

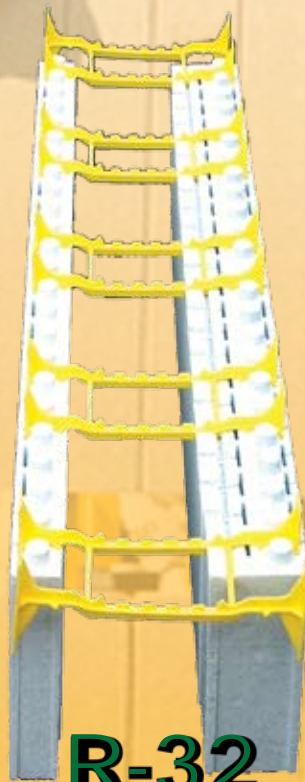
INSULATING CONCRETE FORMING
SYSTEMS FOR WALLS, FLOORS AND ROOFS

QUAD-LOCK®

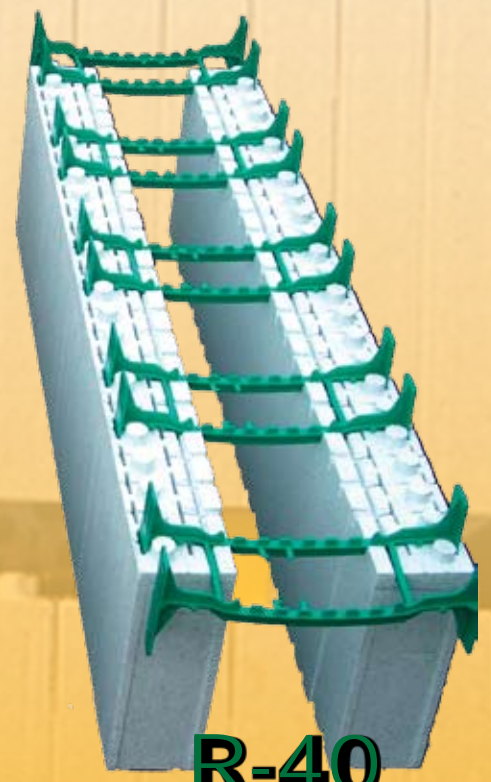
*For Professionals
By Professionals—Since 1994*



R-22
2 Regular Panels



R-32
1 Regular Panel + 1 Plus Panel



R-40
2 Plus Panels

THE LEADER IN R-VALUE

The Quad-Lock Advantage

www.quadlock.com

1.888.711.5625



www.quadlock.com

"Quad-Lock has expanded the design boundaries in my architectural practice. No other building system offers as many benefits in conjunction with its architectural flexibility as Quad-Lock does."

www.quadlock.com

Mark Preston,
Preston Architecture
Burien, Washington

www.quadlock.com



www.quadlock.com

"It was the first time our contractor had used Quad-Lock and we were very impressed with the ease and speed of installation."

www.quadlock.com

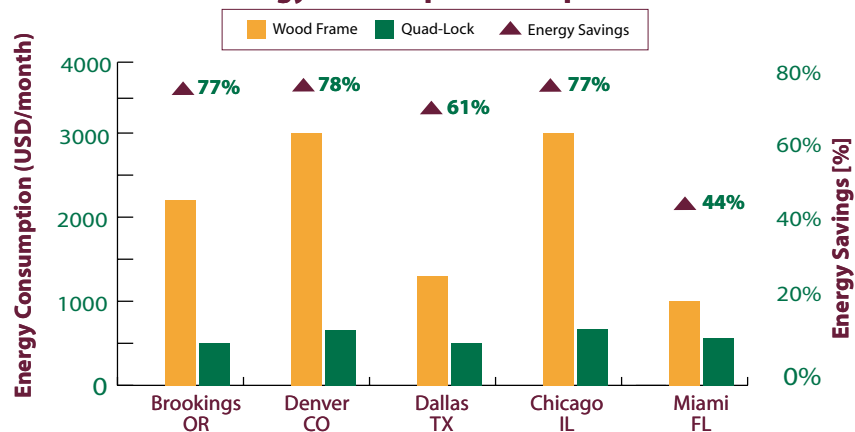
Larry Koop,
Lifestyles Assisted Living
Chilliwack, BC

www.quadlock.com

Features and Benefits

- **Versatile:** 4 main components, 10 wall configurations for any desired wall width
- **World Class Support:** Nationwide training schedule, as well as jobsite training. Our dealer network provides local assistance and inventory
- **Solid and Secure:** Exceptional protection from the tests of Father Time and the ravages of Mother Nature, with no chance of rot, mold or mildew
- **Sound Resistant:** Enjoy the peace with a 50% reduction in noise transfer when compared to most framed walls
- **Environmentally Friendly:** Less energy and water are used in our manufacturing process; construction waste is minimal and can be recycled

Energy Consumption Comparison



Calculated by EnergyWise Structures, independent consultant, Mansfield TX
Based on a building in Brookings OR, 20,025 sqft, using heat pumps, 7.5" roof insulation and other energy saving building materials

Quality

Leader in R-Value - Quad-Lock provides the highest TRUE R-value in the ICF industry - R-40.

Commitment to Quality - We are committed to providing the building industry with superior wall, floor and roof systems, delivered with excellent service, through high quality dealers.

Comprehensive Distribution - Our products are in transit and in stock at Dealers worldwide, ready to fill any immediate need.

ISO 9001:2000 Certified - Quad-Lock is the only ICF manufacturer that has received ISO certification.

Flexibility

Quad-Lock can easily be shaped to form design elements of modern buildings — openings, corners, angles, curves and arches. Leading installers recommend Quad-Lock as the best system to build curves.

Technical Support Service

We are committed to providing you with all of the support that you will need for every aspect of selling, estimating and installing our system. This includes:

- **Contractor Training Seminars**
- **Job-site Training**
- **Training Support Materials:**
 - Product Manual (including CAD drawings)
 - Installation Video
 - Pocket Installation Guide
 - Computerized Estimating Program
- **Toll Free Customer Support**

Labor Example

Approximately 6000 sqft of wall
540 lineal feet at 11' tall
45 x 90 corners, 27 openings + numerous bulkheads
Using a non-ICF experienced crew

Total Man Hours: 275

Total square feet completed per man, per hour: 22 sqft

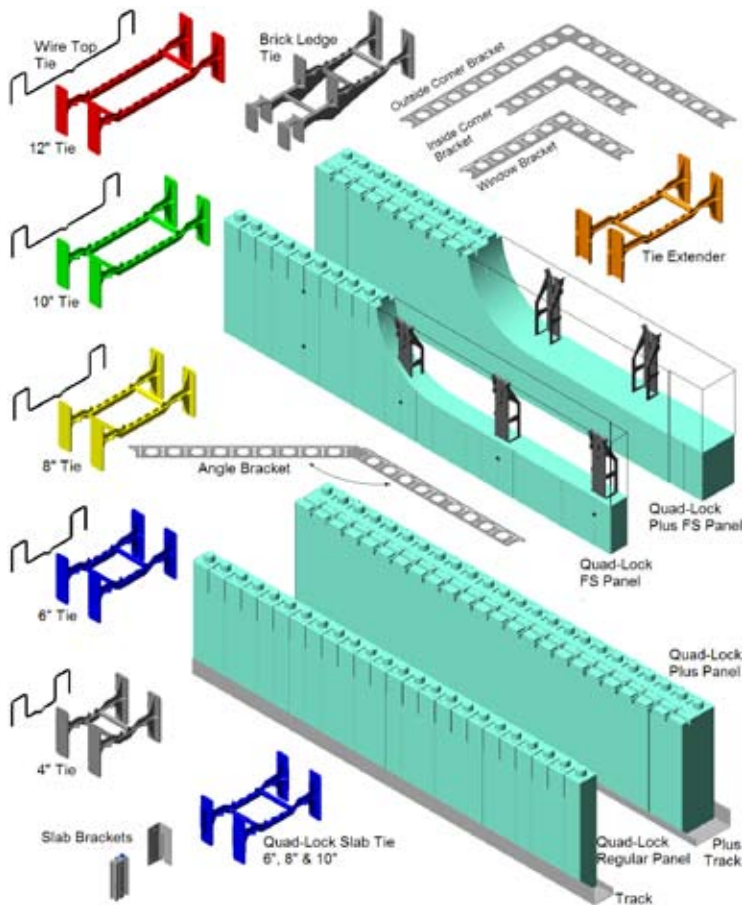
Based on total labor from beginning to end, footings not included. Labor times may vary depending on project.



The Quad-Lock Building Solution

Quad-Lock's systems of insulating concrete forms (ICF) were conceived and developed to reduce the cost and increase the versatility of forming cast in place concrete walls, floors and roofs.

There are only four components to the Quad-Lock system (panels, ties, corner brackets and track), which assures simplicity in construction and supply. All building elements are created with our patented panel and tie design. Horizontal reinforcing steel is accommodated in the tie, while vertical reinforcing steel placement is infinite, and can be preset. No custom, special-ordered parts are required.



Quad-Lock Components

Wire Top Ties

Used at the top of the wall in conjunction with the metal track to create a plumb finish.

Metal Track

Galvanized Metal Track for ease of starting and finishing a wall. Die cut every 12" for easy fastening. Available in 2 1/4" and 4 1/4" widths.

Corner and Adjustable Angle Brackets

Galvanized steel, die cut for fabricating 90° corners and angles of any degree.

Slab Tie/Bracing System

Used to secure 1 to 2 layers of outside panels during a concrete floor pour.

Other Ancillary Products:

Quad-Lock approved products are available. See our Product Catalog for details.

Components

Regular Panels

48" long x 12" high x 2 1/4" thick. Shape molded, expanded polystyrene (EPS), high density, fire retardant. Scored and slotted every 2" for easy measuring, cutting and tie placement.

Plus Panels

Developed for walls requiring maximum insulation values. Dimensions are the same as the Regular Panel with one exception — the Plus Panel is 4 1/4" thick. Combine with the Regular Panel to obtain R-32, or combine 2 Plus Panels for an R-40 wall.

Fastening Strip Panels - Regular & Plus

Same dimensions as the other panels but features 1 1/2" wide plastic fastening strips, molded into the panels every 12" on centre. The fastening strip provides an uninterrupted attachment point for lapped siding. Can be combined with Regular and Plus Panels.

Ties

Injection molded, high density polyethylene (HDPE). Five standard sizes, color coded for easy identification; 4" (black), 6" (blue), 8" (yellow), 10" (green) and 12" (red). Two specialty ties are also available: The **Tie Extender** allows builders to create walls of almost any desired concrete thickness. The **Brick Ledge Tie** is used to create a concrete ledge for brick or stone exterior finishes or as an interior support for floor joists.



1.888.711.5625

www.quadlock.com

1.888.711.5625

www.quadlock.com

1.888.711.5625

www.quadlock.com



"We at Forever Homes build only custom concrete houses using Quad-Lock. We need a product that's strong, accurate and adaptable to all situations. Quad-Lock is that product."

1.888.711.5625

Brian Honcoop,
FOREVER HOMES

www.quadlock.com
Bellingham, WA

1.888.711.5625

www.quadlock.com

Construction Methods Comparison

Quad-Lock Product Approvals:

- ICC ER #5188
- Miami-Dade County Approval #06040706
- City of Los Angeles General Approval RR25527
- City of New York MEA 71-05-M
- CCMC #12914-R
- Ontario Building Approval #06-09-153 (12914-R)
- British Board of Agreement #06/4347M
- CE European Technical Approval (ETA) #06/0189
- German Zulassung (Z-5.2.205) vom DIBt



		QUAD-LOCK 6" Solid Concrete Wall	WOOD FRAME Standard 2x4 Wall	CMU BLOCK 6" Hollow Core
R-Value	Nominal <small>[h*ft²*F/BTU]</small>	R-22, R-32, R-40	R-12	R-12
	<i>Explanation</i>	6" concrete; 4½", 6½", 8½" EPS insulation	R-12 if 2x4 wall and batt insulation, 4-19 if 2x6 wall and batt insulation	R-12 if 6" hollow core with 2x4 woodstrapping and batt insulation
	<i>Sources</i>	Tested by Ecotope	Model National Energy Code of Canada for Buildings 1997	Model National Energy Code of Canada for Buildings 1997
R-Value	Performance <small>[h*ft²*F/BTU]</small>	R-50+	<R-12	<R-12
	<i>Explanation</i>	Due to the thermal mass of the concrete and the lack of air filtration, ICFs perform like a wood framed wall that is insulated to R-50 in most areas of North America.	Due to thermal bridging of framing members and air infiltration, a framed wall's R-value is considerably less than the R-value of the listed Batt insulation.	Although air infiltration is mostly eliminated, framing members still lower the overall R-value. Listed R-value is attainable only if continuous board insulation is used.
	<i>Sources</i>	Simulated by CTL	Quad-Lock	Quad-Lock
Fire Rating <small>[h]</small>		4 hrs	1 hr	2 hrs
	<i>Explanation</i>	1/2" gypsum applied, taped and filled	1hr if 5/8" fire resistant Type X gypsum applied, taped and filled	2hr if 5/8" fire resistant Type X gypsum applied, taped and filled
	<i>Sources</i>	Tested by Warnock-Hersey	BC Building Code, Table A 9.10.3A	BC Building Code, Table A 9.10.3A
STC Rating <small>[Sound Transmission Class]</small>		50+	36	48
	<i>Sources</i>	BC Building Code, Table A 9.10.3A	BC Building Code, Table A 9.10.3A	BC Building Code, Table A 9.10.3A

Monthly Housing Cost Comparison

	STANDARD HOME	ICF HOME	COMMENTS
<i>Purchase Price</i>	\$200,000	\$208,000	4% more
<i>Principal + Interest</i>	\$1,119	\$1,163	7.5% interest, 20% down
<i>Taxes</i>	\$300	\$312	.15% tax rate
<i>Insurance</i>	\$60	\$48	20% savings
<i>Energy</i>	\$145	\$102	30%-90% savings
Monthly Housing Costs	\$1,624	\$1,625	Only \$1 more

Source: National Association of Homebuilders

QUAD-LOCK[®]

Phone: 604.590.3111 Toll Free: 888.711.5625 Fax: 604.590.8412

Email: info@quadlock.com Web: www.quadlock.com

Head Office: 7398-132nd St., Surrey, BC, Canada V3W 4M7

Patents: U.S.: 5,704,180 Canada: 2,188,945 Mexico: 200243 Japan: 3570723 China: 95193961.0

ISO 9001:2000
Certified Company

