

COMFORTABLE HOUSING FOR VETERANS,
EMPTY-NESTERS AND YOUNG FAMILIES

A home that fits your life.

Rapid-assembly steel & foam-cement customized
homes engineered for comfort, safety, and dignity.



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< 5 days

to assemble on-site

30-45 days

to occupancy permit

Quality of life, delivered as a home.



Renaming "affordable housing" to "comfortable homes" shifts the focus from purely financial constraints to the quality of life and human dignity. This rebranding promotes more inclusive neighborhoods where all residents feel they belong, rather than isolating individuals based strictly on income brackets.

PanLbilt builds comfortable, code-compliant homes for veterans, empty-nesters, and young families — fast, affordable, and built to last a lifetime.

“Better, Cheaper, Faster!”

Building a home the traditional way is slow and costly

Illustration:

\$500,000

Typical cost to build a wood-framed
“smart home” for one household



Months, not days

Traditional builds drag on for months of on-site labor and inspections.



Vulnerable materials

Wood framing is prone to mold, mildew, fire, and storm damage over time.



High, unpredictable cost

On-site labor and delays push budgets well beyond what most programs can fund.



PanLbilt's solution: “Better, Cheaper, Faster!”

The PanLbilt promise

A complete building kit — walls, roof, and built-in electrical & water — engineered for comfort at a fraction of the cost.

< 5

days to assemble

30-45

days to occupancy

70

year lifespan

A1

fireproof rating



COMFORT

Built around how it feels to live here

A home should feel calm, warm, and healthy. Every PanLbilt panel is engineered to deliver exactly that — day after day.



Quiet by design

40 dB sound insulation and a foam-cement core absorb noise for restful, peaceful sleep.



Warm and efficient

Wall thermal performance rivals a 350 mm brick wall — net-zero-energy capable, low utility bills.



Healthy and dry

Panels are impervious to mold, mildew, and water for cleaner indoor air, year after year.

Designed for you

Accessible, adaptable, and designed entirely around your needs.



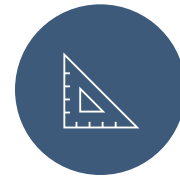
ADA-ready interiors

Floor plans are customized for wheelchair access and barrier-free, single-level living.



Ramp-friendly entry

Home access is designed to accommodate a wheelchair ramp for a safe, easy welcome home.



Built to your specs

We build from your CAD drawings and full elevations — a home that fits your life exactly.



Every kit conforms to U.S. building codes



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**

Inc.

7

Built to protect the people inside



A1

Fireproof rating



Waterproof

Withstands heavy rain



Richter 9

Earthquake resistant



140 MPH

Wind load rated



8.2 kN/m²

Snow load capacity



500 kg

Wall shock resistance

A home that lasts a lifetime

70

YEAR LIFESPAN

Galvanized steel and foam-cement construction built to outlast traditional wood framing.

Net-zero-energy capable

Superior insulation slashes heating and cooling bills year-round.

No rot, no decay

Impervious to mold, mildew, and water — inside and out.

Smart-home ready

Built-in electrical and water conduits for modern, connected living.



How your home is made

Every wall panel is engineered in four steps for strength, silence, and insulation.

1

Steel frame

A galvanized steel frame is formed to bracket each wall panel.

2

Built-in conduits

Electrical and water pipes are inserted vertically down the panel.

3

Fiber-cement panels

Two fiber-cement boards are affixed to the steel frame.

4

Foam-cement core

“Special sauce” foam cement is injected, hardening into a rigid spider-web.



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 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		---

Move in within 30 days

From bare pad to occupancy permit — faster than any traditional build.

DAYS 1-3



Panels raised

Steel frame and interlocking wall panels assembled on the prepared cement pad.



DAYS 4-5



Structure closed

Roof panels set. A 2,475 SF two-story kit stands complete in under four days.

DAY 30



Move-in ready

Full interior fit & finish complete, with occupancy permit in hand.

Your home, your style

A PanLbilt home is a starting point — shaped to your taste, your needs, and your neighborhood.



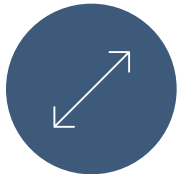
Any exterior

Paint, siding, stone, or brick — finished to match the look of your neighborhood.



Your interior

Cabinets, flooring, fixtures, and lighting fit out to your personal taste.



Any size

Floor plans from a 400 SF studio to a 9,500 SF family home.



Built by locals

Interior finish completed by PanLbilt-certified local contractors.



MODEL GALLERY

Choose your home

A model for every mission — from a compact studio to a home for the whole family, each one customizable to how you want to live.

Compact & efficient

Complete homes that live large in a small footprint.



Milan

400 SF · 1 Bed · 1 Bath

A cozy, fully finished studio home.



Roxbury

700 SF · 1 Bed · 1 Bath

Single-story living, community-ready.



Bay Tree II

973 SF · 2 Bed · 2 Bath

Compact comfort with room to host.



Room for the whole family

More bedrooms, more space — without the price or wait of traditional construction.



Algonquin

2,036 SF · 4 Bed · 2 Bath

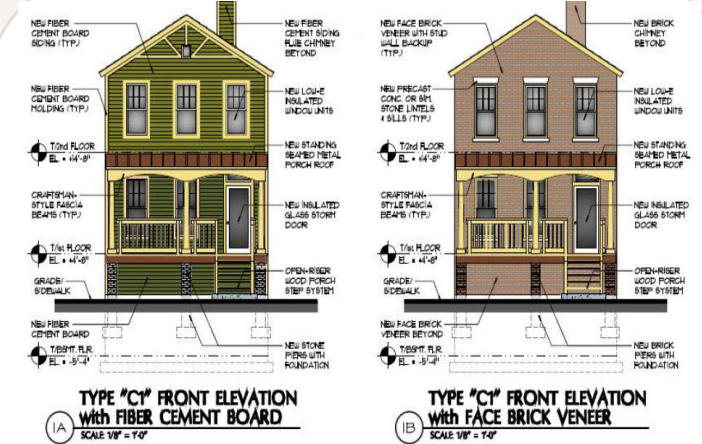
Single-story ranch with an optional family room and garage.



Carlyle

1,688 SF · 3 Bed · 2 Story

A classic two-story layout for a growing family.



Bungalow

1,650 SF · 3 Bed · 2 Story

Room for everyone across two comfortable floors.



Customized to your design & floorplans

From flood-safe elevated homes to large multi-family residences — the kit scales to you.



Venetian

1,500 SF • 4 Bed • 2 Story

Single family modern style home



Townhouse (Row) Houses

Multi-unit 2 or 3-Story with optional basement

A multi-family residence — built with the same speed and durability.



LET'S BUILD YOUR HOME

Home starts here

Send us your CAD drawings with elevations and we'll design a comfortable, code-compliant home built around your life.

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