

BuildScape  
building innovation

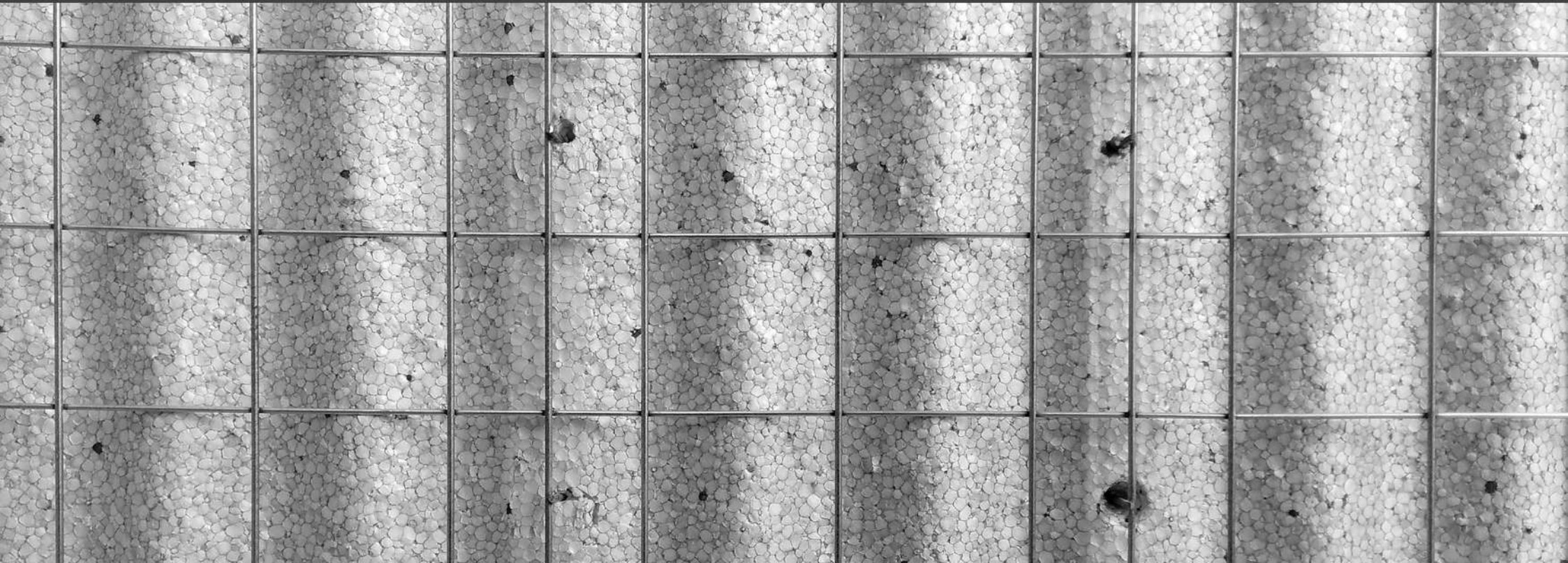


# COMPANY PROFILE

[www.builscape.my](http://www.builscape.my)

**MY BUILDINGS WILL BE MY LEGACY.  
THEY WILL SPEAK FOR ME,  
LONG AFTER I'M GONE.**”

Jullia Morgan





## TABLE OF CONTENTS

---

**01 ABOUT US**  
Our Vision | Our Mission | Our Team

**02 OUR SERVICES**

**03 PRODUCTION**  
Factory | Machinery

**04 PRODUCT RANGE**  
b-panel® | b-foam®

**05 PROCESS**  
Supply | Installation

**06 PROJECT REFERENCES**  
Completed | Current

**07 CONTACT US**  
Office | Factory

”

*We're professional & passionate people  
that love what we do & never stop  
doing amazing, innovative things.*

## ABOUT US

Established in 2014, **BuildScape** was founded on the principle of introducing highly efficient, environmentally sustainable yet economical construction systems to the local Malaysia building sector.

Certified by the Construction Industry Board of Malaysia (CIBB) as an Industrialised Building System (IBS) company, we have strongly supported the efforts of both the Malaysian government and its private sector, in delivering affordable housing to the Malaysian public.

Our principal building technology, **b-panel®** possesses the versatility and consistency to blend seamlessly with the current demands for quality design as well as higher built and safety standards.



## OUR VISION

**BuildScape** aspires and strives to be a leader in modular construction manufacturing and project implementation, for both Malaysia and global markets.

## OUR MISSION

**BuildScape** aims to facilitate and enable opportunities for project stakeholders to make environmentally conscious and profitable decisions that have the potential to create sustainable living environments.





**CHAIRMAN**  
Foo Fatt Chuen



**PROJECT DIRECTOR**  
Lionel Lim



**EXECUTIVE DIRECTOR**  
Robin Ang



**FINANCE DIRECTOR**  
Terry Law

## OUR SERVICES

### BUILDSCAPE SDN BHD

CIDB Malaysia Report No. FSL150915IBSC0505

IBS status company that manufactures the following IBS component(s):-

SISTEM BERINOVATIF: SANDWICH PANEL (INSITU)

### NURWALI SEPADU SDN BHD

CIDB Malaysia Registration No. 0120030422-SL082788

Grade

G7 B	B04	B02	B13	B24	B10	B12	B14										
G7 CE	CE21	CE01	CE06	CE43	CE42	CE31	CE10	CE13	CE20	CE34	CE36						



**BuildScape** actively participates in tradeshow across the country, notably Archidex as part of our strategy to promote **b-panel® building systems** to industry professionals and the average consumer.

**CIDB MALAYSIA**  **PENGESAHAN SYARIKAT STATUS IBS**  
IBS STATUS COMPANY VERIFICATION

Adalah dengan ini disahkan bahawa :  
It is hereby verified that :

No. Siri : **0208**  
Serial No. :

**BUILDSCAPE SDN BHD**  
52-2, JALAN AWAN HIJAU  
TAMAN OVERSEAS UNION  
58200 KUALA LUMPUR  
SELANGOR DARUL EHSAN

Merupakan :  
Is :

**PENGEDAR**

Lokasi Kilang :  
Factory Location :

**LOT 37889, JALAN BUKIT JALIL INDAH 2**  
**PUCHONG-SUNGAI BESI LINK HIGHWAY**  
**57000 BUKIT JALIL**  
**KUALA LUMPUR**

No. Laporan  
Report No. :

**FSL150915IBSC0505**

Tarikh Dikeluarkan :  
Issue Date :

**03 MAC 2016**

Sah Sehingga :  
Valid Until :

**02 MAC 2017**

Sebagai syarikat Status IBS yang mengeluarkan produk IBS berikut :  
As an IBS status company that manufactures the following IBS components :

**SISTEM BERINOVATIF :  
- SANDWICH PANEL (INSITU)**  
\*\*\*\*\*

PUSAT IBS, CIDB Malaysia  
Tingkat 1, Blok E, Lot 8,  
Jalan Chan Sow Lin,  
55000 Kuala Lumpur  
MALAYSIA

Tel : 603-9281 6909  
Fax : 603-9281 5870  
<http://www.cidb.gov.my>  
<http://www.ibscentre.com.my>

**DATUK IR. ELIAS ISMAIL**  
b.p Ketua Eksekutif  
CIDB Malaysia

Pendaftaran ini hendaklah diperbaharui seawat-lewatnya 30 hari sebelum tarikh tamat tempoh.  
This registration shall be renewed within 30 days before expiration date.



## **PT BETON ELEMENINDO PUTRA**

The only Expanded Polystyrene (EPS) manufacturer in Indonesia with expertise in providing solutions in building technology e.g. thermal insulation, technology infrastructure, floating structures and ultra-light architectural facades.





## PRODUCTION

The Kementerian Kesejahteraan Bandar, Perumahan dan Kerajaan Tempatan (KPKT) was invited to visit our factory in Klang.

## FACTORY

We regularly conduct hands-on training sessions to equipped our site and production staff with the necessary skills to ensure that optimum quality control is consistently delivered. We constantly encourage our staff to practised the highest health and safety standards when operating machinery in the factory and on-site.

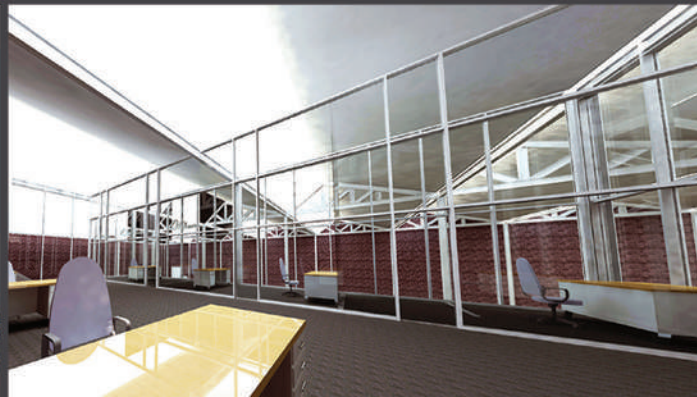
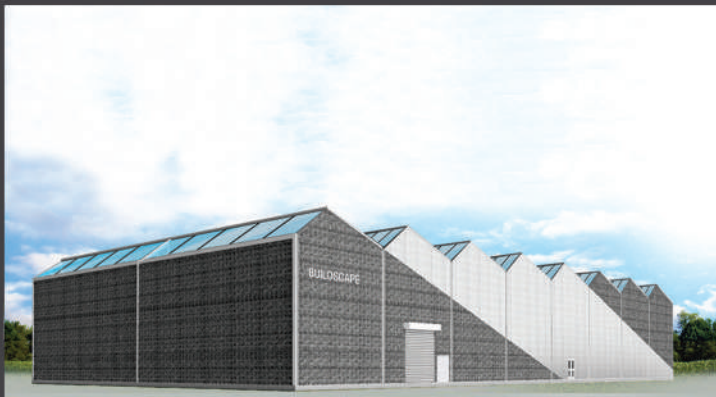


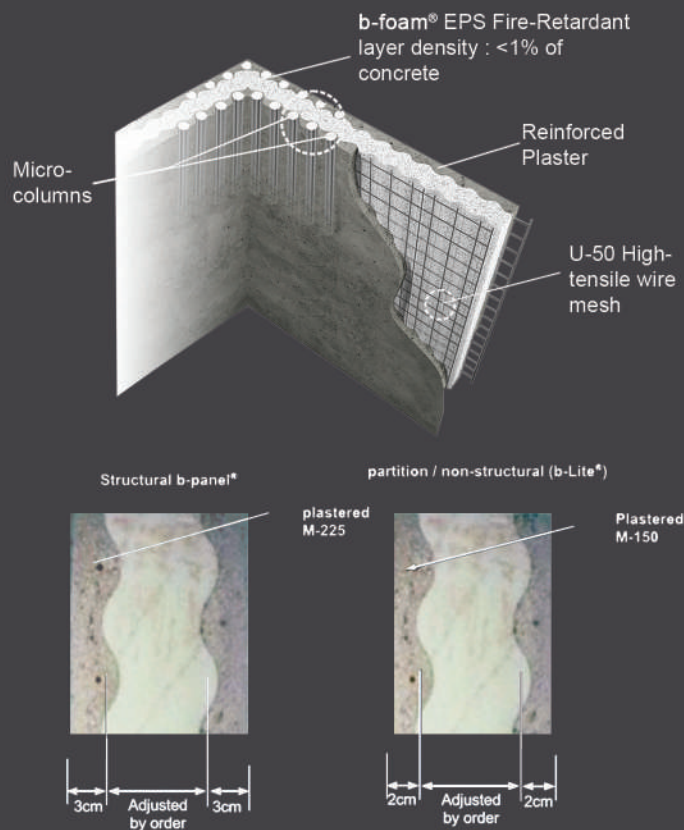


## FUTURE FACTORY & MACHINERY

**BuildScape** is rapidly expanding into global and local markets. We are in the midst of formalizing plans to open two more factories - one in Pajam (Negeri Sembilan) and another in Yangon (Myanmar) by 2018.

2. Dalam pelan tanah di bawah ini, sempadan sempadan yang ditunjukkan dengan warna merah itu, iaitu sempadan sempadan yang belum ditetapkan dengan jalan ukur, adalah semestinya sahaja.





## b-panel®

**b-panel®** is a concrete sandwich panel building system, insulated with **b-foam®** fire-retardant Expanded Polystyrene (EPS) layer. It offers excellent thermal & acoustic insulation, and exceptional typhoon & earthquake resistance.

**b-panel®** has excellent strength-to-weight ratio, due to hundreds of continuously-linked micro-columns within its concrete layers, whereas its ultra-light EPS layer is less than 1/100 density of concrete.

### Technical specifications

#### Panel sizes

- Modular cutting list (panels delivered cut to size and shape according to your drawings)
- Can be ordered in typical modules 1.2 x 3.0 m up to 6.0 m length

#### b-foam® Expanded Polystyrene (EPS):

- Fire-Retardant (FR)
- Density : 12 kg/m<sup>3</sup> (b-panel Neo® : 15 kg/m<sup>3</sup> carbon-graphite EPS blend)

#### Wiremesh:

- Non galvanized Ø3mm vertical, Ø2.5mm horizontal, U-50, b-Lite® : Ø2mm
- Connector: galvanized Ø3mm
- Spacing: 7.5 x 8 cm

#### Plaster thickness and concrete strength:

- Structural applications : K-225; 3 cm x 2
- Non-structural / partition applications : K-150; 2 cm x 2

*In our effort to continuously improve our products, specifications may change from time to time.*



Light-weight : ±95 kg/m<sup>2</sup> (partition: **b-lite®**), ±145 kg/m<sup>2</sup> (structural: **b-panel®** / **b-panel Neo®**)



Superior insulation against heat and humidity



Rapid and material-efficient installation with modular cutting list system



Cost savings :  
-Modular cutting list, eliminates waste at sites  
-Reduced A/C consumption up to 40%



Rigid - monolithic structure (all walls act as one unit), highly resistant against break-ins, earthquake, and typhoon



Acoustic barrier (STC 42 minimum, **b-coustic+®** : STC 45)



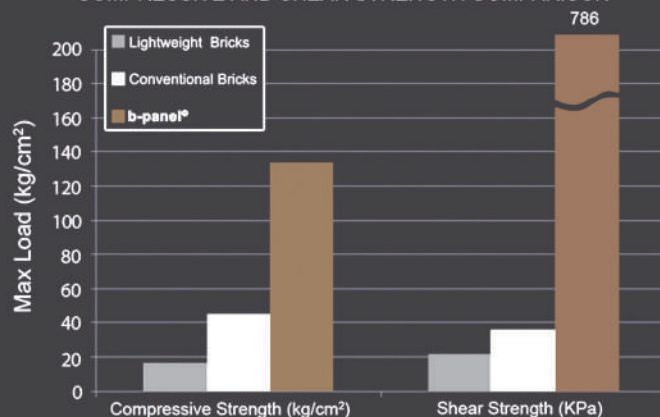
Safe during fire - Passed fire test at National Building Material Testing Center: 120 minutes @ 1000°C for partition



Environmentally responsible :  
- Reduced CO<sub>2</sub> emission from A/C consumption  
- Mindful production process

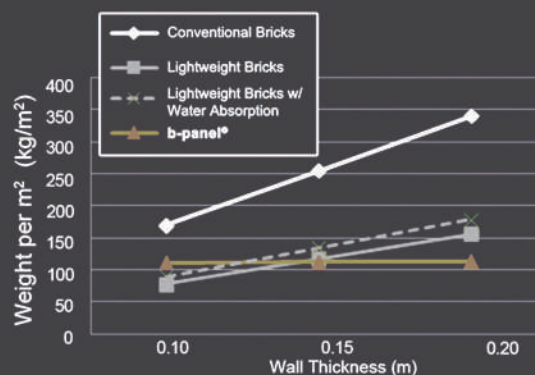


### COMPRESSIVE AND SHEAR STRENGTH COMPARISON



Sources : PT. Beton Elemenindo Putra R&D, ITB Civil Engineering Lab  
M. Z. Kabir and M. H. Nasab "Mechanical Properties of 3D Wall Panels Under Shear and Flexural Loading"

### WEIGHT COMPARISON

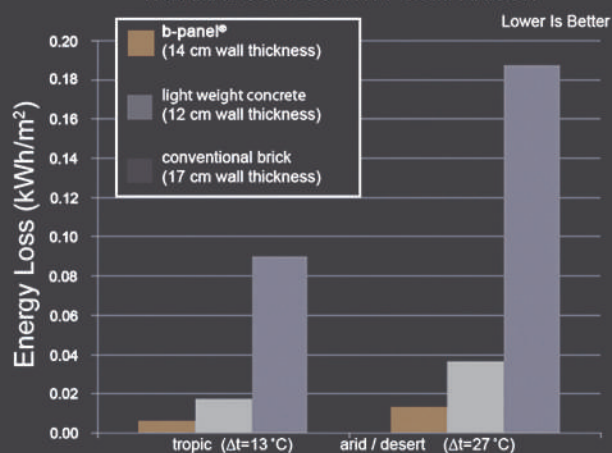


Sources : PT. Beton Elemenindo Putra R&D

	Traditional bricks (red concrete)	Lightweight bricks (AAC)	Fully reinforced concrete	b-panel®
Axial & Shear strength	✗	✗	✓	✓
Monolithic "safety net"	✗	✗	✓	✓
Light weight	✗	✓	✗	✓
	✗	✗	✗	✓

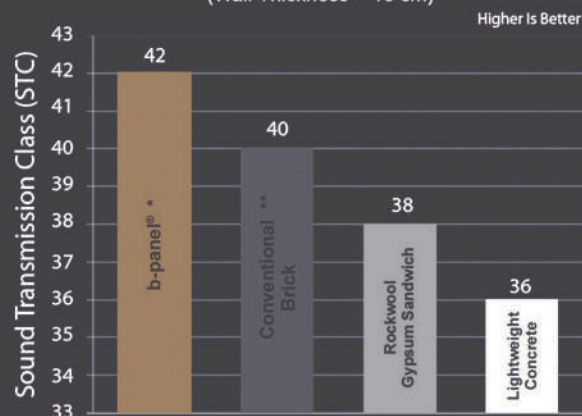
**LIGHTWEIGHT + STRENGTH = EARTHQUAKE-RESISTANCE**

### THERMAL CONDUCTIVITY COMPARISON



Sources : PT. Beton Elemenindo Putra R&D, AAC :  
A Lime-Based Technology (Ronald E. Barnett, P.E., 2005),  
plastics.org.nz

### ACOUSTIC PERFORMANCE COMPARISON (Wall Thickness = 10 cm)

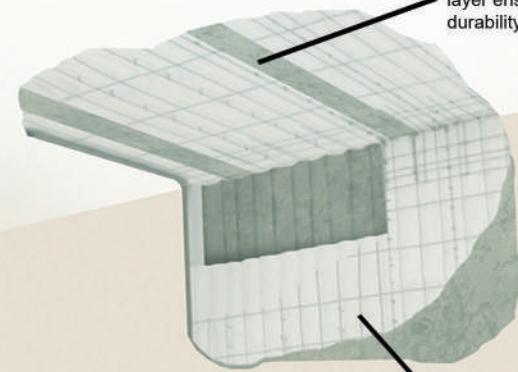


Sources : PT. Beton Elemenindo Putra R&D, ITB Physics Lab,  
MHE International (ASTM E90 Test),  
Diracdelta.co.uk Science & Engineering Encyclopedia

\* 23 EPS Density  
\*\* With 12.5mm plaster on both sides

Industrialised Building System (b-panel®)	Conventional Construction
Less labour	Labour intensive
High efficiency	Time consuming
Systematic/Well planned	High skill labour
Light weight	Heavy mobilisation
Minimal wastage	Materials shortage

**Long life and maintenance free**  
Reinforced concrete and EPS layer ensure long-term durability.



**Light and strong**  
Monocoque structure for break-in and seismic resistance.

**Cool, reduces A/C electricity**  
b-foam® EPS layer for thermal and acoustic comfort.



**High hanging load**  
Can be used to mount LCD TVs, painting/photo frames etc.



## Why choose b-panel®?

Home is the most significant and longest-term investment in our life. What we desire in a dwelling is a place which **insulates** us from ambient heat and humidity, sun intensity, **shields** us from outside noise, and for earthquake and typhoon-prone areas; **protects** us during these natural disasters.

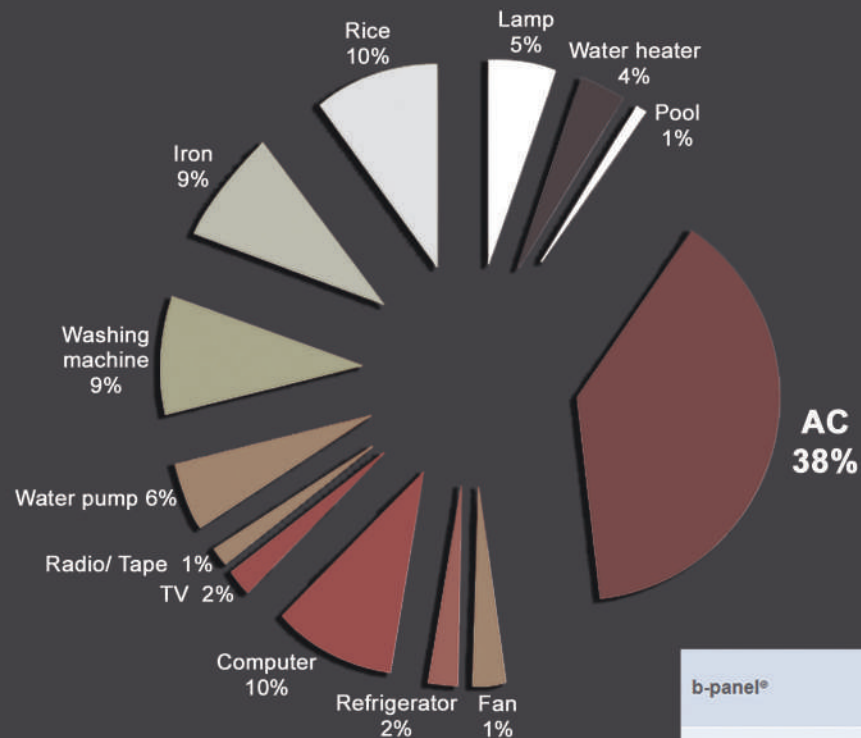


**Designer-friendly**  
Finished surface ready for painting, tiles, etc.





## ELECTRICITY CONSUMPTION PROFILE IN A TYPICAL RESIDENTIAL HOUSE



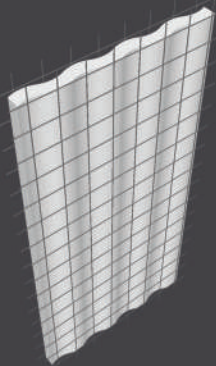
### AT LEAST 40% A/C ENERGY SAVINGS

**b-panel®** is an extensively insulated wall system.

All of this is made possible with its construction grade, Expanded Polystyrene (EPS), sandwiched with wire-mesh and concrete.

Giving it its foambox properties without compromising its stability.

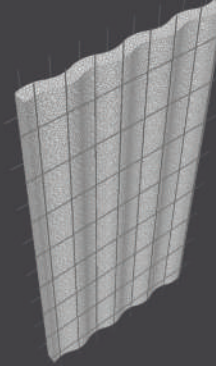
	Speed of Construction	Building Load Reduction	Construction Waste Reduction	Earthquake/ Typhoon Safety	Thermal Insulation/Energy Savings A/C	Acoustic Performance
b-panel®	😊😊😊	😊😊😊	😊😊😊	😊😊😊😊	😊😊😊	😊😊😊
b-panel Neo®	😊😊😊	😊😊😊	😊😊😊	😊😊😊😊	😊😊😊😊	😊😊😊
b-coustic+®	😊😊😊	😊😊😊	😊😊😊	😊😊😊😊	😊😊😊	😊😊😊😊
b-lite®	😊😊😊	😊😊😊	😊😊😊	😊😊😊	😊😊😊	😊😊😊
Red Brick	😞	😞	😞	😞	😞	😞😞
Light Brick/AAC	😞😞	😊😊😊	😞	😞😞	😞😞	😞



**b-panel®**  
ENERGY-EFFICIENT & QUAKE-RESISTANT  
BUILDING SYSTEM

**Versatile - for load bearing wall, partition wall with high hang load requirement, exterior wall**

- Thermal insulation: Fire-Retarding (FR) b-foam® EPS 0.037W/M.K
- Maximum span up to 6 meters without additional columns
- Hang load capacity: approx. 60 kg per point
- Approx. 145 kg/m<sup>2</sup> finished, for ANY wall thickness (10-30 cm)



**b-panel Neo®**  
ENERGY-EFFICIENT & QUAKE-RESISTANT  
PERFORMANCE BUILDING SYSTEM

**For West or East-facing exterior wall, large temperature gradient wall**

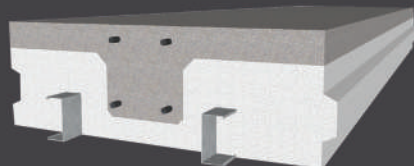
- b-panel® made with high-performance carbon-graphite EPS
- Thermal insulation: b-foam Neo® 50 EPS 0.035W/M.K
- Thermal performance equivalent to regular EPS of >2x density
- German technology, raw material imported from South Korea

## **b-deck® Floor / Roof**

**Lightweight thermally-insulated deck**

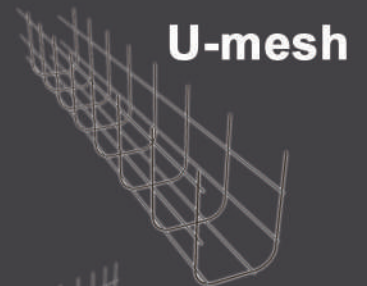
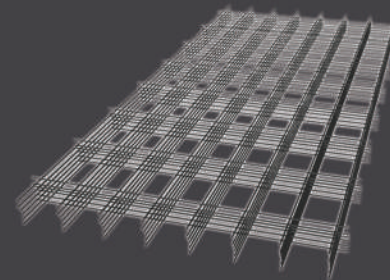
**Available thickness: 15 & 20 cm**

- Shield againsts sunlight and ambient outside temperature
- Rapid installation without formwork
- Weight: 125-190 kg/m<sup>2</sup>
- Maximum span : 6 metres

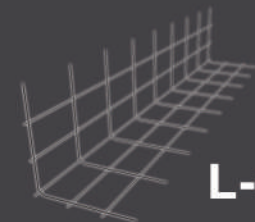


## **b-mesh®**

- U-50 minimum tensile strength
- 6m max length, 1.2m wide also special size order.



**U-mesh**



**L-mesh**



# -b-foam®

FLOATING STRUCTURES

## BENEFITS

- **Ultra-long life**  
Does not decay nor degrade (chemically and dimensionally stable)
- **Superior safety factor**  
Impossible to leak or sink
- **High buoyancy**
- **Environmentally responsible production**  
Recycle blend, CFC-free

## Technical specifications

### Construction grade Expanded Polystyrene (EPS)


- Optional: Fire-Retardant (FR) EPS
- Buoyancy: 500, 800 or 1000 kg/m<sup>2</sup>

### Grant-series Pontoon:

- Casing: Flexible polymer  
Cementitious matrix filler on lock-switch knitted, UV-resistant and oxidation-free polymer mesh  
(Optional: Marine-grade casing)
- Positive-lock grooves ensures adhesion with concrete casting top







Charateristics	b-foam® EPS Parameters
Water absorption	< 1% (vol/vol) after 30 months, < 5% after 15 years (below grade)*
Service life	Ultra-long (>50 years)
Dimensional stability	+/- <2% (ASTM Test Method D2126)*
Enviromental compatibility & chemical stability	Does not contain hazardous pollutants - Cadmium, Mercury, Lead, Chromium Hexavalent Inert - does not leach chemical into water
Damaging agents	- Direct UV exposure - Various liquid hydrocarbon (solvent, gasoline) - Temperature > 80C

Source: EPS Industry Alliance, ACH Foam Technologies, TX Foam

**-b-foam®**

ULTRALIGHT ARCHITECTURAL FACADE

### BENEFITS

- **Ultra-long life**  
Does not decay nor degrade  
(chemically and dimensional  
ly stable)
- **Superior safety factor**  
Impossible to leak or sink
- **High buoyancy**
- **Environmentally  
responsible production**  
Recycle blend, CFC-free

### Technical specifications

#### Construction grade Expanded Polystyrene (EPS) foam

- Core: Fire-Retardant (FR) EPS
- Casing: Cementitious coating on lock-switch  
knitted, UV-resistant and oxidation-free polymer  
mesh
- Finish: Ready to paint or special finish order



## CERTIFICATION

**BuildScape** products have been tested and certified by Jabatan Bomba dan Penyelamat Malaysia and SIRIM Berhad Malaysia.

No. Fail: JBPM/IP/BKK:700-7/2/25-44 ( 3 )  
No.Siri: BB/WS/2297/2017

LAMPIRAN A1

Jenis Bahan Binaan	: EXPANDED POLYSTYRENE (EPS) SANDWICH CONCRETE PANEL SYSTEM 2 JAM (NON-LOADBEARING)
Jenama & Spesifikasi	: B-PANEL® - SINGLE PANEL SP-06 Total Thickness: 150mm
Nama & Alamat Pengeluar	: PT BETON ELEMENINDO PUTRA (INDONESIA)
Tahap Rintangan Api	: INTEGRITY 120 MINIT & INSULATION 120 MINIT
No. Laporan ujian/Tarikh	: SIRIM 2016FE0563 (15/12/2016)
Skim Persijilan Barangan	: -----
Had Kegunaan	: TIDAK DIBENARKAN SEBAGAI 'PARTY WALL'. HENDAKLAH MEMATUHI SPESIFIKASI UJIAN, UBBL 1984 SERTA SYARAT-SYARAT TAMBAHAN SEPERTI DI LAMPIRAN A2 & A3.



Tempoh sah perakuan: 02/03/2017 hingga 01/03/2018

No. Fail: JBPM/IP/BKK:700-7/2/25-44 ( 3 )  
(BAHARU)

## SIJIL PEPASANGAN KESELAMATAN KEBAKARAN

APPROVAL CERTIFICATE



Jabatan Bomba dan Penyelamat Malaysia  
dengan ini memperakukan  
Fire and Rescue Department of Malaysia  
hereby certify

### WALL SYSTEM

Berdasarkan Piawaian  
Complying with

BS 476:PART 22:1987

Syarikat Berdaftar  
Registered company

**BUILDSCAPE SDN BHD**  
**52-2 Jalan Awan Hijau,**  
**Taman OUG,**  
**58200 Kuala Lumpur.**

Tempoh sah perakuan: 02/03/2017 hingga 01/03/2018

  
(DATO' RUSMANI BIN MUHAMAD)  
Penolong Ketua Pengarah  
Bahagian Keselamatan Kebakaran,  
b.p. Ketua Pengarah  
Jabatan Bomba dan Penyelamat Malaysia.

Tarikh: 9 Mac 2017

\*\* Peringatan:  
Sila patuhi sepenuhnya syarat-syarat dan had kegunaan  
seperti dalam Lampiran A1



CERTIFIED TO  
ISO 9001:2008  
CERT. NO: AR 5837



CERTIFIED TO  
ISO 9001:2008  
CERT. NO: AR 5837



## TEST REPORT

REPORT NO.: 2016FE0563

PAGE: 1 OF 23

This Test Report refers only to samples submitted by the applicant to SIRIM QAS International Sdn. Bhd. and tested by SIRIM QAS International Sdn. Bhd. This Test Report shall not be reproduced, except in full and shall not be used for any purpose by any means or forms (including but not limited to advertising purposes) without written approval from Managing Director of SIRIM QAS International Sdn. Bhd. Please refer overleaf of Page 1 for conditions relating to the use of Test Report.

Applicant : **BUILDSCAPE SDN. BHD.**  
52-2, Jalan Awan Hijau,  
Taman OUG,  
58200, Kuala Lumpur.  
(Attn.: Mr. Lionel Lim)

Manufacturer : **PT BETON ELEMENINDO PUTRA,**  
Jalan Raya Batujajar KM 5 no 8,  
Cangkaroh, Kabupaten Bandung Barat,  
40561 Indonesia.

Product : **Expanded Polystyrene (EPS) Sandwich Concrete Panel System**

Reference Standard/  
Method of Test : **BS 476: Part 22: 1987**  
Methods for determination of the fire resistance of non-load bearing elements of construction. Clause 5 – Determination of fire resistance of partition.

Description of sample : **Hose Stream test utilizing the test methodology given in ASTM Standard E2226-10: Standard Practice for Application of Hose Stream.**  
A single layer of non-load bearing Expanded polystyrene (EPS) sandwich concrete panel system which were erected and held to the test frame on the 05.09.2016. Full description of the test specimen and construction of the Expanded polystyrene (EPS) sandwich concrete panel system are detailed in Page 3 of this report.

Brand : **b-panel®**  
Type : **Single Panel SP-06**  
Nominal Size: **3000 mm (h) x 3000 mm(w) x 150 mm (t)**

Test result : **Fire Resistance Test : Integrity : 120 minutes**  
**Insulation : 120 minutes**  
**Hose Stream Test : The Expanded polystyrene (EPS) sandwich concrete panel system meets the requirements.**

Date of test : 10.10.2016

Date received : 06.05.2016

Job No./ Ref No. : J20161440307/SQAS/FPS/15-1-3

Issued date : 15 DEC 2016

Approved Signatories :

SHARIFAH NUR BADARAH SYED ABU BAKAR  
Testing Executive



ROHAYA IBRAHIM  
HEAD

Fire Protection Section  
Testing Services Department  
SIRIM QAS International Sdn. Bhd.

REPORT NO.: 2016FE0563

PAGE: 16 OF 23

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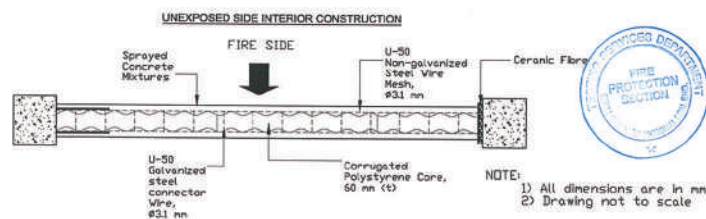
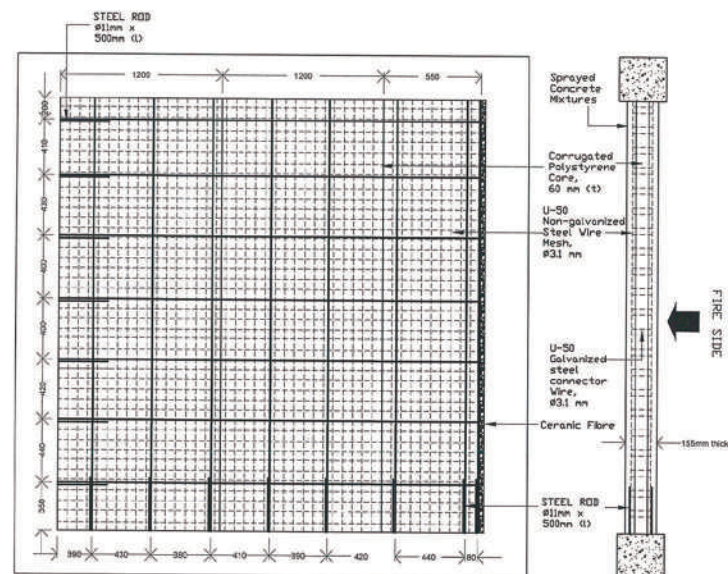


Figure 4: GENERAL CONSTRUCTION OF THE EXPANDED POLYSTYRENE (EPS) SANDWICH CONCRETE PANEL SYSTEM

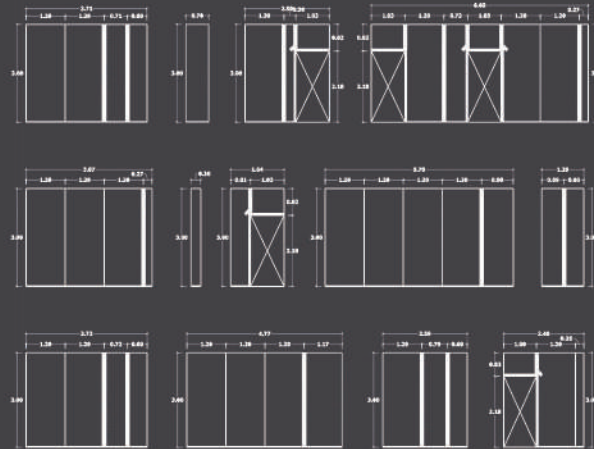
15 DEC 2016





## Step 01

- Clients submit their drawings to us



## Step 02

- Cutting list generated based on drawings received.



## Step 03

- Panel production



## Step 04

- Panel shipping



## Step 05

- Arrival of panels and storage



## Step 06

- Panel installation



1



#### Step 01 Rebar Installation

- Before the panels are installed, the rebar is installed onto foundation beams, floor slabs, columns and beams.
- The rebar are installed in an alternating "zig-zag" pattern.
- For steel structures, the rebars are welded onto the steel beams and columns

2



#### Step 02 Panel installation

- Panels are prepared according to plan drawings
- Although panels are sized to modular typical sizing, panels may be trimmed to be adapted to site conditions.
- Tie wires are used to tie the panel onto the rebar

3



#### Step 03 Support braces & M/E Installation

- Panels to be installed with supports and alignments performed so to ensure they are installed straight and each plane is perpen

4



#### Step 04 Preparation for Electrical & Plumbing

- M&E works are able to be seamlessly incorporated with the panels without the need for excessive hacking through any hard surfaces before the concrete layer is applied

5



#### Step 05 Shortcrete & Plastering

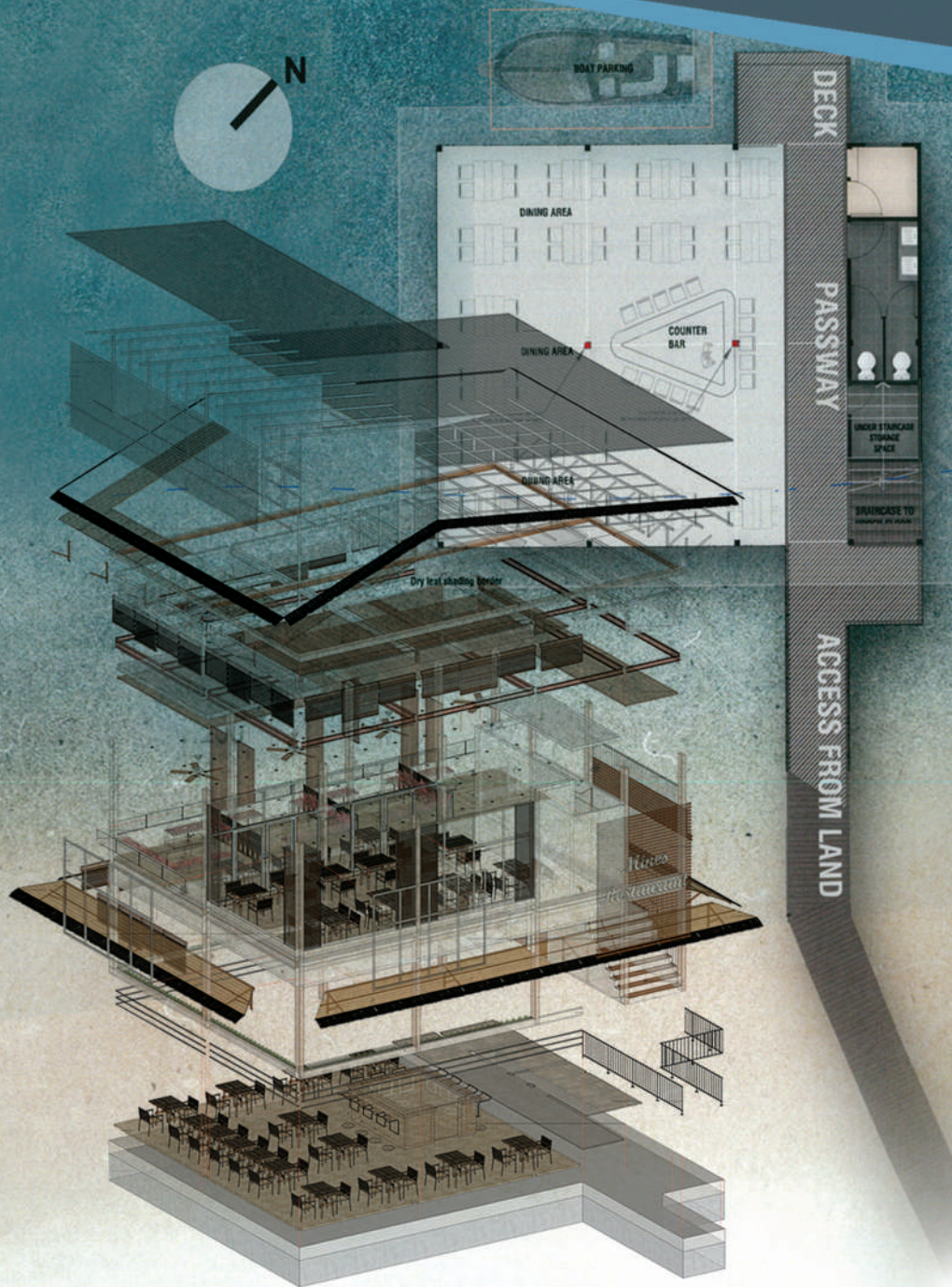
- Using a shortcrete machine, apply first layer of concrete on both sides of the panel
- Apply guidance mode to ensure consistent thickness of the second (final) layer of plaster.
- Afterwards, smoothen the surface using screed

# INSTALLATION.



NO.	PROJECT	AGENCY	COMPANY
1	Repair and upgrade of facilities for Projek Perumahan Rakyat (PPR) Malaysia Permai, Mukim Sg. Besi, Kuala Lumpur	Kementerian Perumahan dan Kerajaan Tempatan Cawangan Pelaksanaan dan Penyelenggaraan Projek	Nurwali Sepadu Sdn. Bhd
2	Provide office cleaning services for Pejabat Kastam Kelana Jaya.	Kastam DiRaja Malaysia Wilayah Persekutuan Kuala Lumpur	Nurwali Sepadu Sdn. Bhd
3	Provide, delivery and installation for 4 headquarters of Perbadanan Pengurusan Sisa Pepejal dan Pembersihan Awam.	Perbadanan Pengurusan Sisa Pepejal dan Pembersihan Awam	Nurwali Sepadu Sdn. Bhd
4	Interior designing, renovation works and the supplying of furniture for the headquarters of Perbadanan Pengurusan Sisa Pepejal Negara at UOA Pantai, Bangsar, Kuala Lumpur	Kementerian Perumahan & Kerajaan Tempatan	Nurwali Sepadu Sdn. Bhd
5	Renovation works for 8 housing units from level 1 to level 4 which is converted into the office for Pencegah Kuala Lumpur at the old housing Kastam Wilayah	Kastam DiRaja Malaysia Wilayah Persekutan Kuala Lumpur	Nurwali Sepadu Sdn. Bhd
6	Upgrading of the existing drainage system and other works regarding the surrounding of Kg. Sri Langas, Kg. Sri Aman, Kg Sri Puchong and Kg. Bersatu, Puchong.	Kementerian Perumahan & Kerajaan Tempatan	Nurwali Sepadu Sdn. Bhd





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FLOATING STRUCTURES

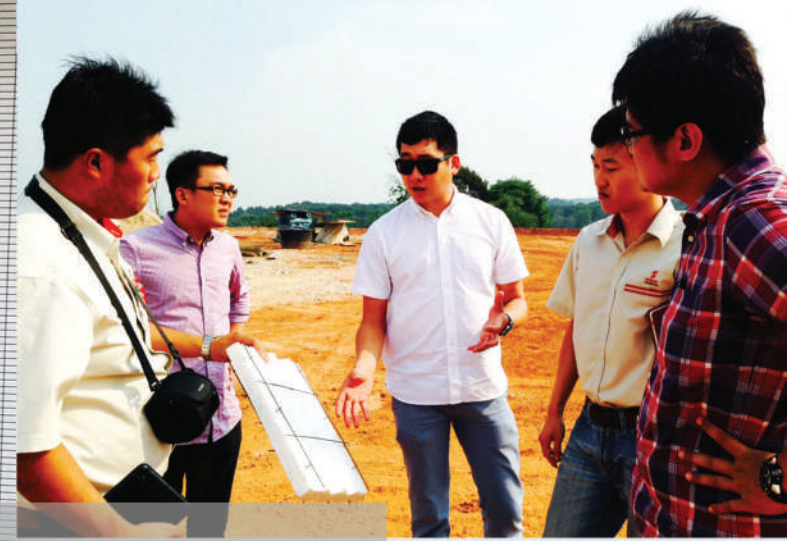






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Perak, Malaysia





## COMPLETED

## RESIDENTIAL







COMMERCIAL / INSTITUTION

COMPLETED



**BATU JAJAR SKY DIVING CENTRE**  
Bandung, Indonesia



**MAJA HOUSE GALLERY**  
Bandung, Indonesia



**SRI UTAMA INTERNATIONAL SCHOOL**  
Kuala Lumpur, Malaysia



**NURUL FIKRI GRAND MOSQUE**  
Lembang, Bandung, Indonesia



**GTC MARKET**  
Cirebon, Indonesia



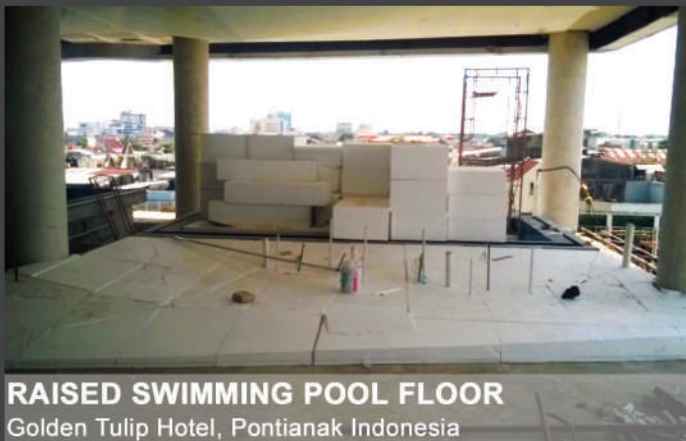
**GEREJA CHRIST CATHEDRAL**  
BSD, Indonesia



## COMPLETED









## COMPLETED

ULTRALIGHT FACADE



**RA APARTMENTS**

TB Simatupang, Jakarta, Indonesia



**MEDINA APARTMENTS**

Karawaci, Indonesia



**NEO HOTEL GAJAHMADA**

Pontianak, Indonesia



**GRAND TEBU HOTEL (FACADE)**

Bandung, Indonesia



**PILOT PROJECT BTARI CLUSTER**

Summarecon Gedebage, Indonesia



**VENUS SHOWROOM**

Jakarta, Indonesia







## COMPLETED

### FLOATING STRUCTURE



**FLOATING WATERFRONT CAFE**  
Mines Lake, Malaysia



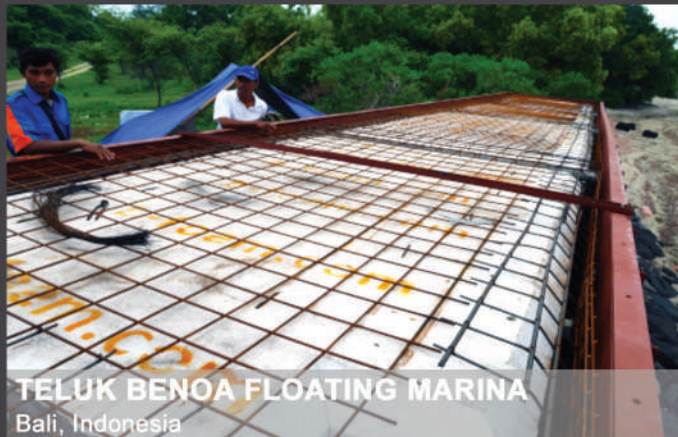
**LEMBANG FLOATING MARKET**  
Lembang, Indonesia



**CAFE KAHAYAN**  
Palangkaraya, Indonesia

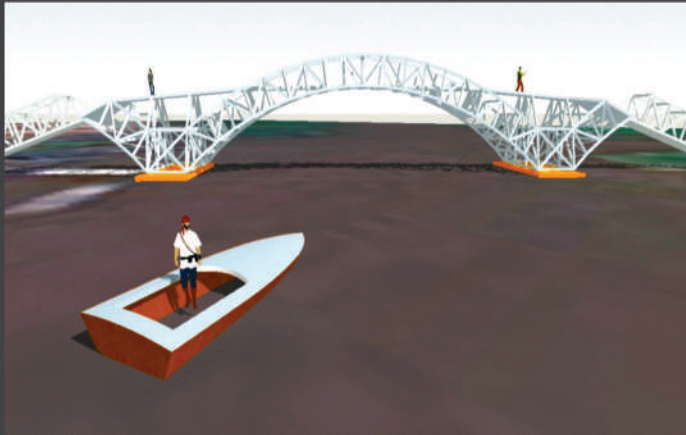


**TETRAPOD TRANSPORTER**  
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**TELUK BENOA FLOATING MARINA**  
Bali, Indonesia





**JEMBATAN TERAPUNG**  
Cilacap, Indonesia

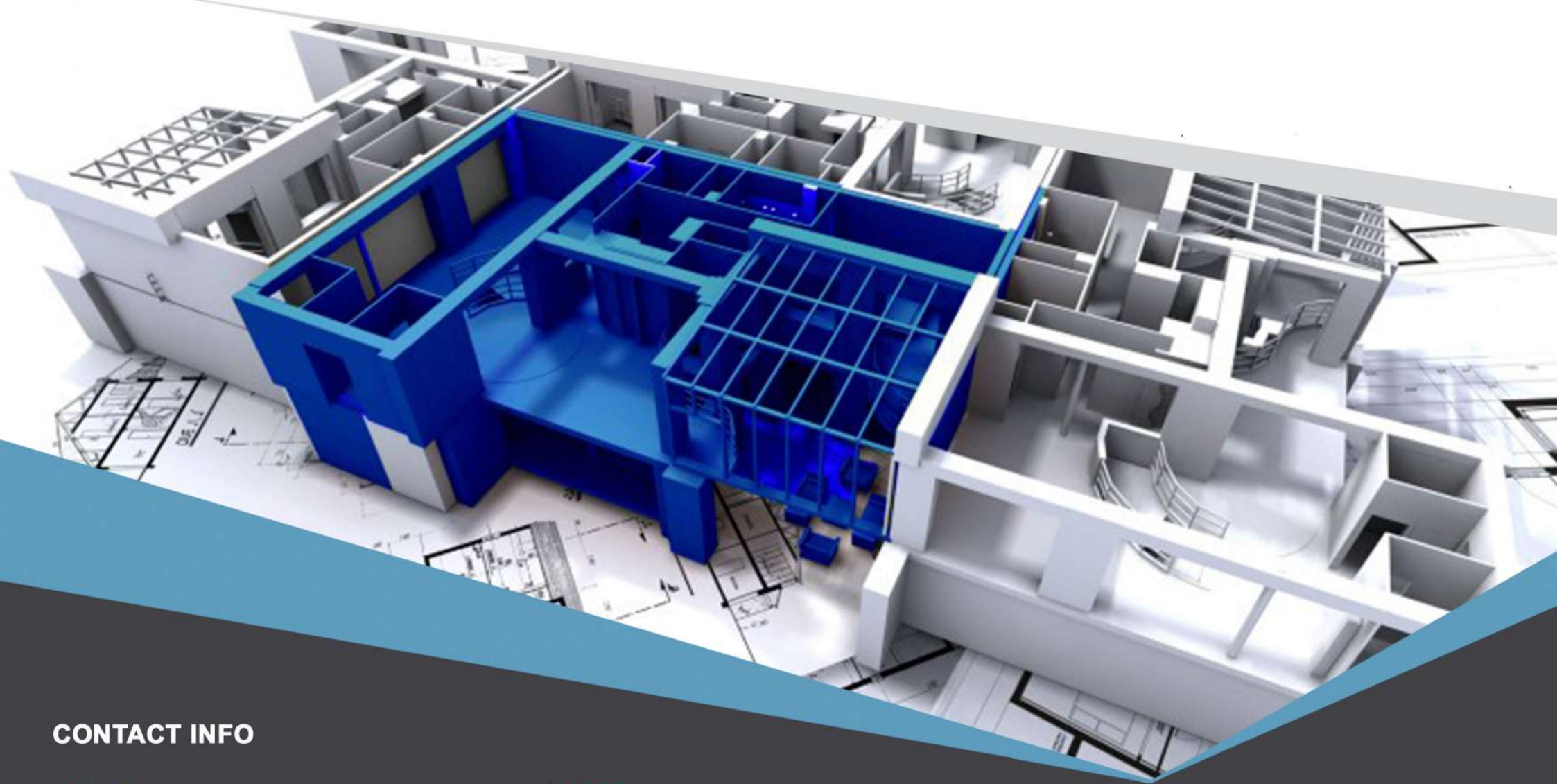


**PERPUSTAKAAN TERAPUNG TAMBAK LOROK**  
Semarang, Indonesia



**PEMECAH GELOMBANG CANDIDASA**  
Bali, Indonesia





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