

Why MAGIX Wall Panel System by MDI?

Traditional walls are used in construction world despite of having many concerns. It takes longer time to build, makes site dirty due to wet construction system & materials, they are very heavy & inconvenient to transport. In addition, skilled workforce are required. Many concerns often occur like cracking while laying and cement plastering is not standardised.

Furthermore it's difficult to control material loss during construction, resulting in high levels of wastage leading to revenue loss. It could easily collapse in case of fire or earthquake. **MAGIX Wall** aims to replace these by implementing wall panel board as key components of the system. It is presented by Architects, for Architects, Real Estate Developers, Project Managers, Contractors and Facility Managers.

Product Benefits:

Fast-track construction & Cost Saving

- Installation is 50% - 60% faster than others with fewer workers, save construction time. Suitable for interior partitioning for any kind of buildings especially high condominiums, apartment/hotel where there is large areas of repetitive wall & construction speed is a must
- Minimal rendering work (putty & paint sufficient), smooth surface & no hair line cracks
- Minimal damage of wall for chasing, minimising refilling after MEP installation comparing others
- Also due to its light weight, it reduces structural steel requirement resulting in cost savings.

Strong, Standardization & Versatile

- It's strong enough (due to concrete & fibre) so built in furniture / sink can be hung on wall.
- It can be used in wet/high moisture areas like toilets/kitchens with usage of normal waterproofing system
- Barrier to fire is much greater & **MAGIX Wall** has both sound insulation and fire resistance.
- Curved Walls, Designer panelling with any material such as Wood, Steel, Wall Papers, Glass, Mirror, Wall Tiles (minimal waterproofing to be done for wet areas), etc... can be installed over **MAGIX Wall**. They can also be installed in structures which are completely steel built, the clips used for **MAGIX Wall** have to be welded on both vertical and horizontal support on steel members.

Safety, Light Weight & Increase in Carpet Area

- It won't fall when fire/earthquake occur unlike concrete/brick wall due to its light weight
- Transportation is more convenient than masonry building, **MAGIX Wall** suits High Rise Buildings or inconvenient working spaces, resulting in reduced transportation costs.
- **MAGIX Wall** will increase room / carpet space due to the reduced thickness of wall (8-10cm) compared to masonry wall (12-15cm), increasing revenue to property developers & space owners.

Wall Highlights & Comparisons:

Wall type	MAGIX Wall	Expanded Polystyrene (EPS)	Precast Concrete Wall	Hollow Concrete Block	AAC Wall
Bracing	No bracing	No bracing	Bracing	Column & Beam Rqd	Lintel Required
Work Speed	70 sq.mt/day	20 sq.mt/day	25 sq.mt/day	25 sq.mt/day	40 sq.mt/day
Jointing	Flush Finish	Flush Finish	Groove Finish	Flush Finish	Flush Finish
Weight	42 - 50 kg/sq.mt	80 - 100 kg/sq.mt	200 - 240 kg/sq.mt	180 kg/sq.mt	80 - 120 kg/sq.mt
Limitation	None	Need pumping machine for large scale jobs	Not suitable for Interior Partition	Rely on skilful Labours	Specific Materials Req'd
Wastage	1-3%	5-10%	1%	10-20%	5-10%

Technical Information:

Size (mm)	2800*600*100	Crowd Pressure (KN/m)	3
Density (kg/m ³)	42±1.5	Light weight anchorage-pull out (N)	100
Compressive strength (N/mm ²)	5.56	Light weight anchorage-pull down (N)	250
Compression Load (kN)	78	Heavy weight anchorage-wash basin (N)	1500
Moisture Movement average linear change in sample (%)	0.1	Heavy weight anchorage-wall cupboard (N)	4000
Fire Resistance (min)	132	R-Value / Thermal resistance(m ² *K/W)	0.557
STC	36	K-Value / Thermal conductivity (W/m ² *K)	0.174

NOTE: Testing results are from TUV SUD group in Singapore for a third party.

Specs of MAGIX Wall Thickness:

Properties / Product	MAGIX 75	MAGIX 90	MAGIX 100
Size(mm)	2800*600*75	2800*600*90	2800*600*100
Density(kg/m ³)	40±1.5	39±1.5	42±1.5
Strength(Mpa)	4.1	4	4.1
Drying Contraction(mm/m)	0.25	0.25	0.25
Softening Coefficient	0.8	0.8	0.8
Bending Failure Load	2.2	2.2	2.2
Hanging force(N)	>1000	>1000	>1000
Fire Resistance(h)	2	2.5	3
Sound Insulation(dB)	39	39	41

 **MAGIX Wall**
The Fast Track Strona Partition Wall System

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