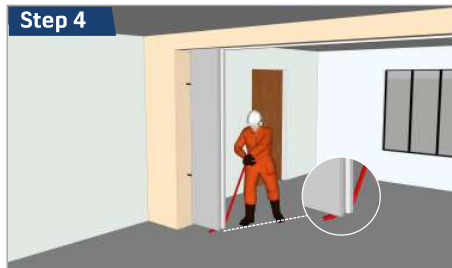
Drill 2 holes of 40 mm depth 8 mm dia at the marked in the column and Insert dowel bars (8 mm dia x 80 mm Width) into holes.

Step 3



Paste Styrofoam (50 mm x 15 mm) across the length of the wall to beam bottom/slab bottom.

Step 4



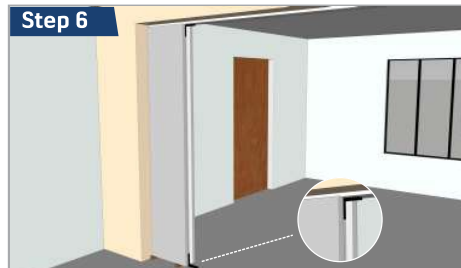
Lift the wall panel & push it to attach with the column.

Step 5



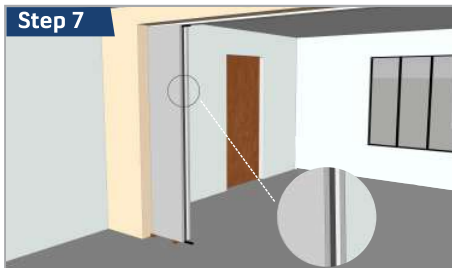
Attach the Magiclite wall panel with column and insert wooden wedge under the panel.

Step 6



Use GI L-clamp to fix the panel with the floor and the roof with the help of fasteners.

Step 7



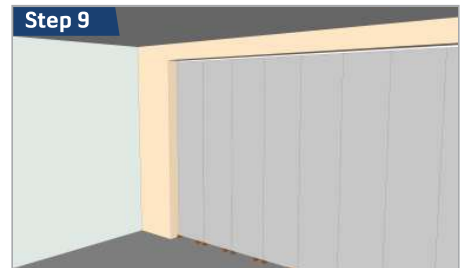
Apply thin-bed mortar on side of the first panel

Step 8



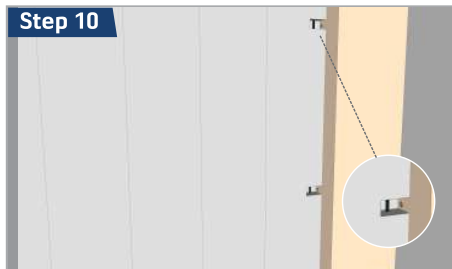
Lift the next wall panel to attach and repeat step 6-7.

Step 9



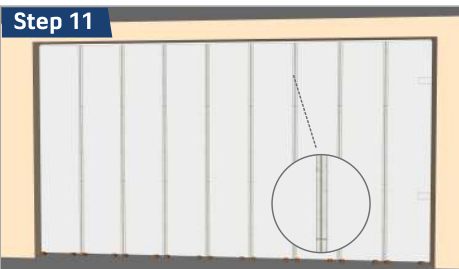
Continue to install wall panels until the gap can be closed by last label.

Step 10



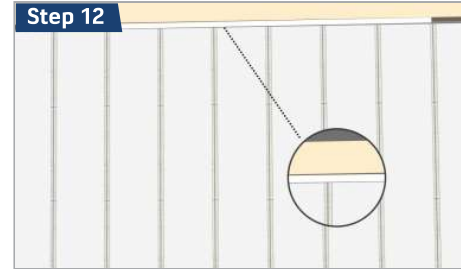
Carve 2 slots in the panel for dowel connection with the end column.

Step 11



Apply glass fibre tape on the joints between panels and cover it with polymer based putty.

Step 12



Fill the gap if any between beam/slab top and wall panel by PU Foam and remove excess of it.

Step 13



Fill the gap between floor and panels with a 1:4 sand-cement mortar & allow it to dry.

Step 14



Fill PU sealant in vertical control joints & end gaps.



Reach Us

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