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Green Building And LEED™ Fact Sheet

Description:

Green building means design and construction practices that significantly reduce or eliminate the negative impact of buildings on the environment and building occupants. Green buildings provide healthy environments for occupants, promote employee productivity, use energy and water efficiently and minimize the impact to the environment.

LEED™ (*Leadership in Energy & Environmental Design*) is a point system or standard of measurement to determine how "green" a building is. All components of the building are evaluated to determine the LEED points. The whole-building approach encourages an integrated design and construction process to achieve the highest level of sustainability, energy efficiency and resource economy possible.

Benefits of Green Building

Environment: Reduce the impact of natural resource consumption

Health and Safety: Enhance occupant comfort and health

Community: Minimize strain on local infrastructures and improve quality of life

Economic:

- Competitive first costs
- Reduced operating costs
- Increased building valuation
- Decreased vacancies; improved retention
- Optimized life-cycle economic performance
- Improved productivity
- Reduced absenteeism and turnover—providing a healthy workplace improves employee satisfaction
- Reduced liability
- Increased retail sales with daylighting

Four Levels of LEED

Certification—69 Possible Points

LEED Certified	26-32 points
Silver Level	33-38 points
Gold Level	39-51 points
Platinum Level	52+ points

Energy Efficiency:

- Actual R-value of concrete & iForm: 22
- Effective R-value of concrete, iForm, air infiltration, and thermal mass: 32+
- Air changes per hour -- .04 - .09
- Saves 50-80% on heating and cooling costs

Environmental Friendliness:

- No HCFC's or CFC's emitted during manufacturing process
- No off-gassing, fumes, odors, toxins or formaldehyde
- Plastic tie inserts are made from 100% recycled material
- Forms are 100% recyclable—no waste to the environment
- EPA Energy Star® Partner
- Sound Transmission Class range from 41 to 65

Safety:

Fire Safety—

Omega Point Laboratory Tests (ASTM E84/ASTM E119)

- Toxicity – 24 / Flame Spread – Less than 25 / Smoke Development – Less than 450
- Self-extinguishing
- Fire ratings: 9" = 1 & 2 hrs.; 11" = 3 hrs.; 13" & 15" = 4 hrs.

Storm Safety—

- Withstands winds up to 200 mph Performs well in seismic zones
- Preferred product for safe rooms, basements and storm shelters

Evaluations & Associations

ICC ES Legacy Report	NER-604
<i>Note: The NES Report documents compliance to the UBC, SBC, NBC, IBC, IRC and the International One & Two Family Dwelling Code</i>	
Wisconsin	200246-I
Miami-Dade County	03.1112.05
City of NY	MEA 116-03-M
Florida Product Approval	FL1743
City of LA	RR25418
AIA/CES	Registered Provider #J143
CCMC	13107-R
ASTM	E119 & E84

LEED Categories and Reward ICFs

1. **Sustainable Site** – No contribution

2. **Water Efficiency** – No contribution

3. **Energy and Atmosphere**

- Prerequisite energy performance standards
- Optimized energy performance: Up to 10 points. iForm provides superior air tightness, insulating value and thermal massing.

4. **Materials and Resources**

- Construction waste management: Up to 2 points. iForm reduces waste on site and is 100% recyclable—no waste to the environment.

- Recycled contents: Up to 2 points. iForm contains approximately 20% post-industrial recycled content.

- Regional materials: Up to 2 points. iForm is manufactured regionally in the U.S. and Canada.

5. **Indoor Environmental Quality**

- Thermal comfort: 1 point. Tight construction reduces air infiltration; thermal mass insulates against surface temperature swings of walls, floors and ceilings; proper materials prevent accidental humidification and condensation within the building.

LEED and Reward ICFs: Reward's iForm™ does not provide any points for LEED certification on its own.

