

Why Insulated Concrete Forms?

A Better Way to Build

Since the turn of the century, professionals in the construction industry have begun to turn from conventional walls in favor of Insulating Concrete Forms (ICF).

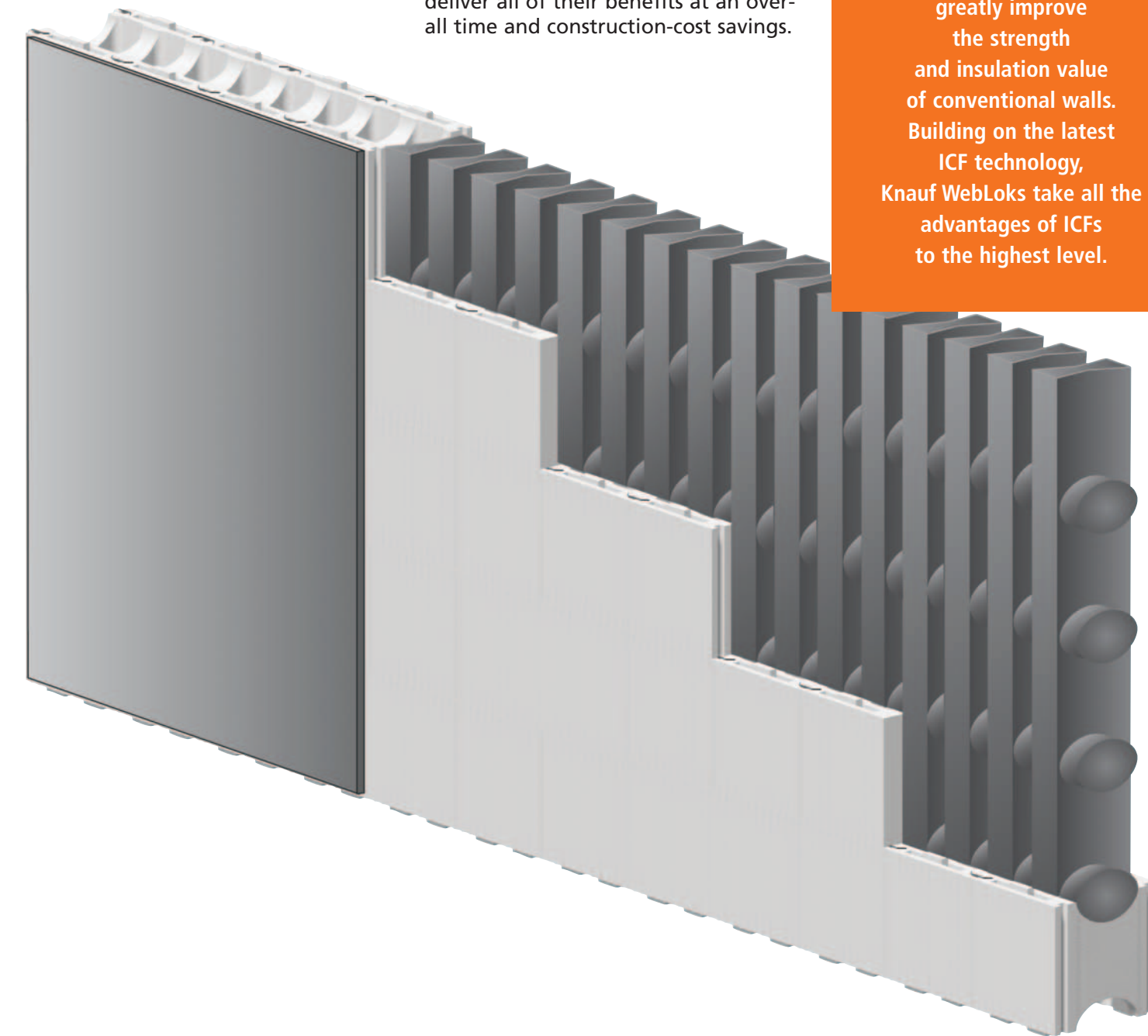
Architects and structural engineers specify ICFs for design flexibility, structural integrity, and ecological advantages. Contractors and builders use ICFs to achieve greater productivity, ease and speed of construction, and the ability to work deeper into cold-weather seasons.

A Better Way to Work

Made of resilient, tightly closed cells of Expanded Polystyrene (EPS) and molded into a variety of shapes, light but rigid ICFs are easy to handle. Once in position, the ICF cavity holds and cures poured-in-place concrete walls. After curing, the forms remain in place as part of the wall, providing superior thermal insulation, fire protection, moisture resistance, and sound proofing.

ICF-built structures afford greater strength using less concrete than conventional forms. And, in general, they deliver all of their benefits at an overall time and construction-cost savings.

Insulating Concrete Forms greatly improve the strength and insulation value of conventional walls. Building on the latest ICF technology, Knauf WebLoks take all the advantages of ICFs to the highest level.



Why WebLok™?

We've Got the Lock on Comfort

The WebLok Wall System was designed to improve significantly upon the advantages of ICFs. Keeping in mind the principal challenges facing the construction industry today, our engineers set out to surpass all other ICF systems across the board. We achieve dramatic success in cost, schedule, quality, and safety.

Cost

The WebLok system has been scientifically engineered to afford the greatest possible cost efficiency. Like all ICF systems, WebLoks eliminate plywood or 2-by concrete forms and all the time, timber, and hard work involved. Easily stacked, locked into position, and filled with concrete, the WebLok cavity forms a screen-grid of concrete, which achieves maximum strength from the least amount of concrete. That means substantial reduction of concrete costs as well as time and labor costs.

The unsurpassed insulating properties of WebLok ICFs save contractors money by significantly reducing the size of heating and cooling units. Homeowners and building owners save, because WebLok ICFs reduce heating and cooling bills from 30% to 40% a year, saving hundreds to thousands of dollars annually.

Schedule

No other ICF system offers more ease of construction and on-the-job productivity. Each WebLok weighs less than four pounds. So easy to handle that construction crews work faster, suffering less wear and tear and fatigue. Lightweight WebLoks unload and handle easily. No ICF stacks and locks together more easily or more quickly.

With inscribed measurements, embedded steel battens, and reversible positioning, construction crews breeze through the wall-building process. There is no right-side-up to worry about with WebLoks. Even corner blocks work either way. This not only makes building easier, it greatly simplifies the specifying and ordering process.

All told, the WebLok construction process means shorter construction schedules, quicker wall construction, reduced cycle time, fewer contracts, and greater productivity.

Quality

WebLok walls make incredibly strong structures. Each one-piece WebLok stacks level and locks firmly with adjacent blocks, making it easy to build level and plumb walls with strong, tight joints.

Concrete curing strength is at least 50% greater than standard, removable forms, and stronger than other ICFs. The cavity of a WebLok wall creates an uninterrupted, solid grid of concrete. This unique concrete web is structurally superior to a solid cement wall of similar width. Not just because concrete cured inside the WebLok cavity cures harder, but because the patented web shape is engineered to create optimal structural strength.

WebLok ICFs insulate better than comparable alternatives. Around the concrete grid, they form an uninterrupted, interlocking, wall of superior insulation and a vapor barrier with an effective R-26 insulation value. As a frame of reference, conventional walls require R-50 to achieve similar energy efficiency. And unlike ICFs that use connectors to join their inner and outer surfaces, WebLok ICFs use no conducting devices that encourage thermal bridging.

A solid, concrete grid surrounded by EPS also provides an enhanced sound barrier. WebLok walls achieve a Sound Transmission Class Rating of 49. Tight-fitting, interlocking WebLoks leave no air spaces to allow air infiltration. No uncomfortable drafts, hot and cold spots, or temperature fluctuations. With properly filtered ventilation, only controlled, filtered air comes inside. Indoor air remains free of airborne pollen, mold, mildew, dust, and harmful allergens.

Safety

At the end of the day, a structure is as good as it is safe. That's why WebLok engineers have worked so hard to create the safest wall system on the market. In addition to fine tuning the WebLok cavity for maximum structural strength, our WebLok assembly has passed a two-hour ASTM-E119 certified fire rating. No other screen-grid ICF system offers such certified protection.

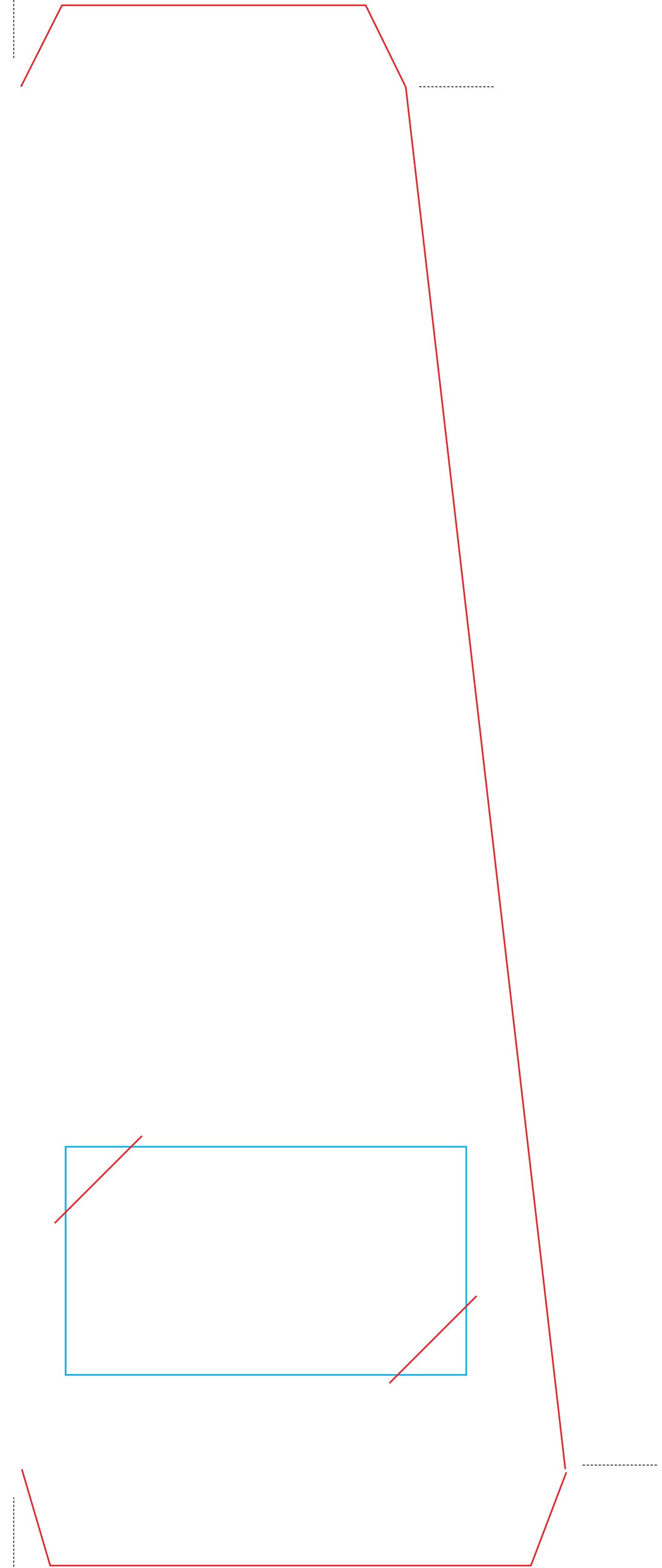


WebLok engineers eliminated the need for connectors between the inner and outer walls, so that no temperature-conducting material would produce thermal bridging. More importantly, this improvement not only enhances the comfort of the living space, it improves the structural integrity and fire resistance of the WebLok wall.

It All Adds Up to Comfort

In the end, when the walls are up and a structure is occupied, no home or building owner thinks too much about the EPS in their walls. Which is the way it should be. Nevertheless, the invisible benefits of WebLoks constantly touch their lives.

When a house has become a home or a building has become a busy store or bustling hotel, all the advantages of WebLok construction come together—in the comfort they feel and the lower energy bills they see, but also in the temperatures they don't feel and the sounds they don't hear.



Why Knauf?

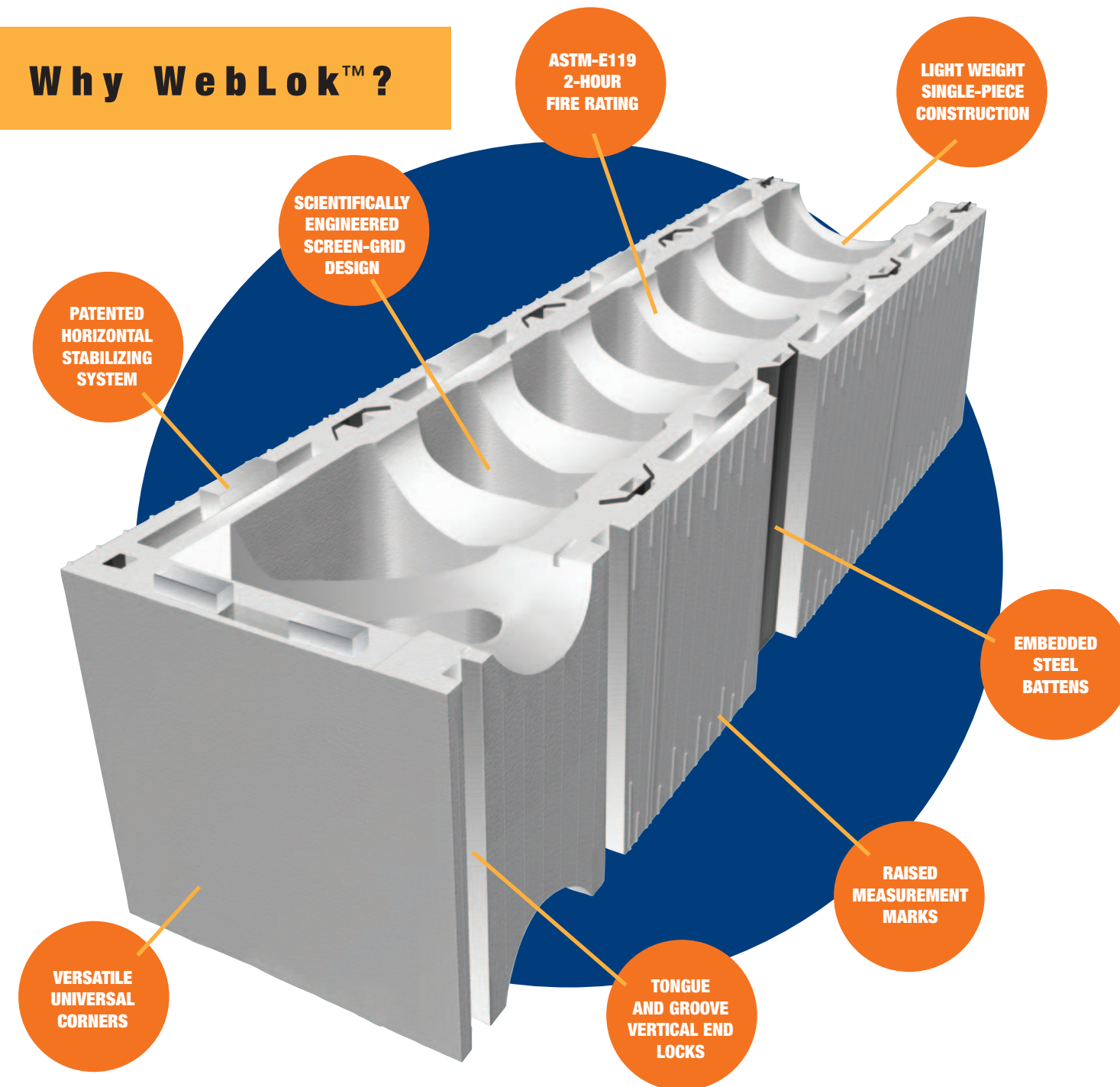
We're Not the New Kid on the Block.

Knauf is the name of a family — a family devoted to serving the building trade since 1932. Knauf is also a group of companies that invent, manufacture, and supply building materials in more than 50 countries around the world.

Knauf USA Polystyrene, in combination with Knauf SNC in France, is the largest producer of expanded polystyrene in the world. Since 1990 we have committed our vision, brain power, and innovative energy to producing the world's best EPS products.

As the makers of WebLok ICF Systems, we understand that our success depends on our vision, innovation, the quality of our products, and the way we deliver them to you.

Why WebLok™?



What WebLok Users Say

Design and Engineering

ICF blocks represent one of the biggest, current advancements in commercial and residential framing. WebLoks optimize the strength, economy, and efficiency that ICF products provide.

Steven E. Schaefer, President
Steven Schaefer Associates, Inc.
Cincinnati, Ohio

Construction

It's very easy to stack and make a tall, straight wall with WebLoks. Better yet, they perform on pour day. WebLoks take concrete better than other ICFs used previously, with no concerns regarding blowouts.

Chris Foit, President
SystemBuilt, Inc.
Columbus, Ohio

Home and Business

I chose WebLoks for my new home, because I wanted not only the construction-cost savings but the long-term, energy savings they provide.

Jeremiah Cole
Homeowner
Cold Spring, Kentucky

KNAUF WebLok™
INSULATING CONCRETE FORMS

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Printed in USA KW042706-2500

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Comfort. Start to Finish.