

# EASYWALLS™

CONCRETE HOLLOW CORE WALLS



**EASY™**  
WALLS

**MAHESH PREFAB PVT. LTD.**

Mfrs. : Concrete Hollow Core Walls Made with Automatic Plant for Accotec Wall Panels Technology from Elematic, Finland

**ELEMATIC**  
FINLAND

## ABOUT MAHESH PREFAB PVT. LTD.

- In India, Mahesh Prefab Pvt Ltd, a pioneer in GRC/GFRC, a leader in providing value-added services to our customers by creating a successful partnership with them through quality construction, technical and management services decided to bring the technology made with Accotec Wall Panel Machinery, from Elematic, Finland.
- Mahesh Prefab Pvt Ltd is in precast business from last 12 years and giving its best service to leading builders, Hotel Projects, Government Projects & Architects all over India. Mahesh Prefab has always excelled by the way to deliver high-quality, cost-effective projects on GRC/GFRC technology by employing and supporting motivated, flexible, and focused teams.
- We value the importance of our relationships and will continue to remain fair and true in our dealings with all employees, clients, vendors, and partners. Our clients count on our dependability, our drive, and our integrity. We take great pride in our accomplishments and build on them every day.
- Our pledge is to establish lasting relationships with our customers by exceeding their expectations and gaining their trust through exceptional performance by every member of our team. We want to ensure the longevity of our company through repeat and referral business achieved by customer satisfaction in all areas including timeliness, attention to detail and service-minded attitudes.

## ABOUT EASY WALLS

- EASYWALLS™ is a new revolutionary dry wall concept to replace conventional brick work plastered wall or AAC block walls. They are Precast Concrete Hollow Core Wall Panels made with proven technology and automatic plant of Accotec Wall Panel technology from Elematic, Finland. These are light in weight compared to traditional concrete panels of same thickness due to its hollow core design and light weight aggregates in its mix design. Due to its design they are very easy to install and strong enough to take load of wall hanging A/c's, LED Tv's, Geyser's etc. All the electrical and plumbing can be easily accommodated in its hollow core design. It also saves lot of time in finishing because its both sides are finished and does not require any plastering. We can do only cement based wall putty for final finish after fixing. Due to its footprint, it saves on space and gives 3-7% higher carpet area in comparison to the conventional brick work / AAC block work.
- EASYWALLS™ are non-load bearing concrete hollow core walls that offer superior properties for a whole range of uses. The walls are produced to order in standard widths and thicknesses and in lengths to suit room height as well as desired densities and strength. Easy walls made with Accotec Wall Panel Technology from Elematic, Finland have proven themselves in 14 countries with the strictest standards and requirements on seismic, moisture and fire resistance as well as sound insulation such as Germany, Finland, Ireland, Spain, Japan, Singapore, Malaysia and China.



## DESIGN PROPERTIES OF EASY WALLS™

- EASYWALLS Concrete Hollow Core Walls are
- Height 2500-3300 mm
- Available in Thickness 75mm, 100mm, 120mm
- Standard Width 600 mm
- Have 5-8 hollows depending on the thickness
- Conventional concrete 100 mm thick wall having weight of around 240 kg/m<sup>2</sup> and lightweight concrete 100 mm thick wall having weight of around 150 kg/m<sup>2</sup>.



## SALIENT FEATURES:

- Simple Installation with Unskilled and Semiskilled workers
- Moisture, Rot & Mold resistant
- Fire Resistant
- Offers Higher carpet area
- High Sound Insulation
- Saves on Electrical Conduits
- Termite resistant
- Controlled Concrete Quality at 30 - 45N/mm<sup>2</sup>
- 75mm, 100mm and 120mm thickness of Finished partition EASYWALLS™ compared to 150mm and 200 mm of Brick Wall with plaster on both sides.
- 20% cost saving for the Builder compared to Brick/block masonry and plaster
- 50% Time saving for the Builder compared to Brick/block masonry and plaster

## Applications in following areas

- Residential High Rises
- Industrials Establishments
- Hospitals
- Hotels and Malls
- College and other/any educational institutions

A technology that has proven itself on seismic, moistures and fire resistance with sound insulation, adopted by countries in Europe and Asia.





**WHY EASY WALLS™**

- **Mother Nature's dwindling gift's** – Sand availability and quality is getting difficult, so is arranging water for construction. EASYWALLS™ saves Material and Water Sources.
- **Saves Manpower** – EASYWALLS™ saves Manpower as it is 20 times faster to install than the conventional Brick work.
- **Bricks** – Always a shortage; on top of it, it requiring 'Fertile' soil and brining Co2 in air is an environmental disaster which has to be avoided for our Future generations to come. We owe them clean air!!

**Features & Benefits**

	<p>Conduits, Created Naturally Eliminates requirement of putting conduits for plumbing</p>
	<p>Smooth surface finish Enhancement of looks Consistant Quality</p>
	<p>Designed for hanging loads (Medium) Already thinking about Wall mounted TV &amp; kitchen cup-boards! Add WC, Gysers and list is endless...</p>
	<p>Saving mother nature's precious gift, Water – 98% when compared to traditional method using bricks</p>
	<p>Fire Resistant</p>
	<p>Construction process and time, considerably shortened – Less Labour, Less Time, unlimited time savings!!</p>
	<p>Excellent Acoustics and Thermal Energy saving coupled with Easy living</p>
	<p>Easy Installation Low Foot Prints Translates into much treasured "More Carpet Area" Superior Strength and Durability</p>

# ADVANTAGES OF EASY WALLS™



## EASE OF INSTALLATION & EFFICIENCY

EASYWALLS™ are factory made, transported to the site ready to install on pallets and manually erected on concrete floors. Highly versatile and fast to install, requiring just two regular construction workers to install up to 6 m<sup>2</sup> per hour and are pre-cured thus do not require any curing. Can be cut, sawn and dimensioned as per requirement for installation at site. Projects utilizing EASYWALLS™ can save weeks or months over other materials due to no preparation work, fast installation, no curing time requirement and time saving with plumbing, electrical and HVAC conduiting.

## AESTHETICALLY & FUNCTIONALLY BENEFICIAL

On account of their factory finish they are aesthetically pleasing. Due to its availability in different heights and thicknesses with no load-bearing application it provides total design flexibility. More carpet area due to lower thickness of 75mm, 100mm and 120mm instead of brick partitions of 150mm and 200mm with plaster on both sides. No lintels need to be cast as panels can be placed horizontally as lintels where required. Due to its consistent line, length and levels EASYWALLS™ walls do not require stone or wood sills/frames to level surfaces for windows and openings. Hanging wash-basins, cup-boards, mirrors paintings with regular plug screws possible and can take as much as 350kg of load. Drilling, Nailing, and Hammering as in any normal brick-plaster wall. Good workability, less mess in installation, no curing, minimum waste at site and quick installation contribute to better site management.

## SUPERIOR STRENGTH & DURABILITY

Strength gradually increases over time with an initial cube compressive strength of 25 N/mm<sup>2</sup> to 40 N/mm<sup>2</sup> and an initial sectional compressive strength of 18 to 30 N/mm<sup>2</sup>. Walls do not deteriorate, experience creep and stress relaxation, lose strength and/or deflect over time.

## LOW MAINTENANCE

No problems like leaching of salts from bricks over time. No cracking, flaking of plaster due to one homogeneous material. No plastering means additional saving on time, quality, maintenance etc.

## SAFETY & PROTECTION

Provides an excellent protection against impacts from intrusion, slamming, explosions, vehicles and projectiles. High fire ratings of upto 2 hours. Sound insulation of 46 - 50 dB has passed tornado/hurricane/heavy rain-sleet-hail impact testing, giving owners an added level of safety assurance in areas prone to severe weather.

## CONSISTENT QUALITY

Because precast concrete products are typically produced in a controlled plant environment, they exhibit high quality and uniformity. Problems affecting quality typically found on a job site - temperature, curing conditions, craftsmanship and material quality - are nearly eliminated in a plant environment.

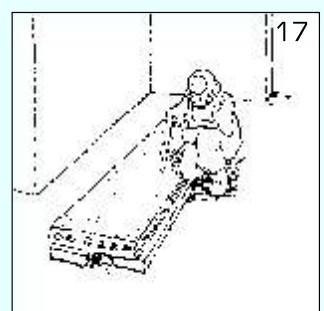
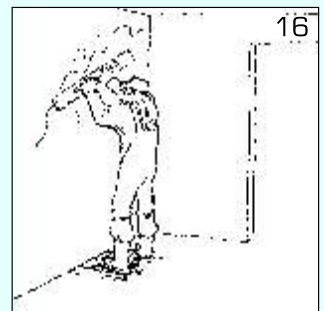
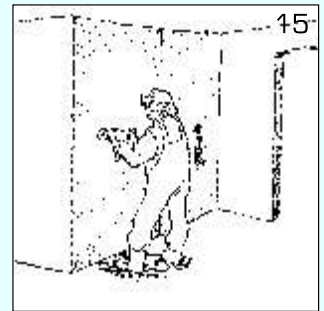
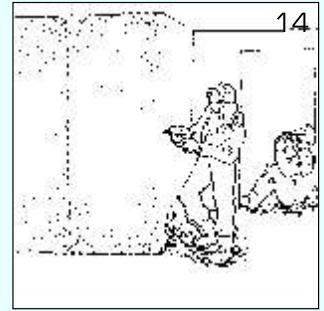
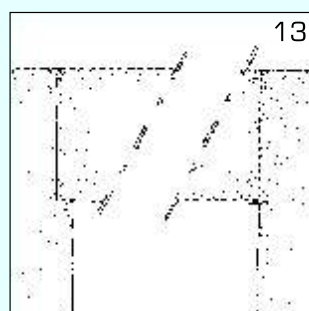
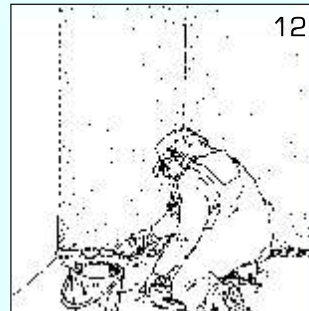
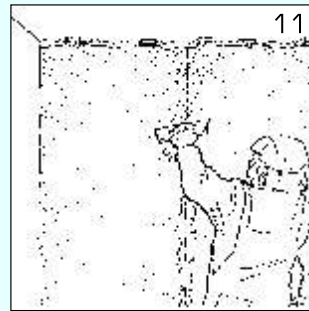
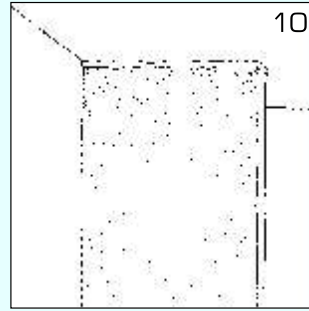
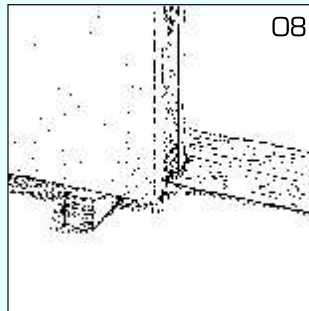
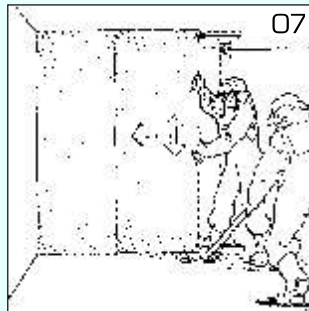
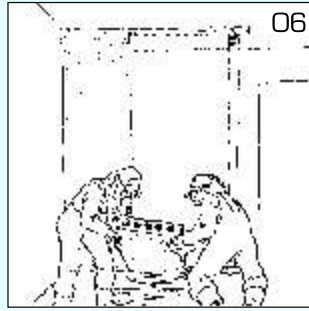
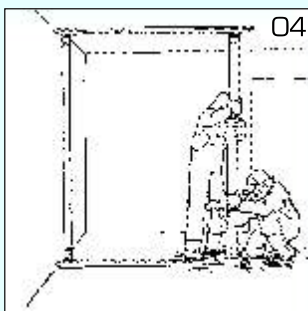
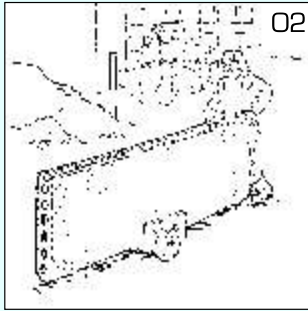
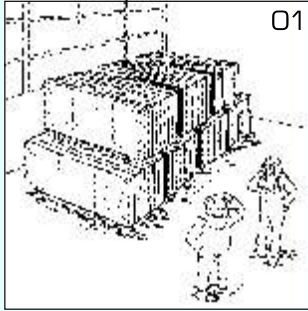
## ENVIRONMENT FRIENDLY

No curing means massive water savings during construction. Lower raw material used than with other partitions and all raw material composed of natural materials that are nontoxic and environmentally safe.

## WEATHER AND UV RESISTANCE

EASYWALLS™ walls do not degrade from exposure to sunlight and provide excellent thermal shielding due to the hollows acting as heat sinks. It provides Thermal resistance of 0.4 (m<sup>2</sup>K)/W and better. Can use insulation between 2 walls for added thermal resistance, Two-75 mm EASYWALLS™ Panels sandwich a 10 mm theracool sheet to provide a partition wall with excellent thermal resistance.

# INSTALLATION PROCESS





# COMPARISON CHART

POSITIVES	EASYWALLS™	Brick Wall	AAC Block Wall	Dry Wall - Fiber Cement Sheets
Strong	✓	✓		
Moisture Resistant	✓	✓		
Good Sound Insulation	✓	✓		
Quick to Install	✓		✓	
Good Fire Resistance	✓	✓	✓	✓
Economical Wall Structure	✓			
No need for Skilled Labor	✓			
No plaster just Wall Putty	✓			✓
Electrical Installations Easy	✓			
Cheap Raw Material		✓		
Light to Handle			✓	✓

NON - POSITIVES	EASYWALLS™	Brick Wall	AAC Block Wall	Dry Wall - Fiber Cement Sheets
Rather Large-Sized Elements	✓	✓		
Slow Installation		✓	✓	
Skilled Brick Layers needed		✓	✓	
Thick Plastering needed		✓		
Total Cost High			✓	✓
Weak Material			✓	✓
Big Moisture Movements			✓	✓

	EASYWALLS™ (100 mm)	Bricks	AAC Blocks (100 mm)
Man hours for 100m <sup>2</sup>	20 hrs	60 hrs	40 hrs
Units per 100m <sup>2</sup>	55	5500	600
Mortar used	100 lts	950 lts	330 lts
Plastering on each side	0	15 mm	8 mm
Wight per m <sup>2</sup>	110kg/m <sup>2</sup> - 150kg/m <sup>2</sup>	220 kg/m <sup>2</sup>	65 kg/m <sup>2</sup>

Size and Weight of wall		Tolerances
Length		± 10 mm
Width	600 mm	±2 mm
Thickness	100 mm	±2 mm
Weight	150 kg/m <sup>2</sup>	±10 kg
Thermal Conductivity <sup>†</sup>		0.175 W/mK
Thermal Resistivity <sup>†</sup>		1.14 m <sup>2</sup> /KW
Cube Compressive Strength		60-70 Kg/cm <sup>2</sup>
Sound Transmission Class (STC)		41 dB

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