



2024

CORPORATE PROFILE

W&ATM
GROUP OF COMPANIES
GST Reg No. 201229810D

**INNOVATIVE
BUILDING
METHOD (IBM)**
瑞能国际有限公司



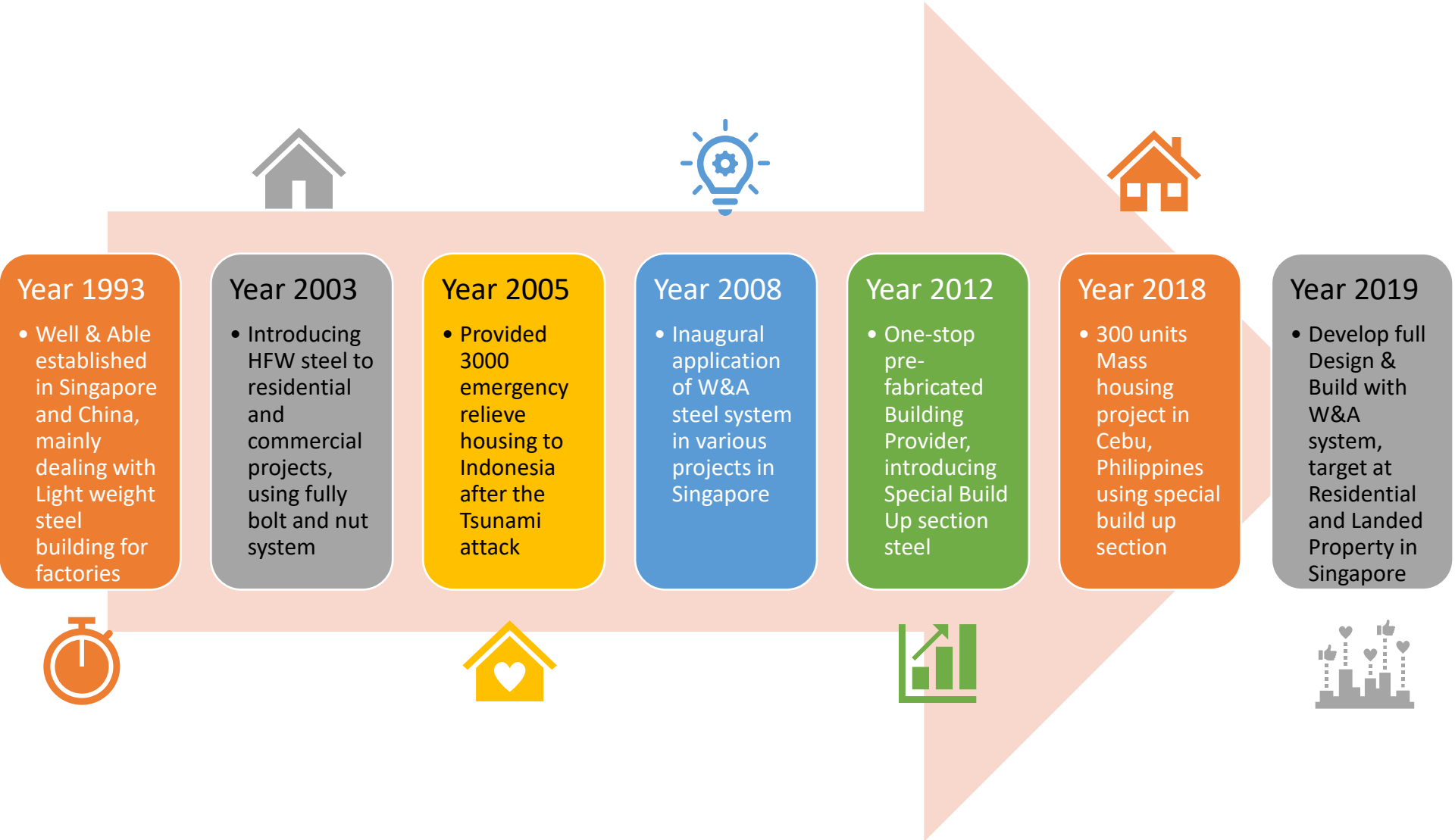
INTRODUCTION

ABOUT US

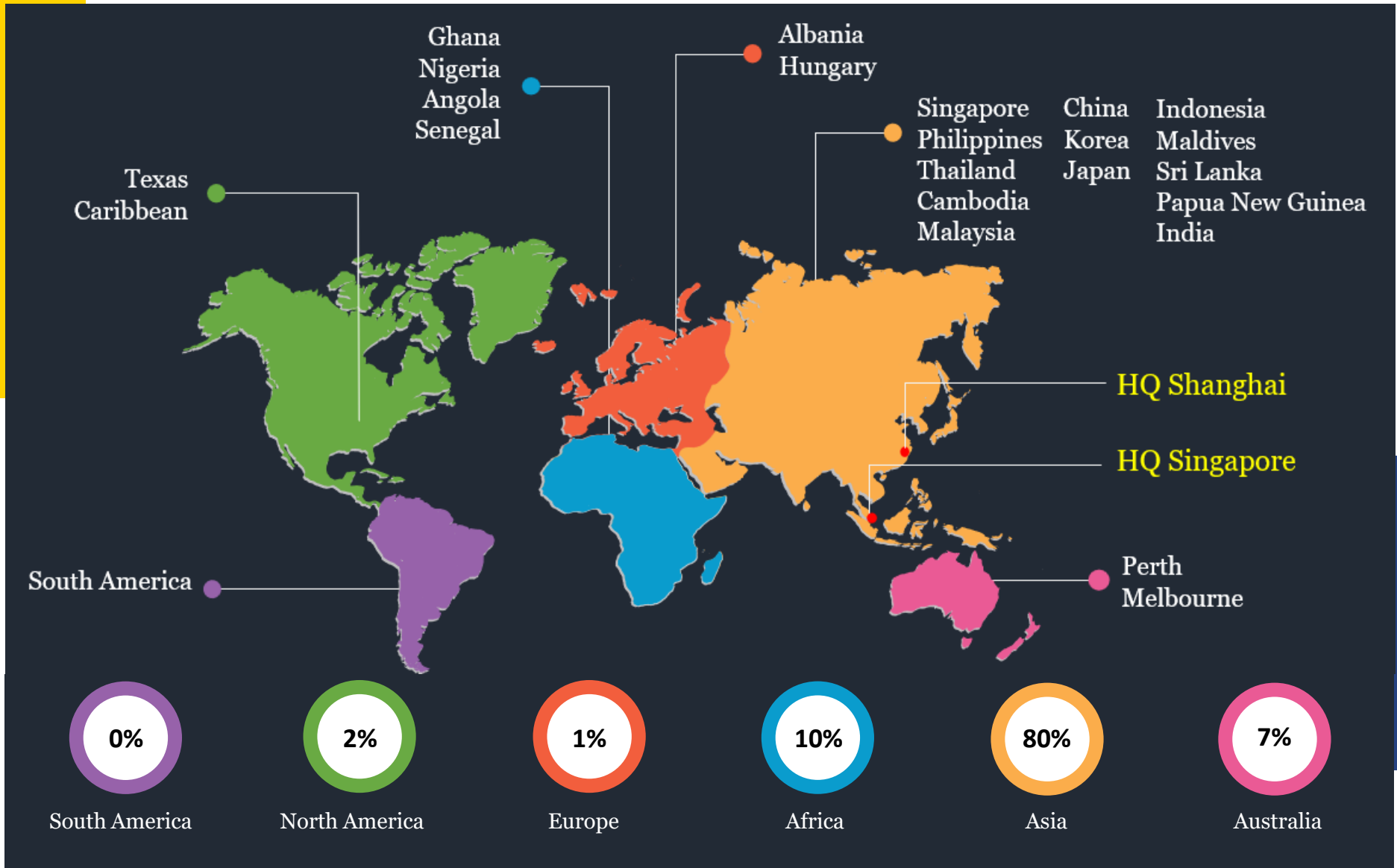
Company Snapshot

<p>Background</p>	<ul style="list-style-type: none"> • Substantial player in the regional Architectural, Engineering and Construction Industry • Over 35 Years of Experience in Manufacturing, Installation and Construction Solutions • More than 350 Sizeable Projects Executed Within the Asia-Pacific, Africa and Middle Eastern Region
<p>Ownership Structure</p>	<ul style="list-style-type: none"> • Holdings Company consisting of local and foreign wholly owned Subsidiaries/ Joint Ventures/ Partnerships • Majority Shares/ Decision Maker owned by Founder of W&A
<p>Key Offerings</p>	<ul style="list-style-type: none"> • Turnkey Building Solution using Prefabricated Material • Design and Build • Alterations and Additions
<p>Accolades</p>	

COMPANY MILESTONE



OUR REACH



COMPANY OBJECTIVE

KEY OFFERINGS

DESIGN/ SUPPLY/ MANUFACTURE/ INSTALLATION OF:

Design & Build Projects

Light Weight Steel Structure with Light
Weight Paneling Systems

Containerized Modular System

PPVC (Prefabricated Prefinished
Volumetric Construction)

Modular Interior and Carpentry

KEY OBJECTIVES

W&A BUILDING SYSTEM COMPETITIVE EDGE

Minimize Labor usage

Minimize Construction Equipment

Maximize Labor Income

Controllable Construction Material and Labor

Provide Developer Controllable Profit

COMPANY OBJECTIVE



Emphasis on Customer Focus by providing them with the latest and most effective solutions



Reduction of Construction Cost with product technology and Price Optimization strategies,

- Replacing the use of traditional Wet construction with methodical, environmentally friendly, Dry-Construction methods.
- Job Creation and Technology transfer to new markets.



Systematic rollout up to 6x faster,

- Strategic Labor Allocation Plans
- Time efficient Rollout Strategies

Customer Focus

Cost Efficient

Faster time to market

Trusted Provider



Proven Experience & Expertise in,

- Technical Site Surveys
- End to End Design & Build Construction
- Structural Analysis & Design
- Structural Customization
- Supply and Installation of Structural Components

OUR SERVICES

01

DESIGN

Archi and Structure

BIM Revit, Tekla, Midas
Programming

03

INSTALLATION

Technical Support

Turnkey Projects
Development Projects

02

FABRICATION

Structure and Finishing

Pre-Engineered Steel
Pre-Fab Panels
Aluminium & WPC

04

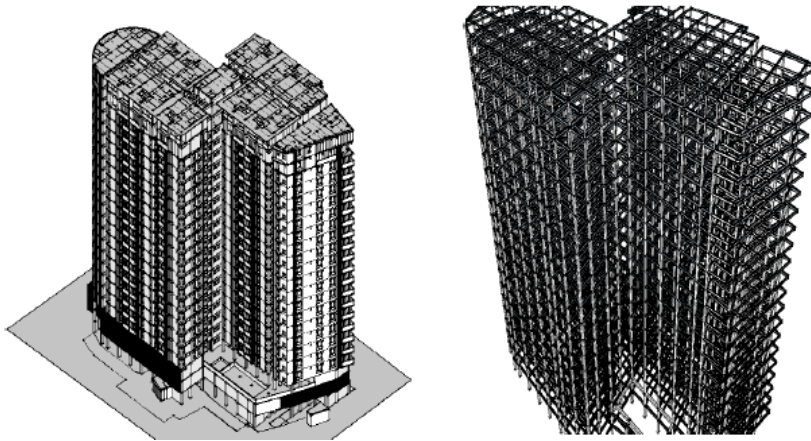
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Structure and Finishing

Pre-Engineered Steel
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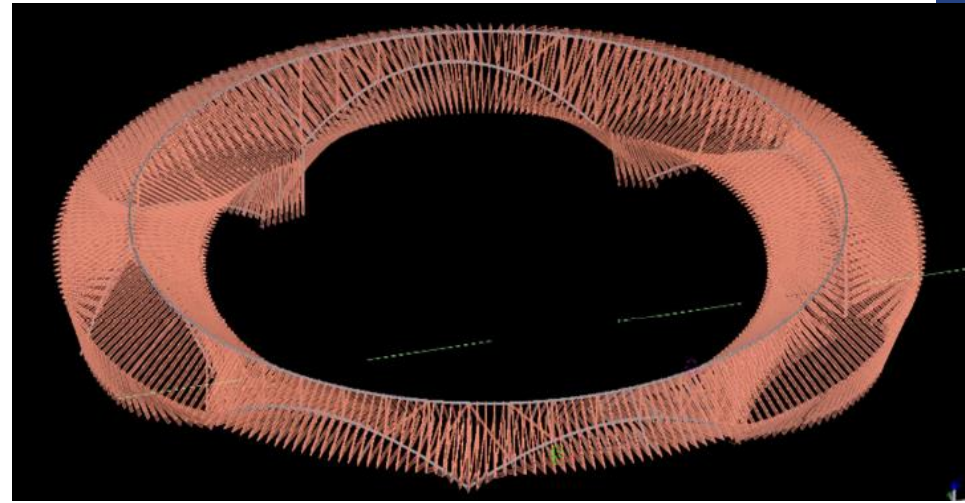
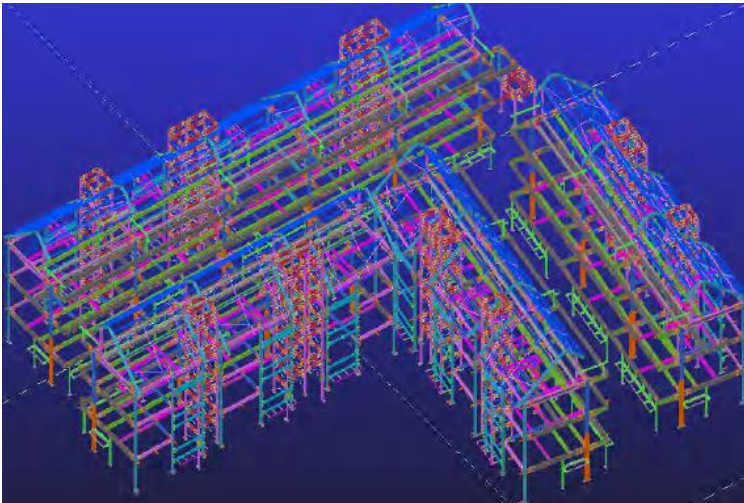
OUR SERVICES

Our Experience across different building categories - DESIGN



W&A In-House Engineer are equipped with the expertise and knowledge to perform structure calculation and design across a wide spectrum of buildings.

Well verse with Midas, E-Tab and Tekla Software to provide the complete steel structure design complying to local code of practice.



OUR SERVICES

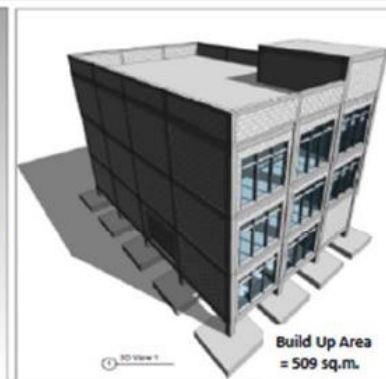
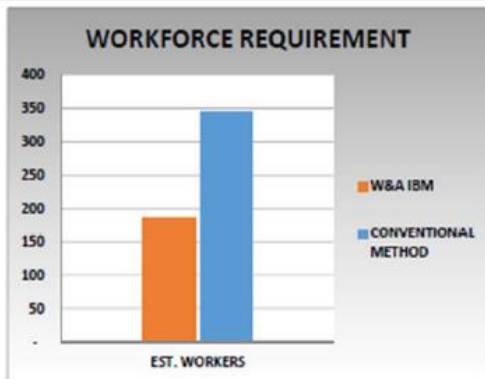
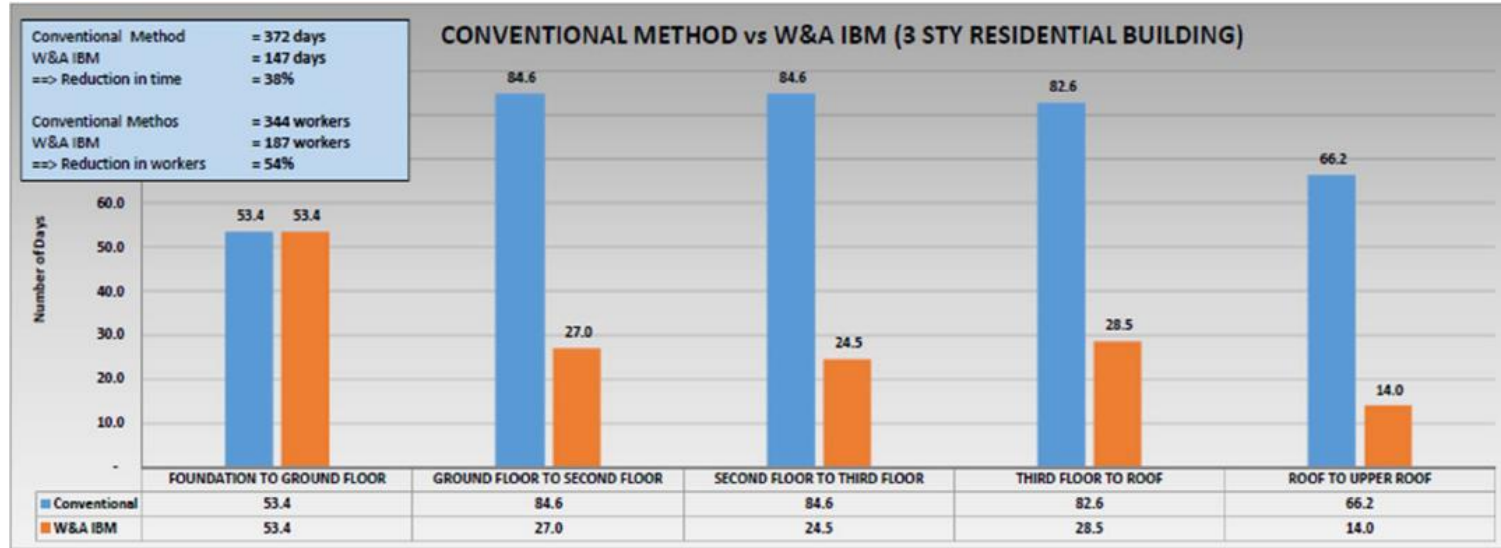
Our Experience across different building categories - INSTALLATION



W&A Project Team provides technical support, improve installation technique to provide client efficient installation time frame. This includes project management through out the entire project cycle from design to shipping to implementation

OUR SERVICES

Our Experience across different building categories – PREFAB TECHNOLOGY



W&A Pre-Fab System has been proven through many past projects the strong record demonstrating significant reduction in labor (M-hours) and reduction in construction time

OUR EXPERIENCE

W&A Group and its team have successfully completed projects over a wide spectrum of different industries locally and internationally

**Factory &
Warehouse**



**Dormitories
& Quarters**



**Multi
Storey &
High Rise**



**Residential
& Villa**



**Socialized
Housing**



Our Experience across different building categories

- **Public Sector**
School, Hospital, Bank, Museum, Airport Hanger etc.
- **Commercial**
Office, Hotel, Mall, Resort etc.
- **Residential**
Villa, Modular Affordable Houses, Apartment, Dormitory etc.
- **Industrial**
Factory, Warehouse etc.
- **Mixed Development & Others**
Office & Warehouse, Supermarket & Warehouse,
- **Pre-fabricated Volume Metric System**
Container Houses, Resort





PROJECT PORTFOLIO

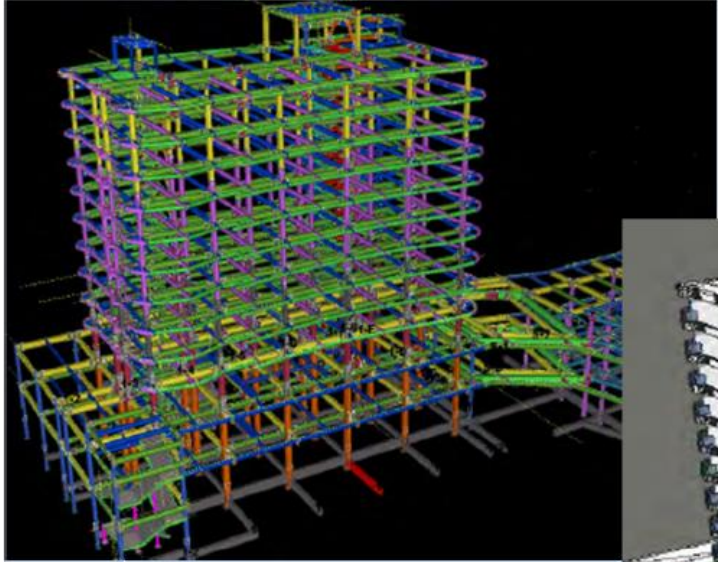


RESIDENTIAL/ COMMERCIAL (HIGH RISE)





RESIDENTIAL/ COMMERCIAL (HIGH RISE)



Steel Structure Calculation and Analysis using Tekla Software by our In-house Engineer

Compliance to respective country local Code of Practice

BIM Revit to carry out Architectural Model and Detailing

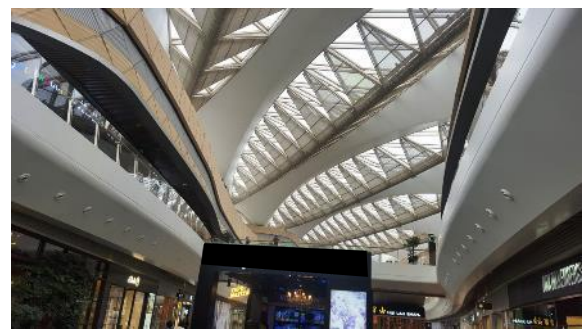
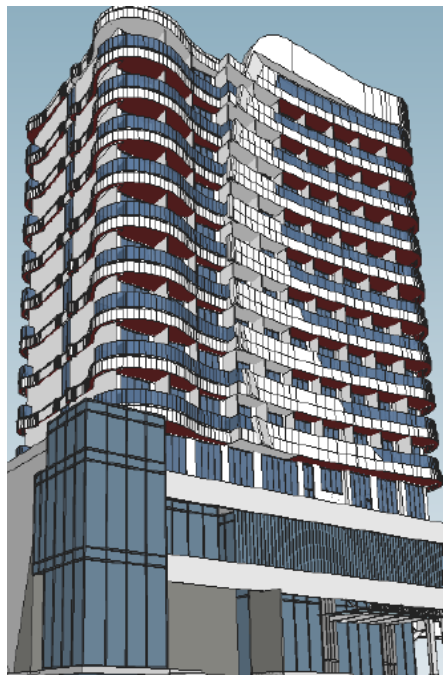
Our Designer provide BIM submission if required



PROJECT PORTFOLIO



CHINA – ZHU HAI – 18 STOREY APARTMENT – DESIGN TO COMPLETION – 8 MONTHS





SINGAPORE – 4 BLOCKS 12 STOREY APARTMENT – COMPLETED IN 12 MONTHS





CAMBODIA – 20 STOREY APARTMENT – ARCHITECTURAL AND STRUCTURE DESIGN





RESIDENTIAL/ COMMERCIAL (LOW RISE)





SINGAPORE – 7 STOREY CONDO, VENTURA VIEW





SINGAPORE – 7 STOREY MIXED DEVELOPMENT SEAH STREET





SRI LANKA – 7 STOREY OFFICE





COMMERCIAL & PUBLIC BUILDING





MALDIVES – PUBLIC MUSEUM



PROJECT PORTFOLIO



MALAYSIA – 6 STOREY MIX DEVELOPMENT



PROJECT PORTFOLIO



SINGAPORE – 7 STOREY MIX DEVELOPMENT. DESIGN Live Load 15kN/m² RAMP UP





MAURITIUS – 3 STOREY MIX DEVELOPMENT – DESIGN WIND SPEED 250 KM/H





CHINA – SHANGHAI – 15000m2 Supermarket



- Suzhou Metro Supermarket
- 15000m2 floor area
 - Bolt and Nut Pre-engineered Steel
 - Completion 90 days



CHINA – VARIOUS - SUPERMARKET



JUSCO MEGAWALL QINGDAO



BEIJING GREENHOUSE SHOPPING MALL

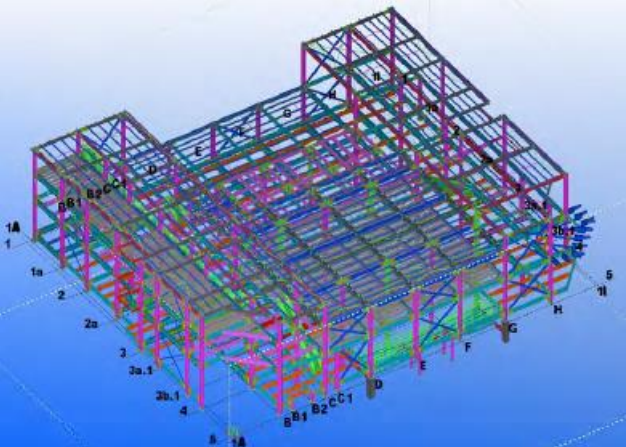


BEIJING MAKRO

PROJECT PORTFOLIO



PNG – SHANGHAI – 10000m2 Supermarket



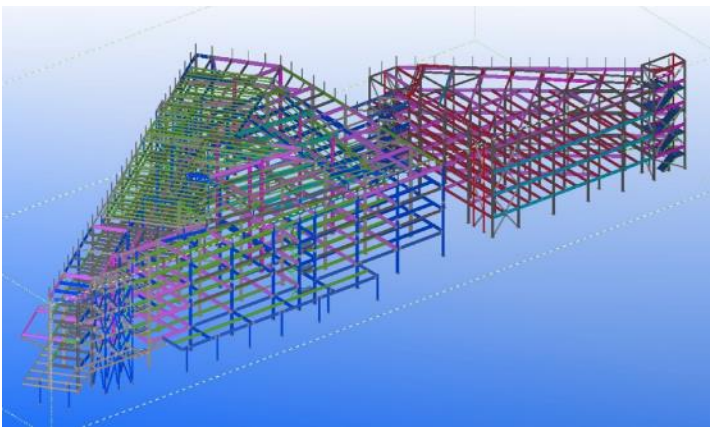


CHINA – 4 STOREY OFFICE USING PRE ASSEMBLED FLOOR STRUCTURE





SINGAPORE – TAN TOCK SENG HOSPITAL ANNEX BUILDING



PROJECT PORTFOLIO



VILLA / TERRACE / TOWN HOUSE





SINGAPORE – 4 STOREY CORNER TERRACE HOUSE





SINGAPORE – 4 STOREY SEMI-D HOUSE





SINGAPORE – 4 STOREY TOWN HOUSE



PROJECT PORTFOLIO



PNG – 40 UNITS 2 STOREY MODULAR HOUSE





AUSTRALIA – TOWN HOUSE AND VILLA (VARIOUS)





SHANGHAI-BEIJING – TOWN HOUSE & VILLA

Tang Shan Steel Villa



- LIGHTWEIGHT STEEL STRUCTURE
- WALL AND FLOOR PANELS
- ARCHITECTURAL FINISHES



SHANGHAI - VILLA



Total Build Up Area 5000 s.q.m



40 Unit Villas



Total Build Up Area 2000 s.q.m



32 Unit Villas

PROJECT PORTFOLIO



SHANGHAI - VILLA





CHINA - VILLA





RESORT & ISLAND CONSTRUCTION



PROJECT PORTFOLIO

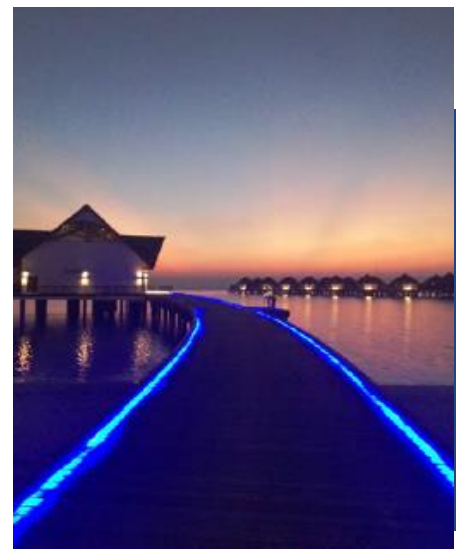


MALDIVES – RESORT & BOH





MALDIVES – RESORT





MALDIVES – RESORT & BOH



83 UNITS WATER VILLA

60 UNITS BEACH VILLA

- 26 BOH
- POWER HOUSE
- MAIN KITCHEN
- ENGR. BLDG
- LAUNDRY BLDG
- ADMIN BLDG
- STAFF MESS HALL



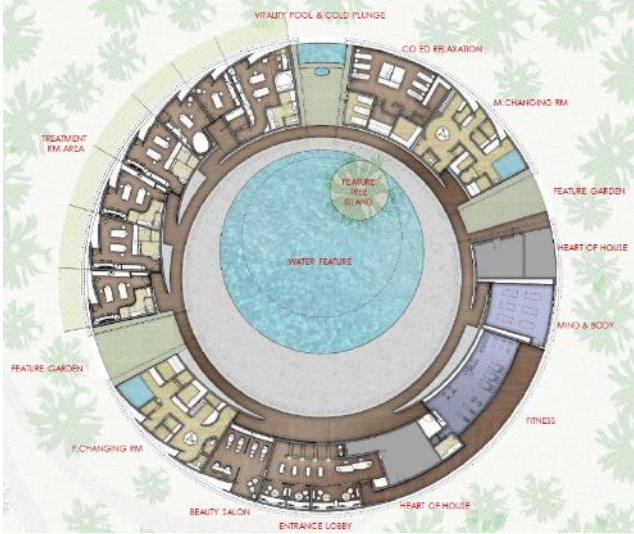
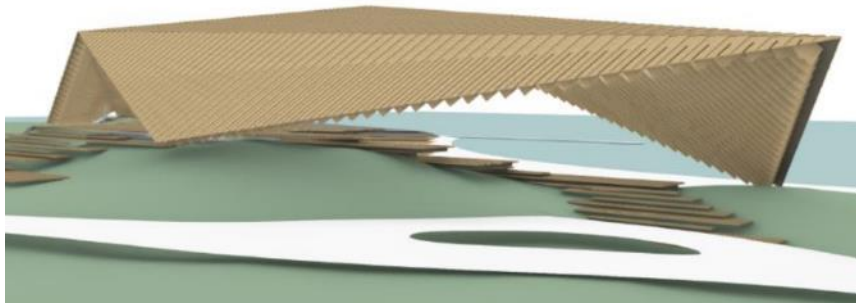
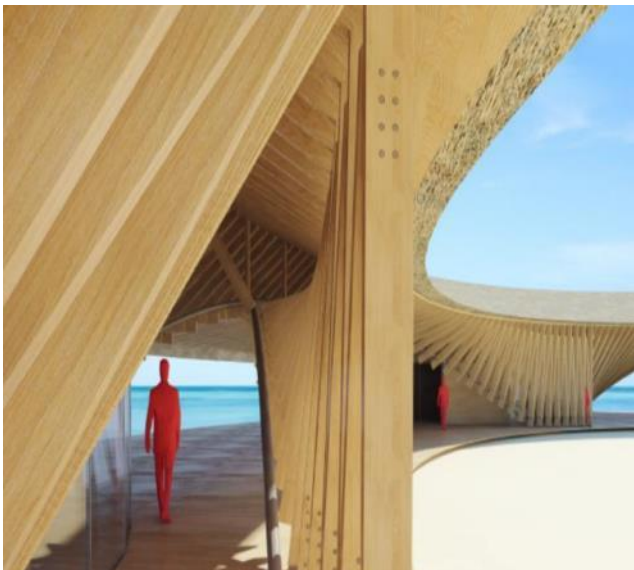
MALDIVES – RESORT & BOH



PROJECT PORTFOLIO



MALDIVES – RESORT & BOH





DORMITORY



PROJECT PORTFOLIO



DORMITORY





AFFORDABLE HOUSING





PHILIPPINE – AFFORDABLE HOUSING





VARIOUS – AFFORDABLE HOUSING



South Africa



Brunei



Indonesia



Uganda



Malaysia

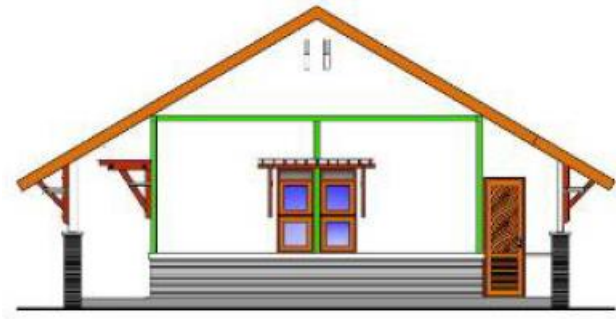


Malaysia





INDONESIA – TSUNAMI RELIEF HOUSING – 3600 UNITS



TAMPAK SAMPING KANAN
SKALA: 1:20





FACTORY & WAREHOUSE



PROJECT PORTFOLIO



MALAYSIA – MODULAR FACTORY WITH 2 STOREY OFFICE





MALAYSIA – MODULAR FACTORY WITH 2 STOREY OFFICE





CHINA – FACTORY/ PROCESSING PLANT



GE PLASTIC FACTORY



SONY FACTORY



KRAFT FACTORY



CHENGDU HENG CHENG TOOLS



SUZHOU JTCI STANDARD
FACTORY



JINSHAN JIA COCOA PROCESSING



GUILIN AIRCRAFT HANGAR



CHINA – FACTORY/ PROCESSING PLANT



CNOOC AMMONIA FERTILIZER FACTORY





PRE-FABRICATED VOLUMETRIC SYSTEM (PVS)

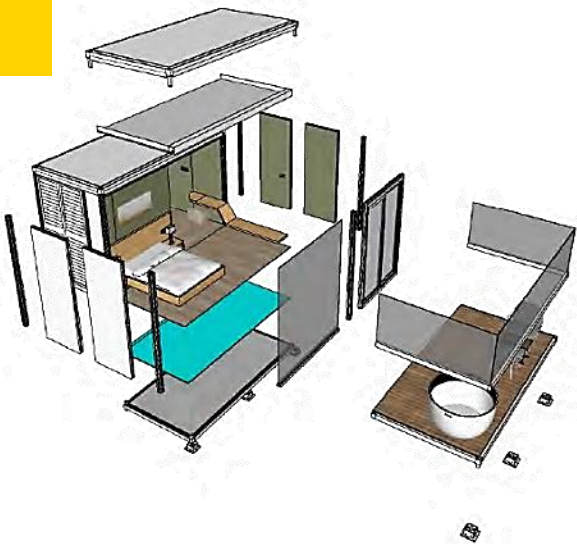




PVS CONCEPT & PRINCIPAL

W&A ® PVS SCOPE

Our concept of business is to provide a “One Stop” Solution for clients purchasing modular buildings. We develop the design concepts from client and designers' impression and manufacture a cost effective and timely modular housing system. Majority of required construction are manufactured and produced with our factory and manage the entire construction process for the client. Our dedicated team can produce a wide range of multi-purpose buildings from modular homes to general infrastructure needs, including accommodation, medical, emergency services and multi storey buildings.



PVS CONCEPT & PRINCIPAL

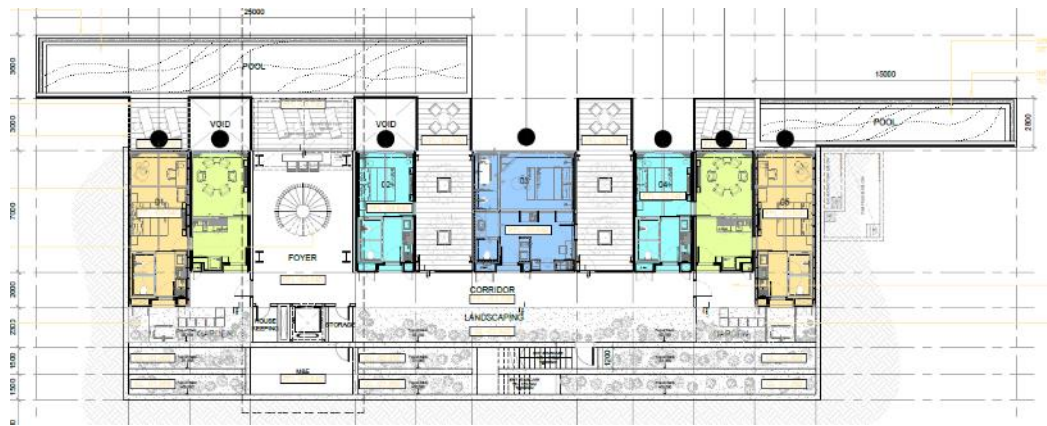


W&A ® PVS – offers client and architect standard design modules and/or the alternative to customize the size, layout and configuration of the modules that suit their development, usage and budget

PROJECT PORTFOLIO



CAMBODIA – PREFAB MODULE





PREFABRICATED VOLUMETRIC SYSTEM



PBV System using ALC Light Weight Panel



PBV System using standard container



PREFABRICATED VOLUMETRIC SYSTEM



PBV System using light weight insulated wall panels suitable to be used as temporary facilities such as Site Office, Isolation Unit and Workers Dormitories

PREFABRICATED VOLUMETRIC SYSTEM

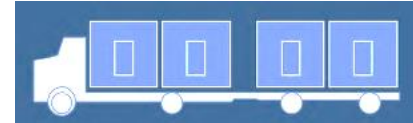
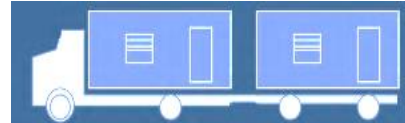
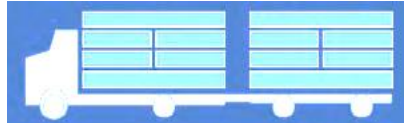
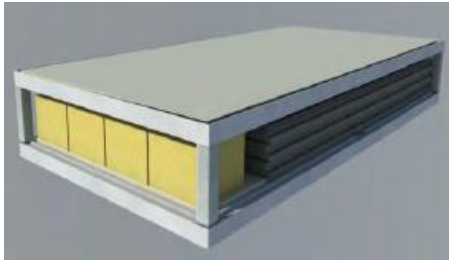
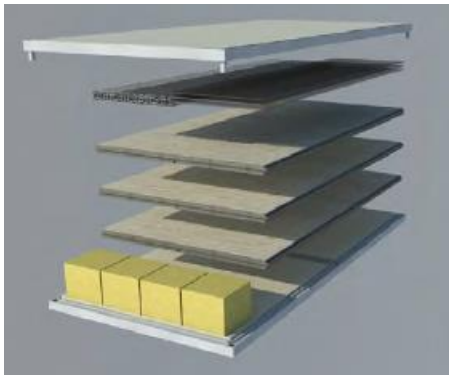


PBV System using light weight insulated wall panels can be designed as a 2 storey buildings and be fitted with En-suite prefab toilet module. The module can be lifted as one complete unit for relocation purposes



PREFABRICATED VOLUMETRIC SYSTEM – FLAT PACK OPTION

PBV System could be designed and pre-assembled as Flat Pack System. This reduces site installation works and module is easily transportable

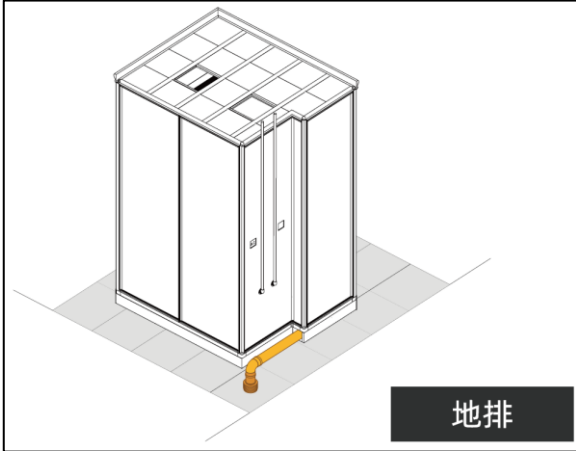
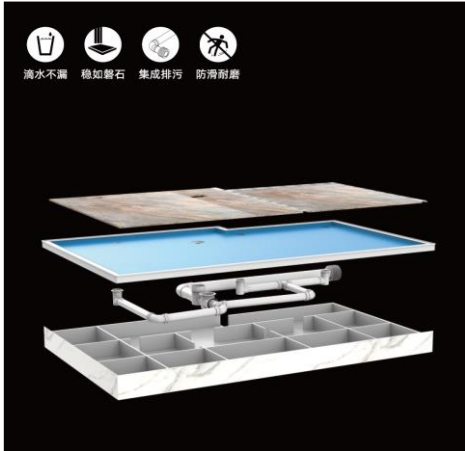




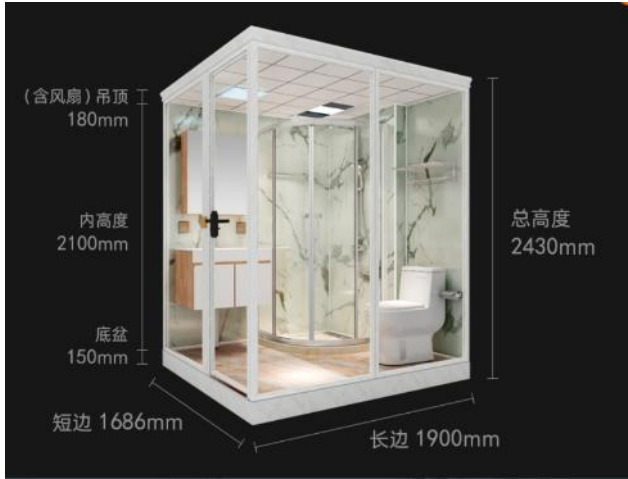
PREFABRICATED VOLUMETRIC SYSTEM – EASY INSTALLATION



PREFABRICATED VOLUMETRIC SYSTEM – MODULAR TOILET



REFAB TOILET MODULE CONCEPT and DESIGN. MODULE CAN BE EASILY INSTALLED WITH MINIMAL WORKERS REQUIRED



PROJECT PORTFOLIO

PREFABRICATED VOLUMETRIC SYSTEM – MODULAR TOILET

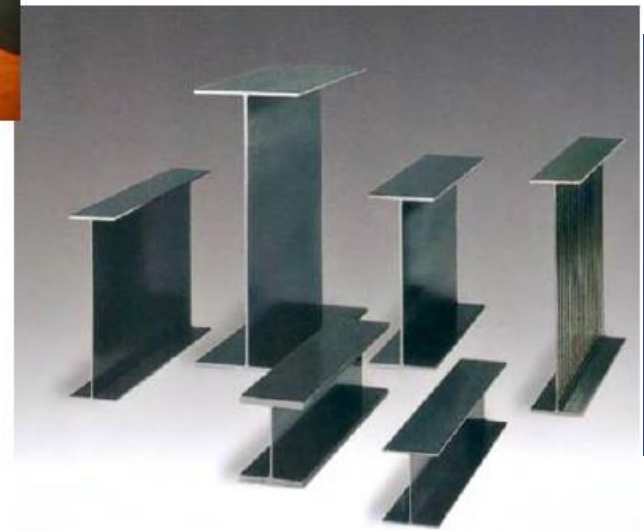




W&A PRODUCTS

Customize Steel Structure manufactured to optimize structure design weight

- Uses High Frequency welding technology which continuously welds three strips of steel together
- Customized Small cross sections e.g. Minimum from 75mmx75mm to maximum section of 500mm x 300mm
- Customized thickness of H section, e.g. Min. from 2.0 mm to 10 mm
- Customized Cutting to length to maximize efficiency and minimize wastages
- Engineer may design according to specific requirements and not be limited by standard Hot Roll H beam sizes thus enhancing efficiency and reducing costs significantly



HFW members could achieve sizes that are not found in Hot-rolled steel. This in turn will provide an exact member size requires by design hence lowering the cost of material

Customize Steel Structure manufactured to optimize structure design weight



Pre-engineered Steel with member sizes being able to be handled without heavy machineries

BESTATM ALC PANEL



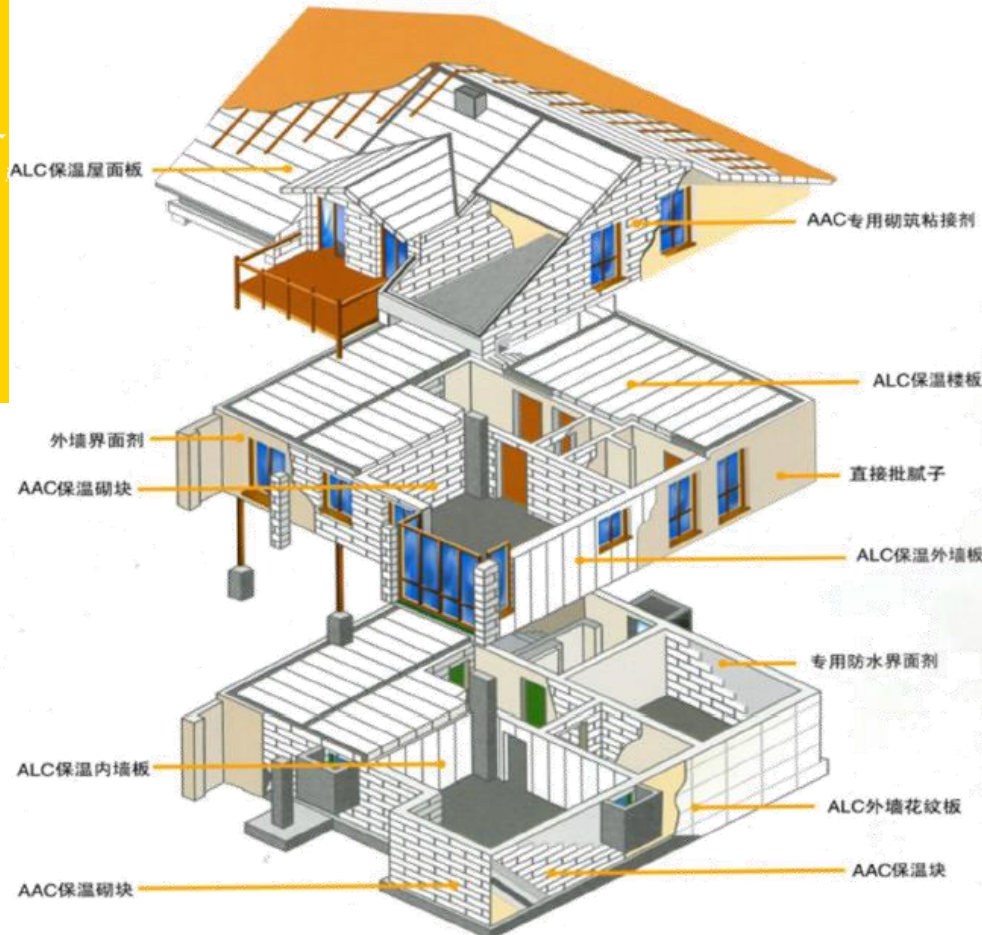
The **BESTATM Autoclaved Lightweight Concrete (ALC) Panel** is a sustainable green building material designed for convenient and effective construction. Developed to be freely applicable in wall, floor, and roof systems, the ALC panel is also characterized by excellent fire resistance and acoustic insulation. The tongue and groove feature on ALC panels ensures greater joint security which results in better prevention of water leakages. Lighter than most of its substitute products, the ALC panels facilitate easier and faster installation processes. Furthermore, the assembled panels require only a layer of concrete topping before being effectively transforming into a monolithic construct ready to receive architectural finishes.

BESTATM ALC PANEL

- High precision manufacturing process delivers high quality product with low tolerances for dimensional deviations;
- Lack of need to prop the panels during installation allows for activities in both lower and upper levels to proceed simultaneously;
- The panel's light weight and convenient joint design results in a typical placement rate of 50 m/day per worker;
- Minimal storage requirements due to high installation speed and stacking capacity (up to 6 pallets);
- Lighter overall structural load results in savings in foundations work;
- Environmentally conscious manufacturing process;
- Custom made to required length and paired with dry construction techniques, the panels require minimum onsite processing ;
- Naturally flat surface even prior to grouting makes for a safer working platform right from the start;
- Adequately equipped team of technical staff stand ready to assist in coordination efforts, preparation of panel layout plans, and system advice or recommendations



BESTA™ ALC PANEL – APPLICATION OF ALC



ALC Panel with its material characteristics and excellent performance to the environment, the same material can be applied as external and internal wall, floor slab, toilet and even as roof slab.

ALC Wall Panel do not require wall plastering

ALC Floor Panel can be designed as floor slab to eliminate the usage of concrete

ALC Panel is consistent in quality and dimension hence offering a perfect aligned wall and floor

BESTATM ALC PANEL – APPLICATION OF ALC



As External/ Internal Wall



As Upper Floor Slab



As Ground Floor Slab



As Roof Slab

BESTATM ALC PANEL – CHARACTERISTICS



FAST INSTALLATION

30-40m² per day per group of 6 workers
No plastering required



LIGHT WEIGHT

Density of 650 kg/m³



ACOUSTIC PROPERTY

41-48dB sound insulation minimum
Air Bubble technology



FIRE RESISTANCE

4 Hours fire resistance with 100mm thk
Fire protection for steel structure



GREEN PRODUCT

Certified Green Label Product
Non-radioactive with rate of 12 μ /h



THERMAL CONDUCTIVITY

Heat Conductivity of 0.174 W/m.k
1/10 value of common concrete



ALC Density of 650 kg/m³ as compared to
Concrete Density of 2400 kg/m³

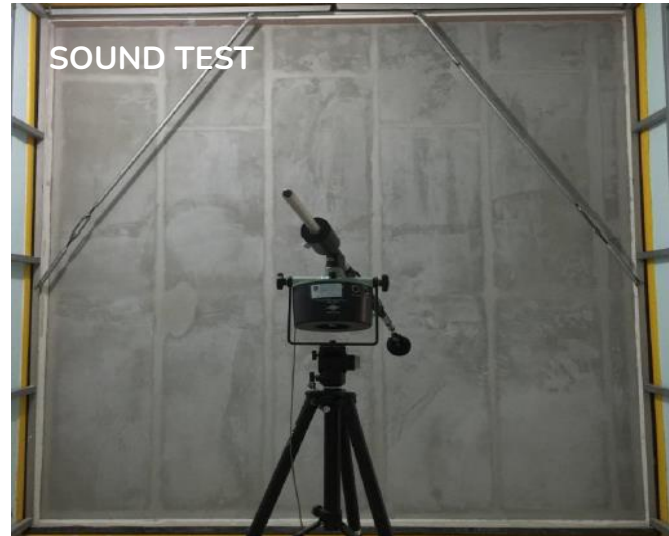
BESTATM ALC PANEL – CHARACTERISTICS



Door Slamming Test



Large Soft Body Impact –
Resistance to Damage



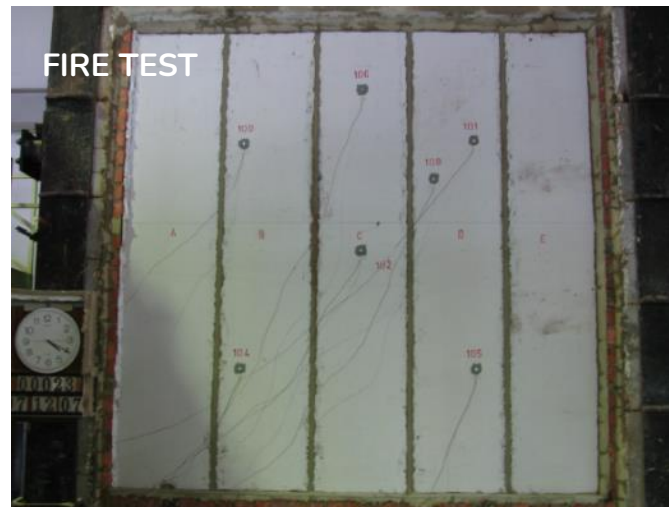
FIRE TEST



Stiffness Test



Crowd Pressure Test



PERFORMANCE TEST

PREFAB MODULAR INTERIOR

WHOLE HOUSE CUSTOMIZATION

Kitchen • Living • Bedroom • Bathroom



Here at Well&Able, we provide Interior ID design works and whole house customization on fixed and loose furniture.

Based on modular assembly, our team will work closely with you to provide a design for your dream home. Modular yet fully customizable allows you flexibility to select from our wide range of selection to suit the house floor plan.

PREFAB MODULAR INTERIOR – KITCHEN CABINET SAMPLE



PREFAB MODULAR INTERIOR – TOILET VANITY SAMPLE



PREFAB MODULAR INTERIOR – BEDROOM AND WARDROBE



**W&A
SYSTEM ADVANTAGE**



W&A SYSTEM – ADVANTAGES



DRY CONSTRUCTION

Tidy Site with controllable wastages



VARIOUS LENGTH

Maximum 6m single panel can be produced



CONCURRENT ACTIVITY

Allow site works to be carried out simultaneously

W&A SYSTEM – ADVANTAGES



Site Condition – Difference between
Reinforced Concrete Structure

VS

W&A Prefab System



No Formwork Required

Eliminate material & labor cost to install and dismantle formwork

No Propping Required

Allow work space on floors below

No Concrete Curing Time

Eliminate downtime

Overall Lighter Structure System

Yields lighter foundation requirements

Bolt & Nut Steel Structure

Eliminate welding works on site

High Productivity

Save on labor

Faster construction time



**WELL & ABLE HOLDINGS PTE LTD
WELL & ABLE CORP PTE LTD
WELL & ABLE OVERSEAS PTE LTD
WELL & ABLE PHILIPPINES., CORP.**

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