

ICFs

Insulating Concrete Forms

- *Shorten Construction Schedule*
- *Enhance Comfort and Safety*
- *Reduce Energy Costs*



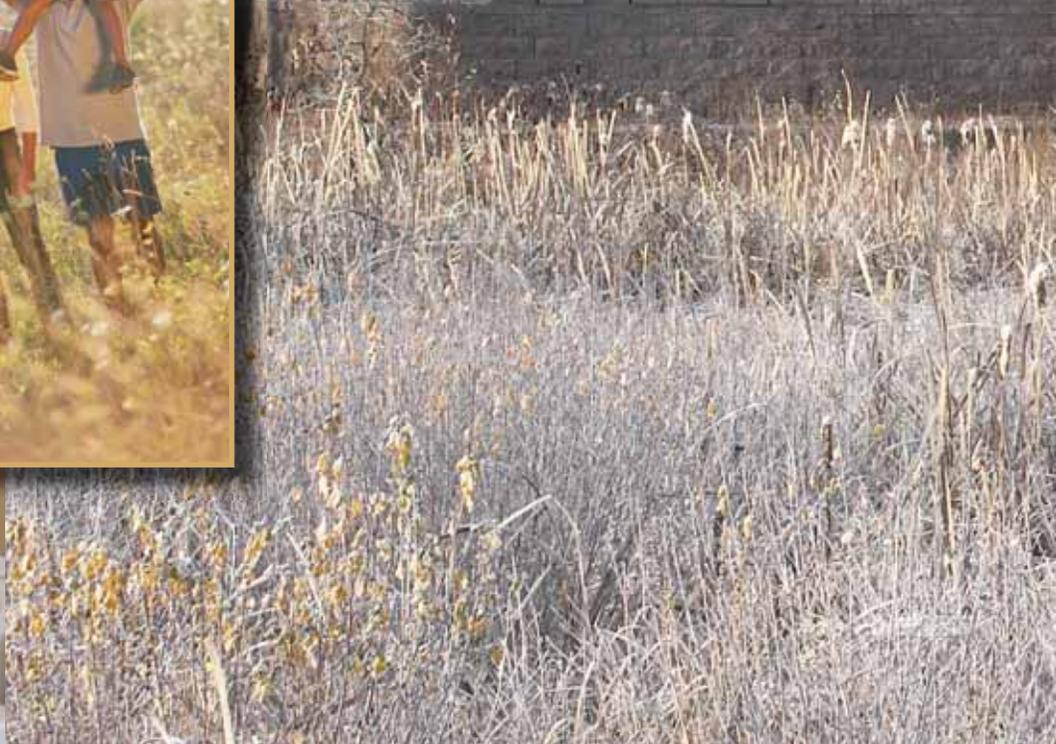
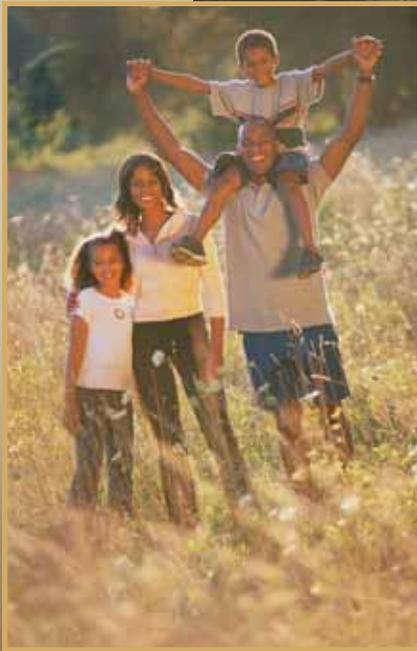
Insulating Concrete Forms

Build An Environmentally Friendly Home

Add up residential heating and cooling, lighting, appliances and other electronic equipment, and it's easy to see why traditional built homes are large energy consumers. By contrast, green homes built today use far less energy.

Insulating Concrete Forms (ICFs) from County Materials offer a super insulated concrete building system that is both energy-efficient and cost-effective. An ICF home built from the foundation to the roofline can cut 50-80% on energy bills.

- Insulation values have measured as high as R-28 to R-32 by thermographic tests
- Equivalent R-values can exceed 50 due to Thermal Mass Performance





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Combine ease of use with flexible design

County Materials' ICF system accommodates today's most popular design features, from bays and radiuses to custom angles. Build taller walls, large openings, longer floor spans and even cathedral ceilings. Any wood frame home can be converted into an ICF blueprint.

Windows and door openings of any size can easily be incorporated with frames built into the wall prior to pouring concrete.

ICF brackets also accommodate a variety of exterior and interior finishes, including brick, stone or other materials. Interior walls will easily accept sheet rock screws for attaching standard sheetrock.

- Brackets are molded 1/2" below the surface of the block to eliminate shadowing with stucco or EIFS products on the exterior
- Does not require tin or metal for attachment of building materials
- Unique bracket widths are a full 2- 1/2" making it easier to attach exterior and interior finishes
- Allows easy attachment of drywall and other building materials



Increase Comfort and Safety

One of the greatest benefits to the County Materials' ICF building system is the comfort and increased safety. ICF structures are up to 8-1/2 times stronger than typical wood framed structures. ICF homes can withstand winds greater than 200 m.p.h., making their walls tornado and hurricane resistant. In addition, the super insulated walls do not support combustion and meet the 4-hour fire rating code.

ICFs super-insulated walls also provide superior soundproofing, with a sound transmission class (STC) rating of 48. That's nearly twice as high as a wood-framed wall. This reduces outside noises from traffic, airplanes and lawnmowers. You also get unmatched air quality with significantly reduced airborne dust and allergens.



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Rely on a Rugged Design

ICFs provide a dependable building envelope. ICF homes are built with long-lasting concrete which is inert and resistant to mold and mildew. A typical two story ICF home can save up to 13 trees.

With traditional stick building, moisture can become trapped within the open cavity of a wood stud wall, causing mold, mildew and rot problems. Since ICFs are closed cavity construction, they are highly durable, outlasting other building materials.

County Materials' ICFs ensure the free flow of concrete throughout the form, reducing voids or weak spots. A heavy-duty tongue and groove design interlocks units for correct alignment and proper insulation seal.

Our brackets and ties are also some of the heaviest and toughest on the market.

- Eliminate thermal bridging and corrosion concerns
- Brackets run the full height of the form (16" high molded every 8" on center)
- 90 degree corner features full height outside bracket with legs that protrude into the concrete
- Brackets support the wall so less bracing is needed





Shorten construction schedule

Once a crew is experienced in ICF construction, a structure can go up faster than with traditional framing. Construction can even continue in winter because ICF units can be installed at temperatures down to 0 degrees F.

Likewise, ICFs present no problem for the sub-contractors who come after the walls are poured. Because holes, chases and rectangles are easily cut into ICFs with a knife or saw, installation of mechanical systems is a snap. The fastening of finishes is just as fast and easy. And mid-course corrections, such as moving an opening, can be sawed and re-formed. Even later, ICF homes can be remodeled.



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Add up the Cost Savings

Initial costs for building an ICF home are typically four percent higher than traditional stick-built homes. However, home and building owners can enjoy significant savings and added long-term value:

- Increase resale value
- Lower monthly energy bills by as much as 50-80%
- Qualify for energy-efficiency mortgages
- Lower insurance premiums
- Shorten construction time
- Eliminate extra costs for furring or insulating basements
- Reduce size of heating and cooling units by as much as 50%
- Reduce maintenance costs



Internationally Proven and Code-Accepted

Every major code body in North America has approved ICFs. County Materials' forms have received the following code evaluation reports from the ICC Evaluation Service ESR#1815:

- 4-hour fire rating in accordance with ASTM E119-00a and CAN/ULC S101.
- Flame Spread less than 25 and Smoke Development less than 450 when tested in accordance with ASTM E84, UL 723, UBC 8-1.
- Meets requirements of ASTM C578 "Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation" as a Type II Thermal Insulation Material.

- Polypropylene web material meets CC1 Requirements for plastic materials when tested in accordance with ASTM D1929, D635.
- Fastener Withdrawal Resistance in accordance with ASTM D1761.
- Fastener Lateral Resistance tested in accordance with ASTM D1761.
- Room Fire Test Standard for interior of Foam Plastic Systems in accordance with UBC 26-3.
- Crawl Space Evaluation conducted in accordance with ICCES (formerly ICBOES) requirements.
- Fire Endurance Test in accordance with UBC 26-3.



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