

# Greenix<sup>®</sup>

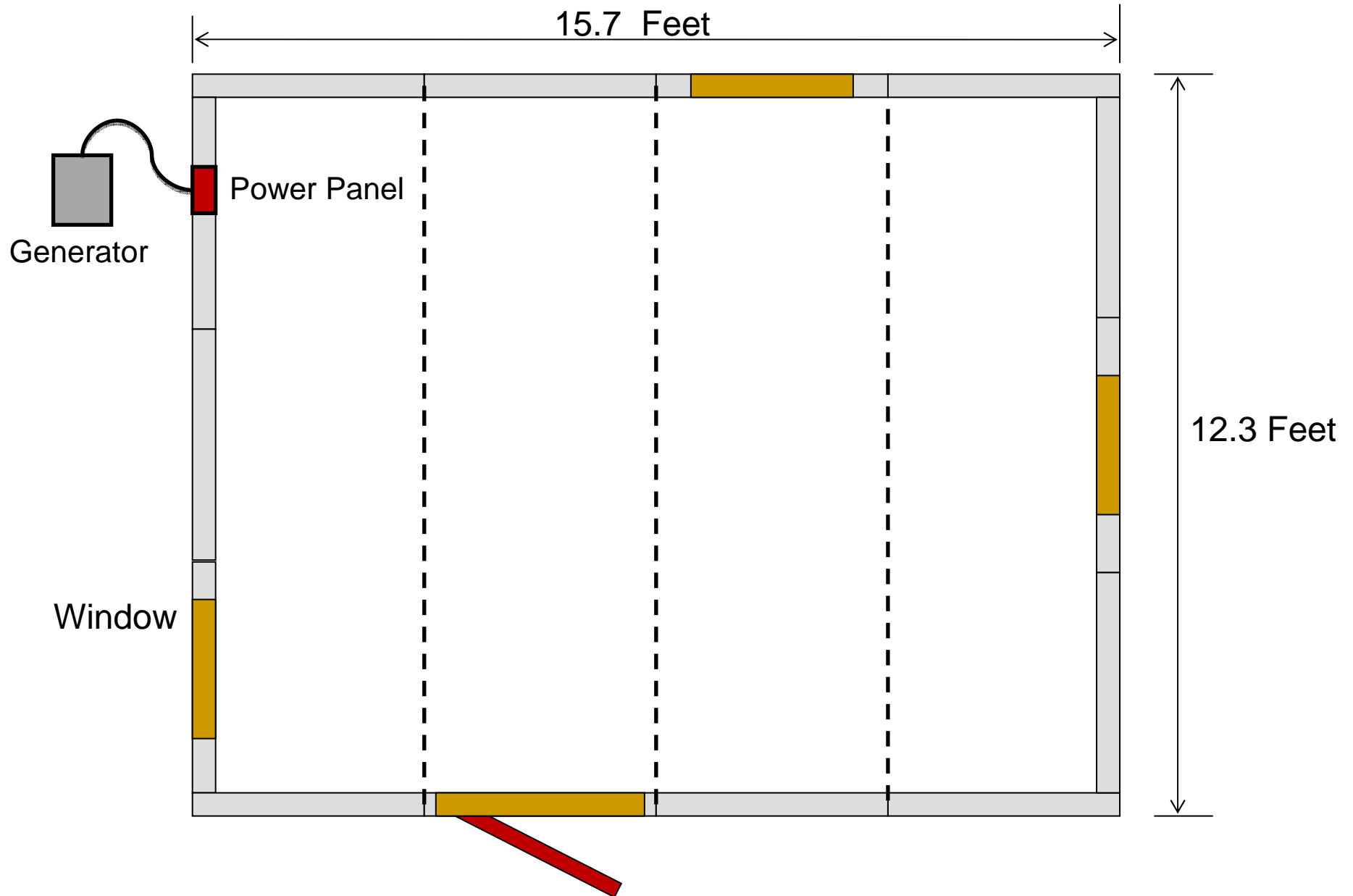
## 4w Emergency Shelters



**SIP Supply, LLC**

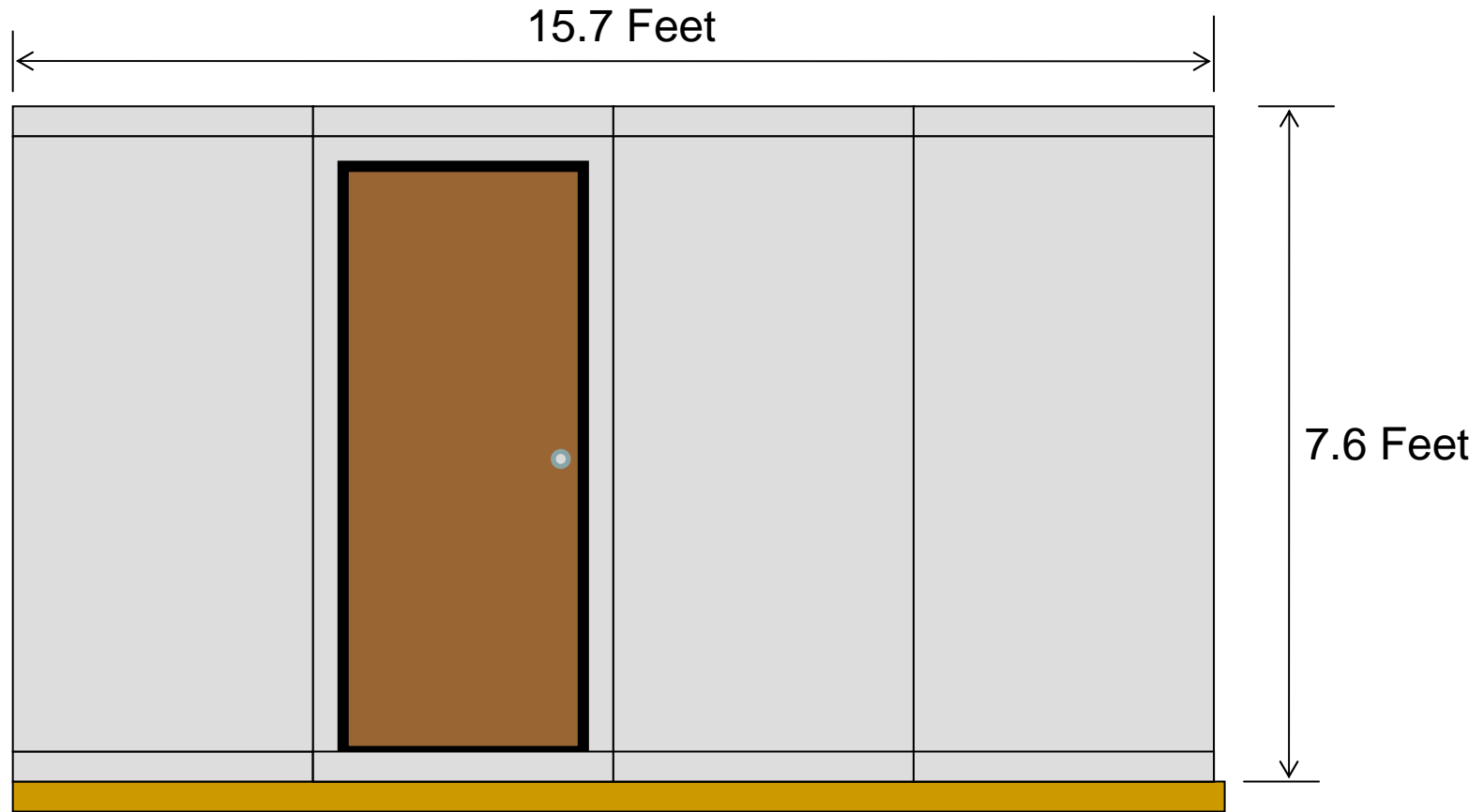
# Greenix 4w Emergency Shelter

Single Unit - Plan View



# Greenix 4w Emergency Shelter

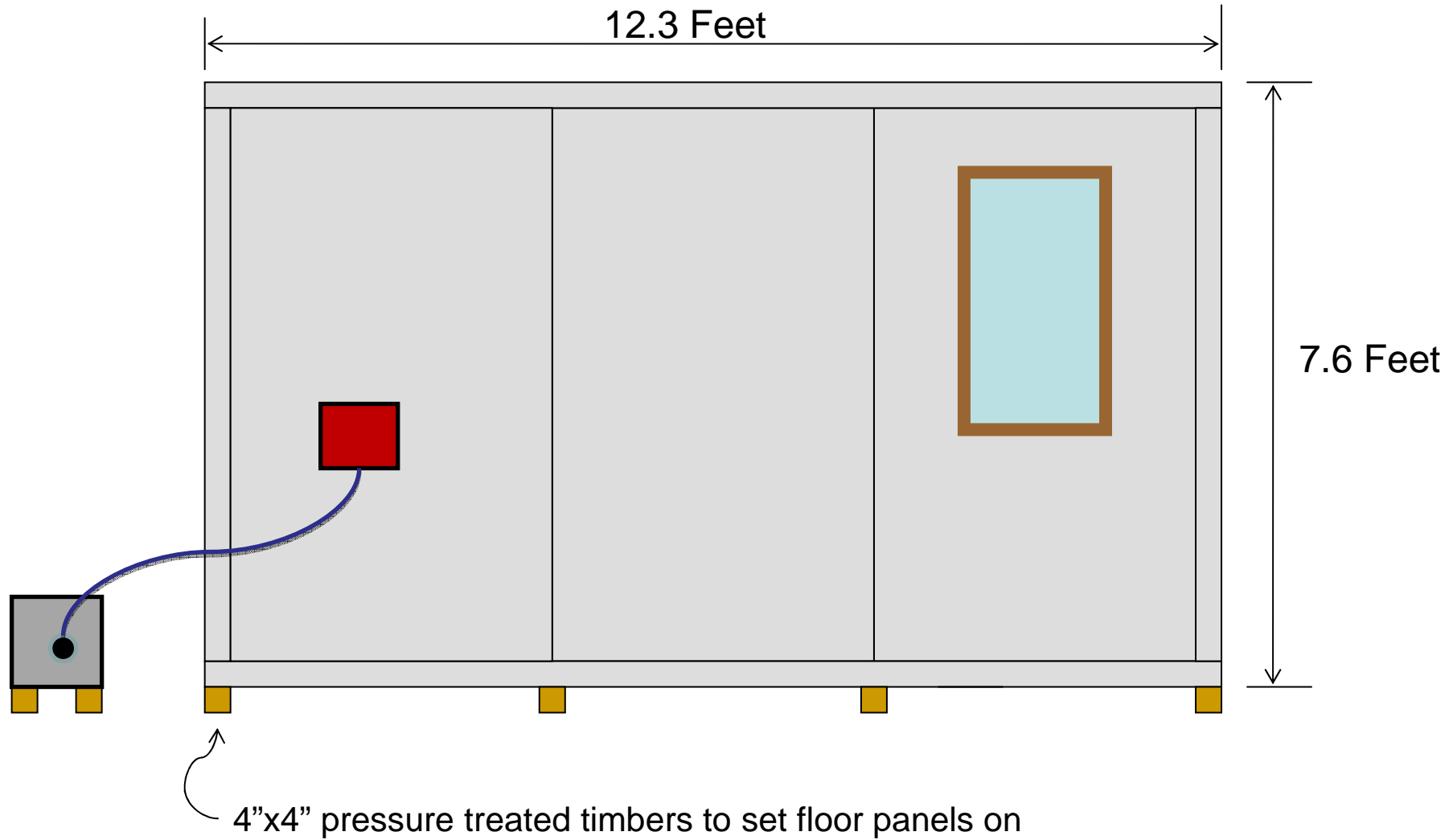
Single Unit (12' x 16') - Elevation Front View



4"x4" pressure treated timbers to set floor panels on (4 pieces)

# Greenix 4w Emergency Shelter

Single Unit (12' x 16') - Elevation Side View



# Greenix Emergency Shelter

## Various Shelter Projects



# Greenix 4w Emergency Shelter

## Single Unit (12' x 16') - Panel Specification

- Panel Quantity and Size for 12' x 16' Unit:
  - 9 solid wall panels – 47" wide x 7' tall (8' option)
  - 3 window panels – 47" wide x 7' tall (window size is variable)
  - 1 door panel – 47" wide x 7' tall (door size is variable)
  - 1 wall power panel – 47" wide x 7' tall
  - 4 floor panels – 47" wide x 12.3' long
  - 4 roof panels – 47" wide x 12.3' long
  - Roof and wall panels are 3.5" thick; floor panels are 4.0" thick
- Panel Material:
  - Surface material: 26 gauge embossed, galvanized, and painted sheet-metal on both sides
  - High density foam or wood frame around the perimeter of each panel
  - Class 1 polyurethane foam insulation pressure-injected into each panel
  - Floor panels have ½" exterior plywood directly beneath the upper metal surface
  - Panels are locked together with high strength Cam-Lock connectors
- **All Panel Materials are Fire Proof or Fire Resistant!**

# Greenix 4w Emergency Shelter

## Optional GP/B Blast Panel Upgrade

**Superior Strength - Fire Resistant - Blast Resistant - Wind Resistant**



Greenix Panel survives 4lb detonation of the military explosive C4 while being tested for the new Quantico, Virginia modular training houses - 2009

# Greenix 4w Emergency Shelter

## Single Unit - Panel Specification (continued)

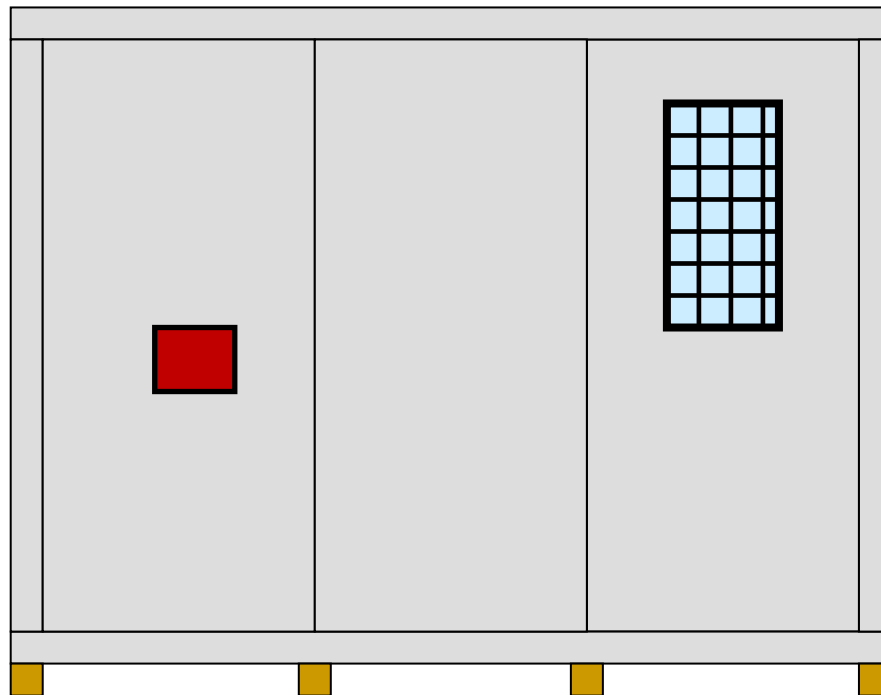
- Panel Insulation
  - 3.5 inches of polyurethane foam provides an insulation value of R-24
  - Option: 5 inches of polyurethane foam provides an insulation value of R-35
- Panel Weight
  - 3.5" thick x 4' x 8' Panel with wood frame: 108 pounds
  - 3.5" thick x 4' x 12' Panel with wood frame: 156 pounds
  - 3.5" thick x 4' x 8' Panel with High Density foam frame: 90 pounds
  - 3.5" thick x 4' x 12' Panel with High Density foam frame: 132 pounds
- Electrical Power
  - One wall panel has an electrical "power panel" incorporated into the wall structure
  - This power panel has plug-in outlets for both 110 and 220 volt power
  - The final step in the installation process is to attach the "pig tail connector" to the external generator or incoming power line
- Heating and Cooling
  - Due to the high insulation value of the panelized structure, heating and/or cooling requirements are typically quite easy to achieve with small electrical heating and/or cooling units
  - In temperate climates, heating and/or cooling units are typically not necessary



# Greenix 4w Emergency Shelter

## Security

- Personal Security: Due to the real possibility of personal safety risks that might be present in a disaster environment, the shelters have security features that are available as options
  - Door security: Hollow metal door with tamper proof hinges and heavy duty door locks
  - Window security: Tamper proof metal security grate on the exterior side of the window opening



# Greenix 4w Emergency Shelter

## Single Unit - Installation

- Installation Tools (Included in Tool Kit with instruction diagrams)
  - Cam lock wrench (2)
  - 8' ladder
  - 6' level
  - Heavy duty hammer
  - Pry-bar
  - Small shovel (to level 4x4 wood floor supports)
  - 6" SIP Screws and Screwdriver
  - Leveling shims and blocks for floor supports
  - Caulk and caulk gun
  - Metal backed roof tape (to seal roof panel connection joints)
- Installation Time (with 3 people capable of lifting 150 pound panels)
  - Floor support beams: 30 – 45 minutes (depending on ground conditions)
  - Floor panels: 30 – 45 minutes
  - Walls: 1 hour
  - Roof: 1 hour (including caulking and roof tape)
  - Electrical: 20 minutes
- **Total installation time: Less than 4 hours with adequate supervision**

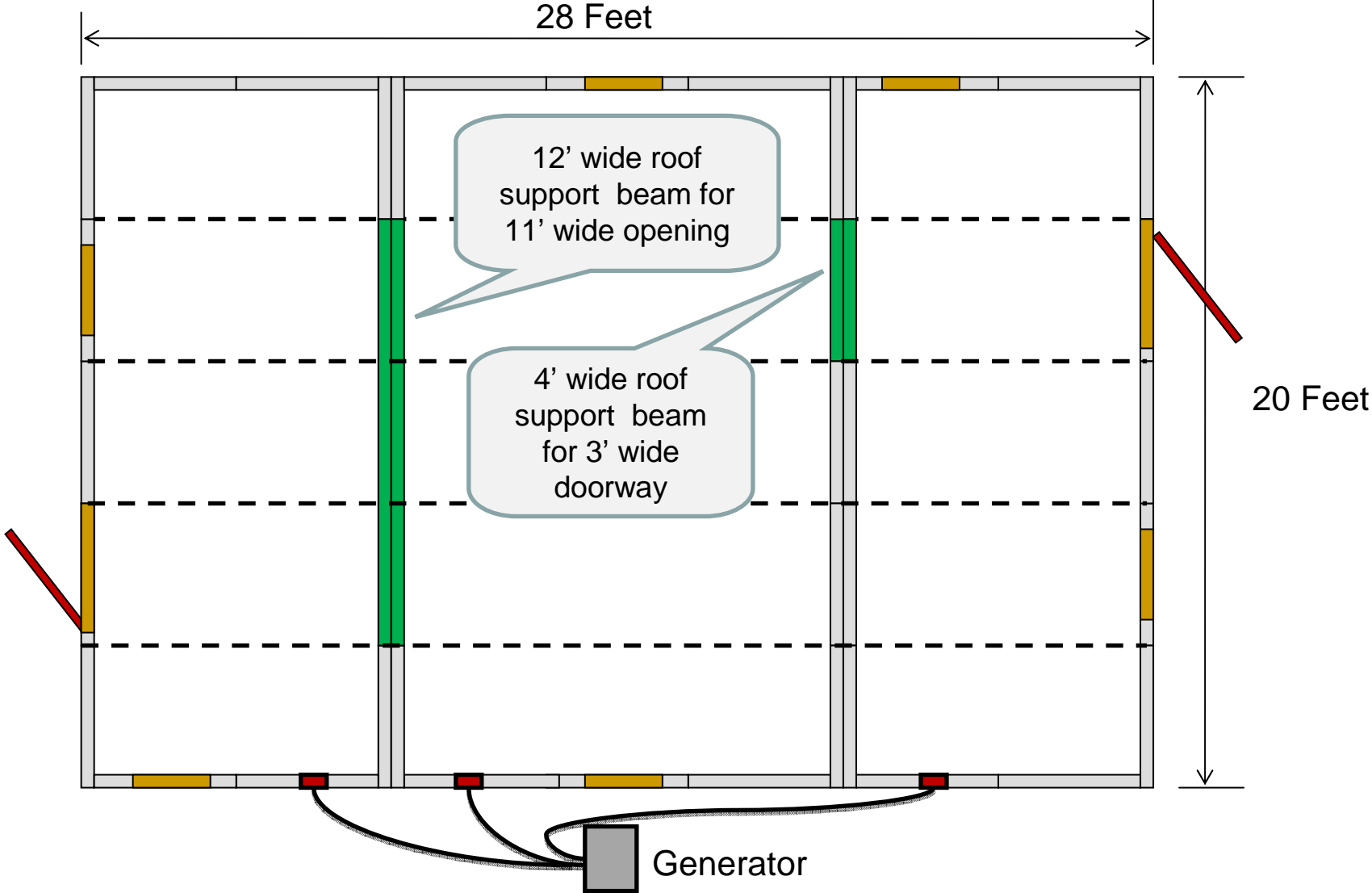
# Greenix 4w Emergency Shelter

## Expansion Options

- Due to the modularity of the design using 4' wide wall panels, structures can be assembled into various widths
  - 3 panel width = 12' wide building
  - 4 panel width = 16' wide building
  - 5 panel width = 20' wide building
  - 6 panel width = 24' wide building
  - 7 panel width = 28' wide building
- Due to the modularity of the design using either 8' or 12' long roof and floor panels, structures can be joined together to create larger structures with individual rooms
  - 16' Double Unit made with 2 single 8' units attached side by side
  - 24' Double Unit made with 2 single 12' units attached side by side
  - 28' Triple Unit made with 2 single 8' units and 1 single 12' unit attached side by side
  - A wide variety of combinations can be easily constructed
- Wall openings (“door ways”) between units can be 3', 7', or 11' wide
  - A roof support beam will allow the roof panels to be fully supported and locked together

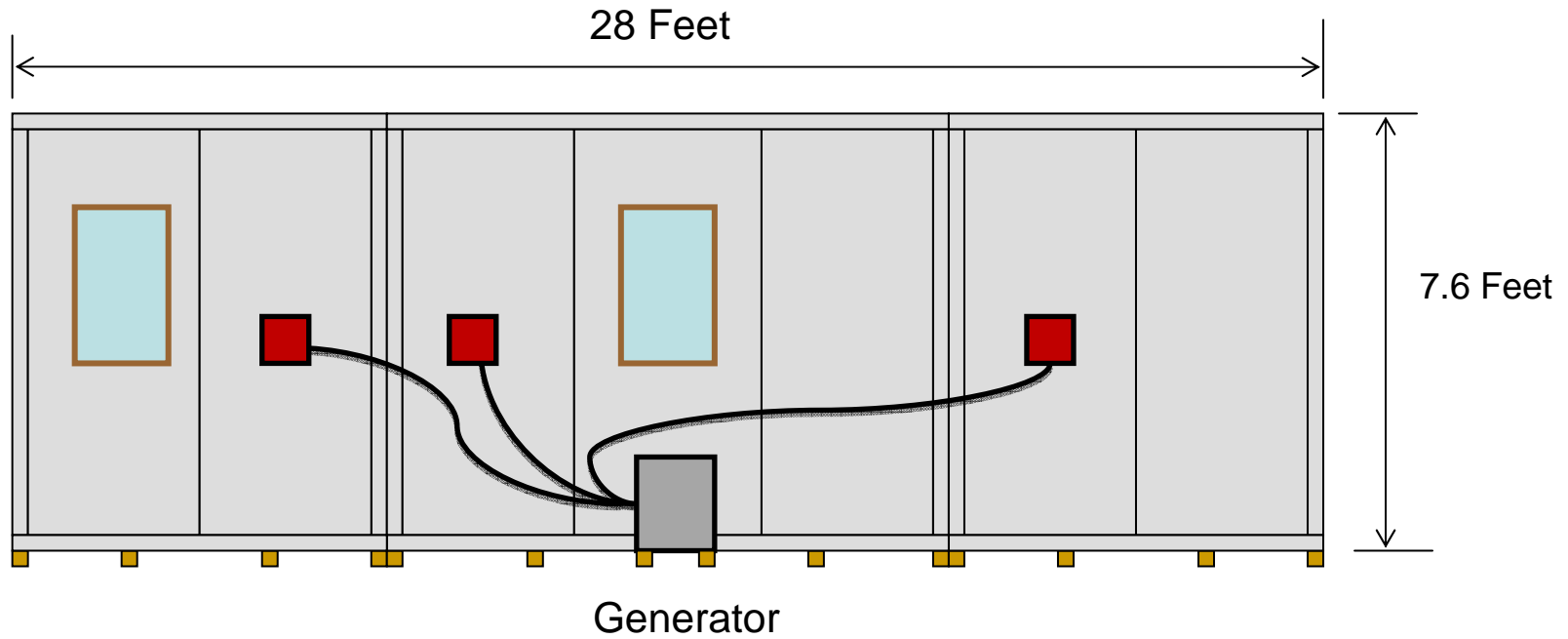
# Greenix 4w Emergency Shelter

Triple Unit made with 2 - 8' wide units and  
1 - 12' wide unit attached side by side



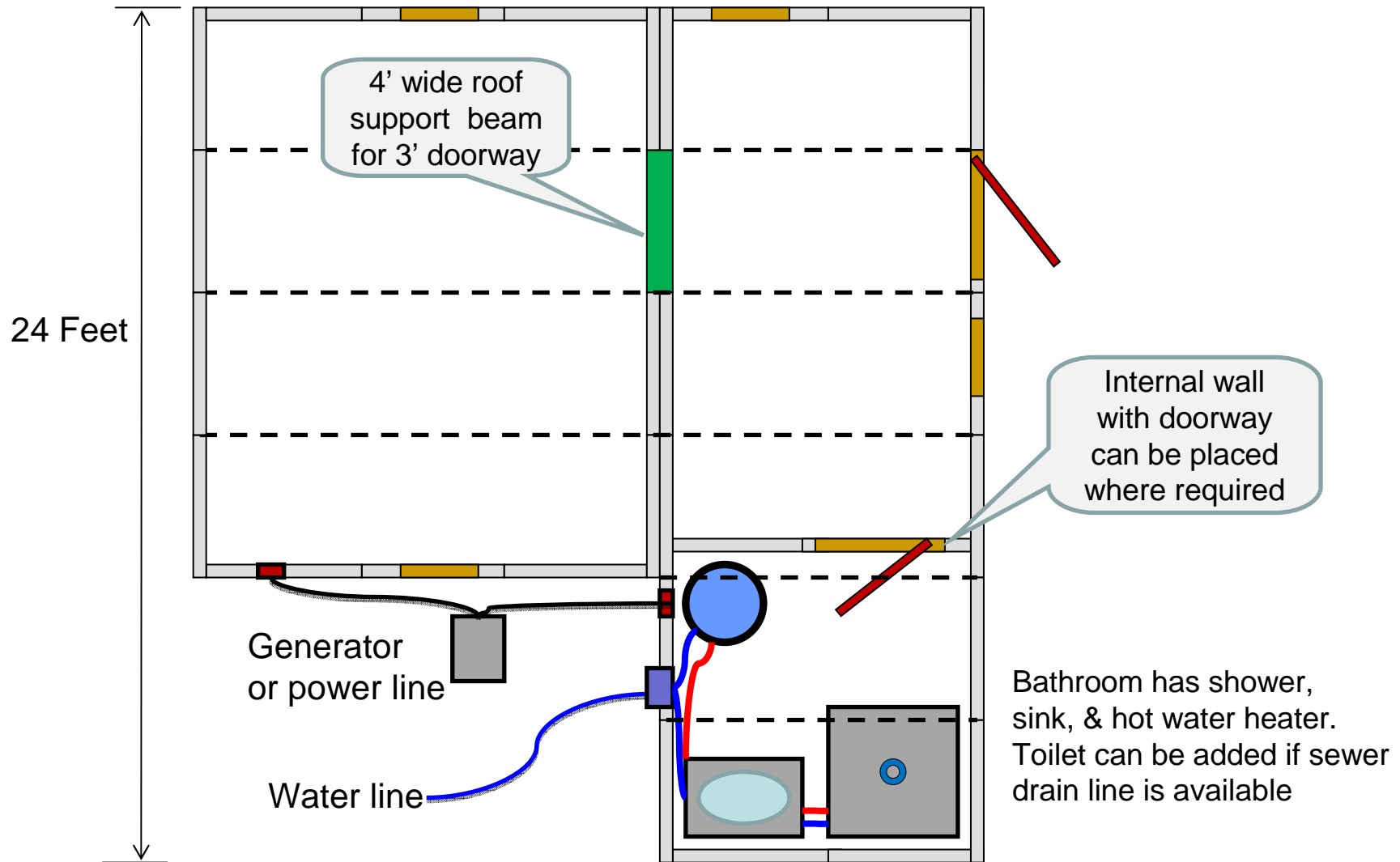
# Greenix 4w Emergency Shelter

Triple Unit - Side Elevation View



# Greenix 4w Emergency Shelter

Double Unit with Bath  
(made with 12' wide unit and 8' wide unit)





# **SIP Supply, LLC**

For more information:

Call 1-770-776-6198

Visit us at <http://CommercialSIPS.com>