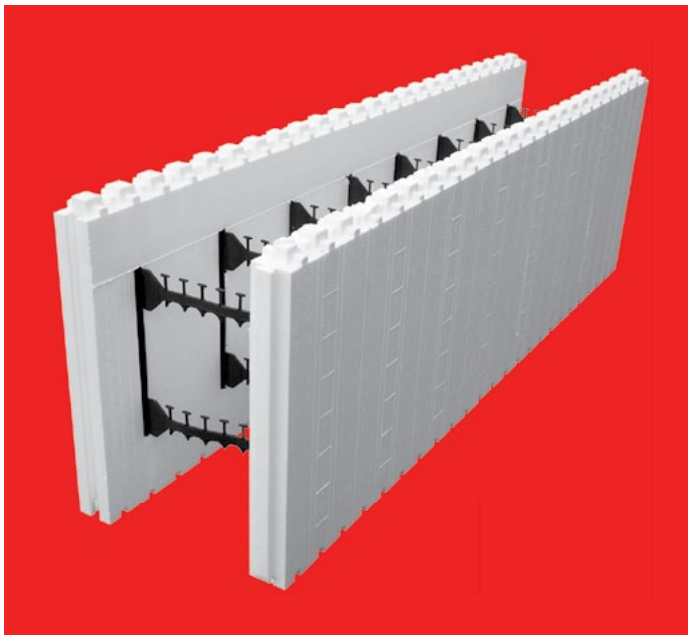


FLEXX BLOCK®

Insulating Concrete Form

High Performance Insulating Concrete Form

LiteForm®

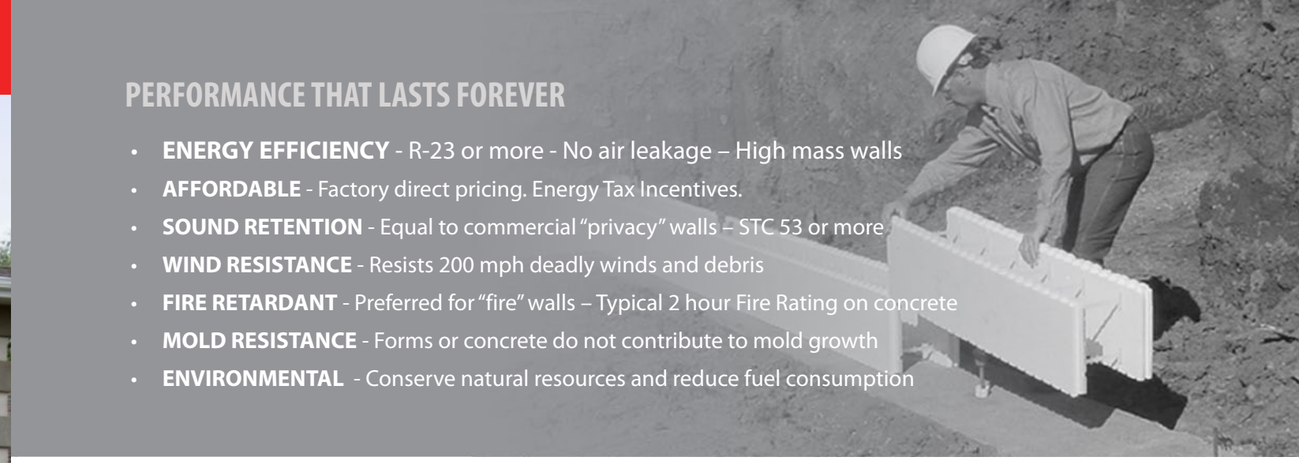
The Best Way to Build!

FLEXXBLOCK

INSULATING CONCRETE FORMS PROVIDE SUSTAINABLE, ENERGY EFFICIENT BUILDING ENVELOPES.

LiteForm manufactures the FlexxBlock line of pre-assembled ICF "Block" forms for use in single story or multi-story residential or commercial projects. Flat, monolithic cavities will accommodate all rebar requirements. Continuous furring strips, pre-molded corners and exclusive accessories make set-up and bracing quick and simple. High density packaging reduces shipping and handling costs.

Full hardware packages are available to build virtually any wall shape.



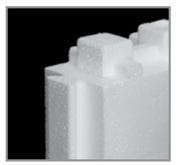
PERFORMANCE THAT LASTS FOREVER

- **ENERGY EFFICIENCY** - R-23 or more - No air leakage – High mass walls
- **AFFORDABLE** - Factory direct pricing. Energy Tax Incentives.
- **SOUND RETENTION** - Equal to commercial "privacy" walls – STC 53 or more
- **WIND RESISTANCE** - Resists 200 mph deadly winds and debris
- **FIRE RETARDANT** - Preferred for "fire" walls – Typical 2 hour Fire Rating on concrete
- **MOLD RESISTANCE** - Forms or concrete do not contribute to mold growth
- **ENVIRONMENTAL** - Conserve natural resources and reduce fuel consumption

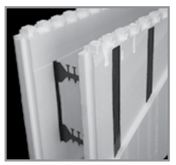
BENEFITS AND ADVANTAGES

FlexxxBlock Insulated Concrete Forms provide a continuous insulation barrier, which eliminates thermal bridging, air infiltration and isolates the structure from outdoor temperature swings. Windows and Doors are very easy to install within the system. In addition, FlexxBlocks internal tie system doubles as a attachment point for any interior or exterior finish treatement. FlexxBlock's smooth EPS finish is also ready to accept cementous finishes like EIFS or Stucco.

Recycled Polypropelene Hinge Tie



Positive Tongue and Groove

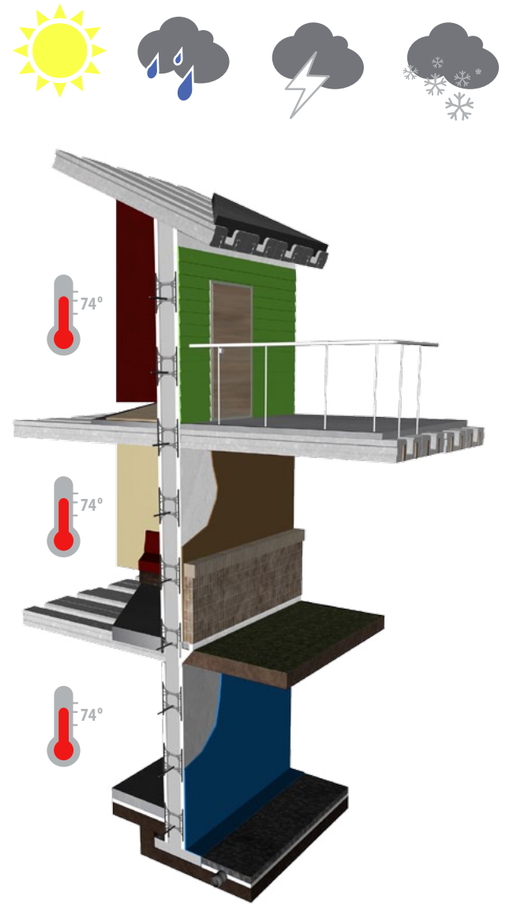


Continuous Fastening

TECHNICAL SUPPORT & CUSTOMER SERVICE

LiteForm's team has over 25 years experience in the manufacturing and development of ICF systems and accessories. LiteForm offers the ICF industries largest variety of forming methods for horizontal and vertical concrete forms. FlexxBlock can offer professional support for any project, residential or commercial.

We provide valuable tools to help homeowners, contractors, architects, and design professionals. We have information support including; technical videos, design specification guides, along with a vast project photo gallery and much more!



FOLDING EFFICIENCY

FlexxBlock forms are designed to reduce the rising cost of shipping, CO2 emissions and job site space. The only way we can offer these savings is with our patented folding forms. **FlexxBlock's folding design dramatically reduces shipping cost and job site space by 55%.** One single truckload of FlexxBlock ICF's = 7,700 sq ft of wall forms compared to other non folding ICF's that typically fit only 3500 sq ft of wall forms per truck. These building components reduce the carbon output and environmental impact without sacrificing superior strength and performance.

* 1 Truckload - 7700 sq ft of wall forms

COMPARED TO

* 3 Truckloads - 7700 sq ft of wall forms

* Trucking based on average comparison of block size and pallet dimension for folding blocks to non-folding icf blocks.

INSTALLATION SIMPLICITY

1 Footing Preparations

Footing or pad must be level, uniform and wide enough for the form to rest on. Footing must also be proper width and thickness for soil conditions. Check with local code officials for guidelines and specifications.
First course of forms will be glued to the footing , along the chalk line.

2 Wall Assembly

Wall assembly starts with placing molded corners and working around the footing. Straight blocks slide onto each other locking them together. The second course corner will stagger the seams for added strength. Custom lengths are simply cut using a hand or power saw.

3 Reinforcing

Rebar and in-wall bracing are inserted to ensure a strong straight wall. Always follow local recommended guidelines for proper rebar size and placement

4 Bracing and Openings

Standard wall bracing is used on the interior or exterior of the form work and is spaced 6' apart. The vertical brace is simply wire tied to the internal tie system. A turnbuckle is recommended to achieve a plum wall. The bracket will double as a work platform and will also assist in concrete placement.

5 Placing Concrete

Concrete is placed in 4' lifts. Start in the center of a wall and work your way around the wall. A 3000 - 4000 psi smooth aggregate mix with a 4" - 6" slump is recommended . Good consolidation is important, external or internal vibrators can be used to consolidate concrete.

6 Finishing

Finish the interior and exterior FlexxBlock forms using the internal polypropylene tie system. All non petroleum based finishes can be used. Electrical wiring and junction boxes are simply cut into the forms and anchored to the concrete.

BUILDING PROJECTS

HOSPITALILTY

COMMERCIAL

INSTITUTIONAL

MULTI-FAMILY

WORSHIP

INDUSTRIAL

INTEGRATED TECHNOLOGIES

The LiteDeck® ICF System is a light-weight, stay-in-place form made of Expanded Polystyrene (EPS) and used to construct site-cast or precast concrete floors, roofs, decks, and walls for commercial, industrial and residential uses. Lite-Deck® provides structural strength through reinforced concrete and EPS insulation. Capable of achieving clear spans over 40 feet!

LiteDECK
Insulated Concrete Floors, Roofs, Decks and Walls

Increased Sound, Fire and Impact Resistance

Concrete **FLOORS**

Concrete **ROOFS**

Concrete **DECKS**

COMMON APPLICATIONS

- Homes
- Schools
- Data Centers
- Law Enforcement Facilities
- Industrial Power Plants
- Safe Rooms
- Hotels
- Parking Ramps
- Agricultural Containment
- Ready Mix Plants

FlexxBlock® ICF Wall System Specifications

General Specifications	
Overall Dimension	16″ x 48″
Form Wall Thickness	2 inches
Number of Ties	8 per block
Attachment Rails or Tabs	Continuous - 6″ OC
Pull Out Strength of Tie	175 lb
In-Wall Bracing Optional	Horiz. every 4′
Concrete Core Size	4″, 6″, 8″, 10″, 12″
R-Value - Form only by test	R-18
R-Value - Form and 8″ Concrete Wall, by calculation	R-23
Fire Rating 4″ 6″ 8″	 1 Hour 3 Hours 4 Hours
STC (Sound Transmission Class) 8″ Concrete Wall by Calculation	53
Accessories Brickledge Block Height Adjuster Scaffold Bracket	 Y Y Optional
Assembly Hardware 90 Degree Corner Tie 45 Degree Corner Tie T-Intersection Tie Custom Corner Tie	 Y Y Y Y
Height Adjuster	4″, 12″
Scaffold Bracket	Nylon

EPS Properties	
Type	XIII
Minimum Density pcf	1.60 pcf
Fire Resistant Bead	YES
Flame Spread, max. 6″	Less than 20
Smoke Development	Less than 300
Compressive Strength, psi	20
Flexural Strength, psi	45
Water Vapor Permeance, (max.)	1.5 max.
Maximum Dimen. Stability % change	2.0% max.
Absorption by Volume, (max.)	<0.5

LiteForm®
The Best Way to Build!

1950 West 29th Street
South Sioux City, NE 68776
tf: 1.800.551.3313
p: 402.241.4402
f: 402.241.4435