INSULATED

# CONCRETE FORMS



QUAD-LOCK®

CONCRETE
BUILDING SOLUTIONS

# The Quad-Lock Advantage

The Quad-Lock ICF system significantly improves the insulation of foundation and above-grade walls; it also offers other benefits that will last the life of your building.

## Advantages for Owners

### Durable & Resilient

Quad-Lock ICF construction gives you a strong, steel reinforced concrete structure—the material of choice for large residential, commercial and institutional projects. Buildings built with Quad-Lock ICF offer lifecycles measured in centuries instead of decades and lower risk of costly water damage. Built-in resilience can qualify owners for insurance discounts in many areas, sometimes worth hundreds of thousands over time.

### Healthy, Cozy & Safe

Quad-Lock panels are manufactured from high density, biologically safe, fire retardant, long-lasting expanded polystyrene (EPS) creating healthy and cozy indoor environments. The fire resistance rating of a finished Quad-Lock wall with 8" concrete thickness is 4 hours per tests.

### Ultra Energy-Efficient

With Quad-Lock you can build walls with your choice of insulation value, from R-22 to R-59. Choose the optimum Insulation Value depending on your local climate and energy-saving goals. High, continuous insulation combined with low air infiltration and the thermal mass of concrete provide at least 58% better R-Value than most wood-frame walls.

> ***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

## Advantages for Contractors & Architects

### Versatility

Only 4 main components allow numerous R-Values and any desired wall widths.

### Flexibility

Quad-Lock can easily be shaped to form design elements of modern buildings openings, corners, angles, curves and arches.

### Ease of Installation

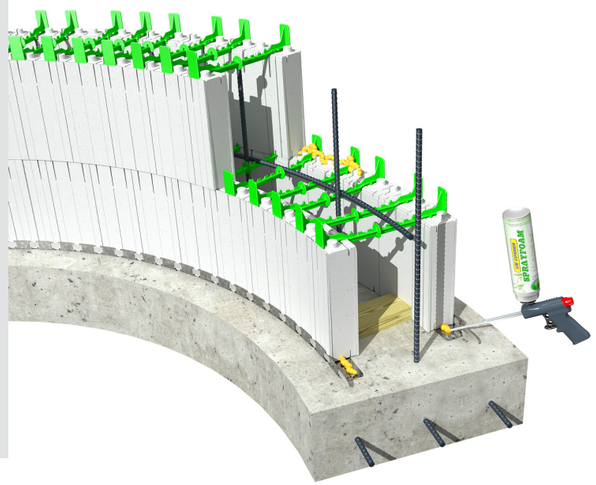
Easily build around doors, windows, column reinforcements, rebar, etc.

### 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.



# THE QUAD-LOCK BUILDINGSOLUTION

There are only four main components to the Quad-Lock system (panels, ties, brackets and track), which assures simplicity in construction and supply.

### 1 Panels

Made of high density, fire retardant expanded polystyrene (EPS)

Panels are 48" long by 12" high

Scored and slotted every 2" for easy measuring, cutting and tie placement

Combine different panel thicknesses for a multitude of different R-Values

### 2 Brackets

Metal brackets used for constructing 90° corners, angles of any degree, openings, pilasters, columns, T-walls and intersecting walls

Create the strongest ICF corners in the industry, no zip-ties or expensive clips needed

### 3 Ties

Available in 6 standard lengths for varying wall widths and color coded for easy identifcation

Injection-molded, high density Polyethylene (HDPE)

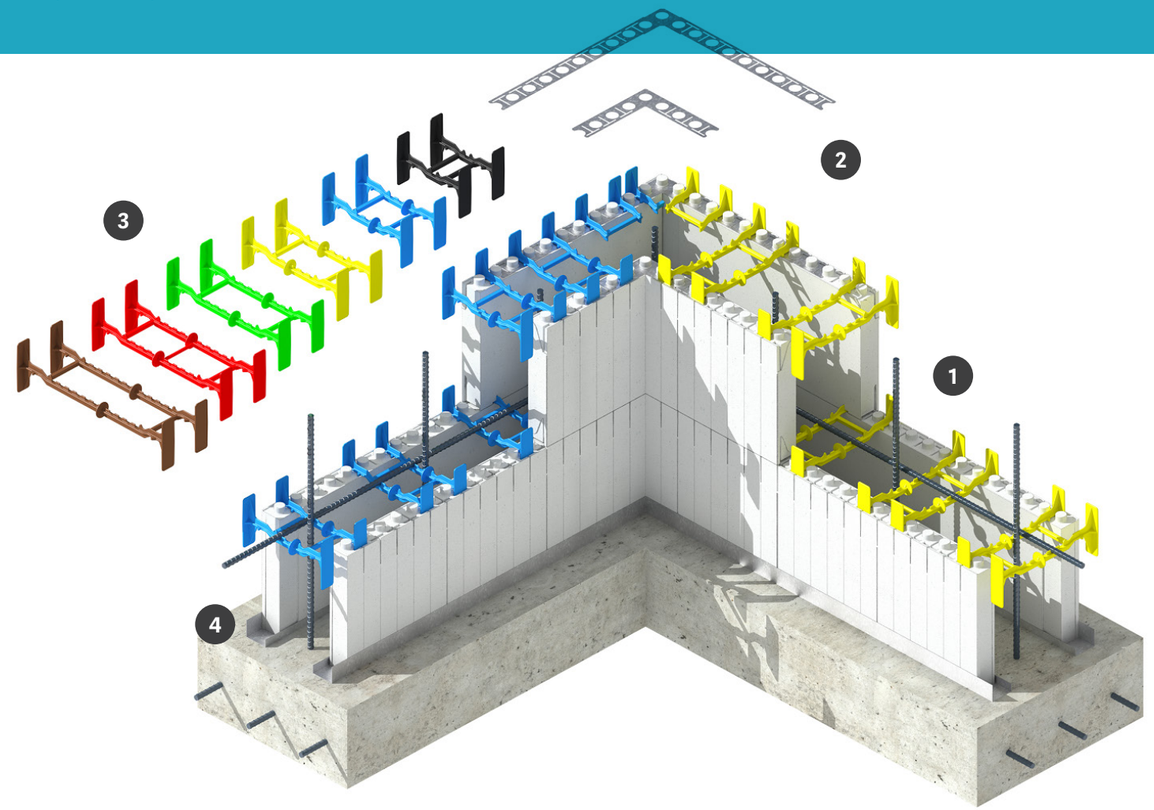
Provides additional strength at high-pressure areas such as corners and T-walls

Allows unlimited wall cavity size by combining extender ties with standard ties

### 4 Track

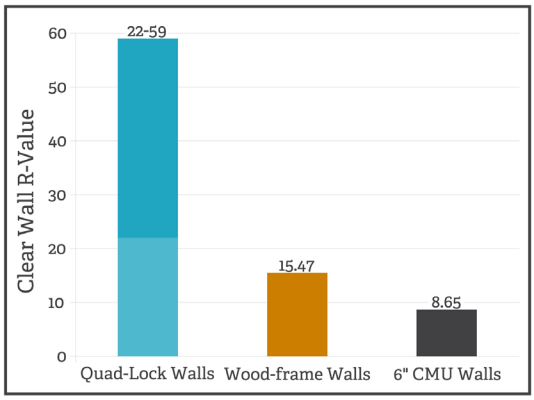
Used for alignment on bottom of walls and clean finish on top of walls

Pre-bent galvanized steel available in 2¼" and 4¼" widths as well as Flex-track for radius walls

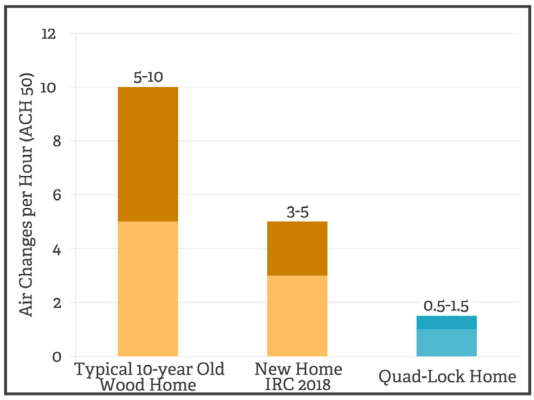


# Construction Methods Comparison

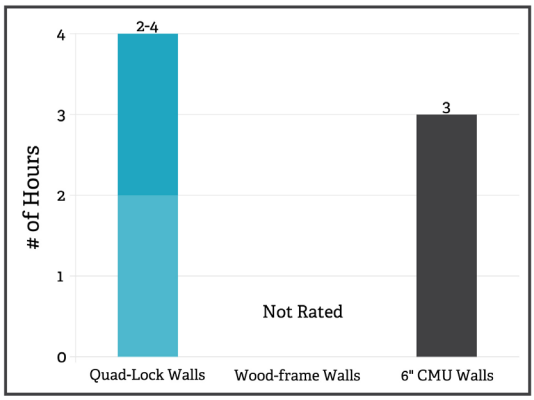
**Effective Insulation Value**



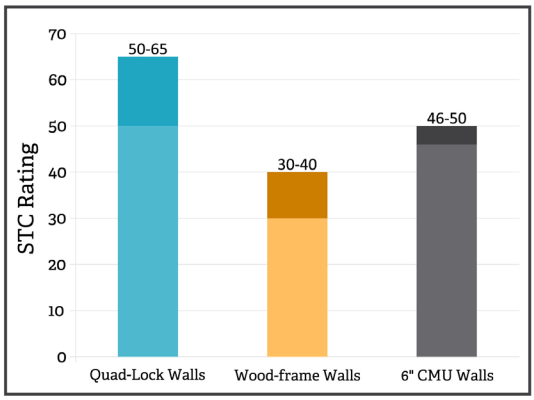

**Air Infiltration** (ACH 50)




**Fire Rating**




**Sound Transmission Class**




## Quad-Lock Panel Configurations

THE **LEADER** IN R-VALUE*

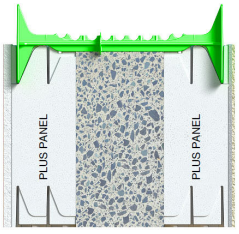
*R means resistance to heat flow. The higher the R-value, the greater the insulating power.



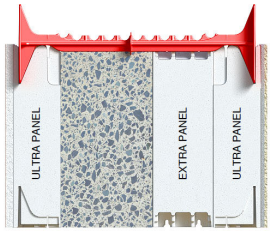

R-22



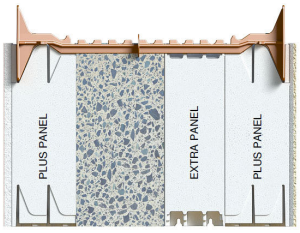

R-28



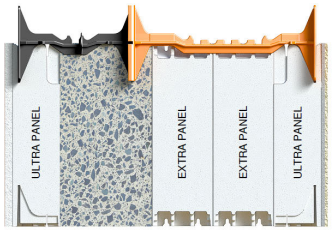

R-38




R-43




R-53




R-59

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