

COMFORTABLE 21ST CENTURY RESIDENTIAL
HOUSING FOR ALL AGES

A home that fits your life.

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

< 5 days

to assemble on-site

30-45 days

to occupancy permit

panLbilt



Steel & Foam Cement
Rapid Assembly Building Kits

OUR MISSION

Better, Cheaper, Faster!

Quality of life, delivered as a home.

PanLbilt builds comfortable, code-compliant homes for veterans, empty-nesters, and young families — fast, affordable, and built to last a lifetime. Renaming “affordable housing” as “comfortable homes” shifts the focus from financial constraints to quality of life and human dignity — building inclusive neighborhoods where everyone belongs.

Building the traditional way is slow and costly

THE TRADITIONAL BUILD

\$500,000

Typical cost to build a wood-framed
“smart home” for a single
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.

The PanLbilt solution: better, cheaper, faster

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

< 5

days to assemble

30–45

days to occupancy

70

year lifespan

A1

fireproof rating

Inside the kit: steel & foam-cement panels

- **Galvanized steel frame**
Formed to bracket each wall panel.
- **Two fiber-cement panels**
Durable exterior boards on both faces.
- **Male/female interlock**
Panels join with a precise 2 mm separation.
- **Foam-cement core**
“Special sauce” cement blown into the panel.
- **Built-in conduits**
Optional electrical & water pipes inside the wall.
- **Steel track connection**
Galvanized track ties the panels together.

WALL CROSS-SECTION

Fiber-cement board

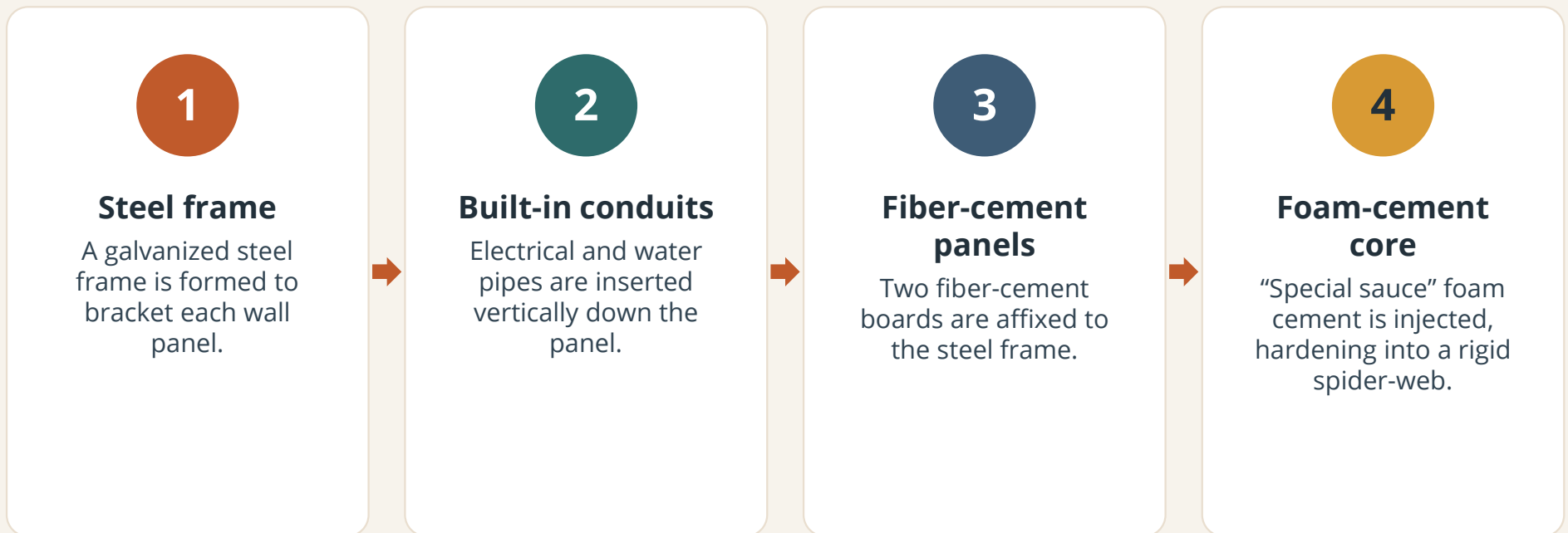
Foam-cement core — spider-web

Galvanized steel frame & track

Fiber-cement board

How your home is made

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





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 around how it feels to live here

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



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.

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



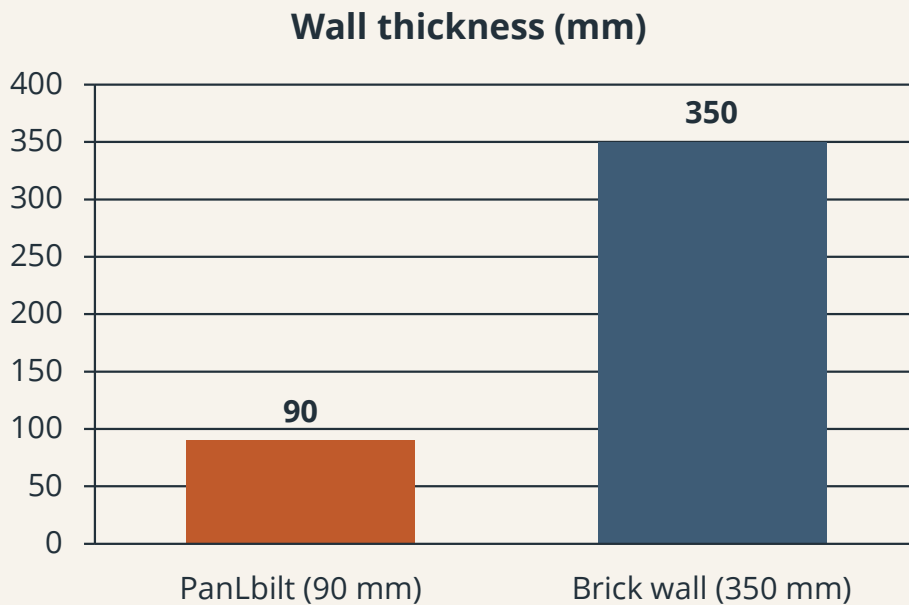
500 kg

Wall shock resistance

Performance that outperforms brick

A 90 mm PanLbilt wall matches the thermal performance of a 350 mm brick wall.

WALL THICKNESS FOR EQUAL THERMAL PERFORMANCE



0.1035 W/m·K

Thermal conductivity — low heat transfer through the wall.

0.869 m²·K/W

Thermal resistance — keeps interiors warm in winter, cool in summer.

Net-zero ready

Reduced conduction & convection plus high thermal mass beat wood framing.

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_i/s		0
EN ISO 1716	PCS/ MJ/kg ^a	3	1.06
	PCS/ MJ/kg ^b		---
	PCS/ MJ/kg ^c		---
	PCS/ MJ/kg ^d		---

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.

Designed entirely around you

Accessible, adaptable, and built to fit the way you live.



ADA-ready interiors

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



Ramp-friendly entry

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



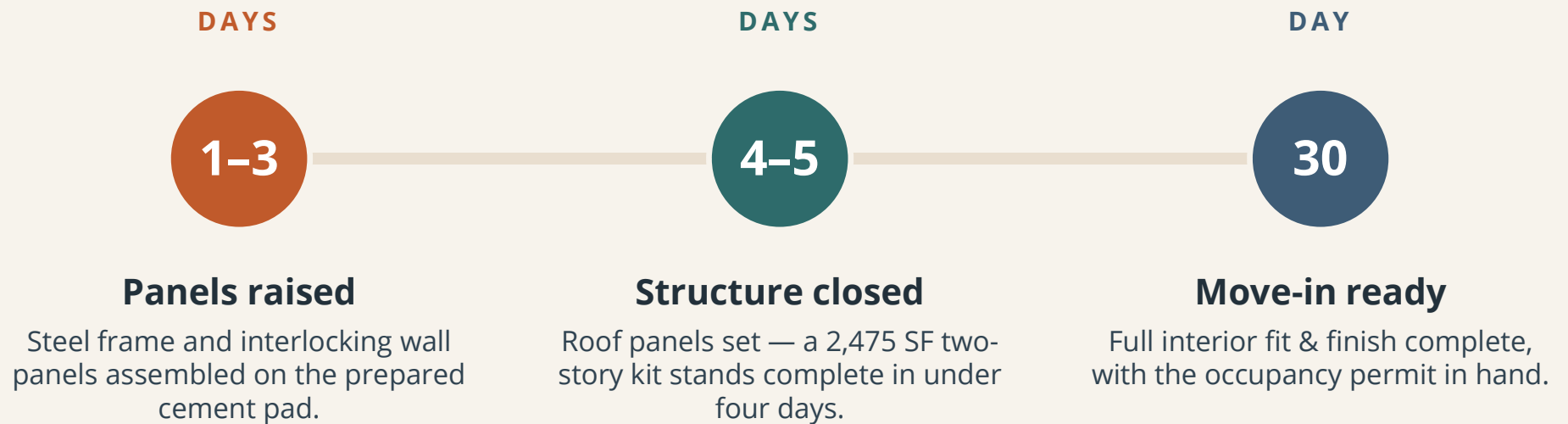
Built to your specs

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

Every kit conforms to U.S. building codes

Move in within 30 days

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



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 your neighborhood.



Your interior

Cabinets, flooring, fixtures, appliances 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

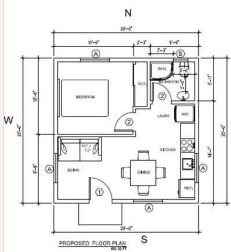
Interior finish completed by PanLbilt-certified local contractors.

MODEL GALLERY

Compact & efficient

Complete homes that live large in a small footprint.

Milan 400 SF One Story



Rapid Assembly Steel & Foam Cemen
Building Kits



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.

MODEL GALLERY

Room for the whole family

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



Algonquin

2,036 SF 4 Bed · 2 Bath

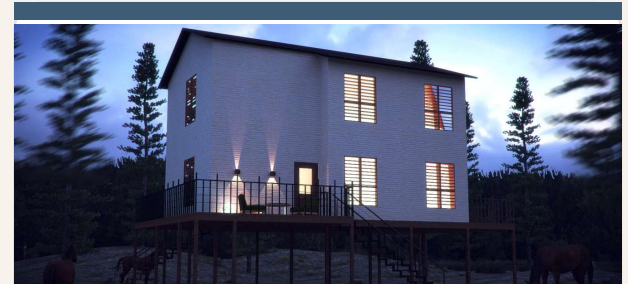
Single-story ranch with an optional family room and garage.



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.

Beyond the gallery: fully custom designs from a 400 SF studio to a 9,500 SF Florida Villa — plus multi-family row houses.

MODEL GALLERY

Room for the whole family

More bedrooms and more space — without the price or the construction time of traditional homes.



Townhouses

Customized floorplans
2-3 stories with optional
basement



Venetian

1,500 SF 4 Bed · 2 Story
Single family modern home



Florida Villa

9,500 SF 7 Bed · 2 Story
Custom luxury two-story home

Beyond the gallery: fully custom designs from a 400 SF studio to a 9,500 SF Florida Villa — plus multi-family row houses.

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.

Allan M. Olbur Chairman

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