ICF CONSTRUCTION: WHAT IT IS & 5 REASONS YOU NEED IT!

Short for 'Insulated Concrete Forms,' ICF Construction is one of the most efficient and durable ways to build concrete walls. Read this E-book to learn more!
There is a new term that is becoming a buzzword in the construction field: ICF Construction.

The problem is that many people don’t know what it is, how it benefits them, or why they should get it.

If you are one of these people, then don’t worry, keep reading to learn the basics of ICF Construction and five of its benefits!
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ICF Construction, which is short for Insulated Concrete Forms, uses the concept of setting up concrete block forms and then filling the forms with concrete. This is similar to a standard poured concrete wall.

Unlike poured concrete walls, however, ICF Construction uses hollow blocks made of rigid thermal insulation.

These blocks, sometimes referred to as “concrete legos,” securely interlock with each other. They also become a permanent part of the wall and are not removed when the concrete dries.

When the blocks are set, concrete is poured and allowed to dry. When the concrete has cured, the exterior and interior lining is attached to the ICF blocks.

ICF blocks securely interlock together, similar to Legos. These blocks are then filled with concrete.
ICF Construction is one of the most energy-efficient construction methods available with a high R-value of insulation.

The insulation of ICF Construction comes from two parts:

First, the ICF blocks are made from thermal insulation and provide an interior and exterior layer of insulation.

Second, the concrete core eliminates any air leaks or infiltration.

These combined insulation factors mean that a home built with ICF Construction takes significantly less energy to heat and cool. This energy efficiency is not only beneficial to the environment, but it also gives the homeowner significant savings.
ICF Construction is more durable and fire-proof due to the solid concrete walls.

Benefit 2: Durability

Because the walls have a reinforced solid concrete core, ICF Construction provides a durable wall for any building.

While many homes are built to withstand minor intrusions to some point, such as a tree branch falling on the house, ICF Construction takes this to the next level.

Homeowners along coastlines or in heavily wooded areas are turning to ICF Construction because the walls are more likely to withstand high winds, falling trees, and other obstacles.

Homes with ICF Construction are also more fire-resistant because of their solid concrete walls. This increases the home’s durability and overall safety.
Benefit 3: Strength

ICF Construction is one of the most energy-efficient construction Unlike standard home construction that is based on wooden framing, ICF Construction has incredible strength.

The concrete wall, combined with the ICF blocks, creates a structural wall that is up to ten times stronger than wooden framed construction!

Another factor that contributes to the strength of ICF Construction is the fact that the concrete walls will not rot when they get damp. Not only does this help with a building’s structural integrity, but it also means there will be less maintenance.

The solid concrete wall and ICF blocks combine to create a wall that is 10 times stronger than traditional wooden framed construction!
Benefit 4: Pest Resistant

We already mentioned that there are no air leaks in ICF Construction. This helps the R-value of the walls, but it has another benefit - fewer pests.

Because pests and insects cannot eat through concrete, or find gaps in the wall insulation, ICF Construction is significantly more pest-resistant than standard construction.

If termites are a problem in your area, then you will want to make sure they don’t chew through the foam of the ICF blocks. And while they may take some of the foam insulation, termites will not be able to eat through the concrete or affect the wall’s strength.
Benefit 5: Sound Absorption

ICF Construction is one of the most energy-efficient construction If you live in an area with a lot of noise or traffic, then ICF construction is worth looking into for its ability to absorb sound.

Due to the wall’s thickness, mass, and airtightness, ICF Construction allows almost half the acoustic sound waves of standard fiberglass insulation and drywall.

While this benefit might not be as noticed in a remote or country setting, it can be a big benefit in a city or urban area. It is especially a benefit when living beside a highway or area with a lot of traffic noise.

ICF Construction allows almost half the acoustic sound waves of standard fiberglass insulation and drywall.
ICF Construction is still a relatively new form of construction, and many homeowners are not aware of what it is or the full value of using it.

If you are building a new home and looking for a wall or insulation that is durable and efficient, then call K. Graber Construction for a quote for ICF Construction!