Solarcraft™
THE POWER OF QUALITY

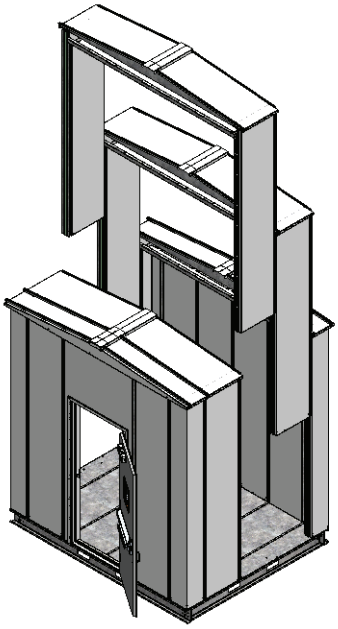
UltraStrut™ Modular Steel Shelters

Designed for easy integration

Solarcraft has seen an increasing need for pre-engineered thermal-efficient modular shelters. With our knowledge and success of our patented modular RTU shelters, we developed the solution: the UltraStrut™ - patent pending.

The UltraStrut™ shelter walls and roof panels support heavy equipment on integrated channel struts. Equipment installs directly onto unistrut channels, removing the need for conventional attachment methods that require anchor bolts drilled into the steel wall. Equipment additions and change-outs are simple and customizable.

An overall R-value of R-23 is achieved by 5″ fire resistant rock wool insulation and our patented high composite material defeats thermal transfer. The result is maximum thermal efficiency, saving energy over the lifetime of the shelter.

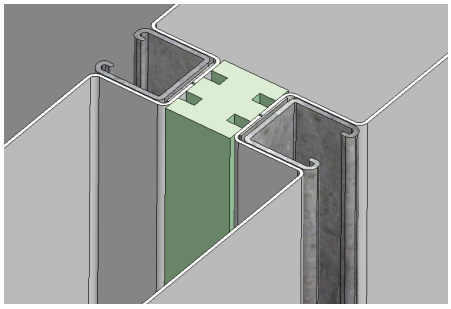


Integrated channel struts.

- Recessed integrated channel struts allow fast and flexible equipment installation between each panel
- Hard attachment points every 24″, inside and out
- Reposition components within the enclosure without perforating wall panels
- Higher weight load bearing than typical stick-and-wall construction

R-23 rated thermal efficiency.

- True thermal efficiency with an overall R-value of R-23
- Patented high-composite insulated design with 5″ thick fire-resistant rock wool insulation
- Reduced utility power consumption and costs over the life of the shelter



Modular design for custom solutions.

- Interchangeable 2′ panels assembled to meet your specific requirements
- Width 8′, 10′, 12′: Height 8′, 10′: Depth in 2′ increments
- Pre-fabricated panels for HVAC, ventilation, interior seal walls, pipe bulkheads, doors, and windows
- Riveted, not welded, panel connections for quick fabrication

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Materials and Construction Details and Specifications

Applications	Telecom, Utilities, Petro-Chemical, Rail and Transportation, Environmental Monitoring, Energy Oil and Gas, Government Buildings, Manufacturing, Military, Mining,
Wall and Roof Materials	12 and 14 gauge galvannealed steel, non-combustible rock wool insulation
Standard Floor Material	Hot-rolled, galvanized steel diamond plate (3/16" thick)
Building Weight (as shown)	Approx 6,500 lbs (for standard 10'W x 8'D configuration shown below)
Building Height Options	8' / 10' Heights
Standard Sizes	8′ / 10′ / 12′ Widths; Lengths in 2-foot increments
Exterior Dimensions	125.3" W x 101.22" D x 136.68" H (includes 8" skid height) *depth varies in 2' increments and value shown is standard for 10' height x 8' deep configuration
Interior Dimensions	110" W x 86" D x 114" H *depth varies in 2′ increments and value shown is standard for 10'W x 8'D x 10'H configuration shown below
Standard Door Size	36" W x 84" H: Keyed entry, panic exit with closer. Door window is fixed, tempered glass, single pane
Wall Unistrut/Studs	Stud construction: B22 1-5/8″ x 1-5/8″ solid steel Unistrut (back-to-back with thermal spacer), 24" O.C.
Ceiling Unistrut/Framing	Rafter construction: P5500 1-5/8″ x 2-7/16″ solid steel Unistrut, 24″ O.C.
Wall Insulation	Rock Wool (non-combustible fire-resistent up to 2150° F)
Paint and Color Choices	Triglycidyl Isocyanurate (TGIC) polyester powder coat available in white, tan, and gray
Standards	Suitable for Class 1, Division 1 and 2, Groups A, B, C, D, E, F, and G. {OSHA 1910.307 "Hazardous (classified) locations"}. Conforms to NFPA 70 National Electrical Code. Typically not subject to Industrialized Building Standard 1* (No "Closed Construction")
Wind Load Rating	150 mph
Snow Load	60 lb/sq ft
Overall R-Value	23
NEMA Rating	3R
Flammability	All walls, ceiling, floor flame rating: 0 (non-combustible), fire-resistant (Class A) roof
Wall (Unistrut) Attachment Load Limit	Max Allowable Moment = 5,070 In-lbs per attachment point
Full Depth Fork Pockets; Hard attachment points	All sizes: 3″x8″ structural C-channel (3″x8″ opening). Includes 4 "Lifting Eyes" mounted to skid corners

*Closed Construction Structure: A construction that cannot be inspected (electrical, plumbing, etc) at the construction site for building code compliance

Common accessories and options.

- Interior wall with vapor barrier
- Universal wall-bulkhead insert
- Interior/exterior light fixtures
- Electrical service panel package
- Gutters, shelves, and awnings

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