



Steel & Foam Cement Rapid Assembly Building Kit

For Customized Veteran Housing



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



PanLbilt's Competitive Edge

Typical current costs to construct a Smart Home for Vets is \$500,000. PanLbilt Global offers Rapid Assembly Customized Steel and Foam Cement Building Kits with more amenities including ADA compliance & energy efficiencies at a substantially lower cost than using traditional wood construction.

Our Building Kits conform to US Building Codes

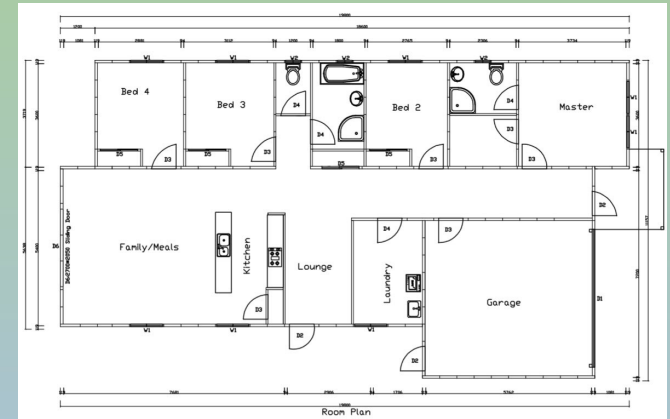
We require a CAD drawing with full elevations to design a comfortable home that meets your technical and aesthetic specifications.

Base Kits include exterior/interior wall panels with built-in pipes for electrical and water services, and roof panels, all impervious to mold, mildew and water.

Algonquin 1 Story 4 Bedroom/2 Bath/ 1 Car Garage or Optional Family Room 2,036 SF



**Interior design can be
customized to meet ADA
requirements**



**Access to the home can
accommodate a ramp for
wheelchairs**



Copyright 2026 PanLbilt Global, Inc.

Rapid Assembly 3-5 days

BAY TREE II

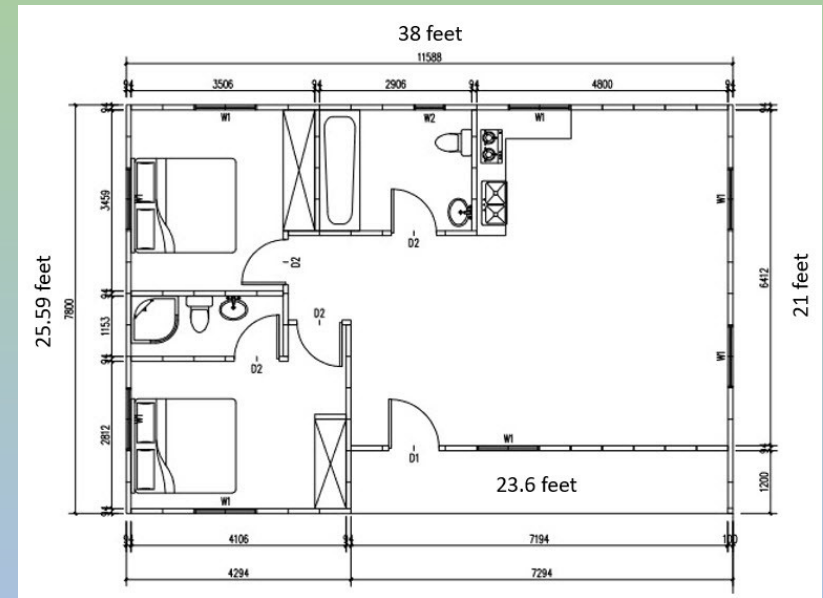
Single Story 2 Bedroom/2 Bath 973 SF



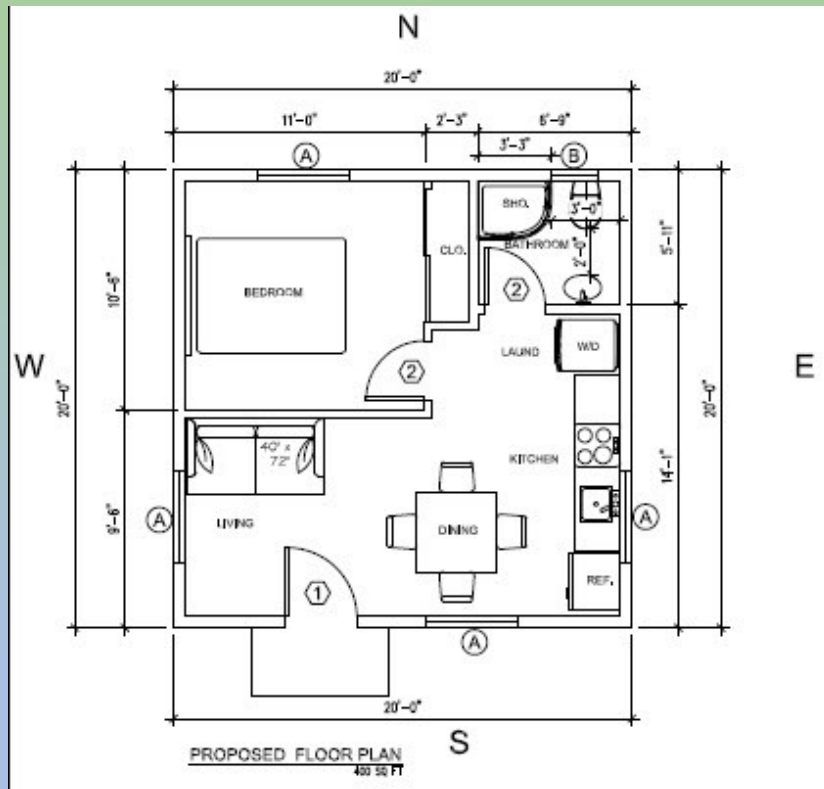
Access to the home can accommodate a ramp for wheelchairs

Interior design can be customized to meet ADA requirements

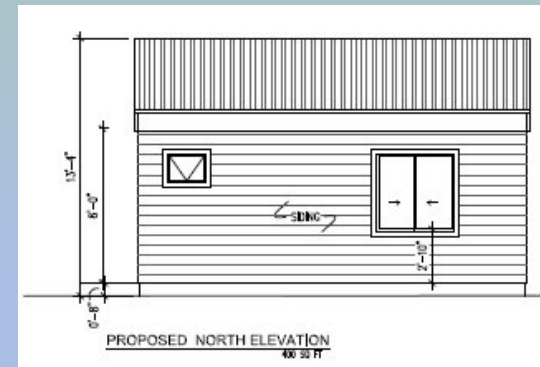
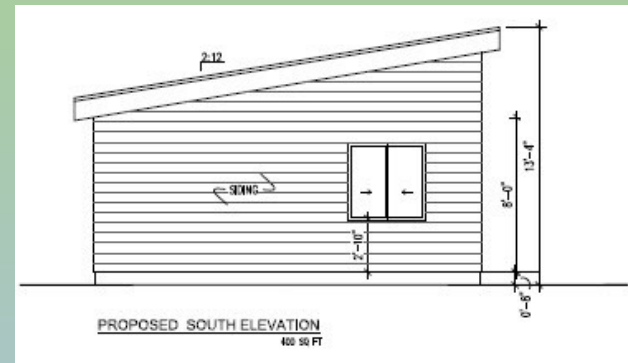
Rapid Assembly 3-5 days



Milan 400 SF One Story 1 Bed/1 Bath



Rapid Assembly Steel & Foam Cement Building Kits



pan**L**bilt

PanLbilt Competitive Advantages

- **Rapid Assembly**
- **Withstands heavy rain**
- **Mold and mildew proof**
- **Life Span: 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**
- **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**

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**

Copyright 2024 PanLbilt Global, Inc.



Copyright 2026 PanLbilt Global, Inc.



**Connected Panels with
galvanized steel track**



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

Copyright 2024 PanLbilt Global, Inc.

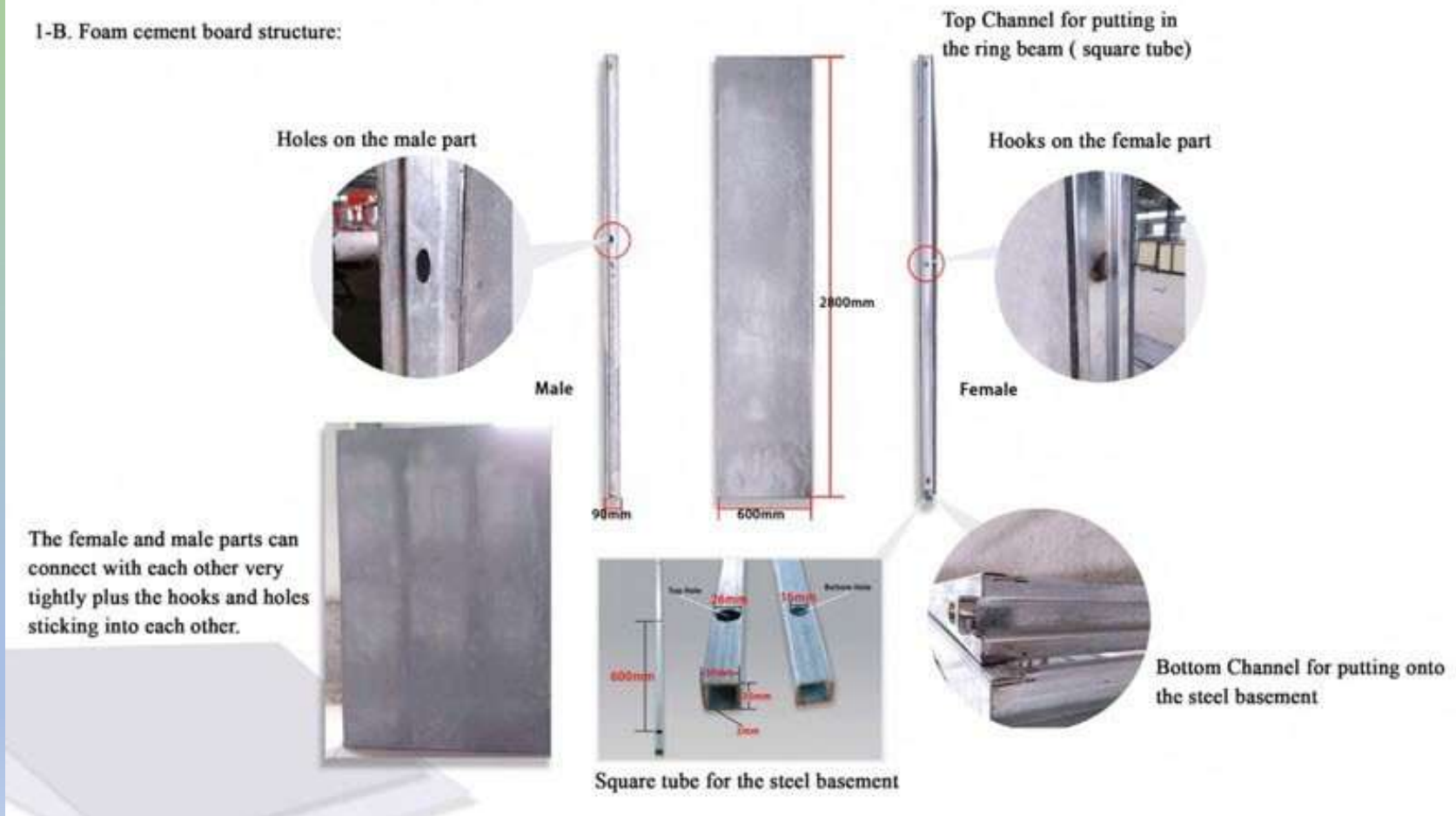


Copyright 2026 PanLbilt Global, Inc.

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, sound-proofing and insulation.



Test results:

Structural Integrity				
I. Bending strength				
Test item	Test method	Failure load (N)	Bending strength (kPa)	Average value (kPa)
Bending strength	With reference to EN 12089:1997 Method A and client's requirement	8219	2407	2623
		8986	2691	
		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		---

Rapid Assembly Day 1 & 2

2,475 SF 2-Story Building Kit



Rapid Assembly Day 3 & 4 2,475 SF 2-Story Building Kit



Copyright 2024 PanLbilt Global, Inc.

Copyright 2026 PanLbilt Global, Inc.

30 Days Fit & Finish to Occupancy



Examples of PanLbilt Customized Models



4-Bedroom 2,036SF Ranch House





3 Bedroom/2 Story 1,688SF House



4 Bedroom/2 Story 2,400SF House



7 Bedroom 2-Story 9,500SF House





1 Bedroom 1-Story 700SF Village

Copyright 2026 PanLbilt Global, Inc.



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

Copyright 2026 PanLbilt Global, Inc.

Contact

Allan M. Olbur

224-425-9236

allano@PanLbilt.com

<https://www.PanLbilt.com>