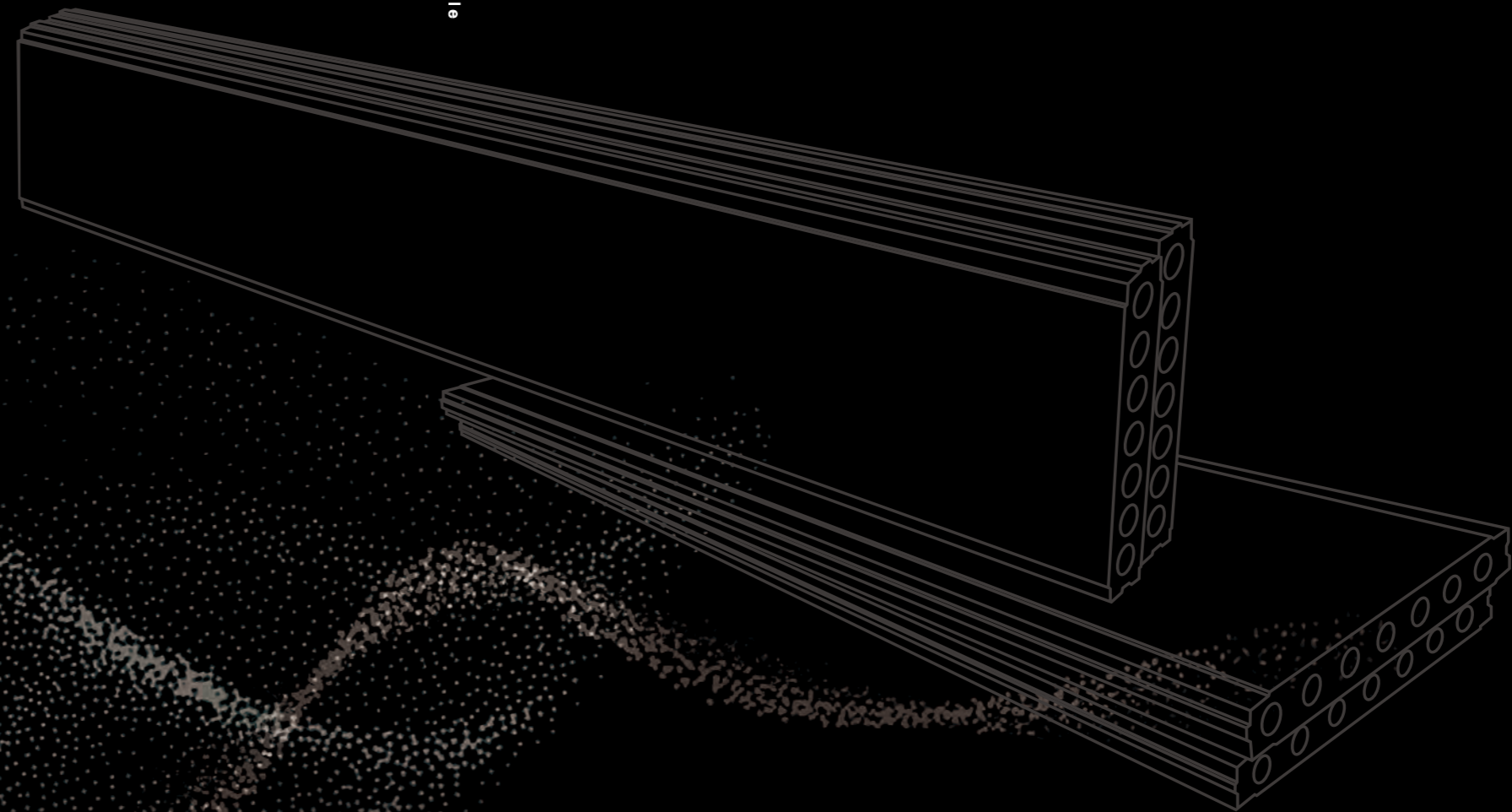


Ref: JCP/08/2022/007

JOE Green Concrete Panel Profile



E-Catalogue :



Contact Us :





Boediman WIDJAJA, MBA
 Founder & CEO JOE Green Group

“Inventing and Developing Novel Lightweight Green Aggregates from Waste Materials to Support Global Climate Challenge to Build a Sustainable Future”

go green ♻️ go global



Care & Passion

We have Just One Earth (JOE). It has to be treasured and duly protected from global warming, grave pollution and exploitation of natural virgin aggregates.

JOE Green is a Zero Waste Manufacturer. All panels that do not pass the stringent quality control are crushed and recycled.

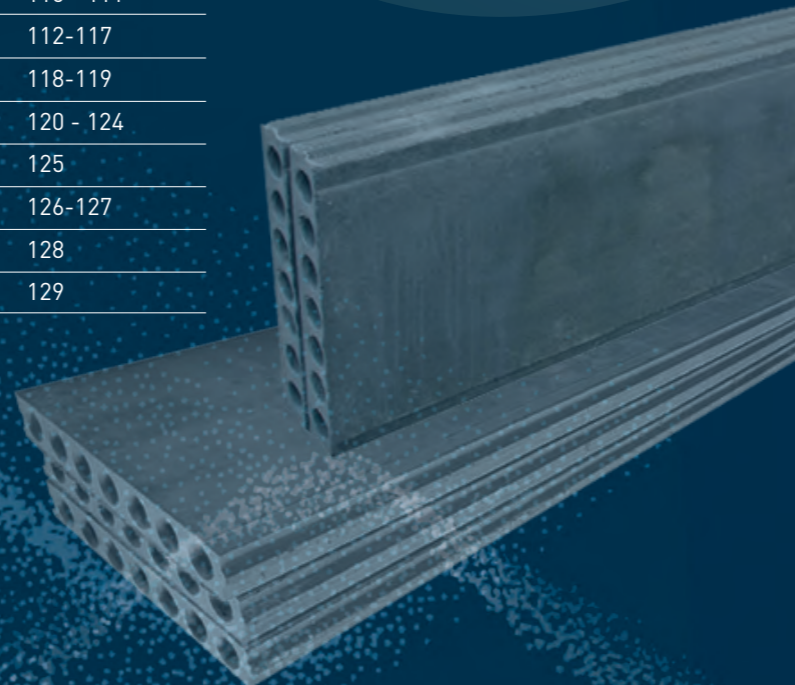
JOE Green is an ISO 9001:2015 Quality Management System certified company that contributes to a sustainable development and to preserving the environment. It is also ISO 14001:2015 certified in improving the efficiency of manufacturing, usage of resources, waste reduction and to its designs of safe, quality wall panels. The ISO 45001:2018 system helps to govern our stringent safety and health concerns, develop and implement policies that foster good occupational health and safety practices, thus reducing injuries and diseases. It is acclimated to local standards with the BizSAFE Star counterpart.

Today, JOE Green Concrete Panel is known for its environmental-friendly and highly efficient products, using the proven **RCAs minimum 30%** that have been tested by accredited and authorised institutions. It is widely used by local and international reputed developers, professional architects, top consultants and established main contractors for their prestigious projects in Singapore, Malaysia, Cambodia and Indonesia.



Table of Contents

JOE Care & Passion	02 - 03
Table of Contents	08
JOE Green & Gramata "Zero Waste"	09
LiGrA Recycling	14
LiGrA Process	15
What is Lightweight Aggregate & Lightweight Concrete ?	20
LiGrA Sizes & Lightweight Structures Built	21
LiGrA is The Solution	26
Lightweight Concrete Advantages & Performance	27
LiGrA R&D	32
LiGrA Applications	33
JOE Revolution "The Wall Specialist"	38 - 39, 42
JOE Design	43
JOE More Than Test Report	46 - 47
JOE If You Need Quality "We Are The Best"	50 - 51
JOE Certification	52
JOE Higher Scoring in SG Green Mark & MY GBI	53
JOE For Your Need "Customization"	54
JOE Superiority "Proven"	55
JOE Impact & Safety	60 - 61
JOE Accessories	66 - 67
JOE "Our Honourable Partners"	72
JOE SINGAPORE PROJECTS	
Airport & LTA Projects	73
Mixed Development Projects	74 - 77
Residential Projects	78 - 83
Residential - HDB Projects	84-89
Institution Projects	90 - 95
Commercial Projects	96 - 99
Industrial Projects	100 - 103
JOE MALAYSIA PROJECTS	
JOE CAMBODIA PROJECTS	
JOE INDONESIA PROJECTS	
JOE LOW-COST HOUSING	112-117
JOE "Awards"	118-119
JOE "Seeing is Believing"	120 - 124
JOE Patent, Registered Design & Trademark	125
JOE "Hearing is Believing"	126-127
JOE GO GLOBAL	128
JOE Contact Us	129



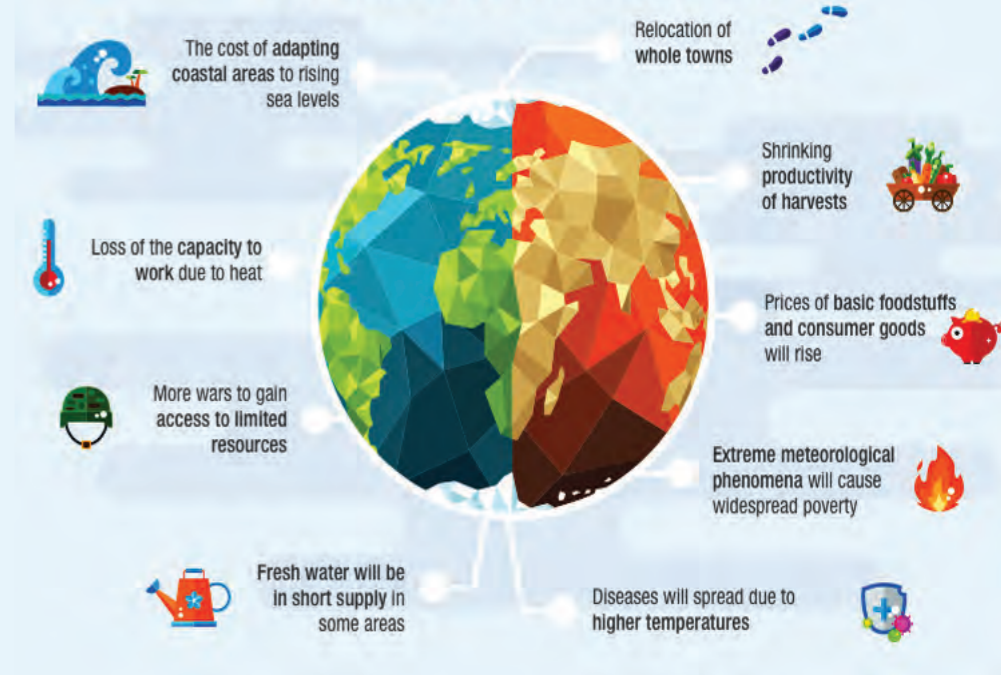
GREEN SUSTAINABLE PLAN

Rapid construction is the highest contributor of carbon footprint because concrete is the primary component in these built environments (8% of Global CO2 emission 2019). JOE Green and Gramata Fordea are in line with a solution that will reduce this impact holistically and will have significant outcome for the reduction of carbon emission.

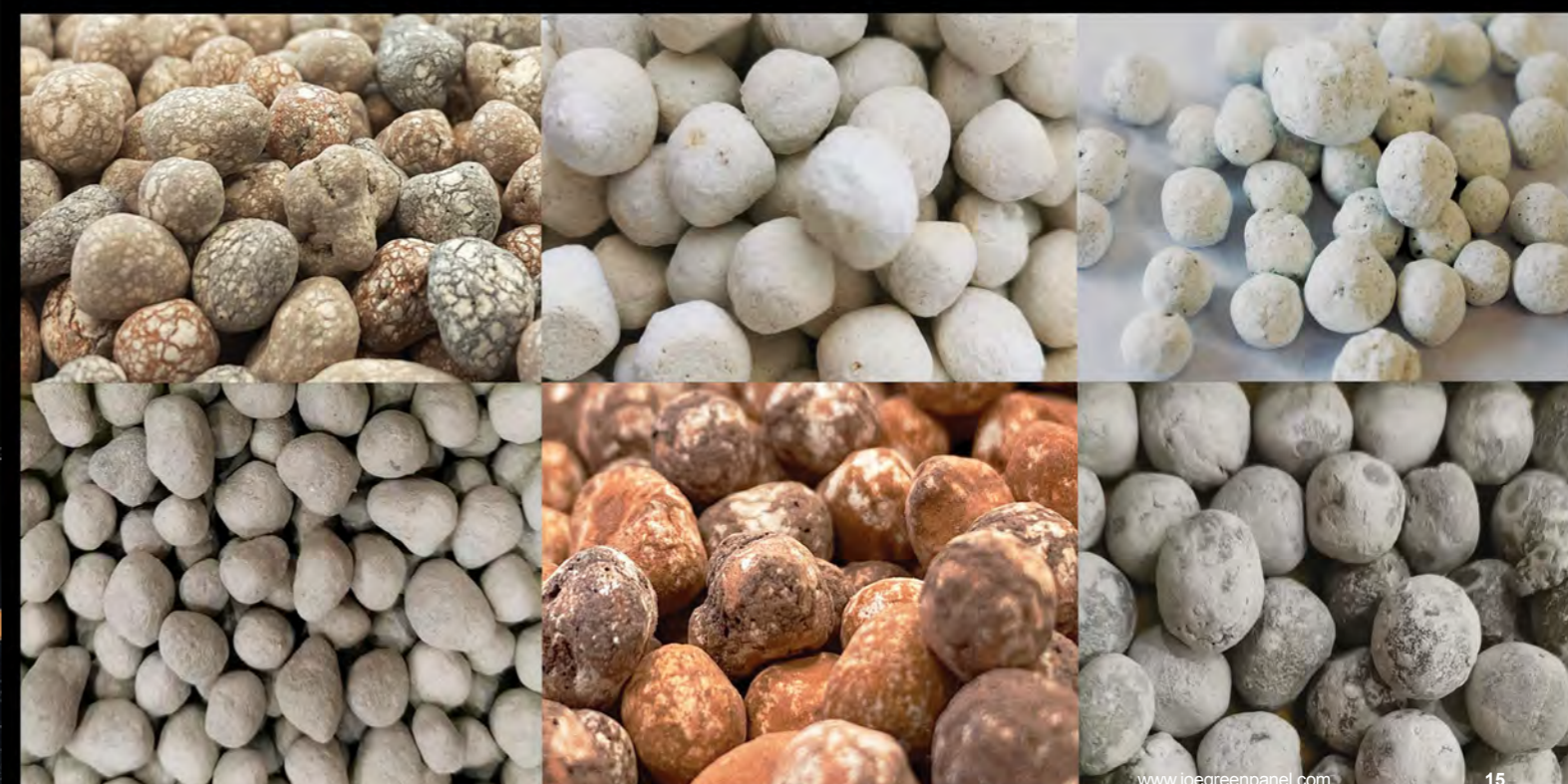
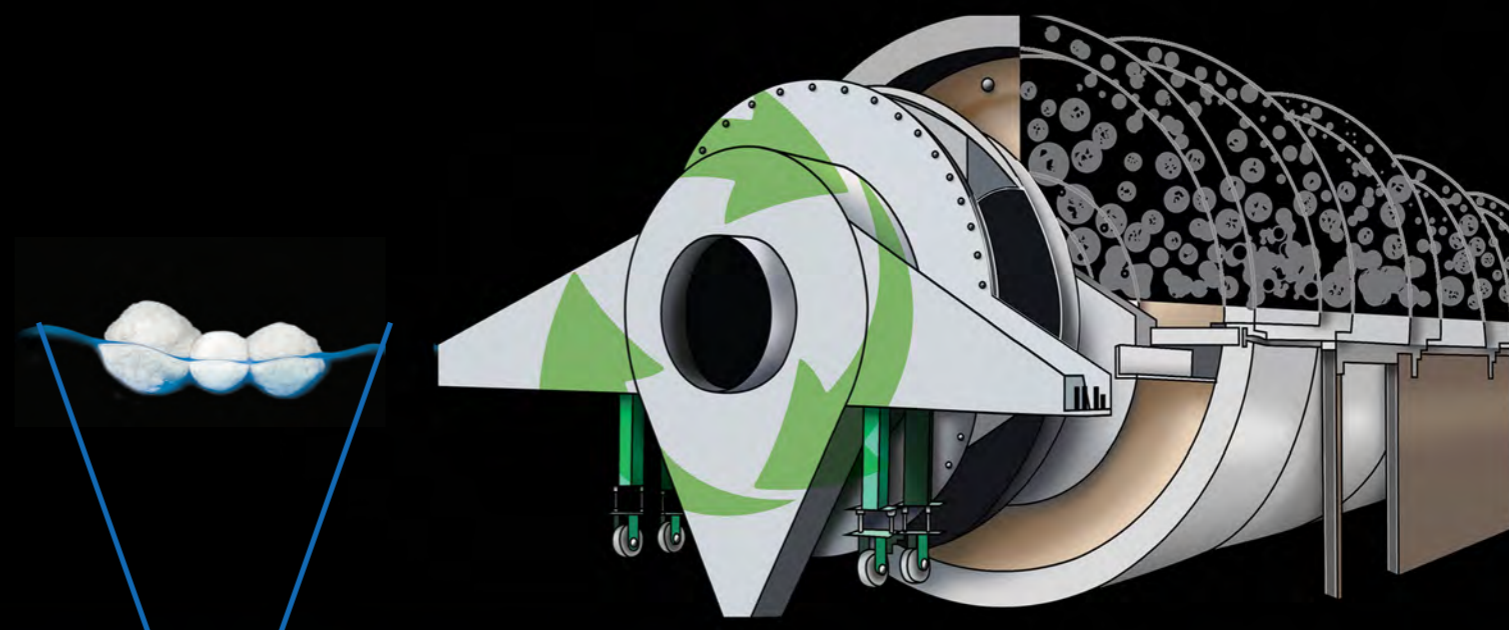
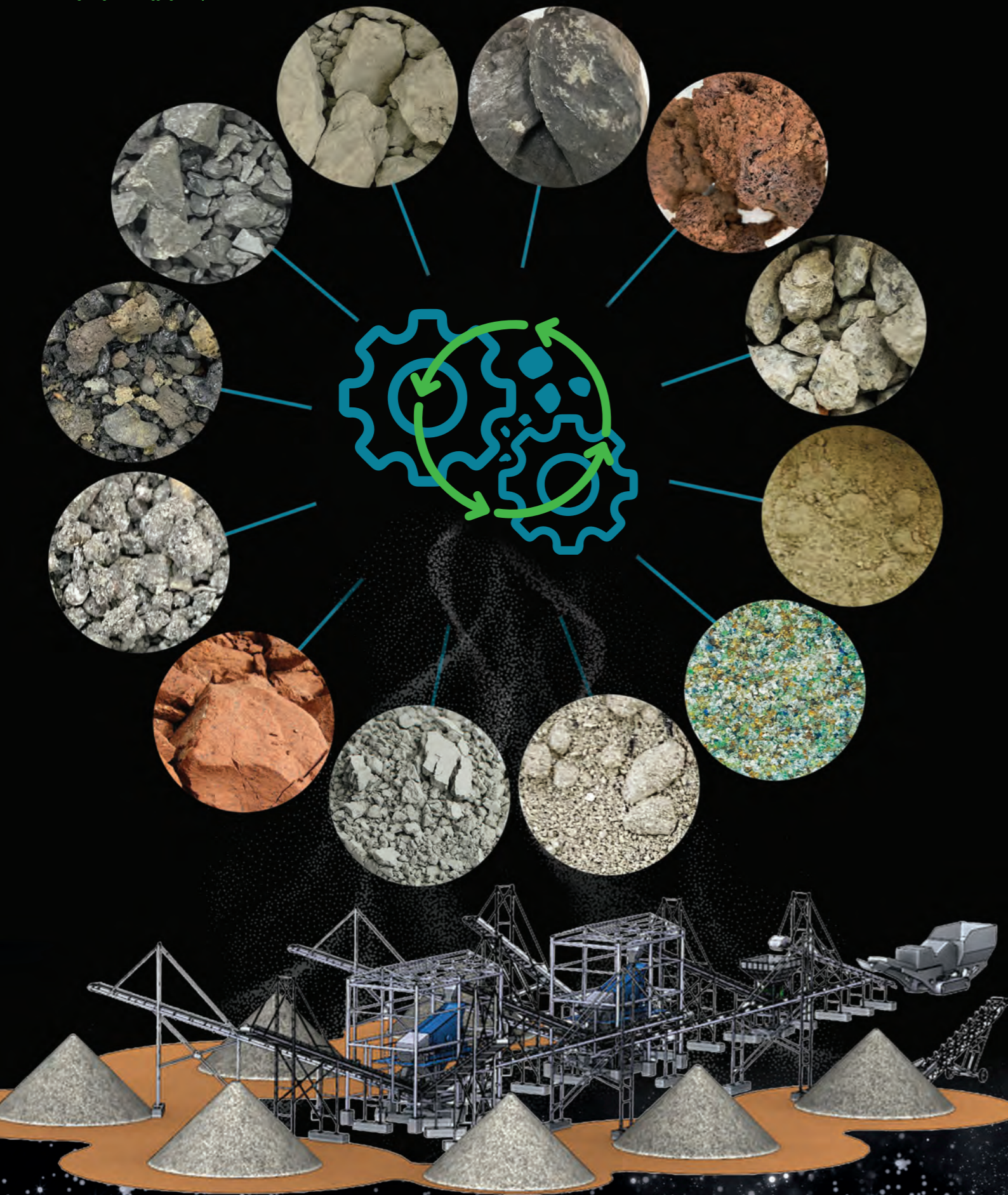
Singapore has consistently been looking into sustainability solutions, for water, food or even sand and aggregates for concrete. On the other hand, the dilemma of limited landfill and growing waste volume are serious concerns.

Converting waste to new materials for concrete and other industries is one of the main crucial solution. Because of the large volume of aggregates needed, it provides an avenue for recycling large volume of waste.

SOCIAL AND ECONOMIC IMPACT OF CARBON EMISSION



We acquired state of the art technology from overseas experts and higher learning institutions to identify, calibrate and formulate lightweight green aggregates from various types of inorganic wastes. The equipment has also been tailor-made for these specific purposes.

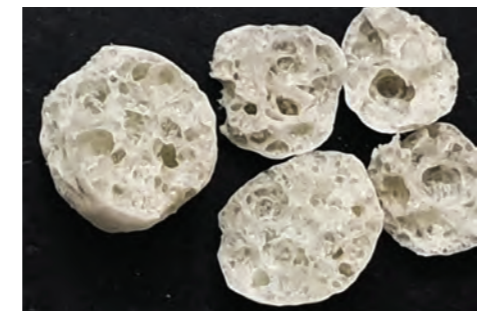


What is Lightweight Green Aggregates ?

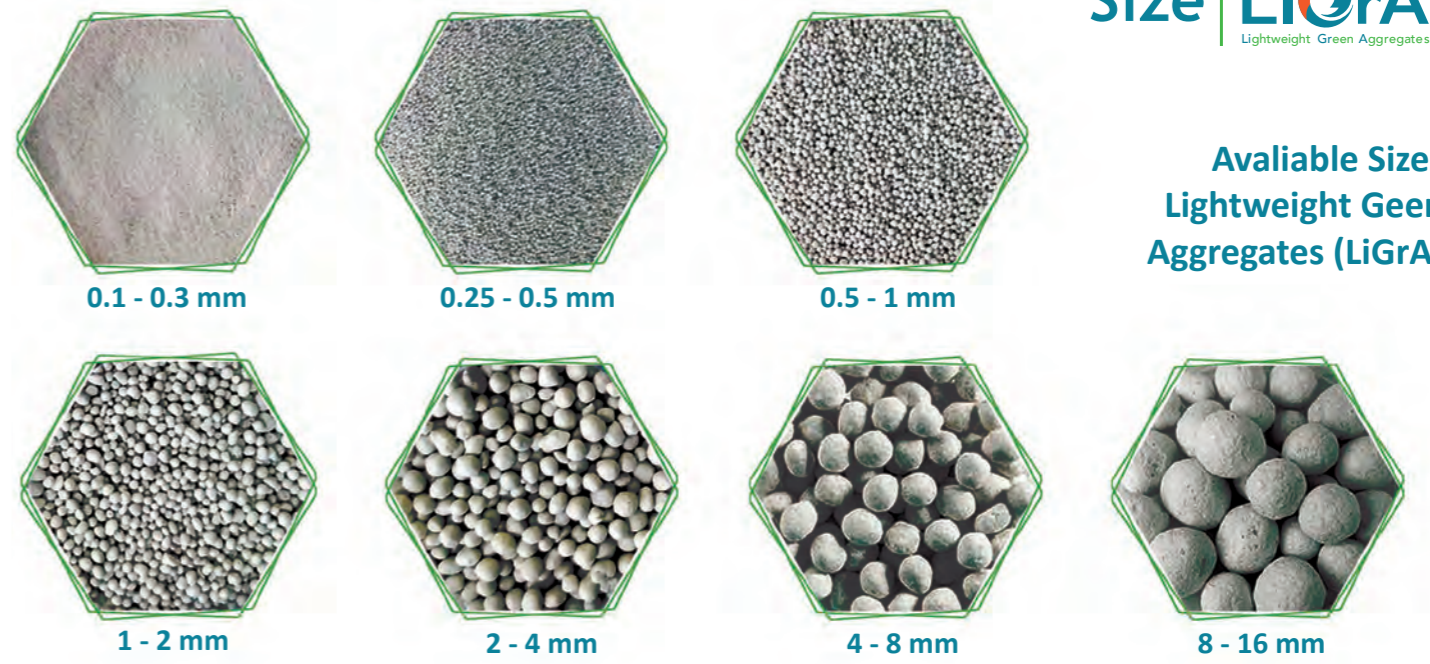
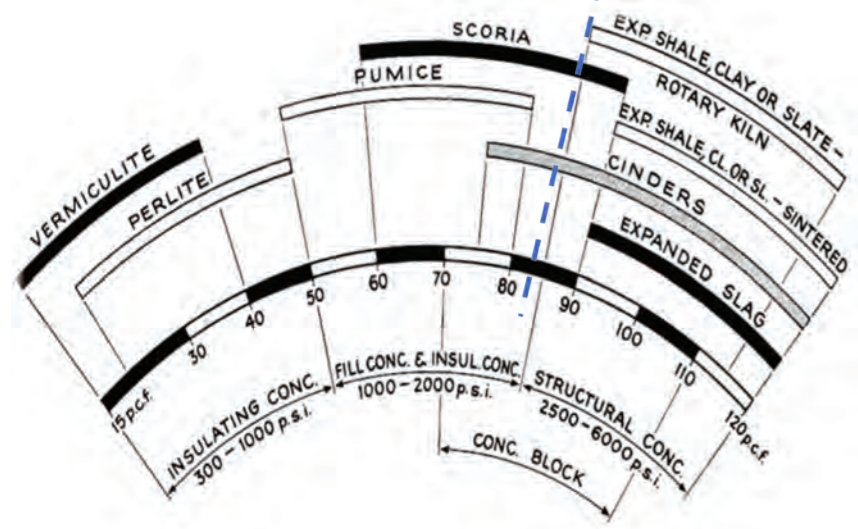
Lightweight Aggregates are granules or pellets of lightweight materials that have many applications. They can either be mined from natural sources or manufactured using minerals. **Lightweight Green Aggregates (LiGrA)**, on the other hand, is manufactured from waste materials.



Structural LiGrA
Densely packed finer pores



Non-Structural LiGrA
Loosely packed coarser pores



Available Sizes
Lightweight Green
Aggregates (LiGrA)

What is Lightweight Green Concrete ?

Lightweight Green Concrete is produced by replacing the heavy aggregates with lightweight aggregates.



1 m³ of Normal Weight Concrete

Cement	Fine Aggregate (Sand)
Water	Coarse Aggregate (Granite)

Density 2400 kg/m³

1 m³ of Lightweight Concrete

Cement	Fine Aggregate (LWA)
Water	Coarse Aggregate (LWA)

Density 800 to 2000 kg/m³ for structural application & Density below 800 kg/m³ for non-structural application

Partially
or fully replaced

Lightweight Structures Built with Lightweight Concrete



Duke Energy Centre (USA)



Heidrun Platform (Norway)



Wellington Stadium (New Zealand)



The Nordhordland Floating Bridge

What is the solution?



LiGrA has the technology to convert Waste to produce Lightweight Green Aggregates for used in Lightweight Green Concrete

- Provide Avenues to Recycle Waste
- Reduce Landfill & Waste Disposal Problem
- Reduce Exploitation of Natural Resources
- Manufacture Product Superior to its Original Form



The Benefits

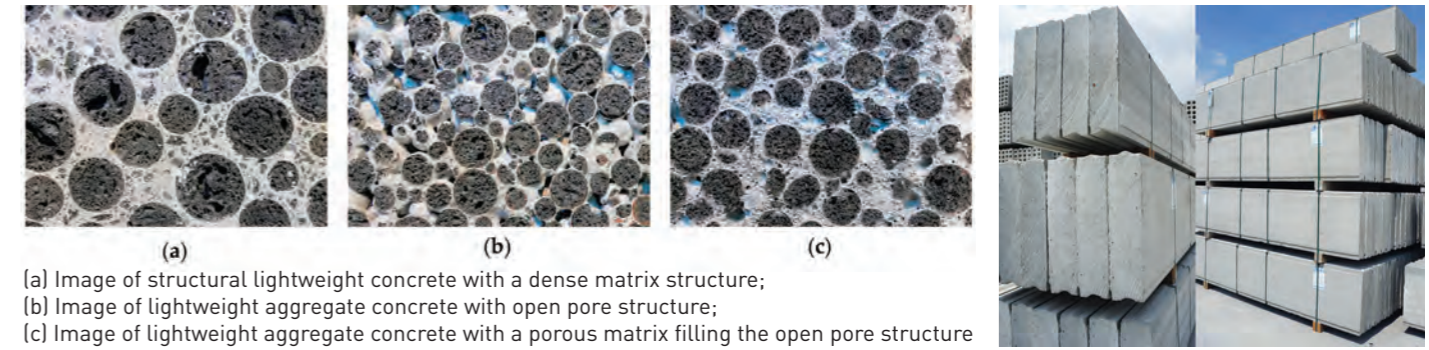
- Saving in Construction Cost and Time
- Saving in Handling & Transportation Cost
- Saving in Foundation Cost
- More Durable Structures
- Higher Earthquake Resistance
- Longer Building Service Life
- Bigger Space Savings between Columns
- Lintel & Stiffener Joint Cost Savings
- Lower Crane Capacity
- Energy Savings Benefit
- Built Sustainable Environments

The Benefits

- Extra Lightweight and Strong
- 100% Biodegradable and Recyclable
- Environmentally Friendly
- Lower Carbon Footprint
- Economic & Competitive
- No Hazards to Health
- Non Combustible
- High Resistance to Fire
- Good Thermal Insulation
- High Acoustic Insulation
- Low Water Absorption

Recycled Lightweight Concrete Advantages Over Normal Weight Concrete

INTERNAL & EXTERNAL CURING	CONTINUOUS STRENGTH GAIN
STRONG INTERFACE BETWEEN AGGREGATE & CEMENT	LIFELONG DURABILITY
MODULUS COMPATIBILITY OF AGGREGATE & CEMENT	UNIFORM STRESS DISTRIBUTION

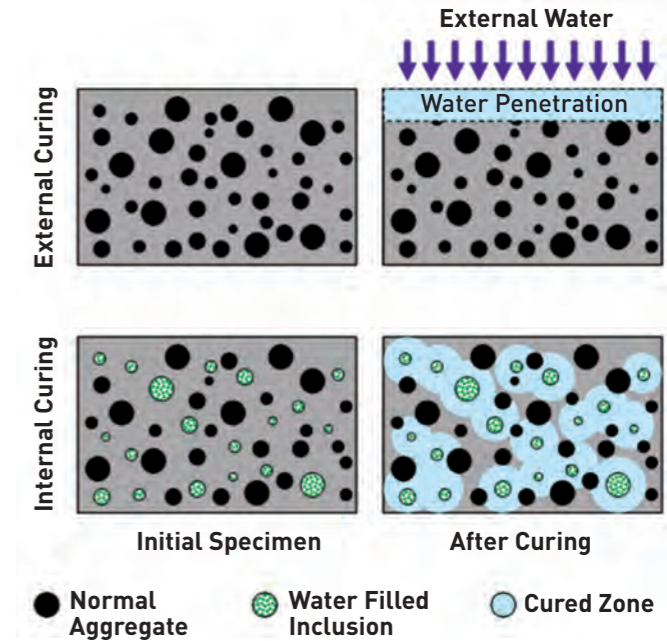


(a) Image of structural lightweight concrete with a dense matrix structure; (b) Image of lightweight aggregate concrete with open pore structure; (c) Image of lightweight aggregate concrete with a porous matrix filling the open pore structure

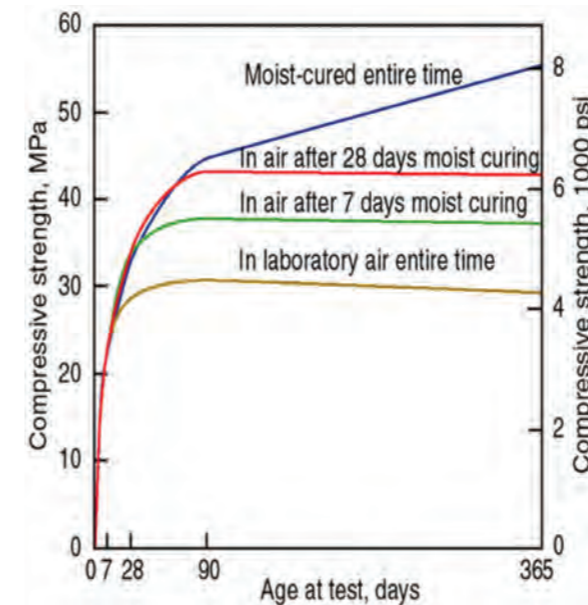


Launching of Lightweight Concrete Ship U.S.S. SELMA in 1919

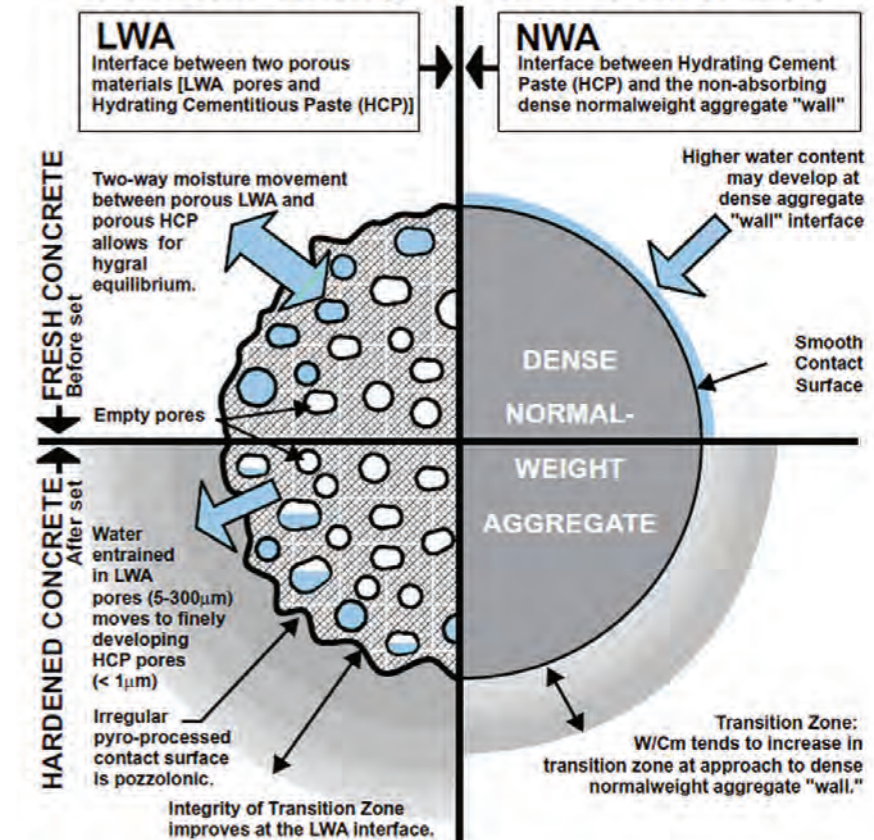
Year 1919 : 26.7 MPa
Year 1980 : 55.2 MPa



LIGHTWEIGHT CONCRETE EXCEPTIONAL PERFORMANCE



Internal Curing at the Contact Zone



We Are The Innovator

The technology of LiGrA are in consistent collaboration with the Institute of Higher Learnings from some reputable universities, professionals and industrial players into advance building material for the construction industry. Our new formulations and customisation yield many new products that offers cost-effective, high-quality solutions and to keep abreast of the technology and break new frontiers. Our advance R&D lab and dedicated professional scientists and engineers continuously keep developing new sustainable green products for the future. In line with the world GO GREEN PLAN.



Lightweight Green Aggregates

Application



**Thermal Insulation
 (Roofs, Floors, Fire Doors)**



Heat Resistant Plaster & Dry Mortar



Heat Resistant Paints & Wallpapers



PPVC & PBU Precast



Lightweight Building Materials



Lightweight Ready-Mix, Concrete & Industrialised Building System (IBS)



Floating Concrete & Structure



Insulation of Pipeline in Oilfield



Lightweight Fillers for Ceramic and Polymeric Products



Geotechnical Applications (Retaining Wall, Soil Stability & Foundation)



Wastewater Treatment



Automotive Body Composite



Hydroponic Media



Filtration Media



Decorative Materials



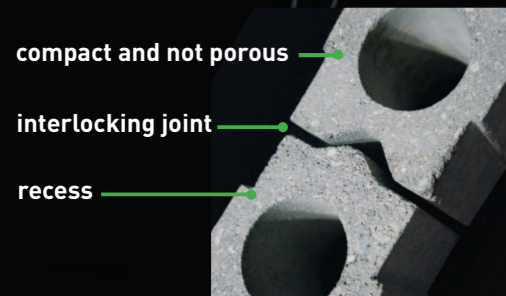
Waste Materials



Minimum 30% RCAs



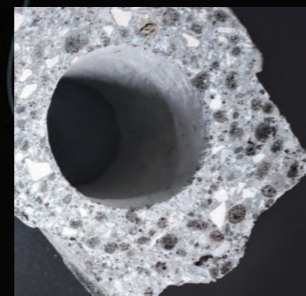
JOE GREEN PANEL DESIGN & RECESS



compact and not porous

interlocking joint

recess



XS/X5

Thickness : 75 - 200mm
 Nominal Weight : 128 - 281 kg/m²
 Fire rating : 1 - 4 Hours
 Sound Insulation : STC 47 - 58
 Nominal Density : 2,200 kg/m³
 Water Absorption : 6%
 Compressive Strength : >40 MPa

X3

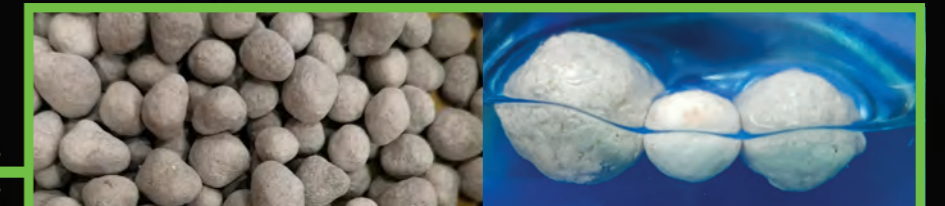
Thickness : 75 - 200mm
 Nominal Weight : 93 - 204 kg/m²
 Fire rating : 2 - 4 Hours
 Sound Insulation : STC 45 - 54
 Nominal Density : 1,600 kg/m³
 Water Absorption : 11%
 Compressive Strength : >25 MPa

X2

Thickness : 75 - 200mm
 Nominal Weight : 84 - 166 kg/m²
 Fire rating : 2 - 4 Hours
 Sound Insulation : STC 41 - 50
 Nominal Density : 1,300 kg/m³
 Water Absorption : 14%
 Compressive Strength : >15 MPa

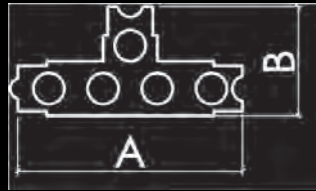
X1

Thickness : 75 - 200mm
 Nominal Weight : 58 - 115 kg/m²
 Fire rating : 2 - 4 Hours
 Sound Insulation : STC 39 - 48
 Nominal Density : 900 kg/m³
 Water Absorption : 15%
 Compressive Strength : >5 MPa



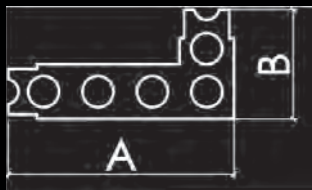
- Content : Lightweight Green Aggregates
- Characteristic : Xtra Light, Solid, Strong
- Performance : Lighter Than Other Hollow-Core Wall Panels
- High Fire Resistance
- Low Water Absorption
- High Sound Insulation
- Better Compressive Strength
- Green & Environmentally Friendly
- Economic & Competitive
- Skim Coat Finishing Only

T-Joint



Thickness available	Dimension
75mm, Ø 40mm	: A=290mm : B= 143mm
90mm, Ø 58mm	: A=290mm : B= 185mm
100mm, Ø 64mm	: A=290mm : B= 195mm
150mm, Ø 40mm	: A=290mm : B= 270mm
200mm, Ø 64mm	: A=290mm : B= 350mm

L-Joint



Thickness available	Dimension
75mm, Ø 40mm	: A=290mm : B= 143mm
90mm, Ø 58mm	: A=290mm : B= 185mm
100mm, Ø 64mm	: A=290mm : B= 195mm
150mm, Ø 40mm	: A=290mm : B= 270mm
200mm, Ø 64mm	: A=290mm : B= 350mm

Other Special Customization Available

- Width: 100mm, 200mm, and 300mm
- Numbers of Tensile Wire : 8 - 12 nos
- Solid Panels
- M&E Recess
- Groove Lines
- Noise Barrier Panel
- Anti Blast Design with Rebar and Grouting
- Stiffener Panel with Rebar and Grouting

Customized

Width	: 600mm, 300mm, 200mm, 100mm
Thickness available	: 200mm, Ø 64mm 150mm, Ø 40mm 100mm, Ø 64mm 100mm, Ø 40mm 90mm, Ø 58mm 75mm, Ø 40mm

Note: Solid Panels Available (Except 75mm) Customized Panels Available

Standard (XS / X5)

Standard (XS / X5)	Max Panel Height
200mm Solid	: max 6.0m (with wire)
150mm Solid	: max 6.0m (with wire)
100mm Solid	: max 6.0m (with wire)
200mm, Ø 64mm	: max 6.0m (with wire)
150mm, Ø 40mm	: max 6.0m (with wire)
100mm, Ø 64mm	: max 5.2m (with wire)
100mm, Ø 40mm	: max 6.0m (with wire)
90mm, Ø 58mm	: max 4.5m (with wire)
75mm, Ø 40mm	: max 3.3m

Note: Panel above 3.3m will be wired for safety & impact strength

X1 & X2 & X3

X1 & X2 & X3	Max Panel Height
X1 100mm, Ø 64mm	: max 5.2m (with wire)
X1 100mm, Ø 40mm	: max 6.0m (with wire)
X2 100mm, Ø 64mm	: max 5.2m (with wire)
X2 100mm, Ø 40mm	: max 6.0m (with wire)
X3 100mm, Ø 64mm	: max 5.2m (with wire)
X3 100mm, Ø 40mm	: max 6.0m (with wire)

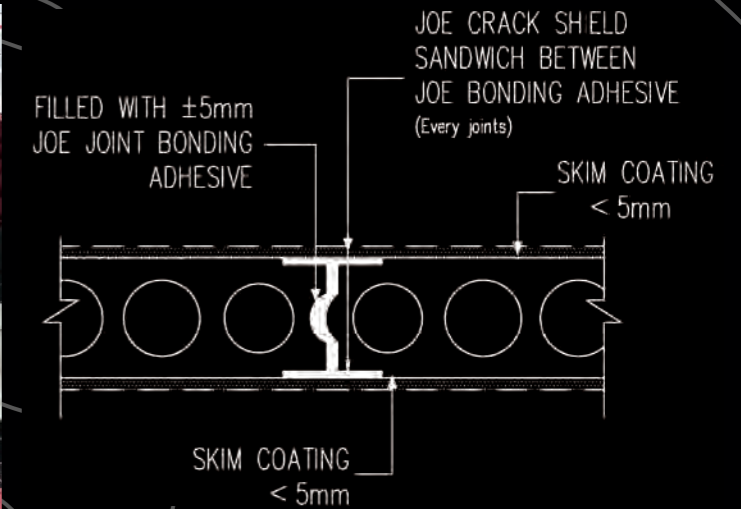
Reinforcement	: Tensile Strength
Tensile Wire	: min. 600 MPa (Ø3, Ø4.5, Ø5)
Recess Design	: depth 6mm width 40mm



Vertical Installation



Horizontal Installation



Reinforced with High Tensile Wire for Long Panel



Customized with Rebar & Grout



Functional Requirements	JOE Green Standard Concrete Panel					
	75mm (Ø40mm)	90mm (Ø58mm)	100mm (Ø40mm)	100mm (Ø64mm)	150mm (Ø40mm)	200mm (Ø64mm)
ASTM - E90						
Sound Insulation (STC)	STC 47*	STC 48*	STC 52*	STC 49* {STC 50-51**}	{STC 55}	{STC 56-58}
ASTM C 518						
Thermal Conductivity (W/m ⁰ K) K-value	0.675	0.6796	1.194	0.665	N/A	N/A
Thermal Resistance (m ² °K/W) R-value	0.111	0.132	0.0832	0.1484		
BS 476: Part 22: 1987						
Fire Resistance						
Integrity	132Mins*	68Mins*	132Mins#*	132Mins*	N/A	N/A
Insulation	125Mins*	68Mins*	132Mins#*	131Mins*		
Deflection Test (mm)	33mm	65mm	42mm	25mm		
Difference of Area Under Curve with Standard (%)	0.1	0.1	0.0	0.2		
Fire Resistance (4 Hours, Single Wall)						
Integrity	N/A	N/A	N/A	N/A	260Mins*	260Mins*
Insulation					260Mins*	260Mins*
Deflection Test (mm)					35mm	19mm
Difference of Area Under Curve with Standard (%)					-0.1	0.1
BS EN 772						
Compressive Strength - Cube	57.90 N/mm ²					
Compressive Strength - Section	42.8 N/mm ²	31.6 N/mm ²	48.2 N/mm ²	37.0 N/mm ²	50.8 N/mm ²	34.8 N/mm ²
SS 271: 1983						
Water Absorption (24 hrs Immersion) - Setsco Labs (Should Not Exceed 23.5%)	7.15 %	7.16 %	7.81 %	6.63 %	6.37 %	5.89 %
Drying Shrinkage - Setsco Labs (Should Not Exceed 0.09%)	0.05 %					
SS 492: 2001 / BS 5234 (Impact Tests)						
Determination of Partition Wall Stiffness	SD	SD	N/A	SD	N/A	N/A
Surface Damaged by Small Hard Body Impact	SD	SD		SD		
Perforation by Small Hard Body Impact	SD	SD		SD		
Damaged by Large Soft Body Impact	SD	SD		SD		
Structural Damaged by Large Soft Body Impact	SD	SD		SD		
Door Slamming	SD	SD		SD		
Lightweight Anchorage Pull-Out	Pass	Pass		Pass		
Lightweight Anchorage Pull-Down	Pass	Pass		Pass		
Heavyweight Anchorage Wash Basin (N)	1500	1500		1500		
Heavyweight Anchorage Wall Cupboard (N)	4000	4000		4000		
Horizontal Load/Crowd Pressure (3.0 kN/m)	Up to 3.0 kN/m	Up to 3.0 kN/m		Up to 3.0 kN/m		
1. Deflection (mm)	-0.04	-0.06		-1.2		
2. Residual Deflection (mm)	0	0	-0.1			
Bending Strength (N/mm ²)	10.80 N/mm ²					

Functional Requirements	JOE Green Standard Concrete Panel	JOE Green Light Panel					
	100mm Solid	150mm Solid	100mm (Ø64mm) X1	100mm X1 SOLID	100mm (Ø64mm) X2	100mm X2 SOLID	100mm (Ø64mm) X3
ASTM - E90							
Sound Insulation (STC)	{STC 54-55}	{STC 57-58}	STC 41*	N/A	STC 43*	{STC 45}	STC 47*
ASTM C 518							
Thermal Conductivity (W/m ⁰ K) K-value	0.9012	N/A	0.2306	N/A	0.535	N/A	0.4393
Thermal Resistance (m ² °K/W) R-value	0.111		0.434		0.189		0.2276
BS 476: Part 22: 1987							
Fire Resistance							
Integrity	N/A	N/A	196Mins*	N/A	132Mins*	N/A	N/A
Insulation			169Mins*		120Mins*		
Deflection Test (mm)			-3mm		12mm		
Difference of Area Under Curve with Standard (%)			0.0		0.1		
Fire Resistance (4 Hours, Single Wall)							
Integrity	260Mins*	260Mins*	N/A	240Mins*	N/A	240Mins*	120Mins*
Insulation	260Mins*	260Mins*		240Mins*		240Mins*	120Mins*
Deflection Test (mm)	5mm	23mm		8mm		32mm	25mm
Difference of Area Under Curve with Standard (%)	0.0	0.0		0.0		0.0	0.0
BS EN 772							
Compressive Strength - Cube	57.90 N/mm ²		-	-	-	-	-
Compressive Strength - Section	40.9 N/mm ²	-	3.7 N/mm ²	7.1 N/mm ²	11.3 N/mm ²	17.5 N/mm ²	19.6 N/mm ²
SS 271: 1983							
Water Absorption (24 hrs Immersion) - Setsco Labs (Should Not Exceed 23.5%)	5.57%	N/A	14.94 %	20.16 %	14.60 %	12.58 %	11.31 %
Drying Shrinkage - Setsco Labs (Should Not Exceed 0.09%)	0.05 %		0.09 %		0.08 %		0.07 %
SS 492: 2001 / BS 5234 (Impact Tests)							
Determination of Partition Wall Stiffness	N/A	N/A	SD	N/A	SD	N/A	SD
Surface Damaged by Small Hard Body Impact			SD		SD		
Perforation by Small Hard Body Impact			SD		SD		
Damaged by Large Soft Body Impact			SD		SD		
Structural Damaged by Large Soft Body Impact			SD		SD		
Door Slamming			SD		SD		
Lightweight Anchorage Pull-Out			Pass		Pass		
Lightweight Anchorage Pull-Down			Pass		Pass		
Heavyweight Anchorage Wash Basin (N)			1500		1500		
Heavyweight Anchorage Wall Cupboard (N)			4000		4000		
Horizontal Load/Crowd Pressure (3.0 kN/m)			Up to 3.0 kN/m		Up to 3.0 kN/m		
1. Deflection (mm)			-0.745		-2.334		
2. Residual Deflection (mm)	-0.2	-0.2					
Bending Strength (N/mm ²)	10.80 N/mm ²		0.8 N/mm ²		3.5 N/mm ²		4.45 N/mm ²

FOOTNOTE :
* - Varies as per thickness
- Skimcoat Finishing
NA - Not Available

REFERENCES :
(1) Quoted the report by Lightweight Concrete Journal, that the moisture of AAC wall lab test at 45% moisture content when the wall is just built. In time to come, the moisture will drop to 3.5%. The ratio of 45% and 3.5% will result in what I said 11dB drop of sound insulation.
(2) Panels and other materials which show a water absorption test should directly be connected to the length of time the test sample was submerged under water.
The relationship between these two factors are important and directly related until maximum value is reached.
(3) Requires Plastering to achieve thickness to comply Code for electrical installation - 50mm cover to Electrical Conduits, without damaging the Steel Reinforcement of ALC Panel.

PROPERTIES	COMPARISON FOR 100MM THICK WALL MATERIALS					COMPARISON FOR 100MM THICK WALL MATERIALS				
	JOE X5 (XS)	Other Panel	Red Brick	JOE X3	AAC Block Bata Ringan	ALC/GIP Panel Bata Ringan	SANDWICH PANEL (EPS)	JOE X2	Dry Wall / Gypsum Board	JOE X1
T E S T R E P O R T S										
Nominal Density (kg/m3)	2200	2200	1760	1600	550	800	720	1300	10	900
Weight (kg/m2)- 100mm thickness	135	145	160	96	80	80	72	85	100 (Frame & Insulation)	65
Maximum Height without lintel (mm)	8000*	3300	3000	6000*	3000	6000	3000	6000*	2400	6000*
Compressive Strength (MPa) Cube	49	25	2 - 4	-	4.5	4.5	-	-	NA	-
Compressive Strength (MPa) Section	42-59	15	2.5	20	2.5 - 5	5 - 7	4	11 - 17	NA	3 - 7
Water Absorption (Percentage)	6% (24-hr immersed)	5% (30-min immersed) ²	15 - 25%	11% (24-hr immersed)	35 - 60%	35 - 60%	20%	13% (24-hr immersed)	Not Usable (Dry Areas Only)	15% (24-hr immersed)
Water Absorption (Capillary) g/m ² s ^{0.5}	24	NA	NA	NA	130	190	45	11 (WP-SPEC)	Not Usable (Dry Areas Only)	NA
Air Tightness Certified	Yes	No	No	No	No	No	No	No	No	No
Thermal Conductivity (W/K.m) - 100mm (Lower is Better)	0.74	NA	1.15	0.44	0.15 - 0.25	0.15 - 0.25	0.26	0.54	0.17	0.23
Fire Rating (Hours)	1 - 4	1 - 2 (needs infill)	1 - 2	2 - 4	3 - 4	2 - 4	1 - 4	2 - 4	1 - 2 (needs infill)	2 - 4
Sound Transmission Class (STC)	49 - 58	37 - 41	37 - 42	45 - 54	35 - 40 (11dB Drop after 3-6 Mos) ¹	40 - 46 (11dB Drop after 3-6 Mos.) ¹	41	41 - 50	35 - 52 (Rock Wool) (Requires Insulation)	39 - 48
P E R F O R M A N C E S										
Buildability (Labour Saving Index)	0.85 [#]	0.85 [#]	Demerits	0.85 [#]	0.10	0.85 [#]	0.85 [#]	0.85 [#]	1.00	0.85 [#]
Productivity (m ² /manday)	20	18	6	22	12	18	18	24	23	25
Use of Green Recycled Material	Yes	No	No	Yes	No	No	No	Yes	No	Yes
Use of Flammable Material	No	No	No	No	No	No	Yes	No	No	No
Heavyweight Anchorage (4000N) Strength & Robustness	Severe Duty (Highest)	Severe Duty (Highest)	Pass (chemical & mechanical fixing)	Severe Duty (Highest)	Pass (chemical fixing)	Pass (chemical fixing)	Medium - Severe Duty	Severe Duty (Highest)	Pass (mechanical fixing-special bolt)	Severe Duty (Highest)
Customised Height Available	Yes (8M)	No	No	Yes (6M)	No	Yes (3M or 6M only)	No	Yes (6M)	No	Yes (6M)
Customised Thickness Available	75 - 200	75 - 200	100 - 230	75 - 200	100-200	75-200	100-200	75 - 200	75-150	75- 200
Wire Reinforcement (safety & strength) (Earthquake, Vibration, Movement, Impact)	High tensile wire (600 Mpa) 3-5mm dia	No	No	High tensile wire (600 Mpa) 3-5mm dia	No	BRC Mesh	BRC Mesh	High tensile wire (600 Mpa) 3-5mm dia	Metal Stud	High tensile wire (600 Mpa) 3-5mm dia
Crack Resistance Accessories	1. JOE UV Crackshield 2. JOE Bond Adhesive	Wire or Fiber Mesh	-	1. JOE Crackshield 2. JOE Bond Adhesive	Wire or Fiber Mesh	Wire or Fiber Mesh	Fiber Mesh	1. JOE Crackshield 2. JOE Bond Adhesive	-	1. JOE Crackshield 2. JOE Bond Adhesive
Stopper Cap for Hollow Insert	Yes	No	No	Yes	No	No	No	Yes	No	Yes
Joint Recess for Stronger Joints	Yes	No	No	Yes	No	No	No	Yes	No	Yes
Product Structure	Strong & Compact	Low Strength, More Sand, Less Cement	Compact, Low Strength	Strong & Compact & Lightweight	Porous, Full of Capillary, Low Strength, Potential Fungus/Molding Growth	Porous, Full of Capillary, Low Strength, Potential Fungus/Molding Growth	Porous, Low Strength, Easy to Debond, Weak Glue Adhesive	Strong & Compact & Lightweight	Fragile, Easy to Break, Lowest Strength	Strong & Compact & Lightweight
Production Process	Extrusion Flat Surface, Compact, Special Customised Machine	Extrusion on Conveyor, Potential Uneven Wavy Surface	Moulding, Potential Uneven Wavy Plate Surface	Extrusion Flat Surface, Compact, Special Customised Machine	Moulding, Potential Uneven Wavy Plate Surface	Moulding, Potential Uneven Wavy Plate Surface	Moulding, Potential Uneven Wavy Surface	Extrusion Flat Surface, Compact, Special Customised Machine	Extrusion on Metal Roller, Potential Uneven Surface, Thin & Brittle	Extrusion Flat Surface, Compact, Special Customised Machine
Finishing Application (mm)	Thin Skimcoat	Plaster + Skimcoat	Plaster + Skimcoat	Thin Skimcoat	Plaster + Skimcoat	Plaster + Skimcoat	Plaster + Skimcoat	Thin Skimcoat	Putty	Thin Skimcoat
C O S T S A V I N G S										
Plaster Material & Labor Savings	-	15-25 mm (3 Layers)	15-25 mm (3 Layers)	-	15-25 mm (3 Layers)	-	15-25 mm (3 Layers)	-	-	-
Skimcoat Material & Labor Savings (Due to Flatness & Waving)	1 - 5mm (1 Layer)	5 - 15mm (1 Layer)	5 - 20mm (1 - 2 Layer)	1 - 5mm (1 Layer)	5 - 10mm (1 - 2 Layer)	5 - 10mm (1 - 2 Layer)	10 mm (2 - 3 Layers)	1 - 5mm (1 Layer)	Rockwool & Putty	1 - 5mm (1 Layer)
Total Weight (kg/m2) (After Finishing)	155	185	260	115	140	140	122	105	105	85
Lintel Savings	Up to 8M	Every 3M	Every 3M	Up to 6M	Every 3M	Every 3M	Every 3M	Up to 6M	Every 3M	Up to 6M
Stiffener Savings	Up to 8M	Every 3M	Every 3M	Up to 6M	Every 3M	Every 3M	Every 3M	Up to 6M	Every 3M	Up to 6M
M&E Services Savings (MEP - Indonesia)	Services can be run through hollow core with minimum opening	Services can be run through hollow core with minimum opening	Require surface hacking & trimming for recess	Services can be run through hollow core with minimum opening	Require surface hacking & trimming for recess	Require surface Cutting and Trimming for recess (Max. 30mm) No cutting to BRC reinforcement	Require surface Cutting and Trimming for recess (Max. 30mm) No cutting to BRC reinforcement	Services can be run through hollow core with minimum opening	By fitting services before closing up	Services can be run through hollow core with minimum opening
Wall Fixing	L-bracket + Sleeve Anchor / H10 Dowel Bar	Bracket / H10 Dowel Bar	Wall Tie	L-bracket + Sleeve Anchor / H10 Dowel Bar	Wall Tie	Wall Panel Bracket	Wall Panel Bracket	L-bracket + Sleeve Anchor / H10 Dowel Bar	Metal Stud & Drive Pins	L-bracket + Sleeve Anchor / H10 Dowel Bar
Site Houskeeping & Wastage	Min. Wastage & Cutting due to Custom Length	More Wastage Higher Breakage	More Wet Works & High Wastage	Min. Wastage & Cutting due to Custom Length	More Wastage Higher Breakage	More patching material to M&E Works / More Debris to handle	More patching material to M&E Works / More Debris to handle	Min. Wastage & Cutting due to Custom Length	More Wastage (12 - 15%)	Min. Wastage & Cutting due to Custom Length
External Waterproofing	Joints Only	Full Surface Waterproofing	Full Surface Waterproofing	Joints Only	Full Surface Waterproofing	Full Surface Waterproofing	Joints Only	Joints Only	Not Recommended (Indoor Only)	Joints Only
Additional Scaffolding / Work Platform Savings Based on Single Tier @ 3.3M	-	-	Needs Scaffolding / Work Platform	-	Needs Scaffolding / Work Platform	Needs Scaffolding / Work Platform	-	-	Needs Scaffolding / Work Platform	-



Singapore Green Mark			Higher Scoring			
Requirements			X1	X2	X3	XS/X5
1	ENERGY EFFICIENCY	Reduced Heat Gain (ETTV)	✓	✓	✓	✓
2	HEALTH & WELLBEING	HW 1.2 HW 1.2 Material Emissions HW 2.3 Sound	✓	✓	✓	✓
3	RESILIENCE	RE 1.1 b Resources RE 1.2b Urban Heat Island Mitigation	✓	✓	✓	✓
4	WHOLE LIFE CARBON	CN 1.1 Whole Life Carbon Calculation CN 1.2 Embodied Carbon CN 1.3 2030 Transition Plan CN 2.1 Sustainable Construction CN 2.2 Sustainable Products & Finishes CN 3.2 Fit out Products	✓	✓	✓	✓
5	MAINTAINABILITY	General BIM model 1.5 Design Factor - Masonry & Lightweight Concrete Panel 1.5.1 Reduce risk of Water ingress and Efflorescence formation 1.5.2 Reduce risk of façade flaking/peeling/cracking /blistering 2.5 Basement and Car Park	✓	✓	✓	✓



malaysia green building index		Higher Scoring			
Applicable GBI Credits	Criteria	X1	X2	X3	XS/X5
1	Energy Efficiency Minimum Energy Efficiency Performance	✓	✓	✓	✓
2	Indoor Environmental Quality Indoor Air Pollutants Mould Prevention Internal Noise Levels / Sound Installation IQA Before & During Occupancy	✓	✓	✓	✓
3	Sustainable Planning & Management Sustainable Construction Qlasic - Quality Assessment System for Building IBS - Industrialised Building System	✓	✓	✓	✓
4	Material & Resources Material Reuse & Selection Recycled Content Materials Regional Materials Material Manufacture & Ingredients Storage & Collection of Recyclables Construction Waste Management	✓	✓	✓	✓



Customized Design & Specification

To fit each unique project requirement and specification such as sound insulation for sound barrier and cinema, fire resistant, blasting walls as well as groove line pattern. We are able to modify number of hollows, different embedded tensile wire from 8 to 12 wires as well as solid panel. We also provide different kind of thickness, L and T Joint as well as accessories to prevent crack issues and ease of installation.

Noise Barrier Wall with Groove Line Design



Block Size for Special Order – All Thickness and Models



Pattern Walls Design

HIGH QUALITY SUPER FLAT SKIM COAT ONLY
SGBC LEADER

LOW WATER ABSORPTION
LOW WATER CAPILLARY
HIGH WATER TIGHTNESS
LESS WATERPROOFING

HIGH FIRE INSULATION

HIGH SOUND INSULATION

AIR TIGHTNESS

HOSPITAL

8M
CUSTOMIZED DESIGN & SIZES
EASY HOUSEKEEPING

MINIMUM LINTEL AND STIFFENER
STRUCTURAL COST SAVING

STRENGTH & SAFETY

Wire Reinforcement for Strength & Safety

Solid = 1.2 Ton
Hollow = 400Kg

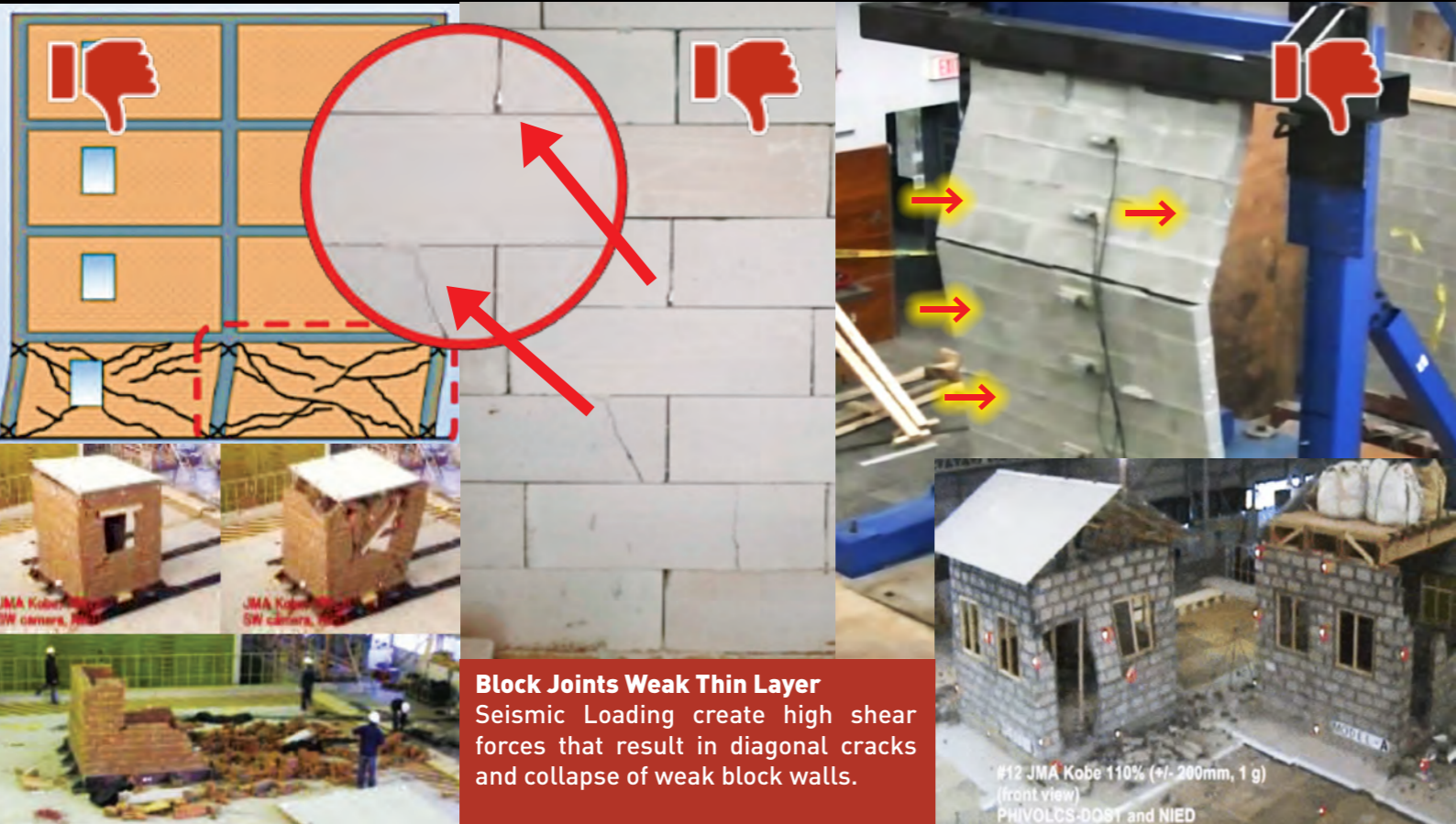
ROBUST, FAST EASY M&E

FAST INSTALLATION
NO SCAFFOLDING

LESS WASTAGE

IMPACT RESISTANT

Seismic Activity AAC Block/Brick VS Panels



Block Joints Weak Thin Layer
Seismic Loading create high shear forces that result in diagonal cracks and collapse of weak block walls.

#12 JMA Kobe 110% (+/- 200mm, 1 g)
(front view)
PHIVOLCS, DOBT and NIED

PRODUCT:
JOE Green Wire-Reinforced Panel

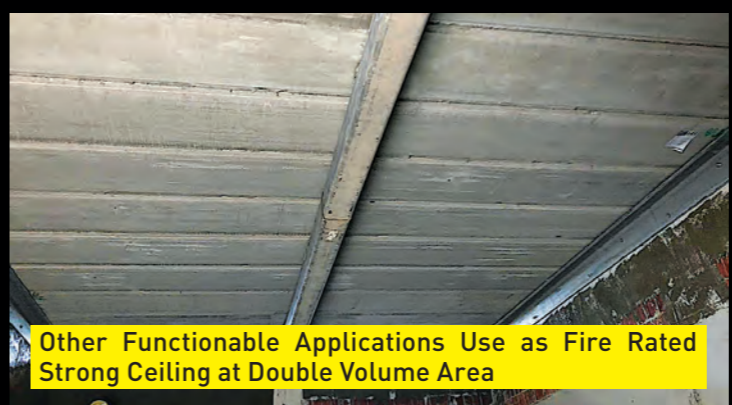
INCIDENT:
Hit & Damaged by Forklift

LOCATION:
Tampines Warehouse L3

SOLUTION:
Easily Repaired by Patch & Grout



Damaged Accidentally Hit by Forklift



Other Functionable Applications Use as Fire Rated Strong Ceiling at Double Volume Area



Heavy-Load Mounting Capability
Normal Sleeve Anchor M8 Per Point up to 400KG (Hollow Section) & 1.2 Ton (Solid Section)



Live Load

Panel Systems & Wire Reinforcement for Security

Wall Panel Systems with Wire
High shear strength coupled with strong end connections help to resist the high shear force of Seismic Loading



PANEL EARTHQUAKE RESISTANT



Wire Reinforced Panel Joints Solid, Strong, Full Contact Minimize Seismic Impact

Earthquake Proof Building Design - Chile



Wire Reinforcement for Strength & Safety



Air Tightness Test for Hospital (NCID)



AIR TIGHTNESS TEST
Air Transmission = 0% TUV Certified

Water Tightness Test for External Wall



WATER TIGHTNESS TEST = 0% SEEPAGE



JOE Joint Bonding Adhesive
Is a pre-blend high polymer cement, specially sized inert aggregates and approved chemical additives. It is a cement based adhesive, specially designed for fixing panel and blocks. The formula has excellent workability to help minimize crack and shrinkage. By just adding in the required amount of water and mixing, it is ready for application.

Technical data (typical) :
Weight : 40 kg/bag Setting Time : Initial - 5 hours
Density : 1.4 gm/cm³ Consumption (approximate) :
Open Time : 30 minutes 1 bag = 6 m² - 8 m²

- Instructions for use :**
- 1 Surface of application for the adhesive must be free from dust, oil and or any contamination. Moist surface with water spray before application.
 - 2 Mix 26% to 28%, 10 - 11 litre of water by volume.
 - 3 Adhesive must be added into water during mixing.
 - 4 Must use an electric mixer to mix the adhesive for around 5 minutes. The mix must be homogenous.
 - 5 The mix must be used within 30 minutes after mixing.
 - 6 Application to big gap by handheld pump to ensure proper and sufficient infill and bonding contact.



APPLICATION

- Internal & External Wall joints
- Inner and Outer Corner Beads
- Structural to Wall Connections.



TYPE	WIDTH/THICKNESS	LENGTH	UNIT/CARTON
ROLL	50 mm/0.5 mm	40 M	10 Rolls

DESCRIPTION
JOE Crackshield is manufactured from special formulated UPVC as a joint reinforcement tape with high tensile strength to resist tearing, stretching and distortion. It is a flexible-centered joint to allow for movements and designed for usage with JOE Joint Bonding Adhesive for :

1. Reinforcing joints at inner corner, outer corner, structural joints between column, beam and ceiling.
2. Better performance in resisting crack due to thermal, stretching and other distortions compared to other fibre & wire meshes.
3. Improving water resistant and minimize water seepage through the joint when used at external and wet area.
4. Designed with perforations to provide a superior key grip for bonding between substrate.
5. Designed with flexible center creasing and uniform winding promote accurate and easy application to angles (corner treatment) and angle beading as well as flat joints with length of 40 metre per roll.



- Specially designed for capping off to fit to hollow core opening at top of JOE Green Concrete Wall Panels for size 40mm and 58/64mm diameter hollows.
- Easy handling and application compared to using backer rod, sponge and other infill material as stopper.
- Prevent water ingress and logging within hollow cores at external wall during in process work.
- Help prevent wastage of bonding adhesive dropping into hollows and ensure compactness of grouting.
- Improve panel grid at top joints as stopper form a key profile, enhance contact surface thus minimizing any potential movements due to insufficient grip and bonding contact surfaces.

TYPE	DEPTH	DIAMETER	UNIT/CARTON	APPLICATION
Capping (PP)	30mm	40mm	500 Pieces	To all TOP hollow cores of wall when installing vertically or to both sides of wall when installing horizontally
	20mm	58/64mm	500 Pieces	



JOE BOND
JOINT BONDING ADHESIVE



JOE ACCESSORIES
GAP PUMP



JOE ACCESSORIES
CRACKSHIELD



JOE PIM
PANEL INSTALLATION MACHINE



JOE ACCESSORIES
STOPPERCAP



JOE SAFETY EQUIPMENT
SAFETY SHOES



JOE SAFETY EQUIPMENT
TOOLS BAG



JOE ACCESSORIES
ACRYSHIELD



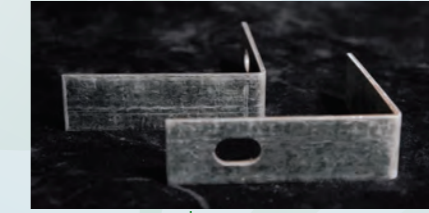
JOE ACCESSORIES
SLEEVE ANCHOR



JOE SAFETY EQUIPMENT
SOCKS



JOE ACCESSORIES
GRAVITY ANCHOR



JOE ACCESSORIES
L BRACKET



JOE SAFETY EQUIPMENT
MASKER

PUBLIC DEVELOPERS



DEVELOPERS



ARCHITECTS



MAIN CONTRACTORS



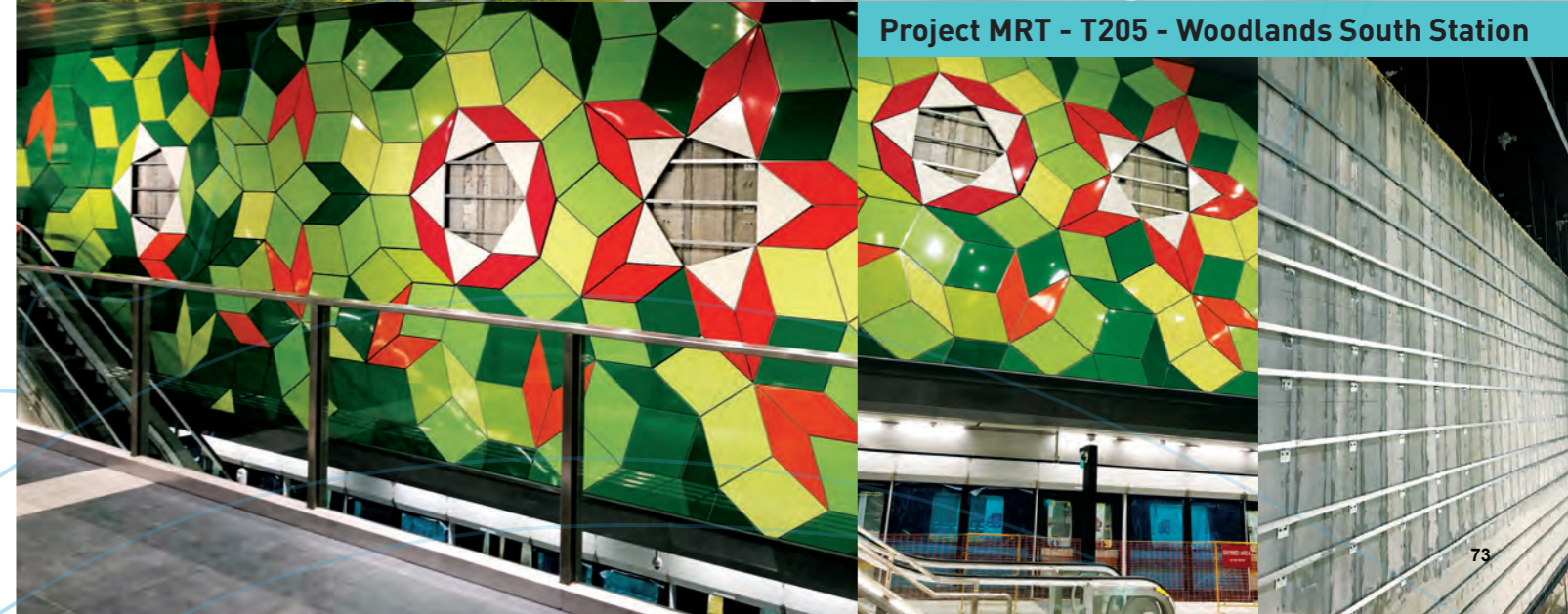
Land Transport Authority

CHANGI airport singapore
JEWEL CHANGI AIRPORT

Efficient & Cost Effective Noise Barrier Walls



Project MRT - T205 - Woodlands South Station





STARS OF KOVAN



ROYAL SQUARE
 AT NOVENA



Hillion

MARINA ONE
 Residences | Offices | Retail

Northpoint City **NORTH PARK**
 RESIDENCES





THE WOODLEIGH RESIDENCES

THE WOODLEIGH MALL

SOUTH BEACH

EON SHENTON

V ON SHENTON

DUO[®] RESIDENCES.OFFICES.RETAIL.HOTEL



Paya Lebar Quarter Mall



Paya Lebar Quarter



King Albert Park (KAP)



Le Quest @ Bukit Batok West Avenue 6



SENGKANG GRAND RESIDENCES



FUNAN, comprises a retail component, two office blocks and lyf Funan Singapore serviced residence



ONE KM

ONE HOLLAND VILLAGE Residences



Twin VEW Condominium



Martin Modern Condominium



THE CREST Condominium



Principal Garden Condominium



Alexandra Primary School



Waterwoods EC at Punggol Field Walk



D'Nest Condominium at Pasir Ris Grove



Sennett Residence Condominium



18 Woodville Condominium



Sant Ritz Condominium



COMMONWEALTH TOWERS

QUEENS PEAK

THE triling
御品居

Centennia
suites

M MARGARET
VILLE

GEM
RESIDENCES
CLUB - CONDO

EDEN

THE ALPS Residences



18 Woodsville Condo

Sant Ritz Condo

Sennett Residence

Park Colonial Condo

The Woodleigh Residences

HDB Bidadari

A New Facelift of Upper Serangoon Rd



Coco Palms Condominium



Seven Palms Sentosa Cove



Ripple Bay Condominium at 2 Pasir Ris Link



The Greenwich Residential



Forest Woods Residences



The Amore EC at Edgedale Plains



THE TOPIARY Executive Condominium



THE LAKEFRONT RESIDENCES Condominium



Ecopolitan EC at Punggol Walk



The Tapestry Condominium



Sky Park Residences Executive Condominium



Thomson Impressions Condominium



Bartley Ridge Condominium



Sea Esta Condominium



KOVAN REGENCY Condominium



Waterfront Gold Condo at Bedok Reservoir Rd



THE INFLORA Condominium



euHabitat Condominium



SKY GREEN Condominium



WILSHIRE RESIDENCES



SIGNATURE AT YISHUN Executive Condominium



PARC Life Condominium



ROYALGREEN Condominium @ Bukit Timah



15 Holland Hill



Grandeur Park Residences Condominium



Seventy St Patrick's Condominium





BIDADARI ESTATE

Alkaff OASIS

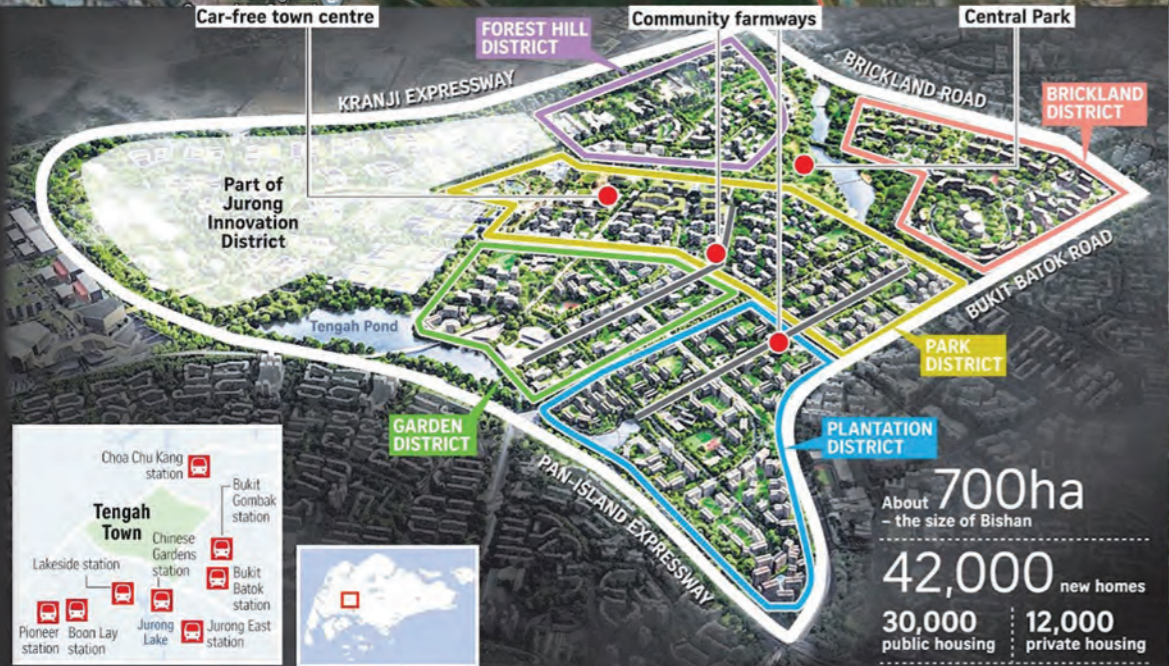
Alkaff LAKEVIEW

Alkaff COURTVIEW





"TENGAH The Next New HDB Town Project"



700ha
 About the size of Bishan

42,000 new homes
 30,000 public housing | 12,000 private housing



Integrated Care Hub (ICH)



HOMETEAMNS KHATIB



NTUC Health Nursing Home (Chai Chee)



St. Andrew's Nursing Home at Jalan Penjara



Mandalay - Novena



Ren Ci @ Ang Mo Kio (Nursing Home)



National Cancer Centre Singapore



NATIONAL SKIN CENTRE (NSC) Singapore

BCA ACADEMY
 of the built environment

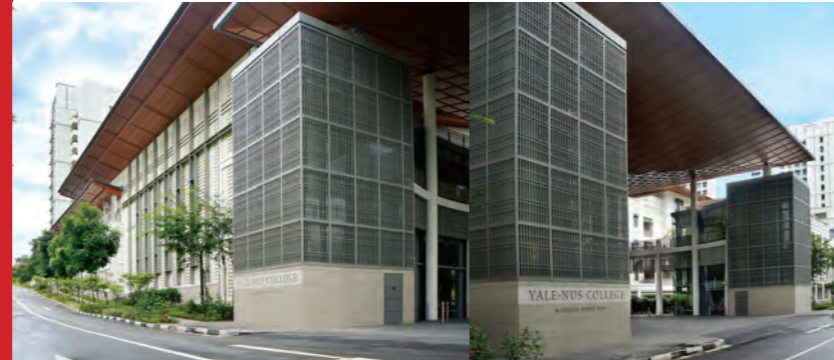


LEE KONG CHIAN
 SCHOOL OF
 MEDICINE
 NTU Yunnan Garden Campus

SWTAD
 SINGAPORE UNIVERSITY OF
 TECHNOLOGY AND DESIGN

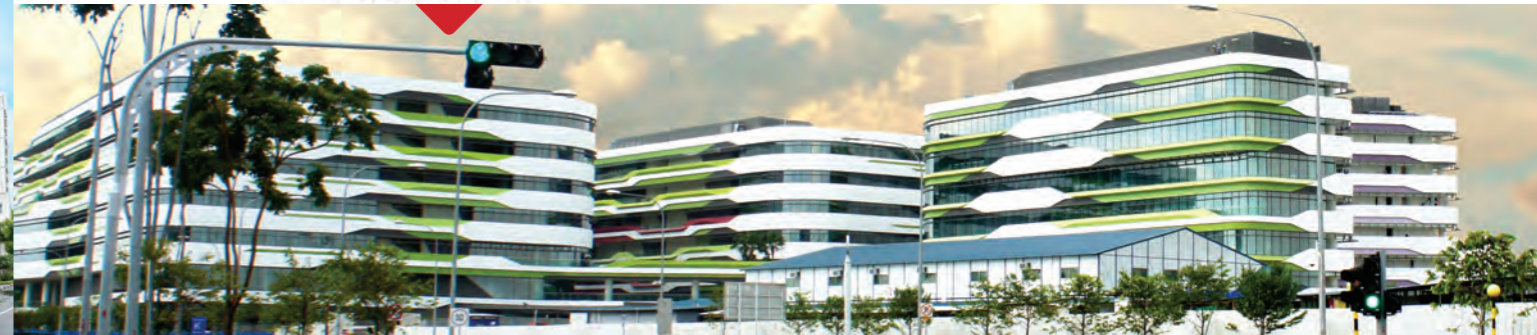


NUS
 National University
 of Singapore



YaleNUS College

NUS
 National University
 of Singapore

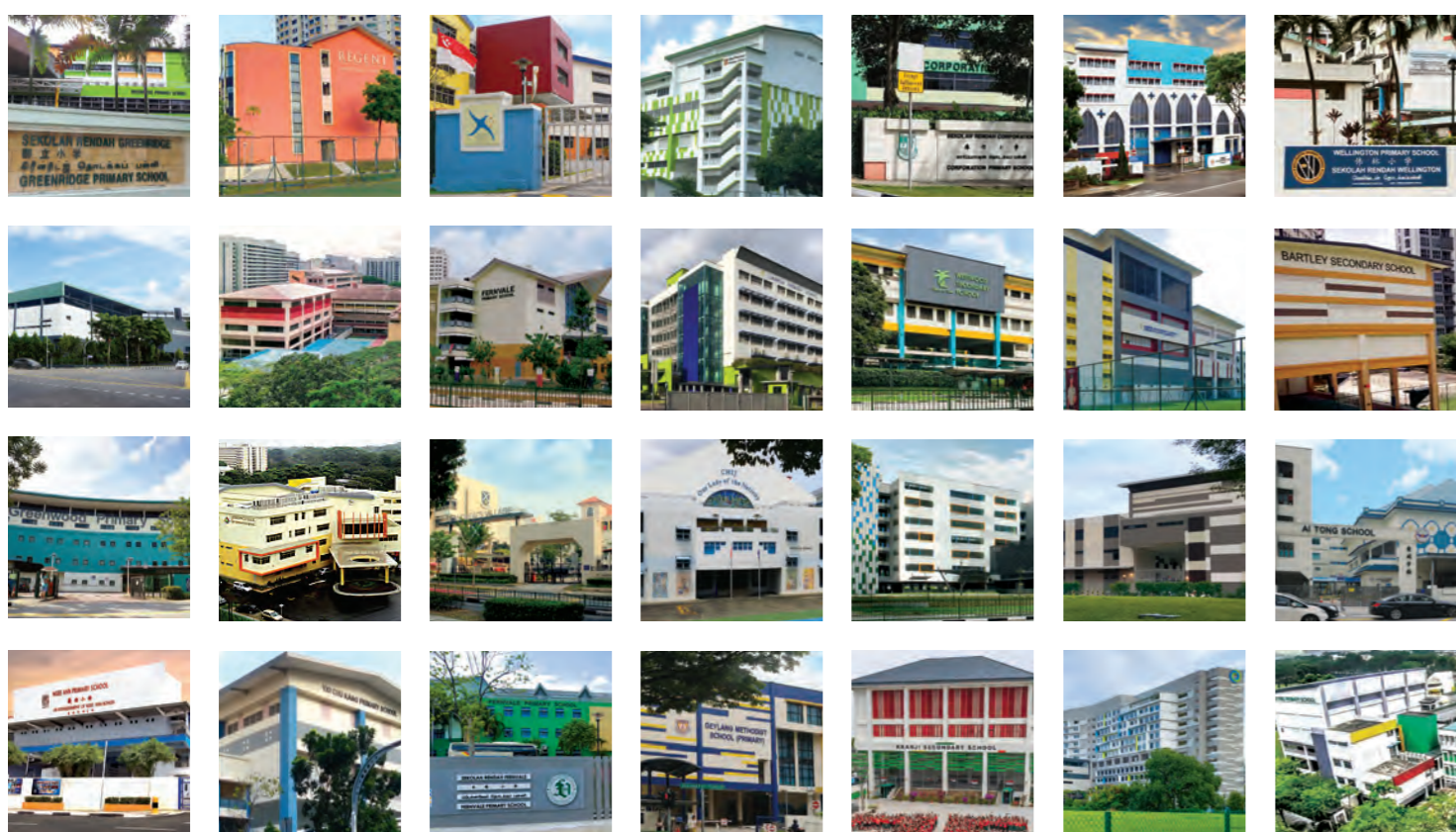


**NANYANG
 TECHNOLOGICAL
 UNIVERSITY**
 SINGAPORE





More Than Hundred Schools Projects in Singapore





Professional Choice



Singapore Chinese Cultural Centre (SCCC)



OUE Downtown



SBF Center

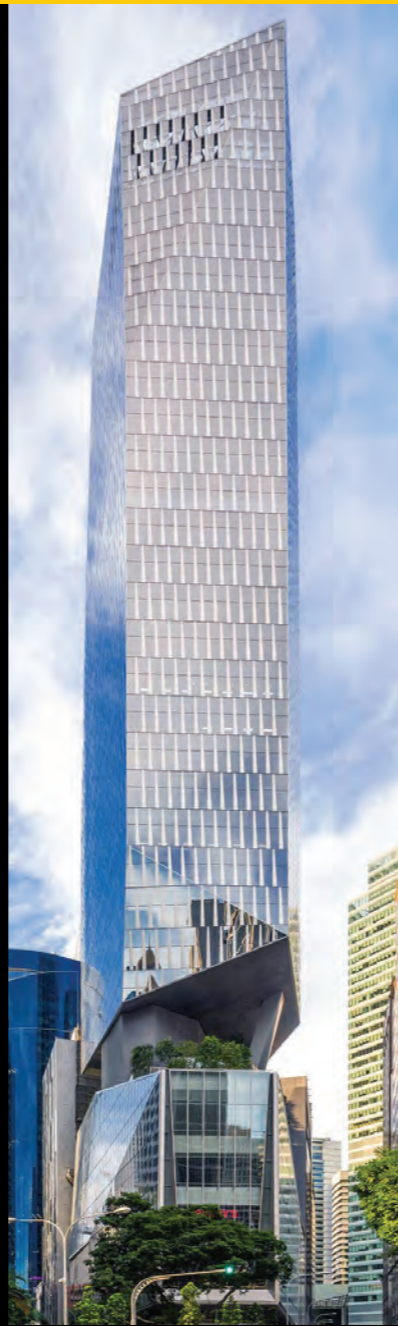




Hotel Boss



AXA Tower at 8 Shenton Way



Robinson Tower Redevelopment



CapitaSpring at 88 Market St



Guoco Tower at Tanjong Pagar Centre



New PSA Corporate HQ



InterContinental Singapore Robertson Quay



Orchard Hotel Singapore



woods square

High-Tech Industrial Buildings



Industrial Development at Ang Mo Kio Street 65 for ST Electronics



JTC MedTech Hub @ MedTech Park



JTC Furniture Hub @ Sungei Kadut



NORDCOM I

NORDCOM II

T-SPACE

proxima GAMBAS



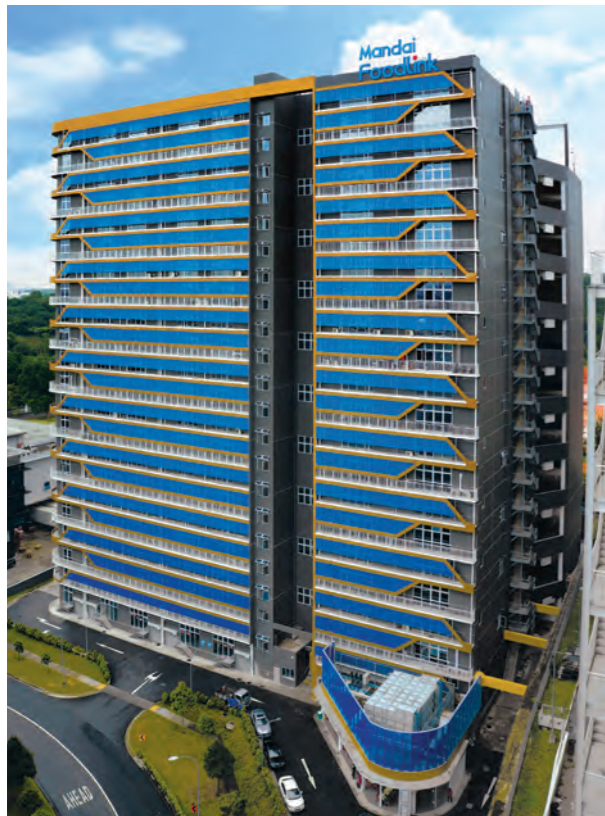
THE WESTCOM at 1 Tuas South Avenue 6



JTC Business Aviation Complex at Seletar



Tagore 8 at 421 Tagore Industrial Avenue



Mandai Foodlink at 5 Mandai Link



Micron 300mm NAND Facility at 1 North Coast Drive



JTC Chemicals Hub @ Tuas South



Data Center at Loyang Drive



6 Storey Warehouse at 47 Jln Buroh



The InDex @ Tuas South Ave 3



COSL (Singapore) at 3 Benoi Rd



External Facade



Industrial Building With Ancillary Office at Tuas South Link



STTelemedia Global Data Centres at 51 Defu Lane 10



Jurong Shipyard Office at Tuas South Boulevard / Tuas View Extension



Mandai Link Logistics' Warehouses-Cold Storage at Mandai Link



Using panel 5.2m height for external wall and window opening



EATON RESIDENCES at Kuala Lumpur, Malaysia



MERIDIN EAST



FOREST CITY Projects (Plot 4 - Phase 1, Plot 26 - Phase 2, Plot 26 - Phase 4), Johor Bahru, Malaysia



THE AMERALD Resort Hotel at Pengerang, Johor, Malaysia



Taman Pelangi Indah Sales Gallery by SP Setia



Holiday Inn Johor Bahru City Centre



Sky Habitat @ Meldrum Hills, Johor Bahru, Malaysia

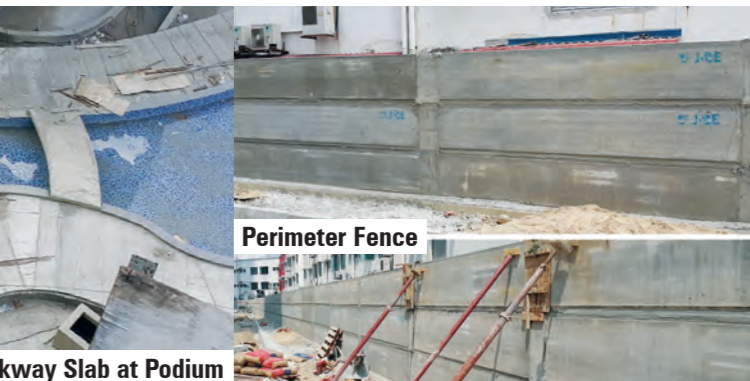


Walkway Slab at Podium

GRANDVIEW 360° Condominium, Johor Bahru, Malaysia



Warehouse, Chemical and Paint Store for Malaysia Marine and Heavy Engineering Sdn Bhd, Johor, Malaysia



Perimeter Fence



Sierra Perdana - Johor Bahru



Brickfields - Kuala Lumpur



Ecoworld Business Park - Johor Bahru

Nilai District Police Headquarters, Malaysia



Additional Buildings In Johor State CIDB Complex at Jalan Tampoi, Johor Bahru, Malaysia



ISKANDAR Residences Medini @ Nusajaya, Johor Bahru

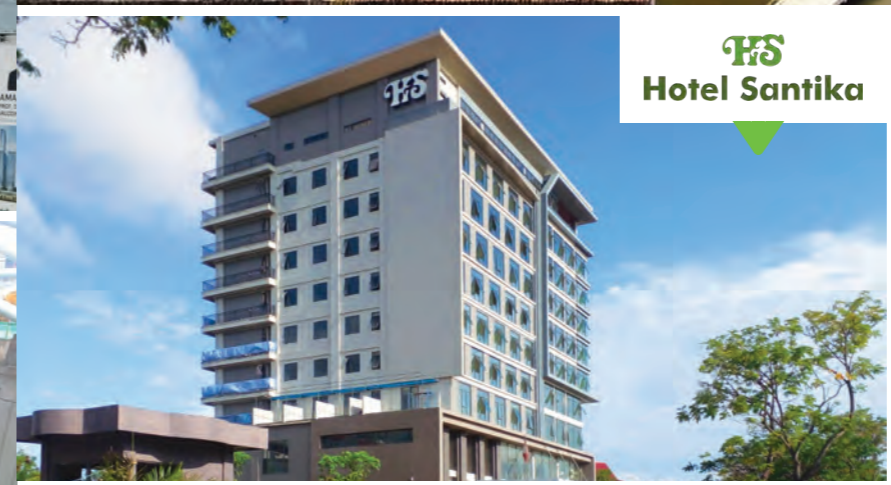


PS Jalan Reko Kajang for Petronas



Marlborough College Malaysia, Johor





HS
Hotel Santika



GRII BATAM
 Gereja Reformed Injili Indonesia



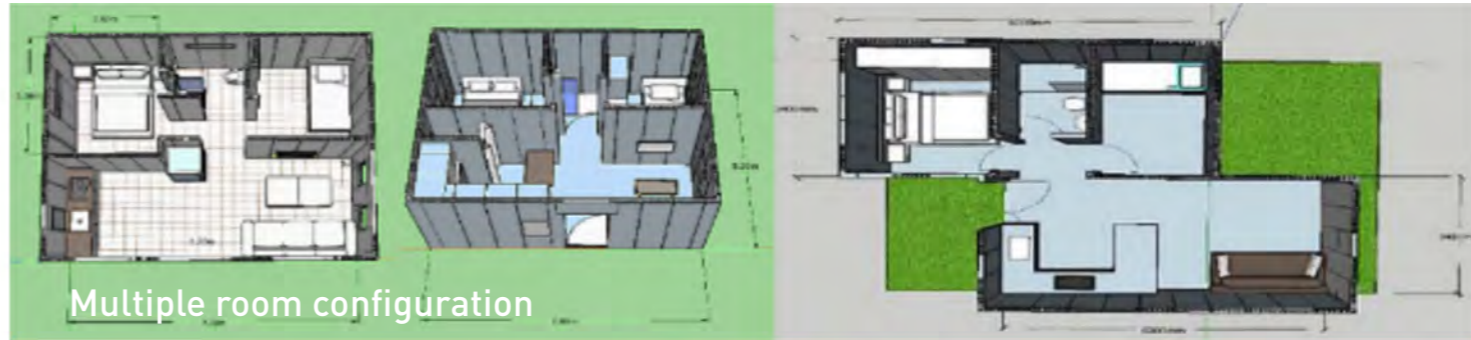
Gereja Reformed Injili Indonesia (GRII) Batam, Indonesia

Hotel santika Batam, Indonesia



LiGrA™
Lightweight Green Aggregates

Affordable Housing Using JOE Green Wall Panel System



Multiple room configuration

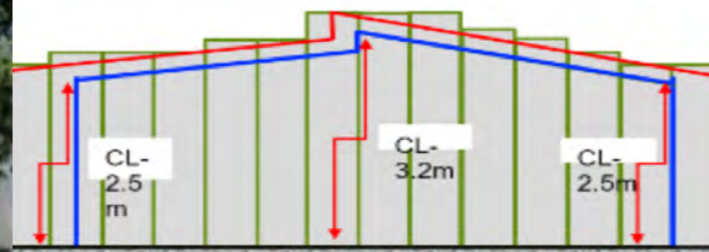
Semi-D : Low-cost Housing w/ Piched Roof / Flat False Ceiling
Partition Wall Between Unit to use JOE Panel & Duplicate for Terrace Layout



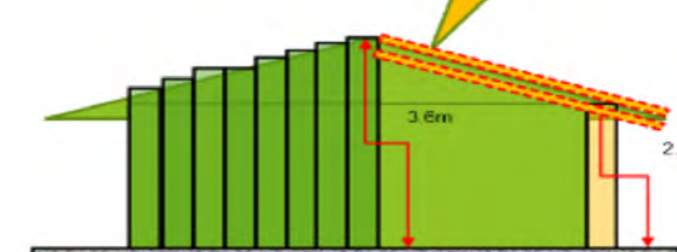
Typical Terrace Facade can duplicate the front entrance design



Roof Pitch approx. 15 Deg.



Concept Roofing Design as photo with stagger roof profile for Modern Look



Gable end / corner Unit can have similar treatment.

✓ No In-Situ Structural Columns

✓ Fast & Simple Construction

✓ High Quality

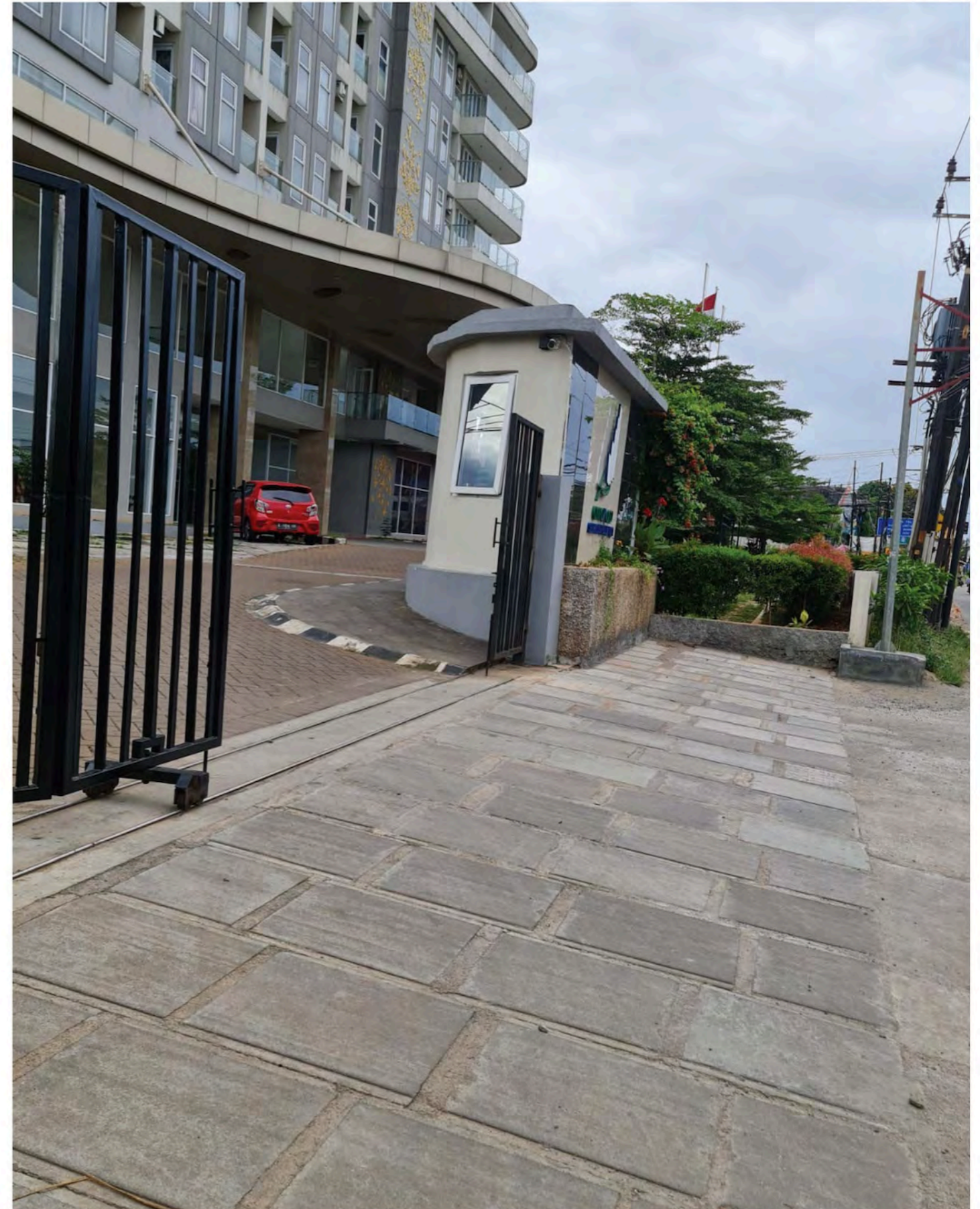


JOE Green Wall Panel System for Affordable housing / Worker Dormitory / Etc.



- Reinforcement bar
- Rebar for stiffeners
- C-Channel or Capping Beam

Using JOE Green Wall Panel System for Concrete Flooring Slab.





JOE Green Lightweight Concrete Panel has received an Excellent rating certification mark from SGBC and TÜV SÜD PSB at SGBC-BCA Sustainable Leadership Awards Gala Dinner 2016. Today, JOE Green Concrete Panel has been awarded the rating Leader under SGBC product certification scheme



Managing Director of JOE Green, Mr. Boediman Widjaja, received a trophy as one of the winner Asia Green Business Awards 2015/16 in BEI Asia Awards 2015/16 for JOE Green Lightweight Concrete Wall Panel product



Director of Joe Green, Ms. Cindy Lim, received a trophy in Singapore Brands 2012 Gala Dinner Night, 28 April 2012



Ms. Charlina Lim from JOE Green was receiving a trophy as one of the winner of Asia Green Business Awards 2017 in BEI Asia Awards 2017 for JOE Green Lightweight Concrete Wall Panel product



Mr. Boediman Widjaja and Ms. Charlina Lim represented JOE Green to receive a trophy as one of the winner of Enterprise 50 Awards. E50 recognises the enterprises whose journey to innovation is helping to shape a sustainable future.

We had honorary guests visiting JOE's plant, HQ and project sites to observe our usage of recycle concrete aggregates and waste materials for eco-friendly green products, to make our earth more sustainable.



Petronas and Dua Medan Construction Sdn Bhd Team



Construction Industry Development Board Malaysia (CIDB) with 40 PKMM (Persatuan Kontraktor Melayu Malaysia)



China Communications Construction



Sunway Construction Sdn Bhd visited Tiong Woon Corporation's Warehouse project site



Country Garden Pacificview Sdn Bhd for Forest City, Gelang Patah



SKS Group and Atria Architects visit JOE Green's project site Holiday Inn JBCC



An honour to have the Ambassador of the Republic of Indonesia H.E. Suryo Pratomo visit JOE Green HQ and Lab at Amazana Building Singapore



An honour to have the Ambassador of the Republic of Indonesia H.E. I Gede Ngurah Swajaya visit JOE Green HQ at Amazana Building Singapore



Ministry of Manpower (MOM) Singapore visited The MKZ Condominium project site



CEO of Housing and Development Board (HDB), Dr Cheong Koon Hean, visit HDB project site at Sengkang East Road



JOE Green's prestigious project Pollux Habibie Meisterstadt Batam residential towers topping-out ceremony on April 2019



BCA's Super Low Energy Buildings Department Environmental Sustainability Group visit JOE Green Lab



ECOWORLD Development Group



MCL Land Ltd, Lum Chang Building Contractors Pte Ltd, P&T Architects & Engineers Ltd



Lum Chang Building Contractors Pte Ltd



AESLER Architects Indonesia (PT. Aesler Grup Internasional)



PT PP Tbk visit JOE Green HQ in Singapore for their Indonesia construction projects



Nan Shan Group, Bintan - Indonesia & China



Woh Hup, construction and civil engineering specialist company



Pulau Intan



Shimizu Corporation and ExxonMobil Asia Pacific Pte Ltd



Teambuild Singapore



Straits Construction Pte Ltd



JOE Green visits HLH Group HQ in Cambodia to see the projects and potential set up new factory



Obayashi Corporation visited Ripple Bay Condominium Singapore project site



Mr. Richard Koh, MD of Nawarat Group - Thailand



Chiu Teng Enterprise



Daewoo Engineering & Construction Co. Ltd.



Nippon Paint Singapore

Singapore



Malaysia

Malaysia



Indonesia



India



China



Hong Kong



Hong Kong



Australia



New Zealand



USA



USA



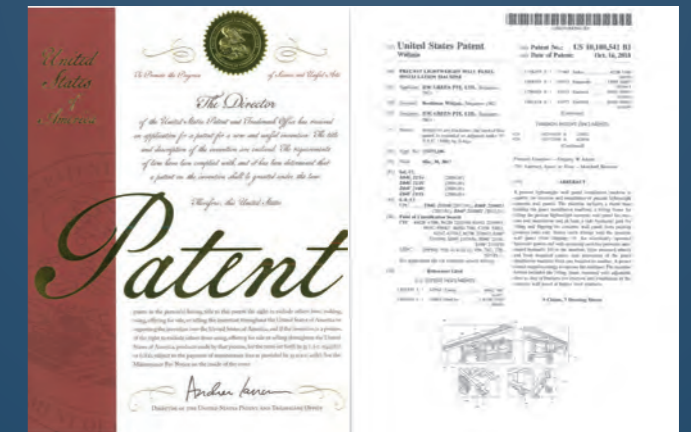
Cambodia



European Union

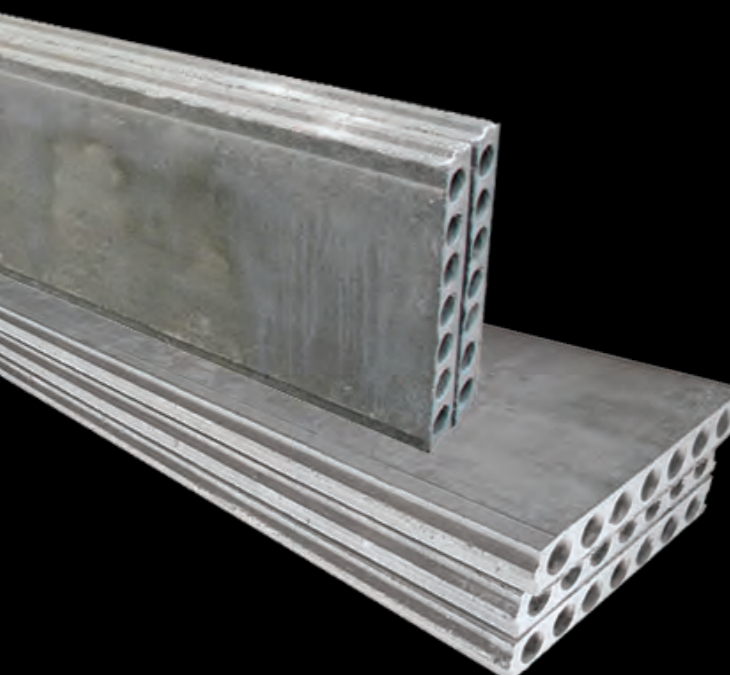


USA



Professional Verdicts :

“The Right Wall Panel for Every Construction”



“Our project hotel Santika Batam had completed in December 2019. We would like to thank JOE Green Team for the full support. We have been satisfied using your products, in terms of cost savings, time and quality of products. We have other projects that may need your support again. We will contact you soon. Thank you very much.”

Frans Bambang
Manager
CV. MEGA CONTRACTOR INDONESIA

“Compare to other precast wall panels, we definitely can see the quality and precision of JOE Green panel far more better for INOAC Project.”

Tipluk Jati
Director
 PT. AGNI SATYA PERSADA INDONESIA

“JOE Green products e.g. panels, brackets and accessories are found to be in high quality standard. JOE Green wall panel system is easy to install & hence can improve productivity. JOE Green’s technical support i.e. submission of shopdrawings & details is also excellent. The technical personnel is found to be knowledgeable, responsive. JOE Green panel can be further improved if the panel use in the residential dwelling unit can be lighter in weight, currently need 3 - 4 workers to erect 1 panel”

Lim Jit Heng
Project Manager
 長龍峰建築工程有限公司
CHAN RONG FEN BUILDING CONSTRUCTION PTE LTD

“Good material. It would be important to brief customers every construction details shown in the catalogue, especially to the worker of the erector on the dos and don’ts”

Mdm Eng Y H
Project Manager
 三達利建設私人有限公司
SANTARLI CONSTRUCTION PTE LTD

“We have been with JOE Green for many years. Their product quality is good & have a broad product range.”

Ivy Toh
Contract Manager
 WOH HUP
BUILDING WITH INTEGRITY

“We are the 1st time work with JOE Green and very satisfy with JOE Green product quality.”

Tan Teck Chong
Senior Project Manager
 PSYCON SDN BHD

“Installing Joe Green product is very easy. All the material accessories were designed to make it easy. Joe Green product also can be cut to size required, so it can speed up the installation time. We experience those things in one of our project in PIK 2.”

Setyowati K
Director
 PT. BARA BINTANG SEMESTA

“JOE Green offers wide range of solid and reliable products that not only improve work productivity. It also stands out in term of value proposition that we can offer to our clients”

Wayne Fu Cheng
Director
 FU CHENG BUILDING CONSTRUCTION PTE LTD

“Overall service is excellent”
Marvin Laxamana
Quantity Surveyor
 建築私人有限公司
YES CONSTRUCTION PTE LTD

“JOE Green’s service is good”
Jackson Tiong
Contract Manager
 聯明集團有限公司
LIAN BENG GROUP LTD

“Dear JOE Green, we are very impressed with the strong technical knowledge and fast support of the team. Overall we are very satisfied with your commitment and service”

Soh Lip Hong
Project Manager
 新建工程私人有限公司
BHCC CONSTRUCTION PTE LTD

“Quality products, prompt delivery and great support !”
Johnny Xu
Director
 CHIAN TECK
PEOPLE FOREMOST ADVANCE WITH TIMES
以人為本 與時俱進

“Service and product quality from JOE Green is good”
May Beh
Purchaser
 ROHSTERN PROJECTS

“The product is good. However the product delivery process need to be improved. Moving forward the contractor’s installer need to familiarize with JOE product and take advantage of the speed and quality of JOE product offering for elevating construction industry standard.”

Ar. Selamat
Director, JYP Architects Sdn Bhd
Principal, Arkitek Selamat Sdn Bhd
 Arkitek Selamat

“Joe Green products are strong and good quality. The sizes are cut precisely according to our requirement so the waste of material are limited. We do Tokyo River-side Project.”

Harjoto H
Director
 PT. TIRTA CITRA BARA PERSADA

Expanding into Global Arena

Joe Green success story in Singapore will lead us to be a major global player. By successfully creating innovative Lightweight Green Aggregates (LiGrA) and advanced machinery technologies for wall panel productions, JOE Green will make an impact in the green and lightweight wall system as well as concrete industry globally.

Our aim is to provide alternative conventional wall system that are superior, stronger, lighter for better performance, quality and safe wall system.

Expanding into the global market is our goal and vision to create a new standard Concrete Industry and Wall Panel System recognized internationally.



go green  go global

Wall Specialist

The Tallest
The Lightest
The Strongest

It Has To Be Us

The Art of Green Lightweight Technology

Structural & Non-Structural Recycled Lightweight Aggregates are Engineered Here
The Right Aggregates for Concrete, Construction & Other Industries

YOUR SAVINGS, OUR MISSION



JOE Green HQ
amazana Building
Singapore



PT JOE Green Indonesia
PT Zeroweis Batavia Marketing
Jalan Raya Serang KM.71, Serang 42185,
West Java - Indonesia
Tel: +6221 2262 0685/86/87
Fax: +6221 2262 0681/82
Hp & ☎: +65 9760 5272
E: charlina@joegreenpanel.com
www.joegreenpanel.com



JOE Green Precast Sdn Bhd
JOE Green Marketing Sdn Bhd
GM 293, LOT 514 Mukim Senai Industrial Park,
Taman Desa Idaman, Senai 81400,
Johor - Malaysia
Ph: +607 599 7875
Fax: +607 599 7876
Hp & ☎: +60 16 632 2277
E: nikki@joegreenpanel.com



JOE Green Pte Ltd
JOE Green Marketing Pte Ltd
Amazana Building #02-01,
50 MacPherson Road, Singapore 348471
Ph: +65 6745 5377
Fax: +65 6745 1755
Hp & ☎: +65 9760 5272
E: charlina@joegreenpanel.com



Cert. No.:022-015
Eco-Friendly Building
Material / Low Emission
Concrete / Cement /
30% Recycled Content



SGBP 3503/1
SGBP 3503/2
SGBP 3503/3
SGBP 3503/4
SGBP 3503/5

