



Specifications for the iFortress

The finished structure will be a fully rated, self contained, air and water tight, energy efficient, re-usable, "Green" facility/assembly that tested as an assembly complies with:



- Structural - IBC 2006 Exterior Building Code
- Roof Load – minimum 40 Lb/Ft²
- Wind Load – minimum 2 hour 75 mph sustained force
- Bending Stresses – minimum 13,000 lbs psi
- Siesmic – Site Class D
- Sound Transfer Classification – minimum STC 30

Fire/Thermal

- Walls, Ceiling, Doors, Penetrations – Fully Rated Assembly against ASTM E119 - minimum 90 minutes
- Door NFPA 252 90 minute rating
- R value – Assembly – minimum r 22

Hydro-dynamics/Permeability

- Airtight – NFPA 2001: Time (Size Dependent), Annually recertified
- Encapsulation – ASTM E 1795-97 *
- Mildew Resistant – ASTM D3273/3274 *
- Permeability – ASTM D 1653 *
- Weathering – ASTM G53/B 117 – Federal TT-C-555B *
- Humidity – ASTM D 4585 *
- ASTM E119 – Hose Stream Test

Environmental

- "Green" – manufactured with recycled and recyclable materials, can be disassembled and relocated, re-used
- Insulated – energy efficient
- LEED component contributor – innovation point, Green, reduce operating cost, non-invasive field assembly (i.e. dust free assembly)

Warranty

- Conditional Lifetime, Subject to annual recertification by a Factory Authorized Agent

Interior Walls/Ceiling

- Finish: High reflectance white – minimum 85% reflectance quality
- Reduction in light emanating sources/equipment/power consumption