



Executive Overview

Rapid-assembly steel, fiber-cement & foam-cement panel building systems · September 2026

COMPANY AT A GLANCE

PanLbilt Global turns approved project drawings into factory-fabricated steel, fiber-cement and foam-cement panel kits that crane-set onto a prepared foundation — **a demonstrated 2,475 SF two-story shell was enclosed in 4 days**. The company operates as PanLbilt Global, Inc. and PanLbilt Americas, Inc., headquartered in Mundelein, Illinois.

Each panel combines a galvanized steel frame, fiber-cement board skins and an injected foam-cement core, with electrical and water conduits built into the wall. The system supports buildings up to 3 stories without supplemental steel, subject to project-specific engineering. The pitch to buyers: **sell the schedule, not the panel**.

THE PROBLEM

- **Housing shortages.** Communities, developers and governments need permanent units faster than stick-frame and masonry crews can deliver.
- **Skilled-labor scarcity.** Framers, masons and finishers are in short supply, driving up cost and stretching schedules.
- **Disaster exposure.** Hurricanes, wildfires, floods and earthquakes destroy wood-frame housing; recovery often means years in temporary shelter.

THE SOLUTION

PanLbilt replaces on-site framing and masonry with a precision, factory-built panel system that assembles like a kit.

1 Plan review CAD drawings + elevations	2 Factory fabrication 3-station QC	3 Ship kit Uniquely numbered panels	4 Days 1–4 Crane-set closed shell	5 ~30 days Fit & finish to occupancy
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In the demonstrated build, days 1–2 set wall and floor panels, days 3–4 set the second story and roof, and fit and finish reached occupancy in about 30 days. Every panel is pre-assembled and inspected at 3 QC stations and uniquely numbered for fast field assembly. Panels are 3-3/4" or 5-3/4" thick, 23-5/8" wide and 122"-141-3/4" tall, joined by a male/female interlocking steel connection. Exteriors can be painted or clad in siding or brick.

COMPETITIVE ADVANTAGES

PanLbilt wins on speed, resilience and lifetime cost at the same time — a combination no single competing method matches.

1. **Speed to occupancy.** 4-day closed shell and ~30 days to occupancy versus months for stick-frame or block — earlier rent, sale or recovery.
2. **Built for extreme events.** Rated to 140 mph wind, magnitude 9 earthquakes and 8.2 kN/m² snow; tested to ASTM E72, E330 and E2126.
3. **Fireproof and moisture-proof.** Class A1 with 3+ hours fire resistance; waterproof, mold- and mildew-proof.
4. **Energy efficiency in a thin wall.** 0.1035 W/m·K — a 90 mm PanLbilt wall insulates like a 350 mm brick wall.
5. **Long life, low upkeep.** 70-year engineered service life on an ASTM A36 hot-dip galvanized steel frame; no rot or termites.
6. **Less skilled labor.** Conduits embedded at the factory; a crane-set crew replaces framers, masons and rough-in trades.
7. **Lighter structure.** 230 kg/m³ core, about 80% lighter than block — lower foundation, shipping and seismic loads.
8. **Code-ready and approved.** Recognized under IBC, IRC and IECC (2015–2021); evaluated to Florida Building Code (2020, 2023); City of Los Angeles approval (License TA24945); recognized under 24 CFR 3280/3282; ISO/IEC 17025-accredited testing.
9. **Comfort and quality.** 40 dB sound insulation, EMF shielding, and consistent factory QC on every panel.
10. **Off-grid ready and local.** Designs integrate water-from-air and backup power; certified local contractors complete the finish work.

Factor	PanLbilt	Wood stick-frame	Concrete block (CMU)	Modular boxes
Shell enclosure	4 days (2,475 SF, 2-story)	Weeks to months	Months	Days; oversized transport
Fire	Class A1, 3+ hours	Combustible	Non-combustible	Usually wood-framed
Water and mold	Waterproof, mold-proof	Vulnerable	Cracks, wicks moisture	Vulnerable
Wind and seismic	140 mph; magnitude 9	Code minimum	Brittle in quakes	Code minimum
Wall weight	230 kg/m ³ core	Light	1,500–2,400 kg/m ³	Varies
Skilled trades on site	Low (crane-set crew)	High	High (masons)	Low
Service life	70 years	Varies with upkeep	Long	Varies
Design flexibility	Standard or custom from CAD	High	Moderate	Limited by box size



PanLbilt figures from published performance specifications; final performance subject to project-specific engineering, code review and site conditions. Competitor columns reflect general industry characteristics.

TARGET MARKETS

Market	Buyer	Why PanLbilt fits
Residential development	Builders, developers	Repeatable 1–2 story plans; earlier enclosure and sale
ADUs and infill	Homeowners, small builders	Short site duration, less neighborhood disruption
Schools and institutional	Districts, agencies	Rapid shells for repeatable classroom programs
Veteran and attainable housing	Housing authorities, nonprofits	Comfortable, safe homes for veterans, empty-nesters, young families
Disaster recovery	FEMA, states, municipalities	Permanent homes in days; hurricane- and seismic-rated
Off-grid and remote sites	Rural owners, work camps	Integrated water-from-air and backup power
Custom design-build	Owners with drawings	Project-specific engineering review from CAD plans

BUSINESS MODEL AND GROWTH PATH

- **Kit sales** — panel packages per model or custom plan, quoted per project after plan review.
- **Design-build** — turnkey delivery coordinated with certified local contractors.
- **Contractor certification** — a network that scales installation capacity without large field crews.
- **Bundled systems** — off-grid power and atmospheric water generation packaged for remote and resilience buyers.

Growth comes from volume programs — disaster-recovery contracts, housing-authority developments and multi-unit projects — where speed and repeatability matter most.

WHY NOW

Housing demand, labor shortages and climate-driven disasters are all rising, and each favors fast, resilient, factory-built construction. PanLbilt already has a patented system, U.S. code recognition, Los Angeles approval and a demonstrated 4-day shell, so it can scale into these programs immediately.

Next step: send floor plans, elevations, location, building use and target schedule for a project review and shell comparison.

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Sources: PanLbilt.com; PanLbilt Performance Specifications (panlbilt.com/docs/PanLbilt_Site_Performance_Specs.pdf); PanLbilt press releases, PR.com (2017).