



Steel & Foam Cement Rapid Assembly Building Kit



- *Less than 4 days to Assemble.*
- *Full Fit & Finish Build-Out*
- *30 Days to Occupancy Permit.*



What is Foam Cement House:

House body parts:

1. Roof Panel: foam cement board
2. Purline: hot galvanized steel
3. A-Beam: hot galvanized steel
4. Floor Support Panel: foam cement board
5. Truss Support Floor : H steel
6. Wall Panel: foam cement board

Windows and doors:

7. Window: PVC, Aluminum Alloy or Broken Bridge Aluminum Window with single, double, triplex glass
8. Door: PVC, Aluminum or Wooden Door
9. Main Entrance Door: Steel Security or Wooden Door

House decoration:

10. Water Proof Materials: Asphalt Shingle or Water Proof Roll
11. External Wall Decoration Materials: Culture Stone, PVC Plate, or Latex Painting (Colors can be chosen)
12. Ceramic tile





Steel & Foam Cement Building Kits

- Galvanized Steel Frame
- 2-Fiber Cement Exterior Wall Panels
- Male/Female Interlocking Design
- Proprietary Foam Cement blown into the panel
- Optional Electrical and Water Pipes inserted inside the wall

Male/Female
interlocking feature
with 2mm separation

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Connected Panels with
galvanized steel track



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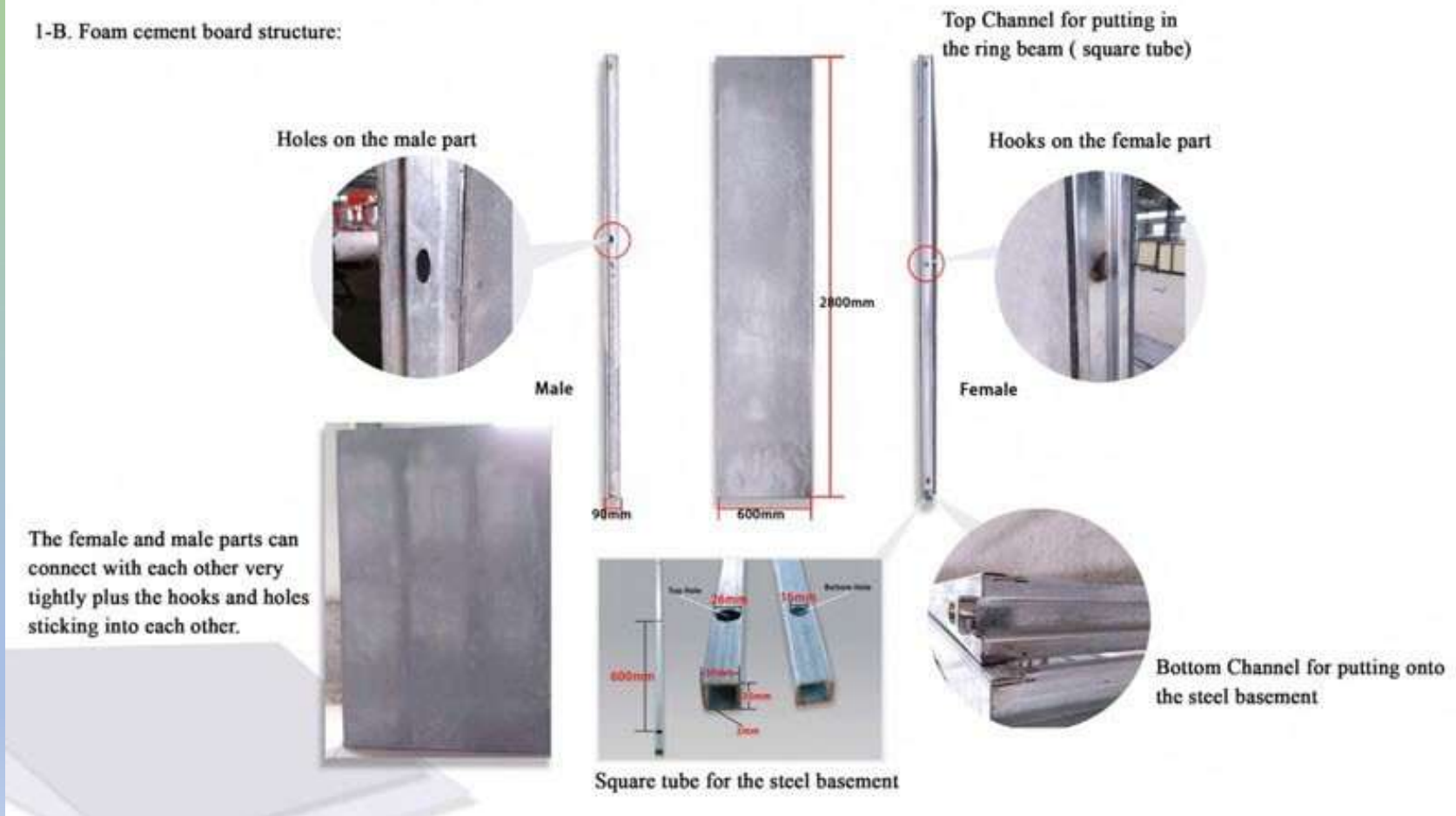
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Galvanized Steel Frame
and Track

House Materials Introduction:

1-B. Foam cement board structure:



PanLbilt proprietary formulation “special sauce” foam cement

After the galvanized steel frame is formed to bracket the PanLbilt wall panel, where applicable, pipes for both electrical and water chases are inserted vertically down the entire length of the panel. Next, two fiber cement boards are affixed to the frame. Finally, our “special sauce” liquid foam cement is injected inside the wall. When it hardens it forms a “spider web” that creates rigidity, structural integrity, soundproofing and insulation.



Test results:

I. Bending strength

Test item	Test method	Failure load (N)	Bending strength (kPa)	Average value (kPa)
Bending strength	With reference to EN 12089:1997	8219	2407	2623
	Method A and	8986	2691	
	client's requirement	9410	2772	
Remark	Specimen dimensions: 1200mm×600mm×90mm, 3pcs. Test rate: 10mm/min, Test span: 1000mm.			

II. Hanging force

Test item	Test method	Test result
Hanging force	With reference to GB/T 23451-2009	When F= 65.8kg, specimen was broken.
Remark	Specimen dimensions: 2400mm×600mm×90mm, 1pc.	

III. Impact resistance

Test item	Test method	Test result
Impact resistance	With reference to GB/T 23451-2009	No cracks on the surfaces of specimens.
Remark	Specimen dimensions: 2400mm×600mm×90mm, 3pcs.	

VIII. Reaction to fire test

Test Requested: EN13501-1:2007+A1:2009 Fire classification of construction products and building elements—Part 1: Classification using data from reaction to fire tests, Class A1

3. Test results

Test method	Parameter	Number of tests	Results
EN ISO 1182	$\Delta T/K$	5	1.2
	$\Delta m/\%$		8.4
	t_f/s		0
EN ISO 1716	PCS/ MJ/kg ^a	3	1.06
	PCS/ MJ/kg ^b		---
	PCS/ MJ/kg ^c		---
	PCS/ MJ/kg ^d		---

PanLbilt Competitive Advantages

- **Rapid Assembly**
- **Withstands heavy rain**
- **Mold and mildew proof**
- **Life Span: 50-70 years**
- **Fireproof: A1 Level**
- **Main factors affecting actual energy performance of a building: Thermal Conduction, Convection, Radiation & Mass**
 - **Thermal Conductivity: 0.1035 W/m.K**
 - (90mm thick wall has the same thermal conductivity as 350mm brick wall)
 - **Thermal Resistance: 0.869 m²·K/W**
 - **Outperforms framed buildings due to the combination of reduced conduction & convection plus high thermal mass**

PanLbilt Competitive Advantages (cont'd)

- **Snow Resistance: Snow pressure 8.219 KN/m²**
- **Earthquake Resistance: Up to Richter 9**
- **Sound Insulation: 40 dB**
- **Wind Load: Wind speed up to 140 MPH**
- **Wall Shock Resistance: 500 KG concentrated force**
- **In-Wall Built-in Electrical Wire & Water Conduits**
- **Net Zero Energy Efficient**
- **Smart grid / smart-house technology capable**
- **Rapidly rebuild after natural disasters**
- **ADA-adaptable floor plans — ideal for Veterans**

2,475 SF 2-Story Building Kit Rapid Assembly Day 1 & 2



Rapid Assembly Day 3 & 4

2,475 SF 2-Story Building Kit



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30 Days Fit & Finish to Occupancy



Miniature Model House Hands-On Assembly



Examples of PanLbilt Customized Models





Algonquin
4-Bedroom 2,036SF Ranch House





Carlyle
3 Bedroom/2 Story 1,688SF House



Panama 4 Bedroom/2 Story
2,400SF House



Florida Villa
7 Bedroom 2-Story 9,500SF House





1 Bedroom 1-Story 700SF Village

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Raised Bungalow on Steel Stilts 4 Bedroom 1,500SF House

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