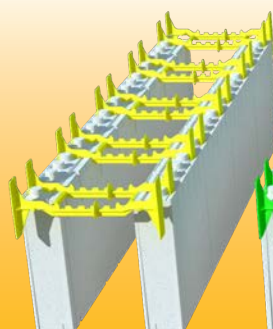


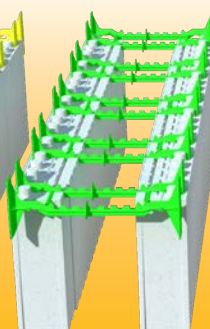
Insulating Concrete Forms

QUAD-LOCK®

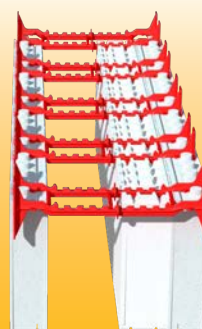
Concrete Building Solutions



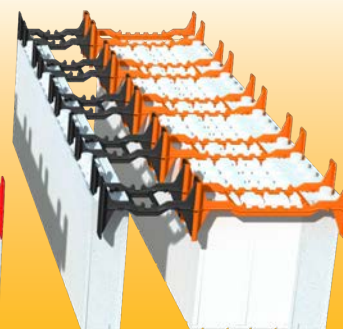
R-28



R-38



R-43



R-59

The Leader in R-Value

The Quad-Lock Advantage



Advantages for Owners:

Solid & Secure: Quad-Lock ICFs provide exceptional protection from the tests of time and the ravages of nature. The structural integrity of the reinforced concrete can withstand hurricane or tornado force winds and associated flying debris.

Energy Efficient: Quad-Lock homes can save you 30-70% or more on your energy costs*. With choices of true R-Values of 22, 28, 30, 38, 43, and 59, Quad-Lock walls provide superior insulation and minimal air infiltration.

Healthy: Quad-Lock walls will not promote rot, mold or mildew. Reduced air infiltration allows better conditioning & allergen filtering of indoor air. Temperature remains very steady without cold spots or drafts.

Quiet: Enjoy peace and quiet with greatly reduced noise transfer.

Sustainable Design: There is virtually no construction waste and any scrap can be recycled. Long-term building durability means a Quad-Lock home's life-cycle is measured in centuries, not decades, and maintenance and operation costs are significantly lower.

Advantages for Contractors & Architects:

Versatility: Only 4 main components allow numerous R-Values and any desired wall widths. There are no special order components – any unique architectural elements can be created on-site.

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.

Ease of Installation: Easily build around doors, windows, column reinforcements, rebar...anything. There are no heavy forms to haul around or forms to be stripped. Self-bracing corners and angles eliminate the need for additional bracing.

Reduced Costs: Achieve faster construction times by combining many steps (framing, sheathing, insulation, vapor barrier) into one single step. Insurance and on-site security costs are less.

Quad-Lock Technical Team: We are available to help with all facets of your project and have an unmatched dealer network providing local support and inventory.



"There's no other system on the market that offers the same level of design flexibility that Quad-Lock does. Anything that we want to do with Quad-Lock, we can do."

– Stewart Bodner

Bozeman Brick, Block and Tile, Bozeman, MT



Quality

ISO 9001 Certified - The Quad-Lock team is focused on product and service quality and has received ISO Certification for its Quality Management System..

Leader in R-Value - Quad-Lock provides the highest TRUE R-value in the ICF industry, with choices of R-22, R-28, R-30, R-38, R-43, R-53, and R-59.

Commitment to Excellence - We are committed to providing the building industry with superior wall, floor and roof systems, delivered with great service through reputable distributors.

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

World Class Support

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:

- **Comprehensive Training Programs:**

- Contractor & Designer Training, AIA Programs, Advanced Trainings, Preferred Installer Programs & New Dealer Training

- **Toll Free Customer Support**

- **Training Support Materials:**

- Product Manual + Pocket Installation Guide
- Complete BIM & CAD Details Library
- Installation Training DVD
- Computerized Estimating Program

* Savings vary. Find out why in our fact sheet on R-values. Higher R-values mean greater insulating power.

"This was the smoothest project I have ever been a part of thanks to Quad-Lock!"

– Chris Kozub,
Architect & Integrated
Project Team Member of
LEED Platinum for Home
rated residence



"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."

– Mark Preston,
Preston Architecture
Burien, WA

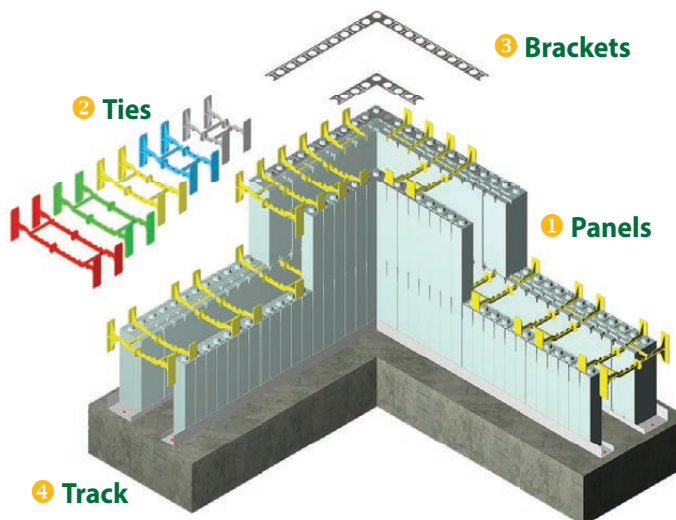
The Quad-Lock Building Solution

SIMPLY the Better Building System With Only 4 Components

There are only four main components to the Quad-Lock system (panels, ties, 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 ties, while vertical reinforcing steel placement is infinite, and can be preset.

No custom, special-ordered parts are required.



1 Panels

- Made of high density, fire retardant expanded polystyrene (EPS)
- Panels are 48" long by 12" high (with varying panel thicknesses)
- Scored and slotted every 2" for easy measuring, cutting and tie placement.
- Combine different panel thicknesses for a multitude of different R-Values

Plus Panels are 4¼" thick, **QPX3 Panels** are 3⅝" thick, and **QPX2 Panels** are 2¼" thick. **Plus** and **QPX2 Panels** panels are also available with integral Furring Strips (FS) every 12".

Extra Panels are 4" thick and can be added inside other panels to add R-Value and optimize the thermal mass effect.

See the Panel Configurations diagram on the back page for some of the many R-Value variations.

2 Ties

- Available in 6 standard sizes for varying concrete thicknesses, such as 4", 6", 8", 10" and more
- Color coded for easy identification
- Serve as attachment points for finishes
- Injection-molded, high density Polyethylene (HDPE)
- Specialty ties including the Extender Tie (to create walls of almost any desired concrete thickness) and the Brick Ledge Tie (to create a concrete ledge for brick or stone exterior)

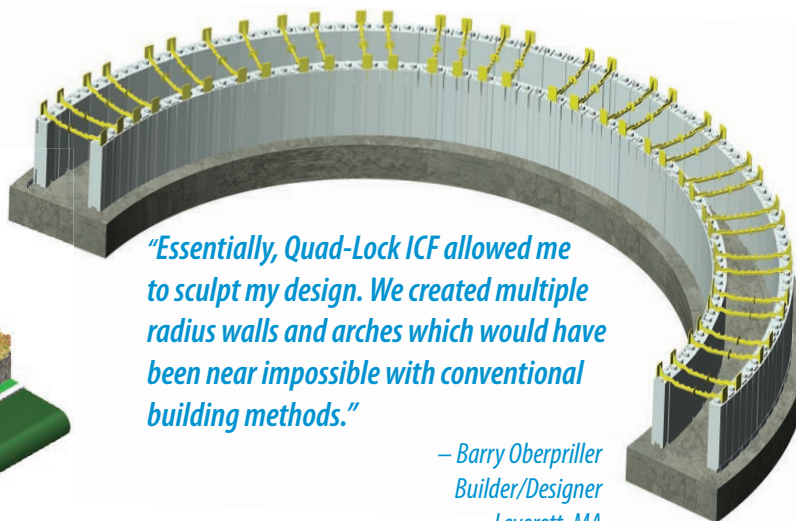
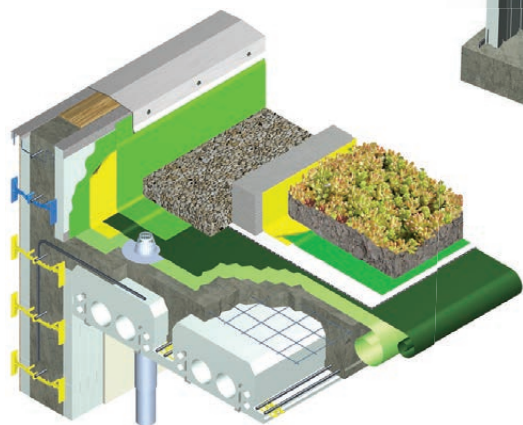
3 Brackets

- Used for constructing 90° corners, angles of any degree, openings, pilasters, columns, T-walls and intersecting walls
- Galvanized steel and die cut for easy tie placement

4 Track

- Used for alignment on bottom of walls and clean finish on top of walls
- Pre-bent galvanized steel available in 2¼" and 4¼" widths as well as Flex-track for radius walls

Ask About the Quad-Deck System for Floors & Roofs



"Essentially, Quad-Lock ICF allowed me to sculpt my design. We created multiple radius walls and arches which would have been near impossible with conventional building methods."

— Barry Oberpriller
Builder/Designer
Leverett, MA



"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."

— Brian Honcoop,
Forever Homes
Bellingham, WA



"The use of Quad-Lock as a forming system allowed us far more flexibility in terms of dealing with complex wall configurations."

— Chris Doyle,
Willow Lane
Construction
Qualicum Beach, BC

Construction Methods Comparison

Quad-Lock Approvals:

- ICC ESR-2157
- British Board of Agreement #06/4347M
- CE European Technical Approval (ETA) #06/0189

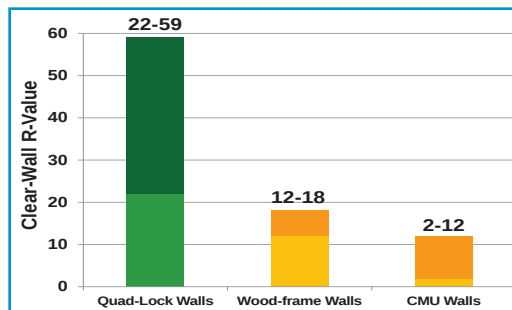
Visit www.quadlock.com for more regional and local approvals



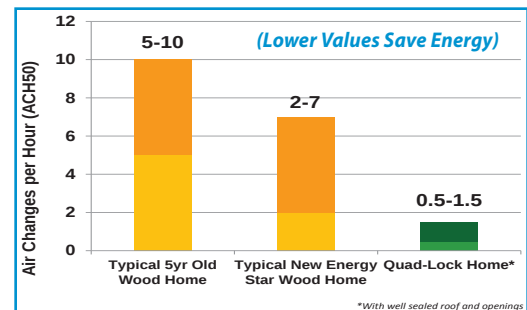
	QUAD-LOCK 6" Solid Concrete Wall	WOOD FRAME Standard 2x4 Wall	CMU BLOCK 6" Hollow Core
R-Value	R-22 to R-59	R-12	R-12
Nominal [h*ft²*F/BTU]	Concrete = 6" EPS insulation = 4 1/2" to 14 1/4"	2x4 wall and batt insulation = R-12 2x6 wall and batt insulation = R-18 Due to thermal bridging of framing members, a framed wall's R-value is considerably less than the R-value of the listed batt insulation.	6" hollow core with 2x4 woodstrapping and batt insulation = R-12 Framing members lower the overall R-value. Listed R-value is attainable only if continuous board insulation is used.
Source	Tested by Ecotope	Model National Energy Code of Canada for Buildings 1997	Model National Energy Code of Canada for Buildings 1997
Air Infiltration	0.5-1.5	2-7	0.5-2.5
Air Changes per Hour (ACH50)	ICF walls are solid without passages for air to leak. Most air infiltration is through a conventional roof & around openings for windows, doors & utilities. Building consultants recommend heat-recovery ventilators for further energy savings & adequate air exchange.	Air infiltration can be felt as 'drafts' and is usually the biggest source of energy loss, accounting for up to 40% of the energy losses. Air leaks through thousands of cracks, openings, and joints between all the pieces of the building shell.	Typically, CMU walls are solid without passages for air to leak (similar to Quad-Lock walls).
Source	Quad-Lock empirical values	US Energy Star & empirical values	
Fire Rating	3 hrs	1 hr	2 hrs
	1/2" gypsum applied, taped and filled (15-minute thermal barrier)	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
Source	Per UL Test for 6" wall	BC Building Code, Table A 9.10.3A	BC Building Code, Table A 9.10.3A
STC Rating	50+ (Excellent)	30-40 (Fair to Good)	44-48 (Very Good)
Sound Transmission Class	Tested by Architectural Testing	California Office of Noise Control	California Office of Noise Control
Source			

Note: Many building codes now require STC 50 or more for some buildings

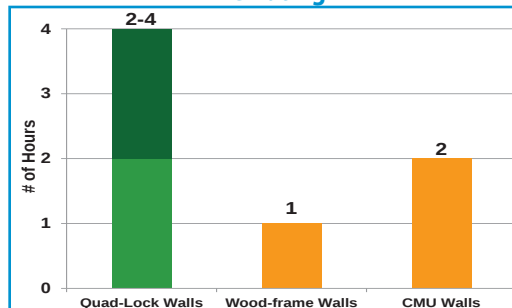
Insulation Value



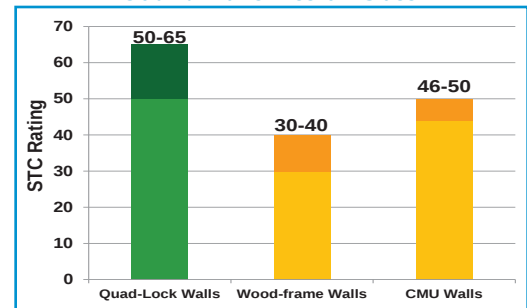
Air Infiltration



Fire Rating

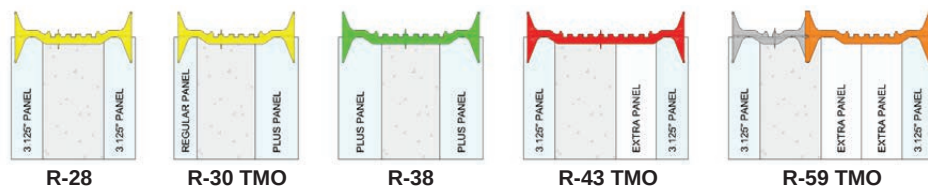


Sound Transmission Class



Quad-Lock Panel Configurations

TMO = Thermal Mass Optimized



QUAD-LOCK
Building Systems

Phone: 604.590.3111
Toll Free: 888.711.5625
Email: info@quadlock.com
Web: www.quadlock.com
Head Office:
7398-132 St., Surrey, BC,
Canada V3W 4M7

ISO 9001
Certified Company

ICFMA
INSULATING CONCRETE FORMS
MANUFACTURERS ASSOCIATION

CLASSIFIED
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BuiltGreen
BRITISH COLUMBIA

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