

# QUAD-LOCK<sup>®</sup> BUILDING SYSTEMS

Build Responsible...Build Smart...Build Quad-Lock Plus

*I*nsulating Concrete Forms (ICFs) were first adopted in the European market because of their high energy savings abilities. The need for the same type of energy savings has become more apparent in North America recently. With energy costs on the rise, homeowners and home-builders alike are looking for ways to save on the cost of energy. In response, Quad-Lock Building Systems Ltd. has developed the thickest ICF panel on the market, which provides the highest R-values, up to R-40.

R-value is the measure of thermal resistance and is an indication of a material's ability to insulate. Simply put, the higher the R-value, the better the insulation.

Walls built with Quad-Lock Plus panels offer many benefits in addition to energy efficiency, including superb sound deadening and a healthier indoor environment. Energy savings of 40-70% have been documented using the regular 2" panel. The Quad-Lock Plus wall promises even higher energy savings.

Many builders who are looking to set themselves apart from their competition build homes that are environmentally responsible. The energy efficiencies and other desirable features of an insulating concrete building make ICF, and specifically Quad-Lock, an obvious choice for a green building solution.

Scot Smyth of Smyth Builders in Colorado is one such builder setting out to build responsibly. Scot challenged himself and his associates to build a unique home that complemented its surroundings. In his quest to build creatively and responsibly, Scot chose Quad-Lock's ICF system. He met, and some might say exceeded that challenge, by building 'House at Empyrean Ridge' which won Home Builders Association of Northern Colorado's **Innovative Builder of the Year Award**.

'I chose Quad-Lock as my ICF because I had seen the problems associated with other ICFs — from blowouts to lack of technical support from the manufacturer or their reps.' Since 'House at Empyrean Ridge' was my first ICF home, I had to align myself with people and products that I could trust. "Quad-Lock's Regional Dealer, John Hatfield of Creative Exterior Materials, taught me how I could use Quad-Lock in innovative ways that saved me both time and money", states Scot.

"Deciding to use the Quad-Lock Plus panel was an easy choice for me. Because of the rising fuel costs, I knew I needed to take steps to keep energy costs down. Upfront



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planning and investment can save you money or even pay dividends in the long run. By ensuring that I was using the highest R-value available to me, I saved money on the heating and cooling equipment I installed and now I will save money on heating and cooling my house for years to come." As an added benefit, Scot saves about 20% annually on his house insurance.

Scot now lives in his award-winning home and he's been impressed with how solid his house feels. "My exterior walls are 16.5" inches thick — that's a lot of wall protecting me from, among other things, the harshness of Mother Nature". Further,

Scot states "a couple nights ago the wind was apparently blowing around 80 mph, we didn't even know it was windy until we looked outside the windows. Inside, we couldn't detect the wind — it was that quiet. That same night, the interior temperature dropped 1 degree, considering that it was -8 degrees outside and all the windows we have, that's pretty incredible."

"We had a lot of wind during construction too, but the rigidity of the Plus panels is amazing. We'd go home with 12 foot high Quad-Lock walls stacked waiting to be poured and come back the next morning and they were still standing. Even Mother Nature couldn't put us behind schedule".

Scot will soon begin construction on his next project, APEX, a 4000sqft home in the same development. It too, will be built with Quad-Lock's Plus panels. "I wouldn't use any other ICF."

The few components of the Quad-Lock System ensure simplicity in design, construction and supply. Quad-Lock can easily be shaped to form the design elements of modern buildings — openings, corners, angles, curves and arches. The prominent features of Quad-Lock's Building system are:

**Simplicity:** Quad-Lock consists of 4 basic components and is easy to use.

**Versatility:** The 4 components allow any design including curves and angles. Quad-Lock's unique corner bracket system makes multi-storey ICF construction easy, safe and efficient.

**Strength:** Quad-Lock uses the highest density foam in the industry and is the only system that connects the panels along 4 planes of resistance for superior formwork strength.

**Energy & Cost Efficiency:** Energy savings are documented to range from 40 to 70%.

**Sound Reduction:** Quad-Lock walls achieve STC ratings of 50-58.



**Call today to see how you can get *more* out of your building!**