Insulated Concrete Formwork (ICF)

Building For The Future
Insulated Concrete Formwork (ICF)

Economic Low Energy Buildings

On a Larger Scale
ICF - Modern and Vernacular
Benefits of ICF Construction:

- Strength of construction
- Highest levels of energy performance
- Increasingly cost effective
- Long life expectancy
- Materials can be recycled into new buildings
Individual Homes
What is Insulated Concrete Formwork?

ICF - the Materials

- Expanded polystyrene (alternatives: xps, woodwool/shreddings, PUR)
  - using oil to save energy, not for energy
  - and air, to provide the insulation

- Concrete
  - cleaner manufacturing process
  - cement replacements
  - alternative and recycled aggregates

- Steel reinforcement
  - all from recycled scrap
Social Housing Projects
ICF - Benefits to Client and Community

- Building Performance
- Local materials, local manufacture
- Local employment
- Long durability
- Reduced energy demand, lower bills
- Materials recycling into the next generation of buildings
Lincoln Edge – A development of 18 Passivhaus standard dwellings.
Insulated Concrete Formwork

BUILT-IN PERFORMANCE: -

- Structure
- Thermal insulation
- Air tightness and flood resistance
- No cold bridging
- Fire performance
- Acoustic performance
- Co-ordination with other components and services
- Long life expectancy
- Materials may be re-cycled into new building materials
ICF Housing Projects
ICF - The FUTURE:

- Broader Acceptance in the Construction Industry
- Recognition of ICF Performance – on site, in service
- Most Cost Effective on Larger Scale Projects
- Education and Training
Insulated Concrete Formwork

ICF - Building For The Future

Low Energy Housing
- On a Larger, Local Scale

Thank you

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