

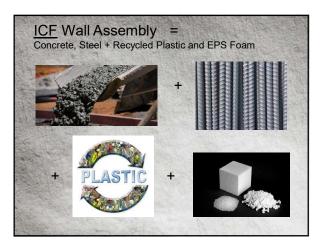
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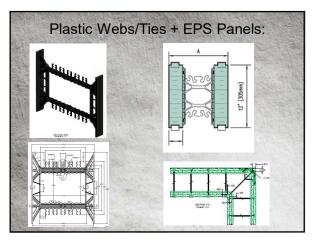
Presentation Objectives

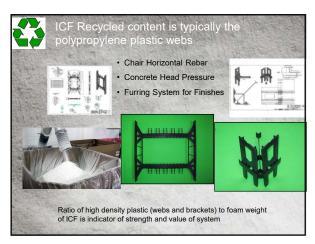


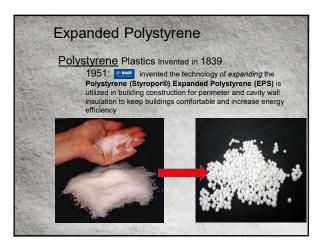
- 1. The characteristics of Insulating Concrete Forms
- 2. The benefits of ICF's from a standpoint of sustainability, energy efficiency, sound, fire, etc.
- 3. Design and specification consideration when using
- 4. The construction process when using ICF's
- Project examples How ICF's are used in educational, housing, municipal and retail/commercial markets

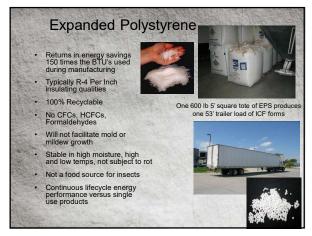


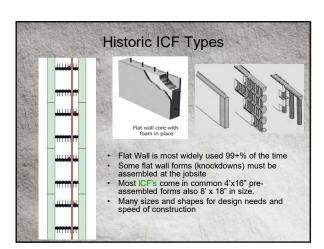


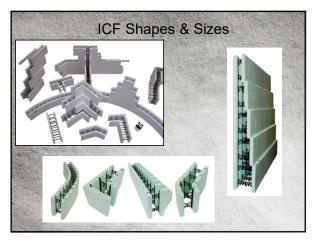


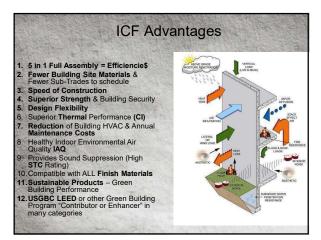


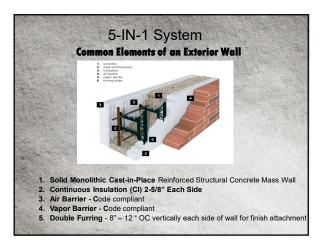
















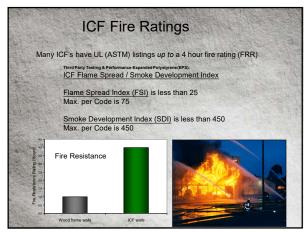


ICF Safety & Security = Insurance Saving

- · Superior Fire Rating
 - 2 to 4 Hour UL fire rated walls
 - Lower flame spread index than wood
 - Lower Toxicity when compared to other construction materials
- Structural Strength
 - Structural concrete engineered for use in areas with high seismic conditions
 - Ballistic Resistance DoD & Municipal
 - Hurricane & Tornado Resistant Wind Loads

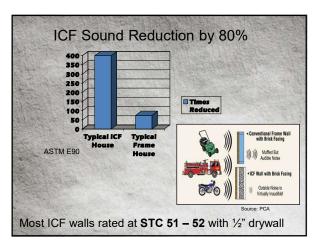
 - Design strength to easily exceed wind loads required by local codes
 Design strength to easily exceed seismic loads required by local codes

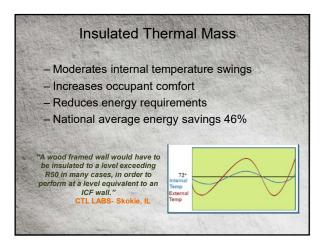
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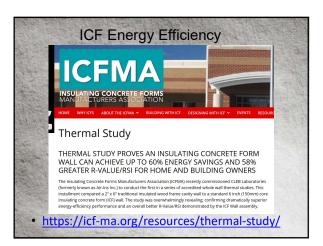
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Utilize ASHRAE* Energy Efficient Design Calculations ICF Structures exhibit 75% Reduction in air infillration or an average air leakage or infilltration rate of 0.05 (average air changes/hour) Many Form Unit R-Values = R24 First Cost Reductions due to RIGHT sizing of HVAC system based upon assembly Annualized Utility Cost Reductions Peak Hour energy use reductions Meeting the Commercial Continuous Air Barrier Requirements for ASHRAE 90.1-2010 and the 2012 ICC IECC- Code Notes [2012 IECC, ASHRAE 90.1-2010] ASHRAEIS EXCON (2012 IECC) require that the building provisions of the 2012 International Energy Conservation Code (2012 IECC) require that the building seving the college is it intoduces lock a rist the building shring the cooling months. Uncondicted at lessage in the and cof the building value give increase leaves used in the building st it intoduces lock a rist the building shring the cooling months and cold at into the building st it intoduces lock a rist the building shring the colling system to bring the level of heartify the acceptable lovels.



ICF Interior Air Quality (IAQ)

- Controlling indoor air reduces reactions to respiratory allergies, asthma, and other related health concerns.
- ICF's contain no CFC's HCFC's Formaldehydes or off-gassing
- · Air handling and filtration components more efficient
- Dust and blown particulates minimized due to low air infiltration
- No Mold or Mildew
- American Lung Association Clean House designate
- · Insulation and webbing material completely inert
- · Higher IAQ result

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