



"Building Homes Safe and Sound"

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## **THE PRODUCT**

We offer one of the most advanced construction system available today and the complete Factory to produce it. It is a system, which is proven, flexible, rapid, and highly cost effective. It is also environmentally friendly, energy efficient, hurricane- and earthquake resistant, water-proof, fire resistant, is not effected by rodents, termites or other insects, does not permit the growth of fungus, and does not corrode.

The **Pride Homes ICF** system uses high-density expanded polystyrene (EPS) Form-Work elements, which are filled with concrete to create monolithic structures. These elements are produced in a fully integrated production plant. The company also owns both the designs and the system rights of the elements themselves.

### **An Introduction to **Pride Homes ICF**®**

Traditional methods of concrete construction use various types of form works to construct walls and ceilings. Concrete is poured into the form works. After the concrete has cured, the forms have to be removed, and the builder must then apply to both surfaces of wall's a finish, such as insulation material, acoustic material, mineral or acrylic plaster for water protection, etc.

In the **Pride Homes ICF** construction system, the form work elements of expanded polystyrene (EPS), used to construct the walls and ceilings, remain in place and provide the actual insulation for the structure. It is also known as Insulated Concrete Form system or ICF. In addition to excellent thermal properties, the insulation protects also

against sound, corrosion, water, humidity, fire, fungus, and termites. As important, the design and properties of the **Pride Homes ICF**® elements will drastically reduce the time needed to erect the structural form work and cure the concrete, without the use of special additives. The EPS form-works can receive re-bar reinforcements (vertically and horizontally) to withstand strong hurricanes and earthquakes. Once the **Pride Homes ICF** insulation elements are in place, they are filled with concrete to form a solid monolithic wall structure...

**... Rapid, economic, flexible, and highly effective.**

## **Background of the **Pride Homes ICF**®**

In 1966 a novel construction system which became known as Insulated Concrete Form System (ICFS) was developed in Europe. Not been used for many years after, it became today one of the most technologically advanced construction system available in the world.

Field experiences have demonstrated that in comparison with many other conventional construction systems, it is able to increase construction capacity by up to 10 times, minimizing the use of skilled labor and reducing the cost of construction to a fraction of the actual cost of conventional construction systems.

We offer a fully integrated Modular Production Factory that manufactures a complete construction system, consisting of elements (walls, ceilings, roofs, floors), which is very simple yet sophisticated, which exceeds by far cost and speed expectations of construction companies and end users. The system has been fully tested and proven.

As an example of the time savings, the system has been used to construct a fully finished **1076** square foot house in

less than **one week**, utilizing primarily unskilled laborers, whereas it would take skilled workers up to three months to build the same house using traditional methods. As the magnitude of the structures being built increases, such as in the case of warehouses, hotels, schools and apartment buildings, the benefits of the **Pride Homes ICF<sup>®</sup>** system become even more substantial.

## **The Advantages of the **Pride Homes ICF<sup>®</sup>** Construction System**

### **1. Construction with **Pride Homes ICF<sup>®</sup>** is up to 70% quicker than with other construction systems:**

- Lightweight EPS form works assemble quickly
- Use of sophisticated just in time labor/material logistics program allows constructors to plan easier and save cost.
- Concrete cures overnight, without expensive additives.
- Re bar reinforcements, piping, and electrical wiring can be easily installed before the concrete is poured.
- EPS form works stay in place, unlike other systems, which require additional cost and labor for the form-work removal.
- EPS elements are the insulation; therefore, no additional time is necessary for further application of insulation panels
- Window and door-frames and anchors are set in place before the concrete is poured, allowing for rapid installation of the frames.
- Pouring of Concrete in 1.20m (4 blocks) increments will eliminate any bracing, this adds to speed and reduces cost.

### **2. Construction with **Pride Homes ICF<sup>®</sup>** is, up to 46% less expensive than with other conventional construction systems:**

- Utilizes primarily unskilled labor in completing the structure

- Reduced construction time drastically reduces interest on construction loans.
- Minimal damage and waste (1-3%) increases construction efficiency and reduces cost.
- Lightweight EPS elements require little use of heavy on-site equipment (Cranes or other Lifting machinery).
- Ease of finishing reduces usage of expensive skilled labor.

### 3. **Pride Homes ICF<sup>®</sup> construction delivers High Quality:**

- Solid monolithic reinforced concrete wall-ceiling-roof structure withstands strong hurricanes and earthquakes. High-density EPS elements do not corrode and prevent aging. Therefore high value of a house is maintained for long time.
- Insulating qualities of **Pride Homes ICF<sup>®</sup>** maintain a comfortable internal ambience without air conditioning in tropical climates, and vastly decreases the heating required in cold climates.
- EPS elements are non-flammable and, if melting, they produce non-toxic fumes, Insurance Ratings are decreased.
- Does not harbor a breeding ground for fungi and bacteria
- EPS is biologically neutral and therefore does not attract termites.
- The **Pride Homes ICF<sup>®</sup>** wall system dampens sound substantially.
- The **Pride Homes ICF<sup>®</sup>** system permits complete freedom and flexibility in architectural design.
- The **Pride Homes ICF<sup>®</sup>** system can be utilized for all types of construction: industrial, commercial, and residential. Walls are perfectly straight and leveled.
- The **Pride Homes ICF<sup>®</sup>** system allows easy and rapid spray application of plaster / stucco in a one step operation, due to a special surface design for all interior and exterior walls.

- In the U.S.A. ICF systems meet or exceed the following codes or standards: ASTM C-578, BOCA, IBCO, UL and IBC.
- With the use of a heat knife or router, the placement of plumbing and electrical conduit is simple and fast.

## **Environmental Advantages of **Pride** Homes ICF<sup>®</sup>**

- Thermograph testing indicates R-36 for vertical walls.
  - Thermal conductivity .24Watts/m<sup>2</sup>K (DIN 4108)
  - Energy savings of >50% for both heating and air conditioning.
  - No **HCFC's** , **HFC's** and **CFC's** are used in the production of EPS **Pride Homes ICF<sup>®</sup>** elements.
  - Fire-proof structural system according to DIN 4102 & 53438
  - No toxic fumes or irritating odors, Self extinguishing material.
  - Reduction of interior noise pollution = 40dB
  - **Pride Homes ICF<sup>®</sup>** elements are biologically neutral and offer no nutritional value to insects.
  - There is no damage to the upper ozone layer of our earth.
  - **Pride Homes ICF<sup>®</sup>** elements are 100% recyclable.
  - **Pride Homes ICF<sup>®</sup>** elements are non-toxic and are friendly to humans and the environment.
  - **Pride Homes ICF<sup>®</sup>** Conserves natural resources by minimizing the use of natural building materials such as prime wood.
  - Energy savings will reduce atmospheric pollution and therefore the "Green House" effect.
  - Moisture-Resistant - No more musty odors due to moisture
- ICF or EPS building systems are an official Ally to EPA's Energy Star<sup>®</sup> Homes Program

# **The Pride Homes ICF<sup>®</sup> SYSTEM is Flexible**

The **Pride Homes ICF<sup>®</sup>** System has no limitations of whatsoever nature where finish and quality of work is concerned. It adapts to any architectural needs and allows for total freedom of design.

All finishing materials commonly used in traditional construction systems can similarly be used with the **Pride Homes ICF<sup>®</sup>** system.

The **Pride Homes ICF<sup>®</sup>** elements can be used for a wide range of applications:

- Single-family homes
- Townhouses
- Multi-story apartment buildings (up to five floors)
- Commercial buildings, warehouses, and cold storage
- Hospitals, Schools, and Jails
- Retaining walls and Flood barriers
- Hotels

**For more information please contact Pride Homes, LLC at 877-892-1275.**