



# **AUTOCLAVED AERATED CONCRETE (AAC)**

## LIGHT WALL SOLUTIONS



# WHAT IS AAC BLOCKS ?

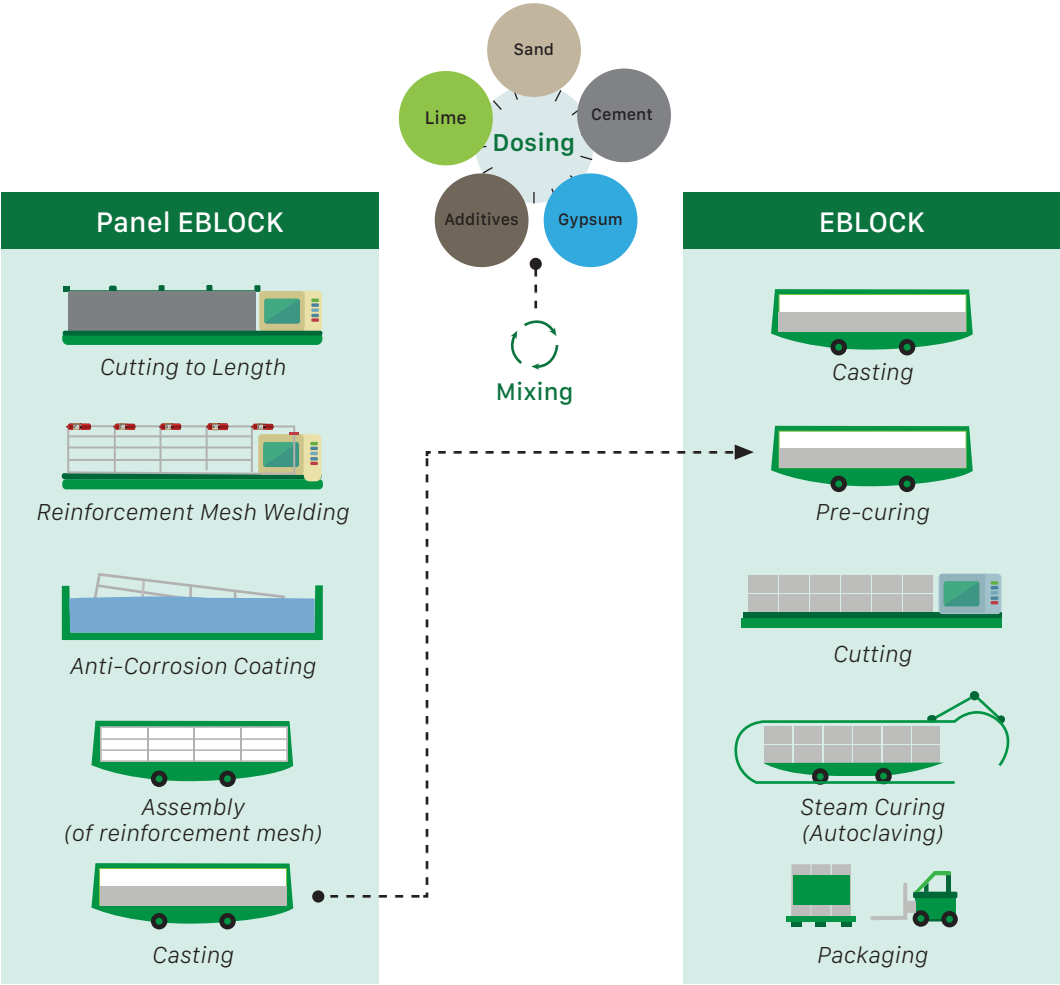
The Autoclaved Aerated Concrete (AAC) was perfected in the mid-1920s by the Swedish architect and inventor Dr. Johan Eriksson. The AAC is a lightweight, non-baked material produced from the common raw materials lime, sand, cement and water, and a small amount of expansion agent. After mixing and casting, it is then cured under heat and pressure to create its unique properties.

Today, AAC has become one of the most used

building materials in the world. In many countries, AAC blocks account for over 70% of the total wall materials used in construction industry.

In Vietnam, the application of AAC blocks in civil and industrial construction works has been increasingly popular in recent years and encouraged by the Government through the issuance of many relevant regulations and circulars.

## AAC BLOCKS MANUFACTURING PROCESS



Circular No. 13/2017/TT-BXD of the Ministry of Construction, replacing Circular No.09/2012/TT-BXD on use of non-baked building materials for construction works.

- Accordingly, for building works of which the construction is funded by the State budget, the compulsory use rate of non-baked material shall be adjusted as follows:

- In Hanoi and Ho Chi Minh City, the use rate of non-baked materials is 100%.
- For the provinces of the Northern Midlands and the South East: At least 90% in urban areas of Grade III or higher. At least 70% in the remaining areas.
- For the remaining provinces: At least 70% in urban areas of Grade III or higher; At least 50% in the remaining areas.

- Building works of 9 or more storeys, regardless of their capital sources, must use at least 80%.

## SPECIFICATIONS AND BENEFITS OF EBLOCK



### LIGHTWEIGHT

**EBLOCK** with its distinct porous structure is only approximately 1/3 the weight of conventional clay bricks and 1/4 of dense concrete. Due to which dead load on foundation as well as structure are reduced ensuring economic design and this remarkable feature also make it exceptionally easy to transport and install with at job sites.



### PRECISION

Unlike other masonry products, **EBLOCK** is wire-cut with a tolerance of  $\pm 1-2\text{mm}$ . This precision creates an unrivalled smooth and even wall surface, resulting in reduced plastering material and man-hours to complete the work.



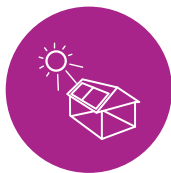
### FIRE RESISTANCE

**EBLOCK** is non-combustible and scores well for fire resistance of up to 4 hours. It is tested and certified to stringent standard by national accreditation centres in Singapore, Vietnam and Australia.



### FAST INSTALLATION

**EBLOCK** can be cut with saws, sanded, shaped, drilled, nailed, sculpted and grooved. These flexibilities at job sites are very helpful in faster installation and cost savings.



### HIGH THERMAL INSULATION

**EBLOCK** has great thermal qualities, making it ideal to keep the interior cool in hot weather and warm in cold weather. It helps to save electrical energy during building operations.



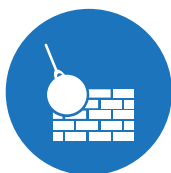
### ACOUSTICS INSULATION

**EBLOCK** boasts good sound insulation because of its porous structure and superior sound absorption ability. Hence this material is used popularly for projects that require high acoustics insulation standards such as hotels, offices, hospitals, etc.



### GREEN MATERIAL

**EBLOCK** is fully green in both manufacturing and application that is eco-friendly or environmentally friendly. **EBLOCK** is the AAC brand to achieved Green Certificates and ISO14001 accreditation and it is encouraged by Vietnam Green Building Council.



### HIGH DURABILITY

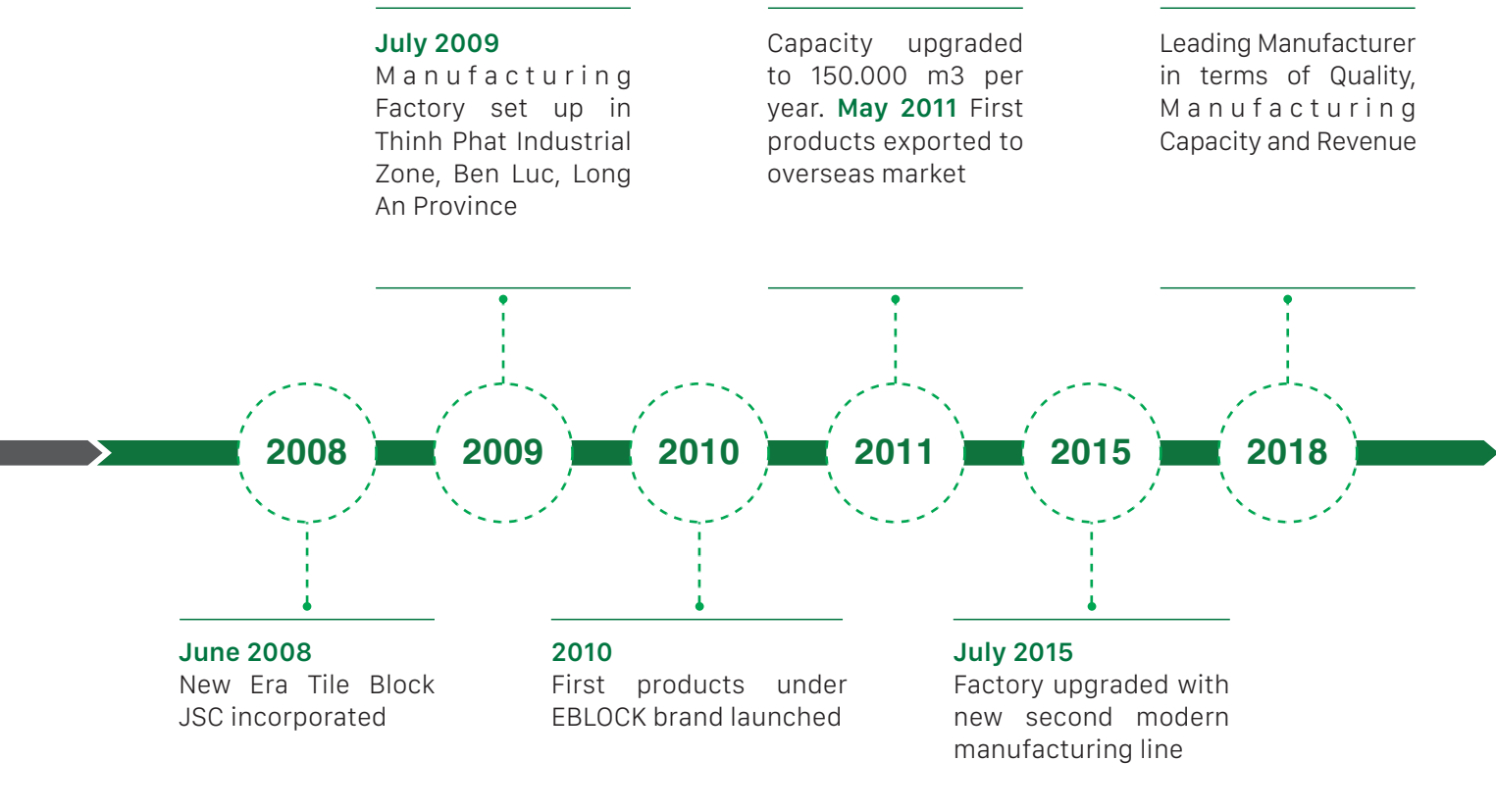
Despite its light weight, **EBLOCK** AAC is a highly homogeneous material, with its provenance of concrete, resulting in a solid crystal structure. This material is the highest strength among porous materials and it is more durable against impact than conventional concrete brick (CMU).



# EBLOCK – OUR LEADING PIONEER STORY

With the cooperation of British Fossett Corporation, New Era Block Tile JSC has set up the first AAC manufacturing factory based on German technology located in Thinh Phat Industrial Zone, Ben Luc, Long An province with an area of 5 hectares. The first products under EBLOCK brand were launched in 2010.

With current two modern manufacturing lines that enable a total capacity of 400.000 m3 per year, New Era Block Tile JSC with our EBLOCK brand is proud to be the leading manufacturer of AAC products in Vietnam. EBLOCK products are also regularly exported to more than 20 countries in the world such as Singapore, Taiwan, Australia, New Zealand, etc.



From basic product of AAC blocks, we have developed successfully a lot of Light Wall Solutions and we supply entirely all components that make a complete wall system including Blocks, Panels, Water-Resistant Block, Lintel, Mortars, Coating Plasters, Skimcoats, etc.

# QUALITY IN MANUFACTURING PROCESS

We apply a strict quality control procedure as refer to European Standards in our factory to ensure the quality of any single block delivered to the site in the most perfect condition.

All raw materials are carefully selected from reputable suppliers. The manufacturing process is set up with a lot of automations by latest German technology in order to bring outstanding quality to our products.



We understand that a truly "Green" and Environmentally friendly product must be produced from a "Green" factory.

# EBLOCK STANDARD DIMENSIONS

In order to suit the different requirements of design, technical specifications, aesthetics as well as the functional utility of the constructions works, we can customize and produce different dimensions and compressive

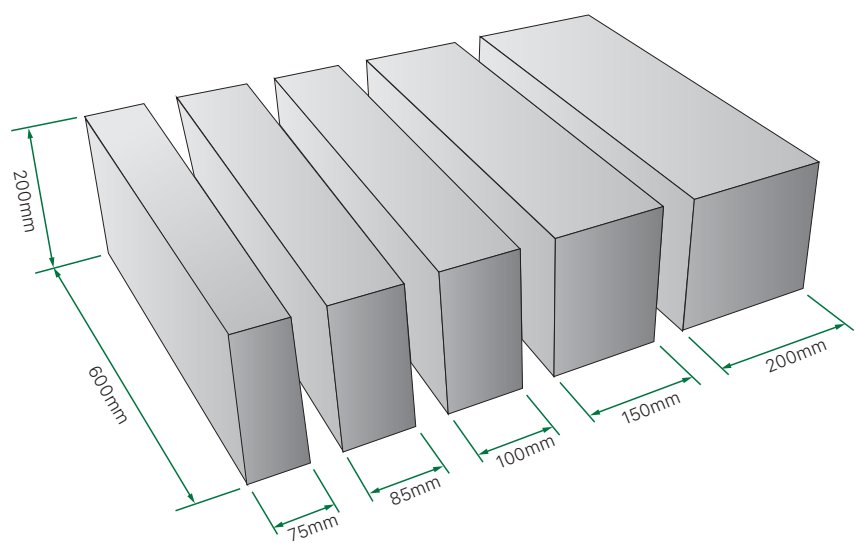
strengths of EBLOCK blocks corresponding to TCVN 7959: 2011 standard.

Based on technical requirements and design, we classify EBLOCK bloks according to size and specifications.

(Other non-standard dimensions and specifications required by the construction works can be manufactured on individual orders)

## EBLOCK STANDARD SIZES

Size (mm) (L x H)	Thickness (mm)	Nos Of Blocks Per Sq.M (m <sup>2</sup> )	Nos Of Blocks Per Cu.M (m <sup>3</sup> )	Block Type
600 x 200	75	8.33	111	Standard / Lite
600 x 200	85	8.33	98	Standard / Lite
<b>600 x 200</b>	<b>100</b>	<b>8.33</b>	<b>83</b>	<b>Standard</b>
600 x 200	125	8.33	67	Standard / Thick
600 x 200	150	8.33	56	Standard / Thick
<b>600 x 200</b>	<b>200</b>	<b>8.33</b>	<b>42</b>	<b>Standard</b>
600 x 200	250	8.33	33	Standard / Thick
600 x 400	100	4.16	42	Large Size
600 x 300	200	5.56	28	Large Size
600 x 400	200	4.16	21	X-Large Size
600 x 800	100	2.08	21	X-Large Size



## EBLOCK Standard Pallet Packaging

- In order to ensure the quality and integrity of each single block delivered to the site, we use pallet packaging to protect our products against adverse weather conditions and transport vibration.
- Standard pallet dimension:  
1,200 mm X 1,000 mm x 1,800 mm (L x W x H)





# EBLOCK TECHNICAL SPECIFICATIONS

## (AS REFER TO TCVN 7959:2011 STANDARD)

Technical Specifications	EBLOCK CLASSIFICATION			
	EB 3.0	EB 3.5	EB 5.0	EB 7.5
Minimum Compressive Strength	3.0 (MPa)	3.5 (MPa)	5.0 (MPa)	7.5 (MPa)
Dry Density	440-520 (kg/m <sup>3</sup> )	470-550 (kg/m <sup>3</sup> )	570-650 (kg/m <sup>3</sup> )	640-720 (kg/m <sup>3</sup> )
Dry Shrinkage	≤ 0.2 (mm/m)			
Fire Resistance **	4 – 8 (hours)			
Sound Transmission Class (STC) **	36 (dB)	38 (dB)	45 (dB)	48 (dB)
Size Tolerance	±1.5 (mm)			

### ► WATERPROOF BLOCK EBLOCK EBW

Specialized EBLOCK product, waterproof to its entire volume, used for construction in special positions sensitive to water such as skirting tile in the bathroom, toilet, etc.

Technical Specifications	EBLOCK Lintel
Standard Dimension	600x240x100 (mm)
Minimum Compressive Strength	3.0 (MPa)
Water Absorption *	10 - 15 (%)
Dry Shrinkage	≤ 0.2 (mm/m)
Fire Resistance **	4-8 (hours)
Sound Transmission Class (STC) **	38 (dB)

\* The results were measured after continuous immersion in water for a duration of 72 hours

\*\*The parameters depend on the thickness and configuration of the wall system



Apply waterproof block EBLOCK EBW at base-course in WC

### ► EBLOCK LINTEL

Lintel made from homogeneous material of autoclaved aerated concrete (AAC) which enables door installation quick and easy.

Technical Specifications	EBLOCK Lintel
Standard Dimension	1200x100x100 (mm)
Dry Density	450 – 550 (kg/m <sup>3</sup> )
Minimum Compressive Strength	3.0 (MPa)
Bending Strength	2.5 (MPa)

# EBLOCK PANEL

EBLOCK Panel is made from Autoclaved Aerated Concrete (AAC) material with reinforced steel mesh inside. This steel mesh, which is high-grade material and treated with anti-corrosion coatings, offers outstanding strength to the Panel and enables faster installation at site. It also has all other properties of AAC EBLOCK material

such as lightweight, good acoustics and thermal insulation, fire resistance, etc.

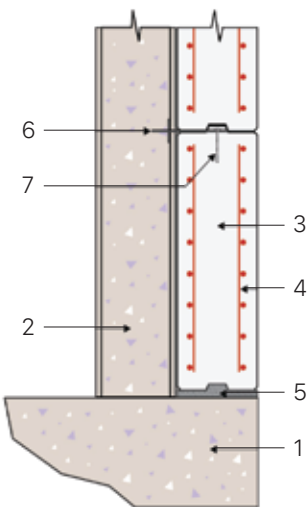
EBLOCK Panel is used as wall or floor panel (load bearing or non-load bearing). EBLOCK Panel is an impeccable building solution for large-scale industrial, residential and commercial construction (office buildings, apartments, hotels, industrial buildings, etc.)

## EBLOCK WALL PANEL

With or without reinforced steel mesh, can be used as partition walls, external covering walls, for straight, uniform and large area wall location. Wall panels can be designed and installed either horizontally or vertically.



EBLOCK Panel installed vertically

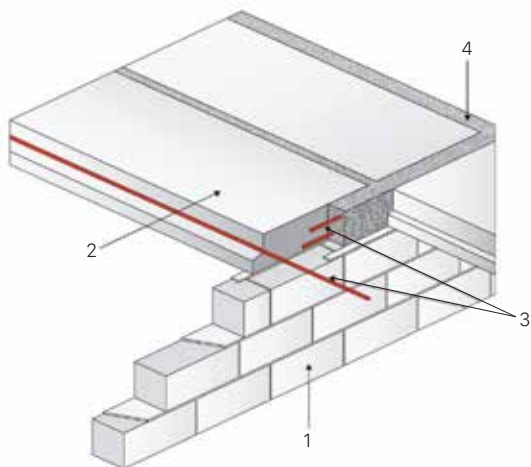


- 1- Concrete Foundation
- 2- Concrete or Steel Structure
- 3- EBLOCK Panel
- 4- Reinforced steel mesh
- 5- Mortar
- 6- Steel connector
- 7- Nail

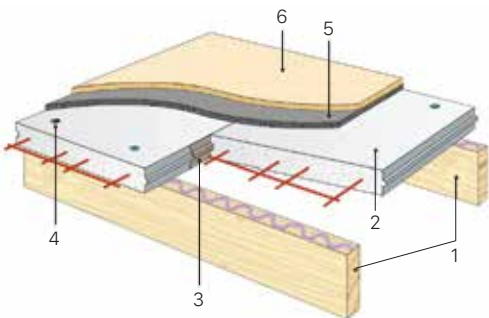
EBLOCK Panel installed horizontally

## EBLOCK FLOOR PANEL (Load bearing or Non-load bearing)

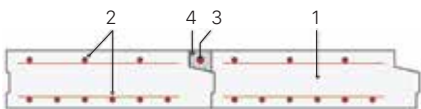
Specially designed with single or double layers of steel mesh with Diameter Ø4mm - Ø12mm in order to replace the conventional steel floor or roof, ensure the load-bearing strength and reduce the time of construction.



- 1. ACC EBLOCK WALL / 2. ACC FLOOR PANEL
- 3. CONNECTION REBAR STEEL / 4. CONCRETE BEAM



- 1. TIMBER (OR STEEL) JOIST / 2. AAC PANELS
- 3. ADHESIVE / 4. SCREW / 5. LEVELING ADHESIVE
- 6. FINISH FLOOR SURFACE (TILE, CERAMIC, GRANITE,...)



- 1. ACC FLOOR WALL / 2. REINFORCED STEEL INSIDE PANEL
- 3. REBAR / 4. CONCRETE BEAM



# EBLOCK PANEL

## TECHNICAL SPECIFICATIONS

### ► DIMENSIONS

LENGTH	FROM 1,200mm TO 4,800mm	
WIDTH	600mm	Not including Tongue & Groove detail
THICKNESS	FROM 50mm TO 200mm	Ø4mm – Ø12mm
REINFORCED STEEL MESH	Single or Double	

### ► PANEL TONGUE & GROOVE DETAIL



Flat Shape



T-Shape (Tongue & Groove)

### ► TECHNICAL SPECIFICATIONS

Specifications	Value
Compressive strength	3.0 ~ 7.5 (MPa)
Dry density	500 ~ 830 (kg/m3)
Thermal conductivity	0.11 ~ 0.18 (W/mK)
Fire resistance	4~8 (hours)
Sound Transmission Class	32~48 (dB)

### ► PANEL INSTALLATION

With its overall volumetric weight very light compared to other "light weight" Panels, EBLOCK AAC Panel is easy to be installed and applied in mass construction. In addition, the height and thickness of the panel can be customized to suit the design of each building and reduce the time of construction.



# EBLOCK MORTAR PRODUCTS

In order to build a complete wall system, we produce and supply thin-bed mortar, plastering mortars, skimcoat mortars and primer mortar according to TCVN 9028: 2011 standard.

EBLOCK mortar products are ready-mix dry mortar, with high adhesive strength, compatible with AAC EBLOCK blocks and

panels in order to replace traditional cement-based mortar. EBLOCK mortars enable cost-saving and easy application at job site, overcome the disadvantages of traditional mortar as well as ensure aesthetic aspect and technical requirements.

Mortars are delivered to site in 25kg Moisture Barrier Bag to facillitate delivery, storage and application.



Mortar Type	Product Code	Product Application	Estimated Rate
Thin-bed Mortar	EBT-104	Excellent workability and adhesion, ability to maintain high consistency and provide consistent correction time, create thin layer of mortar, save material and labor costs.	2.25 kg/m <sup>2</sup> (75mm thick wall) 3.0 kg/m <sup>2</sup> (100mm thick wall) 6.0 kg/m <sup>2</sup> (200mm thick wall)
Plastering Mortar	EBP-202	Apply directly on the surface of AAC EBLOCK wall, including external walls, increase adhesion and bonding, enhance waterproofing ability and wall surface quality.	10 kg/m <sup>2</sup> (for approximate 5mm thick)
Skimcoat Mortar	EBS-302	Apply directly on the surface of AAC EBLOCK wall, with a thickness of 1~5 mm for each layer. Material & labor costs and time saving. Suitable for interior walls.	4.3 kg/m <sup>2</sup> (for approximate 3mm thick)
	EBS-301		1.75 kg/m <sup>2</sup> (for approximate 1.25mm thick)
	EBS-300	Contain fine particles, which enables highly smooth wall surface. After rinsing, paint directly without putty layer.	1.25 kg/m <sup>2</sup> (for approximate 1mm thick)
Primer Mortar	EBH-401	The thin layer of primer mortar fixes the incompatibility of ordinary cement-based mortar before applying on AAC Block	1.0 kg/m <sup>2</sup> (for less than 1mm thick)

# EBLOCK MORTARS TECHNICAL DATA SHEET

## (AS REFER TO TCVN 9028:2011)

Technical Specifications (TCVN 9028:2011)	Unit	EBLOCK MORTARS					
		Thin-Bed Mortar	Plastering Mortar	Skimcoat Mortar	Skimcoat Mortar	Skimcoat Smooth Mortar	Primer Mortar
		EBT 104	EBP - 202	EBS - 302	EBS - 301	EBS - 300	EBH- 401
Largest Particle Size	mm	1.25	0.6	0.7	0.3	0.1	0.3
Consistency	mm	190-220	180-210	180-210	180-210	180-210	210-240
Water Retention	%	>90					
Setting Time	minutes	>200					
Correction Time	minutes	>10					
Chlorine Ion Content	%	< 0.1					
Minimum Compressive Strength (after 28 days)	MPa	7.5	7.5	7.5	7.5	5.0	5.0
Adhesive Strength	MPa	≥0.4					



Thin-bed mortar application by Notched Trowel



Thin joint AAC Wall



Plastering using EBP -202 EBLOCK Mortar



Skimcoat Mortar EBS-301 Application



Finish Coatings application on EBS-300 skimcoat surface (without putty layer)



Normal cement-based mortar application on the surface of Primer Mortar EBH-401



# HOW TO SELECT AN EBLOCK WALL SYSTEM

By supplying a complete set of products including AAC Blocks & Panels, water-resistant blocks, lintel, thin-bed mortar, plastering mortars, skimcoat mortars and other accessories, EBLOCK offers to customers a variety of selection With a wide range of flexible technical configurations, in line with the specified requirements of each project, EBLOCK Wall Systems have been widely used in Residential and Commercial buildings (apartment buildings, office buildings, hotels, hospitals, malls, etc.) and Industrial

buildings (factories, logistics warehouses, etc.)

EBLOCK is always ready to partner with you in all phases of your project and give free consultancy to you in order to select the most suitable wall system for your project, based on the criterias:

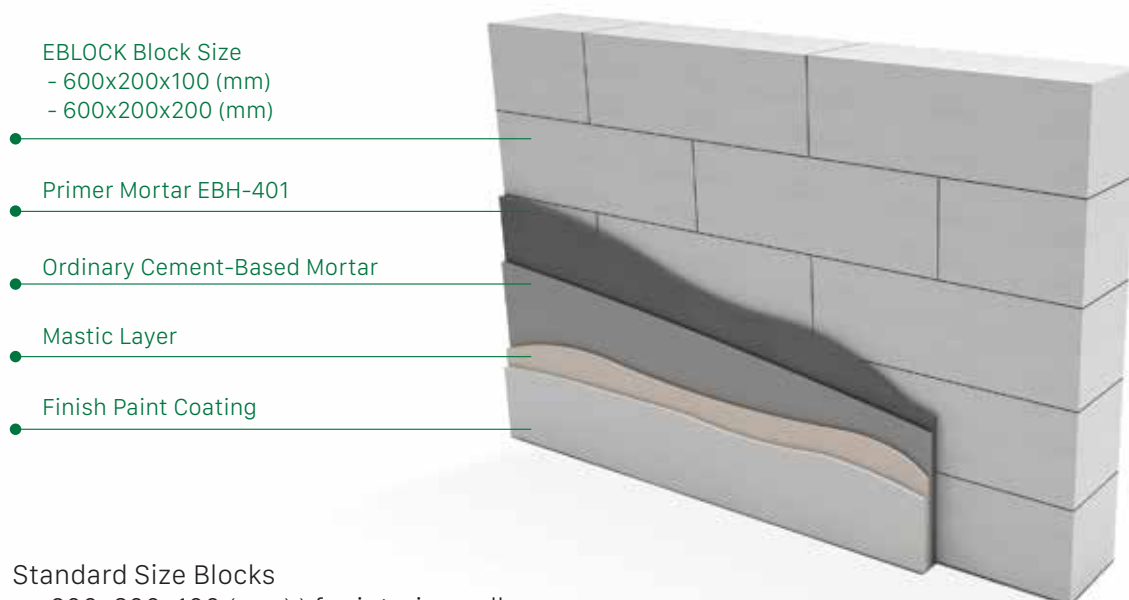
- Technical Specifications (Acoustics and Thermal Insulation, Fire Resistance rating, etc.)
- Design (Wall configuration, thickness, etc.)
- Project Budget
- Conditions at Site

## 3 STEPS TO CONFIGURE AND SELECT AN EBLOCK WALL SYSTEM

STEP 1 : SELECT YOUR BLOCK SIZE	STEP 2 : SELECT YOUR PLASTERING MORTAR	STEP 3: ACCESSORIES SELECTION
BLOCK CONFIGURATIONS	MORTAR CONFIGURATIONS	ACCESSORIES RECOMMENDED
<b>STANDARD</b> 600X200X100 (mm) 600X200X200 (mm)	<b>SAVING</b> 1 <sup>st</sup> Layer : SKIMCOAT EBS-301 2 <sup>nd</sup> Layer : SKIMCOAT EBS-300	<b>THIN-BED JOINT MORTAR</b> EBT-104
<b>LITE</b> 600X200X85 (mm) 600X200X150 (mm)	<b>BALANCE</b> 1 <sup>st</sup> Layer : SKIMCOAT EBS-302 2 <sup>nd</sup> Layer : SKIMCOAT EBS-300	AAC EBLOCK <b>LINTEL</b>
<b>LARGE SIZE</b> 600X400X100 (mm) 600X400X200 (mm)	<b>EASY</b> 1 <sup>st</sup> Layer : PRIMER EBH-401 2 <sup>nd</sup> Layer : ORDINARY CEMENT-BASED MORTAR	<b>FOAM</b> (MOVEMENT JOINT)
<b>X-LARGE SIZE</b> 600X800X100 (mm) 600X800X200 (mm)	<b>STRONG</b> 2 LAYERS OF EBP-202 PLASTERING MORTAR	<b>SEALANT</b> (MOVEMENT JOINT)
<b>PANEL</b> 600X3000X100 (mm) 600X3000X200 (mm)  1500X600X75 (mm) 1500X600X100 (mm) 1500X600X150 (mm)		STEEL CONNECTORS   WIRE MESH

# WALL SYSTEM : STANDARD SIZE BLOCK EASY PLASTERING CONFIGURATION

## ► TECHNICAL SPECIFICATIONS



- Standard Size Blocks
  - 600x200x100 (mm) ) for interior walls
  - 600x200x200 (mm) for exterior walls
- Plastering Configuration:
  - First Layer : Primer Mortar EBH-401
  - Second Layer : Ordinary Cement-Based Mortar
- Thin-bed joint mortar, lintel and other accessories recommended by EBLOCK

## ► BENEFITS:

- Block Size 9 times larger than conventional clay brick
- Construction time from 2 to 3 times faster at job site
- Easy to apply with the wall surface tolerance equivalent to conventional clay brick
- Simple and familiar construction method with ordinary cement-based mortar applied

## ► APPLICATIONS:

- Wall location with direct contact to external environment
- Flexible use in many different wall designs
- Application in Apartments, Office Buildings, Hotels, Shop Houses, Residential Houses, etc.



*Wall Installation with simple construction method*



*Tetra Pak Factory (VSIP II – Binh Duong)*

# WALL SYSTEM : LARGE SIZE BLOCK BALANCE PLASTERING CONFIGURATION

## ► TECHNICAL SPECIFICATIONS

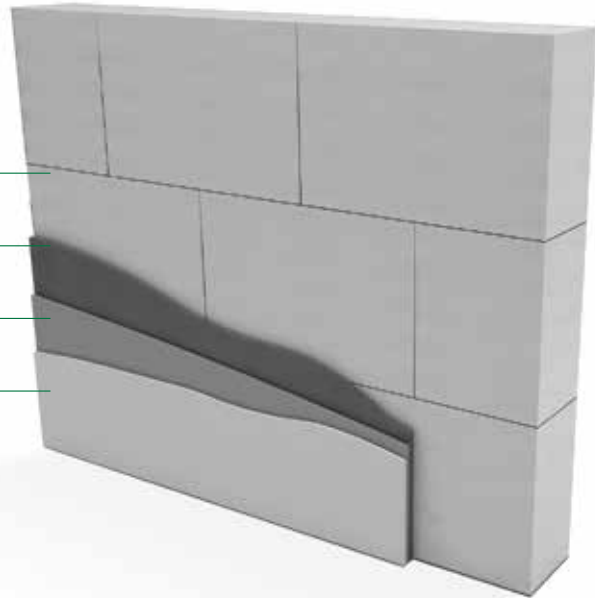
EBLOCK Block Size  
- 600x400x100 (mm)  
- 600x300x200 (mm)

Skimcoat Mortar EBS-302

Skimcoat Mortar EBS-300

Finish Paint Coating (Without Mastic)

- Large Size Blocks
  - 600x400x100 (mm) for interior walls
  - 600x300x200 (mm) for exterior walls
- Plastering Configuration:
  - First Layer : Skimcoat Mortar EBS-302
  - Second Layer : Skimcoat Mortar EBS-300
- Finish Paint coatings can be applied directly without mastic
- Thin-bed joint mortar, lintel and other accessories recommended by EBLOCK



## ► BENEFITS:

- Block Size 18 times larger than conventional clay brick
- Construction time from 4 to 5 times faster at job site
- Easy to control Construction Tolerance because of fewer seam
- Two thin layers of skimcoat mortar enable material cost saving
- Skimcoat EBS-300 super smooth surface enables direct paint coating application without the need of mastic
- Competitive overall cost to conventional clay brick wall

## ► APPLICATIONS:

- Interior Walls with few contact to external environment
- Uniform, straight and large area Walls
- Application in Apartments, Commercial Malls, Showrooms, Industrial Factories or Warehouses, etc.



CITIHOME Apartments Complex



M-ONE Nam Sai Gon Apartments  
(District 7, Ho Chi Minh City)



# WALL SYSTEM : EBLOCK PANEL 75MM THICK

## ► TECHNICAL SPECIFICATIONS

EBLOCK PANEL  
(horizontally installed)  
- 600x1500\*x75 (mm)

Skimcoat Mortar EBS-302

Skimcoat Mortar EBS-300

Finish Paint Coating (Without Mastic)



- EBLOCK Panel 75mm (single reinforcement)
  - Panel length from 1500mm to 3000mm
  - Panel thickness 75mm with single reinforced anti-corrosion steel mesh
- Plastering Configuration:
  - First Layer : Skimcoat Mortar EBS-302
  - Second Layer : Skimcoat Mortar EBS-300
- Finish Paint coatings can be applied directly without mastic
- Thin-bed joint mortar, lintel and other accessories recommended by EBLOCK
- \* Dimension can be adjusted and customized

## ► BENEFITS:

- Impeccable "pre-fabricated" building solution with outstanding quality and durability
- Super light material, only 50% weight compare to other "light" panels in the market
- Easy Installation without any special requirement of contracting team. Almost zero material tolerance
- Can be installed with flexibility; vertically or horizontally depend on design or site condition
- Skimcoat EBS-300 super smooth surface enables direct paint coating application without the need of mastic
- Super fast construction speed, at least 6 to 10 times faster than traditional wall

## ► APPLICATIONS:

- Interior Walls with few contact to external environnement and partition walls
- Uniform, straight and large area Walls
- Application in High-Level projects, in terms of technical requirements and construction speed



Contracting team to install EBLOCK panel vertically



Short Panel of 1.5 meters installed horizontally

# WALL SYSTEM : EBLOCK PANEL 150MM THICK

## ► TECHNICAL SPECIFICATIONS

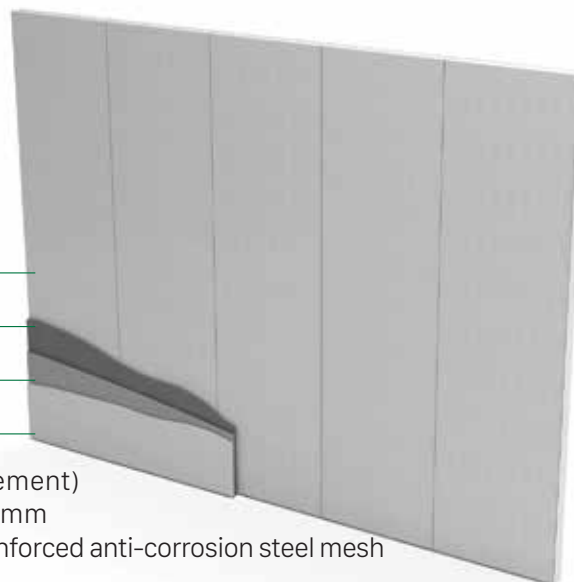
EBLOCK PANEL  
(horizontally installed)  
- 3000\*x600x150 (mm)

Skimcoat Mortar EBS-302

Skimcoat Mortar EBS-300

Finish Paint Coating (Without Mastic)

- EBLOCK Panel 150mm (single reinforcement)
    - Panel length from 1500mm to 4800mm
    - Panel thickness 150mm with single reinforced anti-corrosion steel mesh
  - Plastering Configuration:
    - Outer Skin:
      - First Layer : Primer Mortar EBH-401
      - Second Layer : Ordinary Cement-Based Mortar
    - Inner Skin
      - First Layer : Skimcoat Mortar EBS-302
      - Second Layer : Skimcoat Mortar EBS-300
- \* Dimension can be adjusted and customized



## ► BENEFITS:

- Impeccable "pre-fabricated" building solution with outstanding quality and durability
- Super light material, only 50% weight compare to other "light" panels in the market
- Easy Installation without any special requirement of contracting team. Almost zero material tolerance
- Can be installed with flexibility; vertically or horizontally depend on design or site condition
- Super fast construction speed, at least 6 to 10 times faster than traditional wall
- Easy customization for plastering configuration that can suit project requirements and optimize

## ► APPLICATIONS

- Curtain Wall, Cavity Wall and any Exterior Walls with frequent contact to external environment
- Uniform, straight and large area Walls
- Application in High-Level projects, in terms of technical requirements and construction speed



EBLOCK Panels applied in Maple Tree Business Center II Project - Singapore



EBLOCK Panels applied in Changi General Hospital Project - Singapore

# EBLOCK WALL CONSTRUCTION METHOD

Contruction works for AAC EBLOCK Wall are very fast and simple. Some working tools such as notched trowel, triangular trowel, rubber hammer, torpedo level, hand sanding or sawing machine enable the construction process correctly and comfortably.

**Step 1:** Clean up and prepare the surface, align the boundary wall by torpdedo. Apply a cement-sand mortar leveling bed with thick ness upto 5cm to create flat surface.



**Step 2:** Use notched trowel to apply mortar along the surface. Notched trowel is a special tool that enables faster execution, mortar saving and it ensures the adhesive strength and the width of seams between block lines to be correct.



**Step 3:** Align and locate the first block at corner position. Use torpedo and rubber hammer to ensure it is well located and balance.



**Step 4:** Repeat with next blocks and next lines using same method.



**Step 5:** Remove all excess adhesive on wall surface and patch all chipped blocks or damaged edges by thin-bed mortar .



**Step 6:** To cut chases easily by Hand Router tool for M&E tubes and fittings.





# PRECAUTIONS IN DESIGN AND CONSTRUCTION

## AAC EBLOCK WALL SYSTEMS

The design and construction of Wall systems made of AAC EBLOCK do not require any complicated methods, which differ hugely from traditional wall materials. Psychological concerns such as the application at water-sensitive areas (WC or bathroom), heavy duty suspension, frame openings (doors or windows), M & E works, etc. can all be handled without complication.

Some of the following precautions help to properly build the wall system and minimize any problems or wall cracks that may occur.

- Use correct working tools and compatible materials to AAC material (thin-bed mortar, plastering mortar, steel connectors, etc.) as recommended.



*Applying thin-bed mortar using notched trowel enhances adhesive strength and saves material consumed.*

- Properly follow construction method and guidances: do not use wet blocks, follow strictly instructions when mixing dry-ready-mix mortars, ensure block overlap and joints are fully filled with mortar, proper maintenance of wall after plastering, etc.



*Blistered and cracked wall surface due to application of non-compatible mortar directly on AAC Wall surface*

- Design and apply movement joints between AAC Wall and other material or load-bearing structures (Beam, column) to avoid cracks due to deflection or thermal movement



*Filling gaps and joints with PU foam or other compressible materials*

- Properly design and install M&E grooves, Frame Openings as per Manual Guide, apply reinforcement if neccessary



*Apply reinforced net at door and M&E groove location*

## TECHNICAL SUPPORT & COMPANION AT CONSTRUCTION SITE



In order to facilitate the design, construction and use of AAC lightweight blocks, EBLOCK Technical Support Team is always ready to accompany you in every phase of the construction project. We provide all these services for free of charge.

- EBLOCK provides consultancy and recommendations to perfect the wall system quality
- EBLOCK publishes a lot of technical books and manuals for design & construction
- EBLOCK is always available to assist, train, guide and execute mock-up samples at the site
- EBLOCK supervisors accompany and send Site Report periodically or upon request

*Because we understand, proper use and implement contributes to 50% of the finished quality of an EBLOCK Wall System !*

# PROJECT REFERENCES

Project Name	Location	Year	Investor	Contractor
APARTMENTS, HIGH-RISE BUILDINGS				
Green Valley Apartment	District 7, HCMC	2014	Phu My Hung	Vicons
Scenic Valley-MD3 Apartment	District 7, HCMC	2015	Phu My Hung	CSCEC
Scenic Valley-MD4 Apartment	District 7, HCMC	2016	Phu My Hung	CSCEC
Hung Phuc - S10-2 Apartment	District 7, HCMC	2016	Phu My Hung	Vicons
Midtown M5-M6 Apartment	District 7, HCMC	2018	Phu My Hung	Vicons
Riverpark Premier - H24 Apartment	District 7, HCMC	2018	Phu My Hung	Vicons
First Home Thanh Loc Apartment	District 12, HCMC	2014	N.H.O	Handong
First Home Premium Binh Duong Apartment	Thu Dau Mot, Binh Duong	2015	N.H.O	Handong
First Home An Giang Apartment	Long Xuyen, An Giang	2015	N.H.O	Handong
First Home Sky 9 Apartment	District 9, HCMC	2016	N.H.O	Handong
Kim Bao Apartment- Dockland	District 7, HCMC	2013	Navicons	Nam Chi, Thai Viet Phat
Habitat Apartment	Vsp, Binh Duong	2016	Vsip- Sembcorp	Cofico
Galaxy 9 Apartment	District 4, HCMC	2015	Noaland	Hoa Binh
Icon 56 Apartment	District 4, HCMC	2015	Noaland	Hoa Binh
Tropic Garden Apartment	District 2, HCMC	2015	Noaland	Hoa Binh
Kingston Residence Apartment	Phu Nhuan District, HCMC	2016	Noaland	Tan Ky
River Gate Apartment	District 4, HCMC	2017	Noaland	Hoa Binh
HQC Plaza Apartment	Binh Chanh District, HCMC	2015	Hoang Quan	Nam Quan
The Ascent Apartment	District 2, HCMC	2015	Tien Phat	Hoa Binh
Krista Apartment	District 2, HCMC	2015	CapitalLand	CSCEC
Krista- C3 Apartment	District 2, HCMC	2016	CapitalLand	CSCEC
Saigon Centre 2 Commercial Center	District 1, HCMC	2015	Keppel Land	Hoa Binh
Estella Heights Building Phase 1	District 2, HCMC	2016	Keppel Land	Hoa Binh
Estella Heights Building Phase 2	District 7, HCMC	2018	Keppel Land	Cofico
Feliz En VistaApartment	District 2, HCMC	2018	CapitalLand	CSCEC 32
Green Hills Apartment & Commercial Center	Binh Tan District, HCMC	2014	Tam Hai	Hoa Binh
Sunview Apartment	Go Vap District, TP HCMC	2015	Dat Xanh	Handinco
Luxcity Apartment	District 7, HCMC	2016	Dat Xanh	An Thien Phu
Saigon South Office Building	District 7, HCMC	2016	Maple Tree VN	Hoa Binh
Citi Home Apartment	District 2, HCMC	2016	Kien A	Cosaco
M-One Nam Sai Gon Aparment	District 7, HCMC	2016	Masteri Thao Dien	Unicons
Soho Riverview Apartment	Binh Thanh District, HCMC	2016	SGCC	SGCC
Soho Premier Apartment	Binh Thanh District, HCMC	2016	SGCC	SGCC
Flora Fuji Apartment	District 9, HCMC	2016	Nam Long	An Phong
Ehome 3 Apartment	Binh Tan District, HCMC	2016	Nam Long	Nam Khang
Ehome 5 Apartment	District 7, HCMC	2014	Nam Long	Nam Khang
Ehome 6 Apartment	District 9, HCMC	2015	Nam Long	An Phong
Ehome S Apartment	District 9, HCMC	2016	Nam Long	Nam Khang
Nassim Thao Dien Apartment	District 2, HCMC	2016	Son Kim Land	Posco E&C
Jamona Apartment	District 7, HCMC	2016	Sacomreal	Toan Thinh Phat
Khuong Viet Apartment	Tan Phu District, HCMC	2016	Resco Tan Binh	Resco Tan Binh
Nguyen Kim Apartment	District 10, HCMC	2017	Resco Sai Gon	An Phong
The Garden Mall Apartment	District 6, HCMC	2017	Van Thinh Phat	Hoa Binh
Hiep Thanh Apartment	District 12, HCMC	2017	Dinh Khiem	SC5
The Goldview Apartment	District 4, HCMC	2017	Diem Sai Gon	Coteccons
City Garden Promenade Apartment	Binh Thanh District, HCMC	2017	Can ho Vuon Pho	Coteccons
Binh An Apartment - Vung Tau	Vung Tau City	2016	Hodeco	Dai Hong Son
Binh Gia Resident Apartment - Vung Tau	Vung Tau City	2017	Hodeco	Dai Hong Son
The View Riviera Point Apartment	District 7, HCMC	2018	Keppel Land	Hoa Binh
Palm Heights Building	District 2, HCMC	2018	Keppel Land	An Phong

Project Name	Location	Year	Investor	Contractor
HOTELS, OFFICES				
Pullman Saigon Hotel	District 1, HCMC	2013	Que Huong Liberty	Canh Quan Xanh
Ibis Nha Trang Hotel	Nha Trang City	2016	Khanh Tam	Canh Quan Xanh
Queen An Hotel	Nha Trang City	2016	Queen Ann Hotel	Phu Long
Vietcombank Tower	District 1, HCMC	2015	Vietcombank Bonday	Cofico
Ibis Hotel	District 7, HCMC	2012	Viet Han	U&I
Fusion Suites Saigon Hotel	District 1, HCMC	2015	Serenity Holding	DHC
Avanti Hotel	District 1, HCMC	2015	Vision Hotel Investment	Coma9
Tiamo Binh Duong Compound	Thu Dau Mot, Binh Duong	2014	Cong ty CPXDTV DT Binh Duong	Cong ty CPXDTV DT Binh Duong
SCHOOLS, UNIVERSITIES, HOSPITALS, STATE BUILDINGS				
RMIT University	District 7, HCMC	2012	Ton Duc Thang University	Hoa Binh
Ton Duc Thang University	District 7, HCMC	2014	Ton Duc Thang University	Kim Qui
Hutech University	Binh Thanh District, HCMC	2014	Hutech University	An Phong
Dong Nai General Hospital	Bien Hoa, Dong Nai	2014	So Y Te Dong Nai	Cotecland
Ho Chi Minh City Children's Hospital	Binh Chanh District, HCMC	2015	So Y Te TP. HCM	CC1
Medical Examination & Diagnosis Center Binh Thanh Cancer Hospital	Binh Thanh District, HCMC	2016	So Y Te TP. HCM	Coma9
Hoa Lam International Hospital	Binh Tan District, HCMC	2016	Cong ty CP DT PT Hoa Lam	Hoa Binh
Can Giuoc General Hospital	Can Giuoc, Long An	2015	So Y Te Long An	Viet Dung
Binh Duong New City State Building	Thanh Pho Moi, Binh Duong	2013	UBND tinh Binh Duong	Becamex IDC
Ho Chi Minh City Party Committee Office	District 3, HCMC	2106	Thanh Ly TP. HCM	Cofico
FACTORIES, INDUSTRIAL BUILDINGS				
Biomin Factory	Vsp II, Binh Duong	2013	Biomin Vietnam	Antaco
Saitex Factory	Amata, Dong Nam	2013	Saitex International (Viet Nam)	Nam Viet
Cocacola Factory	Thu Duc District, HCMC	2014	Cocacola Viet Nam	Unicons
Camoplast Solideal Tyre Factory	Vsp II, Binh Duong	2014	Camoplast Solideal Viet Nam	Unicons
AB Inbev Brewery Factory	Vsp II, Binh Duong	2014	AB Inbev	Descon
Vina Kyoei Steel Factory	Tan Thanh - BR VT	2013	Vina Kyoei	Phu Hung Gia
Heineken Brewery Factory	District 12, HCMC	2017	Heineken Vietnam	Tan Viet Tin
Bowker Factory & Warehouse	Binh Duong, HCMC	2017	Bowker - Hong Kong	Phuc Thinh
Huafu Factory	Ben Luc, Long An	2016	Huafu Viet Nam	Unicons
SMC Factory	Long Thanh, Dong Nai	2017	SMC Viet Nam	Kajima
First Solar Factory - Phase 1+2	Cu Chi, HCMC	2017	First Solar VN	MW
Tetra Pak Factory	Vsp II, Binh Duong	2018	Tetra Pak VN	Unicons

EXPORT PROJECT REFERENCES				
Project Name	Location	Year	Contractor	
Shen Ao Duan	Keelung, Taiwan	2016	Chyi Yu Construction Co., LTD	
Qiao Bei An	Tainan, Taiwan	2016	Chyi Yu Construction Co., LTD	
Jin Hua An	Tainan, Taiwan	2016	Chyi Yu Construction Co., LTD	
Qing Shen An	Taoyuan, Taiwan	2016	Chyi Yu Construction Co., LTD	
Dong She An	Keelung, Taiwan	2016	Chyi Yu Construction Co., LTD	
Da Tong An	Tainan, Taiwan	2016	Chyi Yu Construction Co., LTD	
Xin Yue Cheng	Tainan, Taiwan	2016	Well Rich International Co.,LTD	
Xin Sheng Hua	Keelung, Taiwan	2016	Well Rich International Co.,LTD	
Guo Bin Da Yue	Keelung, Taiwan	2016	Well Rich International Co.,LTD	
Mapletree Business City 2	Singapore	2016	Shimizu Corporation	
Yishun Community Hospital	Singapore	2016	Shimizu Corporation	
Changi General Hospital	Singapore	2016	Shimizu Corporation	
The Rainforest	Singapore	2016	Nokano Corporation	
Genting Hotel	Singapore	2016	LOW KENG HUAT (Singapore) Limited	
Teesin Machinery Factory	Singapore	2016	Beng Khim Construction Company Pte Ltd	
Mapex – JDC	Singapore	2016	JDC Corporation	
The Tembusu Condominium	Singapore	2016	Shimizu Corporation	
SingPost Logistics Hub	Singapore	2016	Beng Khim Construction Company Pte Ltd	
1-Net North Data Centre	Singapore	2016	Beng Khim Construction Company Pte Ltd	
Toh Guan East Warehouse	Singapore	2016	Lum Chang Building Contractors Pte Ltd	
St Stephen's School	Singapore	2016	Beng Khim Construction Company Pte Ltd	

\* Until January, 2018



# PROJECT REFERENCES



*Tembusu Apartment Project (Singapore)*



*Zhu Bei Shui Long Apartment Project (Taiwan)*



*Midtown Complex Project - Investor : Phu My Hung*



*Estella Heights Apartment Project - Keppel Land*



*ICON 56 Apartment Project - NovaLand*



*Feliz En Vista Apartment Project -Capitaland*



# PROJECT REFERENCES



Saigon Center Commercial Mall Project



Binh Duong Province State Building



Sing Post Logistics Warehouse (Singapore)



Vinakyoei Factory Project



SMC Kajima Factory Project



Yishun Community Hospital Project (Singapore)



AB InBev (Budweiser) Brewery Factory



## **NEW ERA TILE BLOCK JOINT STOCK COMPANY**

### **HEAD OFFICE**

60 DANG DUNG STREET, TAN DINH WARD, DISTRICT 1,  
HO CHI MINH CITY, VIETNAM

### **FACTORY**

LOT E3-E4-E5-E6, THINH PHAT INDUSTRIAL ZONE,  
BEN LUC DISTRICT, LONG AN PROVINCE, VIETNAM  
TEL: (+84 28) 3526 7177      FAX: (+84 28) 3526 7178  
[WWW.E-BLOCK.COM.VN](http://WWW.E-BLOCK.COM.VN)