iFortress

Engineered, Delivered and Deployed Quickly

Engineered as a finished, rack or server ready iTX, individual sections or 'Decks" are pre-configured at our off-site facility, then shipped and assembled onsite. The result is a cost effective, turnkey iTX tailored to meet project specifications and operational in a fraction of the time.

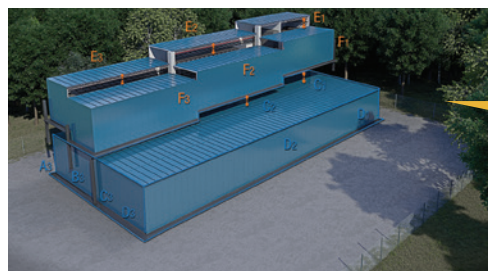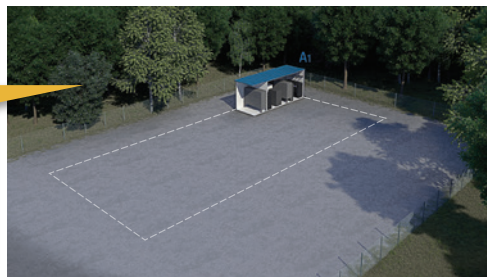Pre-configured at our plant in South Carolina

Decks are shipped to your approved site and assembled

The First of Its Kind, Mission Critical, Turnkey Solution

Delivered as a series of sequential decks and assembled onsite, the iFortress iShelter iTX is iFortress' iTX system with infinite configuration options. This flexibility is an inherent benefit; future reconfiguration is simplified and non-disruptive. iFortress' iTX provides unlimited scalability, an elastic architecture that is the first of its kind to meet International Building Code (IBC) and Life Safety (NFPA/ASTM International) standards for exterior structures.

Decks arrive numbered and according to pre-determined configuration

Future expansion is made easy and non-disruptive

Infinite Configurations

The possibilities for location and size are virtually endless, and specifying configurations is easy.

Phase I Build	Phase II Build	Phase III Build

Unsurpassed Standards of the MCF Series iFortress™

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

Structural - IBC Exterior Building Code
i.   Roof Load– minimum 40 Lb/Ft²
ii. Wind Load – minimum 2 hour 75 mph sustained force
iii. Bending Stresses – minimum 13,000 lbs psi
iv. Seismic – Site Class D
v.   Blast - minimum 11.5 psi/102 ms
vi. Sound Transfer Classification – minimum STC 30

Fire/Thermal
i.   Walls, Ceiling, Doors, Penetrations – Fully Rated Assembly against ASTM E119 - minimum 90 minutes
ii. Door NFPA 252 90 minute rating
iii. R value – Assembly – minimum r 22

Hydrodynamics/Permeability
i.   Airtight – NFPA 2001: Time (Size Dependent)
     a.   Annually recertified
ii. Encapsulation – ASTM E 1795-97 *
iii. Mildew Resistant – ASTM D3273/3274 *

iv. Permeability – ASTM D 1653 *
v.   Weathering – ASTM G53/B 117 – Federal TT-C-555B *
vi. Humidity – ASTM D 4585 *
vii. ASTM E119 – Hose Stream Test

Environmental
i.   "Green"– Recyclable materials and 100% recycled steel can be dissembled and relocated, re-used
ii. Insulated – energy efficient
iii. LEED component contributor – innovation points, reduce operating cost, non-invasive field assembly (i.e. dust free assembly)

Warranty
i.   Conditional Lifetime
a.   Subject to annual recertified by Factory Authorized Agent

2. Interior Walls/Ceiling:
i.   Finish
     a. High reflectance white – minimum 85% reflectance quality
     b. Reduction in light emanating sources/equipment/power consumption