SMART HOUSE
Surprisingly Affordable. Surprisingly Smart.

PRODUCT CATALOG
The SMART choice for quality prefab in the Philippines.

We offer the best low-cost prefabricated modular buildings in the country. We design, build, and deliver our products nationwide. Now everyone can enjoy an affordable architecturally-designed home that is elegant, fully-customizable, and sturdy. Our prefab buildings are resilient against typhoons, strong winds, and earthquakes up to intensity eight. They are perfect for either permanent or holiday living, as they are not only durable but also fully transportable, making relocation quick and hassle-free.

We are a group of young trailblazers and innovators who pioneered the introduction of prefabricated construction technology in the Philippines.

In the midst of the country’s vigorous infrastructure activities, we are offering the most effective solution to the concomitant need for warehousing, factories, temporary housing and offices, barracks, canteens, clinics, dormitories, showrooms, poultry houses, toilet facilities, and guard houses. We have successfully completed such projects for many premier companies in the construction and food industries throughout the years.

We have engaged the services of technical experts and project managers to attend to the unique needs of our valued clients by delivering services that meet their highest expectations. We are indefatigable in researching new developments in construction methods so that we may always upgrade our approach to prefabrication.

We at SMARTHOUSE leave no stone unturned in researching and applying new technologies to provide ideal prefab structures for our communities.
Pre-Engineered Buildings

Light steel structure is used for this new type of building structure system, which is formed by the main steel framework lining at H section, Z section and U section steel components, roof, walls and windows make use of a variety of panels and other components.

BEST USES:
- Warehouses
- Large factories
- High-rise buildings
- Hangar
- Office buildings
- Home depot
- Showroom
- Multi-storey steel parking

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**SPECIFICATIONS**
- Wide span: single span or multiple spans
  - The max span clear distance is 50m without middle columns
- Low cost
- Fast construction and easy installation
- Long term service life: more than 50 years
- Environmental protection, stable structure, earthquake-resistant, water-proof, and energy-efficient

**HEIGHT**
- Height per floor can be customized
- Number of floors can be extended to over 20 floors

**WINDOW MATERIALS AND DESIGNS**
- Material choices: PVC or aluminum
- Design choices: Sliding, swing, or louver type
- Size may be customized based on client’s requirements

**WALL MATERIALS**
- Choices: Pre-painted GI sheets only, polystyrene insulation, polyurethane insulation, or traditional concrete hollow blocks

**CRANE**
- Inside crane can be customized based on client’s requirements of tonnage and location

**ROOF MATERIALS**
- Choices: GI sheets only, polystyrene insulation, or polyurethane insulation that can be combined with skylight

**VENTILATION**
- Material choices: roof ventilator, axial fan, or louver windows

**DOOR MATERIALS AND DESIGNS**
- Material choices: insulated panel doors or steel doors
- Design choices: sliding door, rollup door, or swing door
- Size may be customized based on client’s requirements

**WIND RESISTANCE**
- Can be designed based on client’s specific requirements per area
- Can be assembled and disassembled
- 99% of materials can be used on relocation site
- Can add accessories based on client’s requirements

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**5,380 sqm LucenaPrefab Supermarket**
High-rise Building
Hangar

Multi-storey Steel Parking
1.5 Hectare Pre-Engineered Warehouse
Patented Luxury Type Container House

- FLATPACKED, MODULAR, AND STACKABLE
- EASY TO ASSEMBLE, COMBINABLE, AND EXTENDABLE
- LOW COST

- **DIMENSIONS** 6m Length x 2.4m Width x 2.6m Height
- **WALLS** 2" polystyrene insulation with double-sided .45mm pre-painted GI sheet
- **ROOF** Glasswool insulation with pre-painted GI sheet roof and interior ceiling
- **DOOR** Steel door
- **FLOORING** Magnesium board with linoleum finish
- **WINDOWS** 2 sets of aluminum frame sliding windows
- **LIGHTING** 2 pcs. fluorescent lighting fixtures
- **ELECTRICAL** 2 electrical outlets, 1 main switch with circuit breaker
- **STEEL FRAME** Galvanized with painting
- **STACKING** Can be stacked up to 2 floors high
- **LIFTING** Can be lifted using crane or can be lifted manually when dismantled
- **ADDITIONAL OPTIONS** Toilet and bath, interior partitions

**BEST USES:**
- Site Offices
- Clinics
- Barracks
- Canteens
- Mini shops
- Guard houses
- Showrooms
- Temporary facilities
- Dormitories

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Laiya Patented Luxury Container House Village

SMART HOUSE
Surprisingly Affordable. Surprisingly Smart.

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Bataan Standard Container House with client cladding

Batangas Standard Container Resort House

Gensan Standard Container Manager's Quarters
Patented Foldable Container House

— SAVES SIX TIMES ON TRANSPORTATION COST
— SAVES EIGHT TIMES ON STORAGE COST
— 10-MINUTE INSTALLATION WITH 2 MEN AND A CRANE

- **DIMENSIONS** 5.85m Length x 2.5m Width x 2.45m Height
- **MATERIAL** Tubular steel structure
- **INSULATION** Styrofoam (EPS) 50m, 12kg/m3 EPS density
- **WALL** 50mm EPS sandwich panel 0.376mm double color steel sheets
- **ROOF** 50mm EPS sandwich panel 0.376mm double color steel sheets
- **FLOORING** 16mm MGO board +1mm PVC flooring
- **DOOR** 50mm steel EPS sandwich panel door, 12kg/m3 EPS density With stainless steel ball-type lock with keys
- **WINDOWS** PVC sliding window with single clear glass
- **STACKING** Stackable up to 2 floors
- **COLORS** Frame color as according to client’s liking
- **ADDITIONAL OPTIONS** Plumbing Toilet and bath

**BEST USES:**
- Hotel
- Villa
- House
- Dormitory
- Kiosk
- Showroom
- Booth
- Barracks
- Office
- Canteen
- Sentry box
- Temporary facility
- Shops
- Guard house
Standard Prefab House

— OUR MOST ECONOMICALLY-PRICED PREFAB
— WIND-PROOF AND EARTHQUAKE-PROOF
— UNIFORMLY SIZED WALL PANELS FOR EASY ASSEMBLY AND COMBINATION

- **DIMENSIONS**
  - Minimum size for 1st floor: 3.8m x 3.8m
  - Minimum size for 2nd and 3rd floors: 5.62m x 5.62m
  - Any extension may be customized as per client’s requirement

- **STACKING**
  - Maximum of 3 floors

- **STEEL STRUCTURE**
  - Double C Purlins

- **ROOFING**
  - Double-sided, oven-baked, ribbed-type GI sheet with 20mm pu insulation or 50mm Styrofoam insulation

- **WALLS**
  - Double-sided, oven-baked, ribbed-type GI sheet with 50mm insulated expanded polystyrene insulation

- **DOORS**
  - Aluminum frame with double-sided, oven-baked GI sheet with 50mm Styrofoam insulation

- **FLOORING**
  - Plywood flooring for 2nd and 3rd floors

**BEST USES:**
- Site Office
- Barracks
- Canteen
- Temporary Facility
- Dormitory
- Warehouse
- Factory
- Classroom
- Clinic
- Guard house
- showroom
- Shops
- Low-cost housing
- Vacation house
# Luxury Prefab House

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**CLEAN EXTERIOR LOOK**

**CUSTOMIZABLE SIZE AND ROOF DESIGNS**

**CUSTOMIZABLE WEIGHT REQUIREMENT (2ND FLOOR UP)**

**CUSTOMIZABLE WIND AND EARTHQUAKE RESISTANCE**

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<table>
<thead>
<tr>
<th>DIMENSIONS</th>
<th>Sizes may be customized based on client's requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>STRUCTURE</td>
<td>Tubular structure — does not need column foundations and can be built up to 2 floors, or I-beam steel structure — with column foundations that can be extended up to 24 floors</td>
</tr>
<tr>
<td>ROOFING SLOPES</td>
<td>One side slope, double slope, or four slope</td>
</tr>
<tr>
<td>ROOFING MATERIAL</td>
<td>Double-sided, oven-baked, ribbed type GI sheet with 50mm Styrofoam insulation</td>
</tr>
<tr>
<td>WALLS</td>
<td>Double-sided, oven-baked, plain GI sheet with 50mm insulated expanded polystyrene insulation</td>
</tr>
</tbody>
</table>
| WINDOWS | PVC sliding windows  
(May be altered according to client’s preference) |
| FLOORING | Standard plywood flooring from 2nd floor and up, but can be changed to steel deck with cement slab |
| DOOR | Double-sided, oven-baked GI sheet with 50mm Styrofoam insulation |
| ADDITIONAL OPTIONS | Toilet and bath, Electrical, Plumbing |

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**BEST USES:**

- High Rise Buildings
- Site Offices
- Barracks
- Canteens
- Temporary Facilities
- Dormitories
- Classrooms
- Clinics
- Guard Houses
- Showrooms
- Shops
- Warehouses
- Low-cost Housing
- Vacation Houses
Palawan Luxury Type Prefab Beach House
Cavite Luxury Prefab Commercial Stalls and Office

Luxury Prefab Office Warehouse

Luxury Prefab Main Building
Smarthouse Cement Panels

Cement panels are a lightweight, precast building material that simultaneously provides structure, insulation, fire, and mold resistance. Products include blocks, wall panels, floor, and roof panels, and lintels.

### Thickness (mm)
<table>
<thead>
<tr>
<th>Thickness (mm)</th>
<th>50</th>
<th>75</th>
<th>100</th>
<th>120</th>
<th>150</th>
<th>175</th>
<th>200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximal Length (mm)</td>
<td>2400</td>
<td>3000</td>
<td>4000</td>
<td>4500</td>
<td>6000</td>
<td>6000</td>
<td>6000</td>
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</tbody>
</table>

### Fireproofing Test Panel

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PANEL THICKNESS (mm)</th>
<th>TIME (hr)</th>
<th>NATIONAL STANDARD</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>50 mm panel only</td>
<td>1.57</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>75 mm panel only</td>
<td>&gt;2</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>10 mm panel only</td>
<td>3.42</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>120 mm panel only</td>
<td>&gt;4</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>150 mm panel only</td>
<td>&gt;4</td>
<td></td>
</tr>
</tbody>
</table>

### Panel Specifications

<table>
<thead>
<tr>
<th>ITEM</th>
<th>MODEL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>B05 A3.5</td>
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<tr>
<td>Anti-pressure Strength</td>
<td></td>
</tr>
<tr>
<td>Dry Density Grade (kg/m³)</td>
<td>&lt;=525</td>
</tr>
<tr>
<td>Thermal Conductivity (W/mK)</td>
<td>&lt;=0.14</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Anti-freeze 15 times Freeze &amp; Melt</th>
<th>Quality loss (%)</th>
<th>Strength after freezing (Mpa)</th>
<th>Dry Shrink Coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>&lt;=5</td>
<td>&gt;=3.2</td>
<td>&lt;=0.5</td>
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</tbody>
</table>

### Sound Insulation Test Panel

<table>
<thead>
<tr>
<th>ITEM</th>
<th>MODEL</th>
<th>TEST RESULT</th>
<th>TESTING STANDARD</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>100 mm AAC panel</td>
<td>36.7</td>
<td>GB375-84</td>
</tr>
<tr>
<td>2</td>
<td>120 mm AAC panel</td>
<td>41.7</td>
<td>GB375-84</td>
</tr>
<tr>
<td>3</td>
<td>150 mm AC panel</td>
<td>43.8</td>
<td>GB375-84</td>
</tr>
<tr>
<td>4</td>
<td>1180 mm AAC panel</td>
<td>46.7</td>
<td>GB375-84</td>
</tr>
<tr>
<td>5</td>
<td>1200 mm AAC panel</td>
<td>49.8</td>
<td>GB375-84</td>
</tr>
</tbody>
</table>
SMARTHOUSE CEMENT PANEL CHARACTERISTICS

- Water Proof
- Fire Proof
- High Strength
- Sound Proof
- Light Weight
- Thermal Insulation

SMARTHOUSE PRODUCT CATALOG
Prefab Guard House or Kiosk

**SPECIFICATIONS**
2.5mL x 1.5mW x 2mH, or
1.5mL x 1.5mW x 2.3mH

**INCLUDES:**
- Windows
- Aluminum frame with double-sided, oven-baked GI sheet with 50mm Styrofoam insulation
- Corrugated oven-baked GI sheet roof with 50mm Styrofoam insulation
- With steel base for easy lifting
- Can be customized based on client’s requirements

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Get in touch with us!

Call us or visit any of our showrooms:

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0923-426-0644

**Davao**

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