

Avila Engineering & Construction LLC.

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The Smart Construction Tendency

Hurricane Season is over



1 Harvey, Irma, Maria and other 14 small hurricanes left behind more than \$300 Billion in damages in USA. These natural events caused many American homeless living in hotels and tents. South Floridians need to be prepared to face these inevitable situations, ICF building system protects from strong winds, debris impact and flood.

Time is Money



2 When asking for comparison bids in ICF vs. Conventional Construction ask for the complete wall estimate include in your assessment the beams and columns installation and duration (*ICF walls could act as Load Bearing Walls*); hardware, furring, insulation, additional lumber for strength, vapor/moisture barriers, labor, indirect cost and the whole duration, the conclusion is extraordinary. The Installation duration is another condition to assess, saving in time is saving in cost. Time is money.

ICF House in Progress



3 This @4,500 sqf. house at Lighthouse Pointe, Florida. started November. It will use Quad-Lock walls and Quad-Deck.

Energy Efficient,
Smart & Valuable
Construction
Solution



Rewards of Insulated Concrete Form

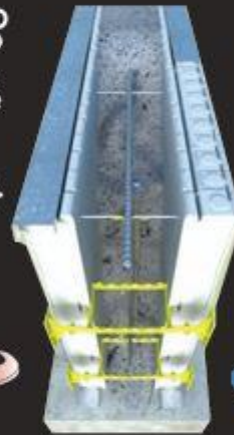
Handle **WINDS** up to 250 MPH. Plus Debris impacts up to 115 MPG



NO INSECTS OR ROT. Solid Concrete and ESP avoid the invasion of insects.



REJECTS COLD OR HOT WEATHER. Savings in energy bills



FIRE PROTECTION
Up to 4 hours, 4x more than wood.



LASTS FOR YEARS
Concrete lasts forever



NOISE REDUCTION
Making your home quieter & restful

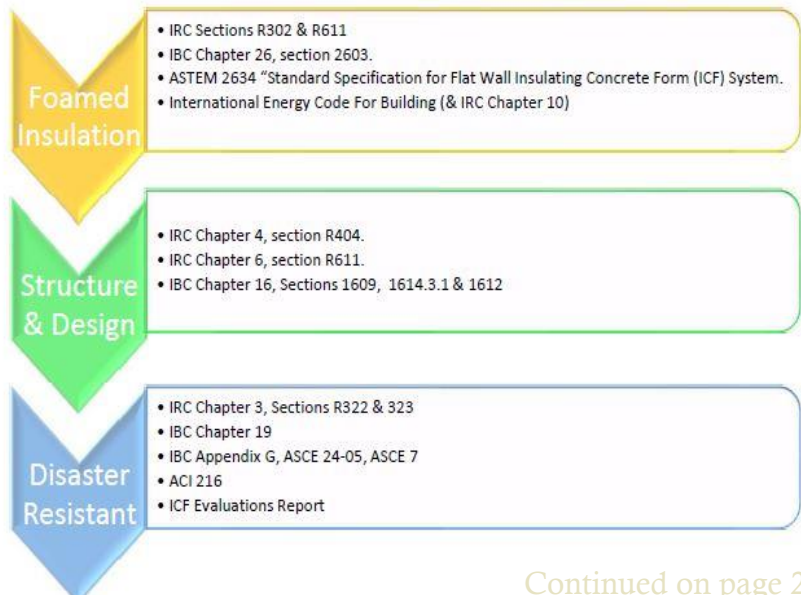


COZY INDOOR TEMPERATURE
Savings in HVAC.

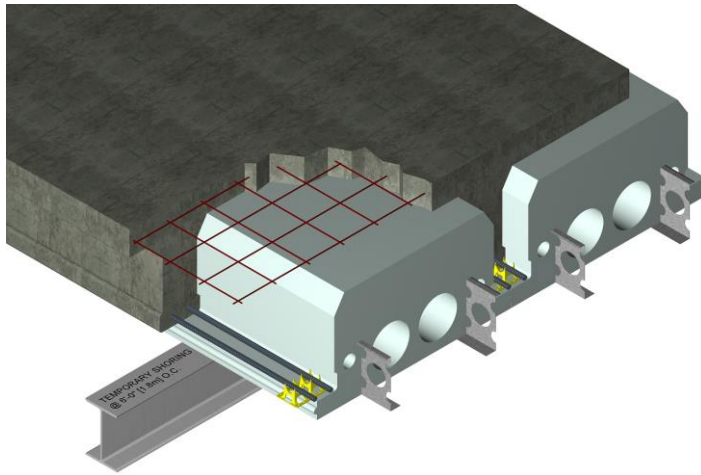
Designed to resist mother nature's harshest weather conditions

Insulated Concrete Form (ICF) is quickly becoming a fundamental building Technique for multi-family residential, hotels, warehouses, schools, government and commercial buildings due to its strength, energy efficiency and fast to build. Contact us to find out what makes it the best choice for your next building project.

AMERICAN SPECS & CODES REFERENCES



Continued on page 2



ICF for Floors, Roofs and Tilt-up: Quad-Deck

Quad-Deck uses patented technology to create an energy efficient and quality insulating concrete floor or roof system. Ideal for use in both commercial and residential construction.

The advantages that Quad-Decks offers to General Contractors & Architects are:

1. **Construction is fast & safer**, no form to be stripped, delivered to site ready to install, easily integrates with Quad-Lock ICF Wall system.
2. **Lightweight** implies on reducing structural requirements for lower building elements.
3. **Reduce costs**, less labor, less concrete, no site waste.

Quad-Deck vs. Traditional Slab

- 33% Saving in steel consumption.
- 50% Saving in Concrete usage.
- 50% Less shoring.
- Cut total slab weight by 50%, therefore, reduce structural requirement for foundations and IFC Walls.

The Advantage for Owner:

1. **Quiet, Healthy, Safe & Comfortable:** more consistent indoor temperature, high STC, doesn't support the growth of mold or mildew, Rated Fire Resistance, no food source for insects, superior protection against disaster.
2. **Durable & Sustainable:** High R-Values, reduce HVAC requirements, thermal mass properties, lower life cycle costs, long-term building durability.



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Avila Engineering & Construction LLC (AE&C) is a private company certified to sell and install Quad-Lock products in South Florida. Quad-Lock is a Canadian ICF manufacturer. The newsletter articles are compiled by AE&C with the objective to inform and educate about ICF construction system, other energy efficient & cost-effective construction solutions and to provide updates about the company performance.