

Gichner Shelter Systems Single Side Expandable ISO Shelter

Gichner Shelter Systems' Newest Expandable ISO Shelter is a 20-foot ISO-style shelter that provides for rapid deployment and expansion. The Expandable Shelter provides the added floor space needed for Command, Control and Communications systems needs. When expanded, the One-Side Expandable ISO Shelter (1:2) provides almost 25 square meters of operational floor space. When closed, the shelter meets the dimensional requirements of ISO 668 and ANSI MH5.4 allowing for transport using all common intermodal transport methods.

The expandable section nests inside the main 20-foot ISO section during transport. The floor panel of the expandable section is hinged longitudinally, allowing the

floor section to fold in half when the shelter is closed for transport. This feature allows for temporary or permanent mounting of heavy equipment to the floor of the main ISO section. The flush floor design allows easy relocation of equipment into the expandable section for operation.



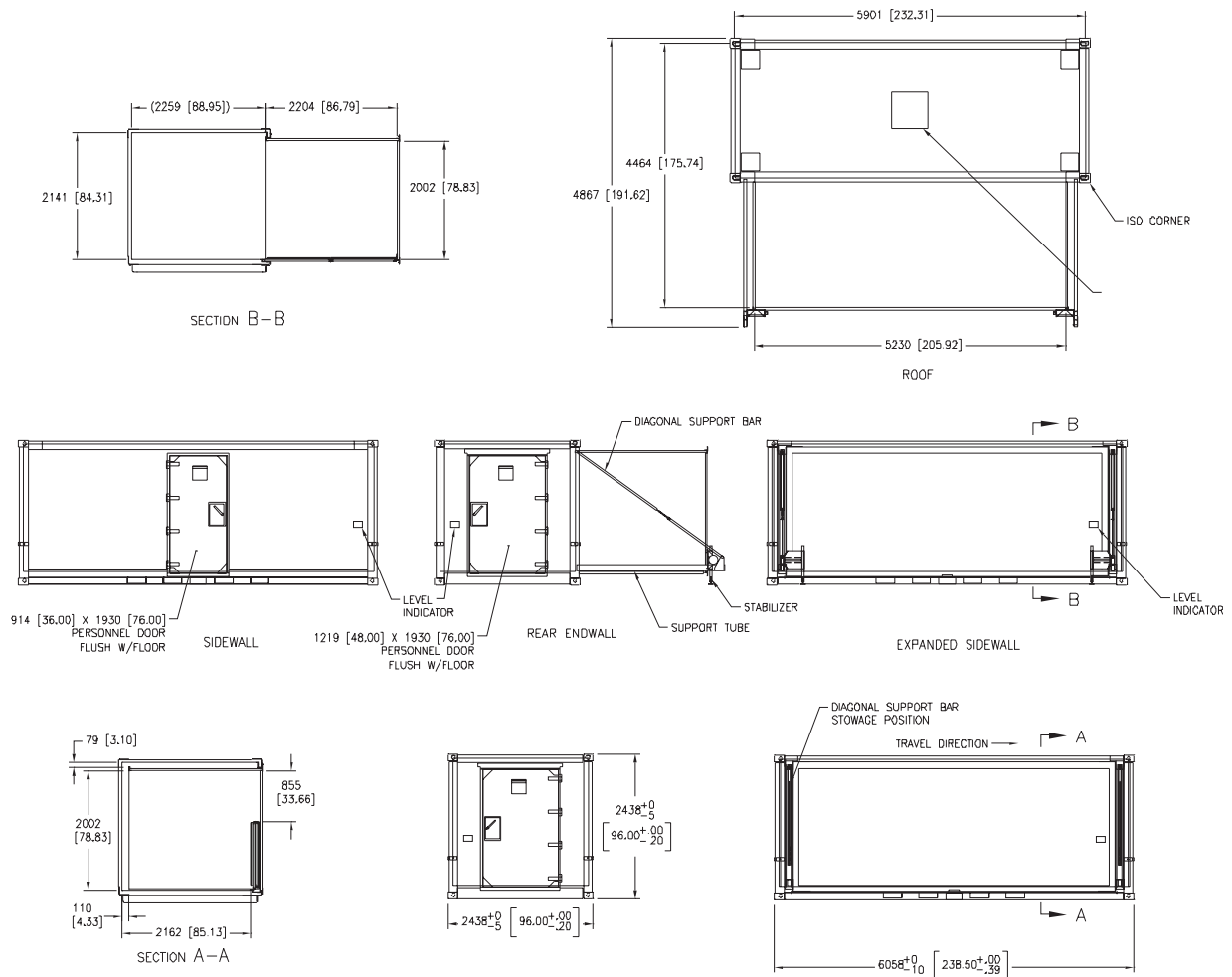
The unique folding floor design also allows for permanent mounting of equipment on the upper half of the walls of the expandable section, reducing the need to move that equipment after deployment. As an example, electronic equipment may be permanently mounted to the upper half of the expandable section's three walls, allowing for

permanent interconnection of this equipment. Lights, power distribution, and signal distribution can be permanently installed in both the main section and expandable section.

Due to the modular design approach, custom configurations including different length expandable sections can be manufactured to suit specific system needs. Interior partitions can be installed to create a separate externally accessible equipment room, if desired. The unique design of the shelter permits it to be easily modified to permit over pressurization for NBC protection for the enclosed system and personnel.

A Double Side Expandable (1:3) version is also available.

EXPANDABLE ISO SHELTER



OUTLINE DRAWING
7042151

Performance Specifications:

Weight: The Single-Side Expandable weighs 2364 Kg (5200 pounds)

Payload: 6727 Kg (14,800 pounds)

Floor Load Center Section: 522 Kg/m² uniform load over the entire floor (107 pounds/ft²)

Expandable Section: 910 Kg payload (2000 pounds)

Roof Load Center Section: 366 Kg/m² uniform load over the entire roof (75 pounds /ft²)

Expandable Section: 195 Kg/m² uniform load over the entire roof (40 pounds /ft²)

Temperature Extremes

Operational: -54°C to 52°C
(-65°F to 125°F)

Non-Operational: -62°C to 71°C
(-80°F to 160°F)

Wall Attachment Loading:

Center Section: M8 Rivnuts® installed in members withstand 910 Kg (2000 pounds) tensile loads.

Expandable Section: Potted Inserts installed anywhere withstand 455 Kg (1000 pounds) tensile loads.

Watertightness: Double gaskets at all seams for protection against wind-driven rain.

Optional Items:

Skids: Three full-length replaceable skids

Roof Access Steps: Three recessed folding steps in sidewall and one roof handhold