

speedy installation, maximizing profitability



The installation of GreenEdge partition wall element panels is up to six times faster than the use of traditional construction methods, such as brickwork or laying block walls.

the summarised benefits

	GreenEdge Wall
Strong	✓
Moisture resistance	✓
Good sound insulation	✓
Good fire resistance	✓
Quick to install	✓
Economic wall structure	✓
No skilled labour required	✓
Skim coating is sufficient	✓
Simple electrical installation	✓
Even surface	✓
Good IBS scoring	✓



TIME
SAVING



COST
SAVING



INDUSTRIALIZED
STANDARDIZATION



GREATER
PRODUCTIVITY



ENVIRONMENTAL
FRIENDLY



- Fast, easy and safe to install
- Precise panel dimension
- Completely level panel surface
- Thin panel structure
- Excellent noise and thermal insulation
- Moisture-resistance



IBS partition wall combines quality & speed

GreenEdge Light Weight Precast Wall Panel

for more information
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quick to-install moisture-resistant sound proof solution

GreenEdge is a quick-to-install non-load bearing precast partition wall element that can be used in residential buildings, on public premises - such as hospitals, schools, and service flats - in warehouses and as security fences and noise barriers.

GreenEdge is made from concrete, ensuring great resistance against moisture and temperature differences while also help in sound damping.

GreenEdge installation does not require special skills. The panels are simply lifted into an upright position and cemented together to the floor and to the ceiling.

main element in IBS system

GreenEdge wall panel is an idea developed to facilitate a hassle-free building process of Industrial Building System (IBS). The system reaches all the way through a building, from the facade right down to the partition walls.

why implementing IBS system

To go along with the aim of **CITP** (Construction Industry Transformation Programme) 2016-2020 that is to focus on the four strategic thrusts -

- Quality, Safety & Professionalism (QSP)
- Environmental Sustainability
- Productivity
- Internatoinalisation

where Productivity is the primary engine of growth towards Malaysia high-income target. The adoption of IBS is one of the main areas to be greatly accelerated by the government.

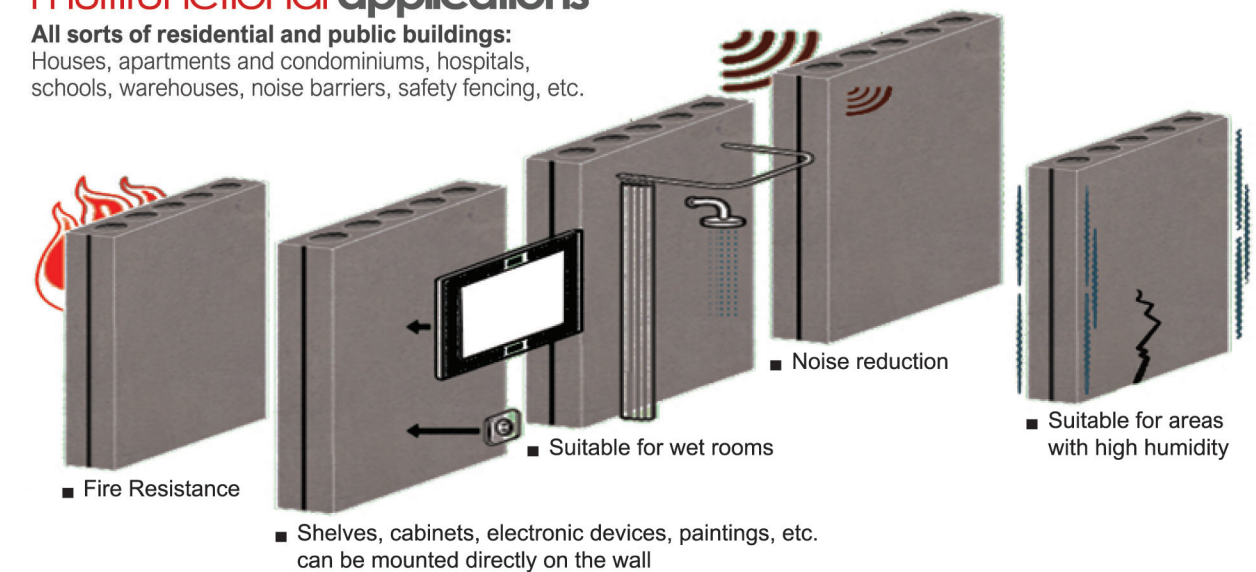
advantages from the builder's viewpoint

- The solid stone-based material used is strong and would help to increase property value.
- The panels leave the factory with a superb finish that only requires a skim coating, bring savings in plastering and finishing.
- Good sound insulation properties increase quality of living.
- Excellent resistance against mold and rot in wet conditions adds value and means less repairs.



multifunctional applications

All sorts of residential and public buildings:
Houses, apartments and condominiums, hospitals, schools, warehouses, noise barriers, safety fencing, etc.



wall panels dimension

COMMON AVAILABLE SIZE	
2,740mm (L) x 600mm (W) x 100mm / 75mm (thk)	
3,000mm (L) x 600mm (W) x 100mm / 75mm (thk)	
3,300mm (L) x 600mm (W) x 100mm / 75mm (thk)	
CUSTOM MADE SIZE	
Any length (L) x 600mm (W) x 100mm / 75mm (thk)	
AVAILABLE STANDARD THICKNESS	
100mm (4") / 75mm (3")	

specifications summary

TECHNICAL SUMMARY		
Installation Speed	(m ² /manday)	18
Weight	(kg/m ²)	130
Fire Rating	(hrs)	2
Sound Insulation	(dB)	< 48
Average Compressive Strength Cube Test	(N/mm ²)	25
Thermal Resistance	(m ² K/W)	< 0.5
Moisture Absorption	(%)	< 5.0



what is IBS SCORES ?

IBS Content Scoring System (IBS Score) is a systematic and structured assessment system that can be used to measure the usage of Industrialised Building Systems (IBS) in a consistent way.

PRINCIPLES OF IBS SCORE

The IBS Scoring System emphasis on the following attributes: -

- The use of prefabricated and precast components
- Off-site production of components
- The use standardised components
- Repeatability
- Design building component based on Malaysian Standard "Guide to Modular Coordination in Building" MS1064.

THE IBS CONTENT SCORING SYSTEM (IBS SCORE)

- Maximum IBS Score for a building is **100** points. The IBS Score is made up of the following components :

(ii) Part 1 – Structural Systems (Maximum score is 50 points)

Points are awarded for various types of structural system used e.g. precast concrete beams and columns, steel, prefabricated timber, etc.

Part 2 – Wall Systems (Maximum score is 20 points)

Points are awarded based on various types of wall systems used e.g. precast concrete panel, glass, dry partition, block work, etc.

Part 3 – Other Simplified Construction Solutions (Maximum score is 30 points)

Points are awarded based on usage of other simplified construction solutions e.g. standard components based on MS 1064, standardised grids, other 3D prefabricated components such as prefabricated toilets, staircases, etc.

(iii) The FORMULA:

IBS SCORES = (A) + (B) + (C)
(A) SCORE for STRUCTURAL SYSTEMS
(B) SCORE for WALL SYSTEMS
(C) SCORE for OTHER SIMPLIFIED CONSTRUCTION SOLUTIONS

- IBS score calculation only considers the superstructure elements of a building. Sub-structure works are not taken into account in the calculation.

- For ground floor calculations, consider column and wall only – ignore types of ground beam and ground slab.

what is



Accreditation, Certification & Test

- CIDB IBS
- Singapore Green Label
- SIRIM Fire Test
- Pull Out Test

Where?

GreenEdge wall panels are ideal for places where excellent sound insulation is key and they are also well suited to bathrooms, kitchens, and shower rooms. GreenEdge wall panels also meet the strictest standards and requirements in terms of seismic durability, moisture and fire resistance. GreenEdge walls are fully recyclable.

Why?

Building with GreenEdge panels is six times faster than traditional brickwork and twice as fast as blockwork. GreenEdge panels offer time and labor savings of up to 50% compared to conventional partition wall building methods. In addition, GreenEdge wall panels have a thin structure, which means more floor space to use for other purposes in the building.

