

Delivering L.B. Foster innovation

BROCHURE

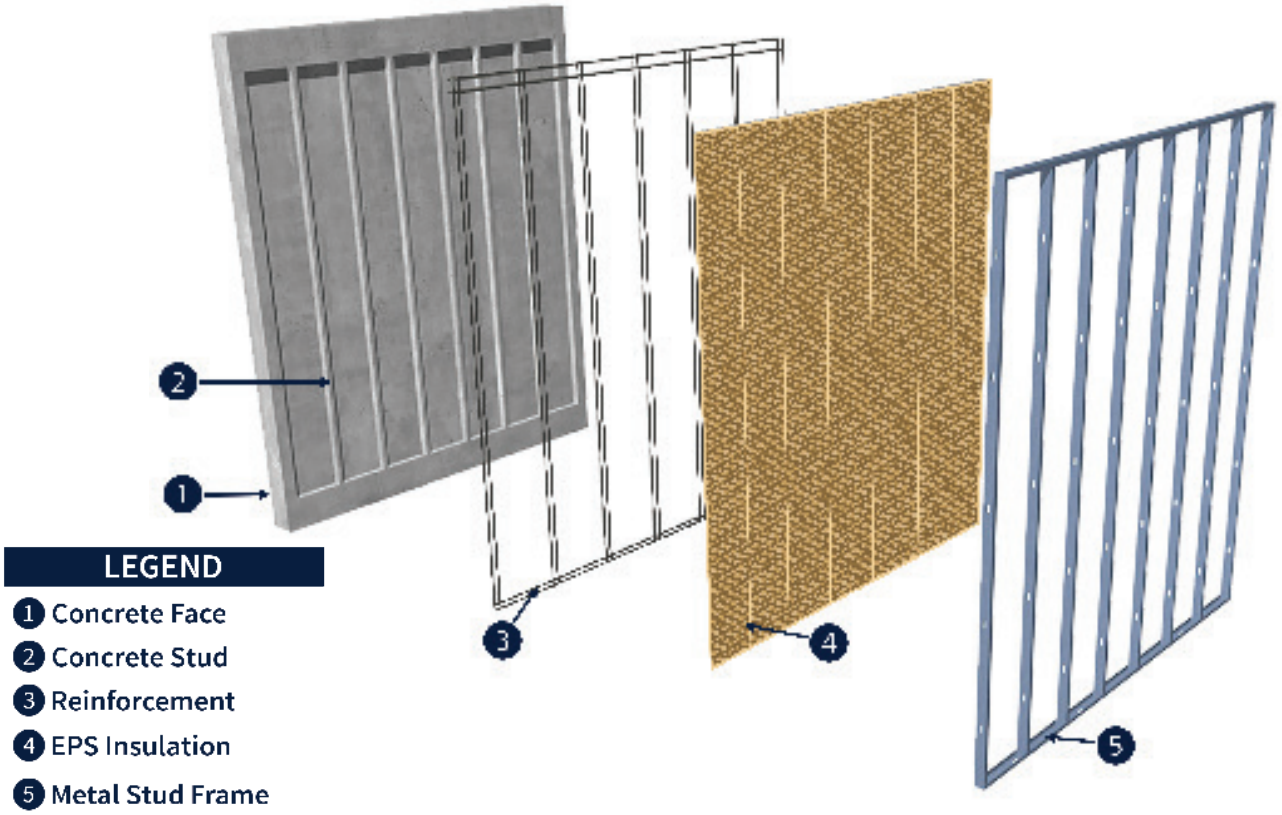
PRECAST CONCRETEPRODUCTS

ENVIROCAST® WALL SYSTEM

Residential precast concrete walls for crawl spaces, basements, above grade, and multi-level single-family homes.

Envirocast Wall Components

Durable high-strength, reinforced concrete walls that arrive pre-insulated and pre-studded. Ready for electrical and drywall on the inside, ready for paint on the outside.



Precast Concrete

> Solid, dense, and durable concrete panel with integral vertical and horizontal concrete studs and beams for flexural and shear capacity to achieve all Tennessee Building Code requirements.

Reinforcement

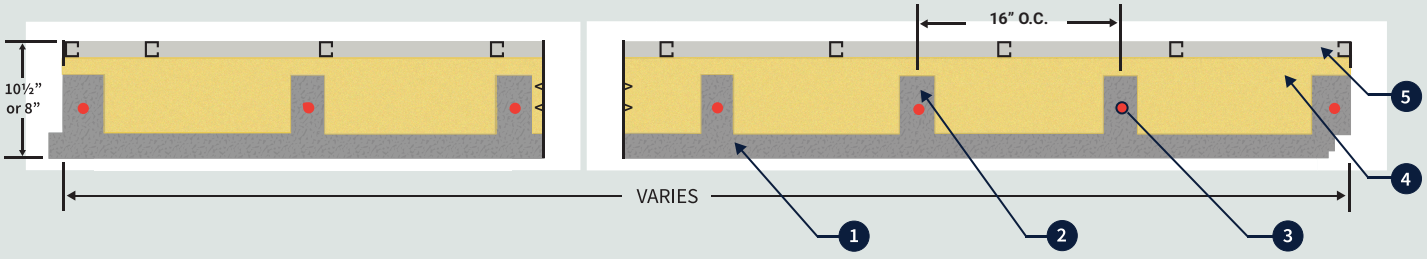
> Steel reinforcing is cast-in the concrete to structurally reinforce the precast wall units. Wire mesh reinforcing may be added to enhance in-plane shear capacity.

Core EPS Insulation

> Significant wall insulating properties achieved with integrally cast EPS insulation. Cavity R-Value of a minimum of R-24.75, with further upgrades available depending on wall configurations, and surpass latest Tennessee Building Code requirements.

Metal Stud Framing

> 20 gauge integral metal drywall studs complete the interior of the wall making it ready to receive electrical, plumbing, and wall finishes.



Speed of Installation

Increase speed of revenue by increasing speed of construction.

Build Faster. Sell Faster.

Due to shortages of on-site labor, builders are unable to meet the demand for rapid home construction. Prefabrication helps accelerate residential construction and shorten the time to occupancy, making Envirocast a strong option for builders who need speed, consistency of supply, and fewer jobsite disruptions.

Time Matters.

Envirocast walls are engineered to support faster construction with adaptable designs to meet project-specific requirements. Homebuilders, developers, architects, and engineers are using Envirocast as an improved alternative to concrete block and stick-built construction.

1 Step vs. 12 Steps

Envirocast Walls

1. Prefabricated walls delivered & installed



CMU Construction

1. Reinforcing cast protruding from base slab
2. Storage & installation of CMU blocks
3. Place reinforcing in CMU cavities & beams
4. Inspection required
5. Grout CMU cavities
6. Install hurricane straps for trusses
7. Studs/furring strips installation
8. Insulation placed on inside face
9. Door and window rough-ins
10. Punch-ins for electrical receptacles
11. Waste cleanup and haul
12. Install exterior cementitious waterproofing

Trade Consolidation

Envirocast walls combine the work of multiple trades during factory prefabrication, eliminating costly time from the construction schedule as well as delays often resulting from interdependent trades.

Trade Challenges

Concrete Masonry Unit (CMU) construction requires multiple trades and many process steps that are interdependent and time consuming, and are subject to varying field conditions.

***Listing of most common processes used in CMU construction. Actual processes used may vary.**

Savings

Envirocast saves time by making it possible to install complete wall assemblies in a matter of hours, instead of days or weeks. Envirocast walls are factory prefabricated while site preparation work is completed, allowing for immediate availability upon demand.

EXTERIOR WALLS IN A SINGLE DAY, COMPLETE WITH INSULATION AND STUDS

Compliance

Envirocast wall systems meet all local, state, and national building codes. Reinforced vertical and horizontal integral concrete studs and "bond beams" provide vertical and horizontal flexural as well as shear capacity to ensure building code.

Strength

Envirocast walls are strong, durable, and fire resistance, making them the ideal wall solution in areas affected by severe weather events, such as hurricanes, tornadoes, flooding, or wildfires.

Sustainability

Envirocast will make significant contributions to Leadership in Energy and Environmental Design (LEED®) and will improve the Home Energy Rating System (HERS®) rating due to standard design features that include integrally cast continuous insulation with R & U values that surpass code, local manufacturing, and use of recycled materials.

Thermal Performance

Envirocast Standard 10.5-in. System - 10'-0" Tall Wall		
Thermal Metric	Value	2018 IECC
Cavity Insulation	R -24.75	R402.1.2
Cavity + Continuous Insulation	R-19.35 + R-5.40	R402.1.2
Whole-Wall Assembly U-Factor	0.057	R402.1.4

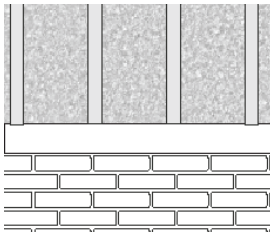
*Values shown are for the standard 10'-0" tall wall. Taller walls may have lower thermal performance due to increased concrete area.

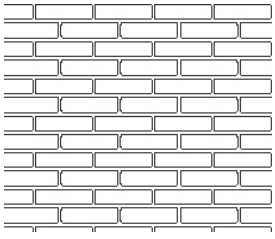
Finishes

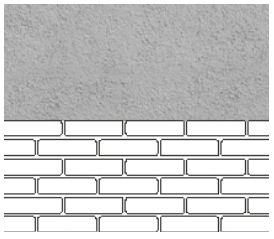
Envirocast wall systems are available in a variety of finishes. Call the Envirocast technical team today to discuss options and for help designing your project.


Steel Trowel


Screed (Light Texture)


Batten Strips


Brick Stamp


Brick Stamp & Screed

ENVIROCAST BENEFITS

For Builders

- Expedited timeline of construction.
  - Typically set within one day with paint ready exterior and studded interior.
- No cementitious coating required.
  - Solid concrete doesn't need cementitious coating for water-resistance or hiding CMU.
- Downsized mechanical equipment.
  - Walls with U=0.057 means less work for mechanical equipment.
- Simplified electrical.
  - No punching into CMU to install receptacles.
- 2-Hour fire rating for townhome & multi-family separation walls.
  - A simple solution for fire separation walls between units.
- Waste cleanup & haul reduction.
  - No more CMU waste piles for disposal.
- Simplified & reduced jobsite supervision.
  - Less work of site trades due to factory pre-assembly.
- Consistency of supply.
  - Made in-advance, pre-inspected, factory quality.
- Bucks for windows & doors are included.
  - Structural bucks provide simpler on-site install





For Owners

- Significant lifecycle energy cost reduction for heating & cooling
- Cellulose elimination for everything but window bucks.
- Insurance savings vs. wood frame.
- Factory quality.
- Resilient construction.
- Noise reduction.





Typical single-story homes can be installed in a single day

Designed to reduce construction time while supporting strength, energy performance, and long-term residential value.

Let's Build Your Next Project Together

Envirocast wall systems are designed to help builders reduce construction time, improve consistency, and deliver stronger residential wall solutions for residential homes.

Our technical team can review your project needs, answer design questions, and help determine whether Envirocast is the right fit for your next build.

Schedule a project review

ENVIROCAST®
PRECAST CONCRETE WALL SYSTEM

CXT®

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Why Envirocast?

- Engineered for long-term performance
- Proven quality and durability
- Efficient installation and reduced site disruption
- Trusted expertise and exceptional service

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CXT® Delivering L.B. Foster innovation