



Section 13 34 20

Prefabricated Steel Shelters

PART 1 – GENERAL

- 1.1 Provide all labor, equipment and materials to furnish and install prefabricated portable steel Shelter(s) where shown on the drawings.
- 1.2 Related work Specified Elsewhere.
 - A. Electrical service supply and connection.
 - B. Site/Foundation work.
 - C. Unloading, placement, installation and anchoring.
 - D. Plumbing and piping (when required).
- 1.3 Quality Assurance
 - A. Structures shall be the product of a manufacturer with a minimum of 15 years-documented experience in the design and fabrication of portable steel Shelter.
 - B. Acceptable Manufacturer: Panel Built, Inc., 906 Beasley Street, Blairsville, GA 30512 Toll Free Tel: 800-636-3873, Fax: 800-594-3245, Email: salesgroup@panelbuilt.com, Web: <http://www.panelbuilt.com>
 - C. Prefabricated Shelter by manufacturers other than the one approved shall submit sufficient data to enable approval to be given. As a minimum: Design drawings and /or calculations, applicable certifications, catalog information, and color samples showing equal range of variety.
 - D. Electrical devices factory installed within the prefabricated shelter shall be UL listed.
 - E. Adherence to applicable portions of state and local Shelter codes is the responsibility of the owner. Shelter manufacturer shall not be responsible for permits, special engineering calculations, or architectural type drawings unless otherwise notified in writing 3-weeks prior to release of bid document.
 - F. Design Loads: 30 PSF live load, 90 PSF wind load.
- 1.4 References
 - A. Upon request, the prefabricated Shelter manufacturer shall provide the locations and owners of three (3) similar Shelter that have been in service more than three (3) years. This will allow the architect/owner to inspect on site and obtain a statement from the owners on the quality of workmanship (fit and finish).
- 1.5 Submittals



- A. Upon award of order, manufacturer shall prepare and submit copies of shop drawings as required for each different Shelter required for this project. Drawings shall include elevations, section, floor plan, electric schedule, service entrance locations, and anchor clip detail.
- B. Color charts illustrating available colors and patterns for specified finishes shall be submitted to owner for prompt selections.
- C. Warranty documents.
- D. (OPTION) For installed products indicated to comply with design loads, include structural analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

PART 2 – PRODUCTS

2.1 Product Construction

Shelter shall be of welded steel construction with all intersecting welded connections ground smooth. Overall height to be 96”.

- A. Structural corners and uprights to be minimum 2”x2” x.120 structural ASTM A500 Grade B welded tubing.

2.2 Finish

The walls shall be painted using a prime to paint system manufacturer’s epoxy primer with a urethane finish. Standard is 4-6 mls DFT. Color selected from manufacturer’s standard colors. The standard sheen shall be Satin finish. The exterior and the interior shall be the same color.

2.3 Windows and Glazing

Windows shall have clear anodized aluminum frames.

- A. Windows to be glazed with 1/4” clear tempered safety glass.
- B. (OPTION) Windows to be glazed with 1/4” tinted tempered safety glass.
- C. (OPTION) Windows to be glazed with 1/2” clear insulated tempered safety glass.
- D. (OPTION) Windows to be glazed with 1/2” tinted insulated tempered safety glass.
- E. (OPTION) Windows to be glazed with clear polycarbonate glazing.
- F. (OPTION) Lower Wall Panel: Exterior face of manufacturers standard 16 gauge galvanized steel, an E.P.S. insulation core and a 16 gauge galvanized steel interior face. Panels shall be MIG welded into place.

2.4 Exterior Roof

Exterior waterproof roof to include, fascia trim, and matching gutter fascia. Roof to be installed on Shelter with 4” nominal overhang.

(OPTION) 1/8-12 Pitch Panelized Roof with 4” Overhang Polystyrene Roof -3”, 3-Ply:

- A. The roof shall be 3” thick composite sandwich panels. Both sides shall be stucco-embossed aluminum pre-painted white. The core shall be of 1 lb. density



polystyrene foam. The entire panel shall be laminated together using a solvent free two-part polyurethane adhesive and pressure. The panels shall have formed edge connectors that are capable of being friction locked without mechanical fasteners using a full-length joint

without through metal connectors. The joint shall allow lateral expansion and contraction. Fascia shall be 5" high with gutter and downspout

- B. (OPTION) Provide a standing seam hip roof measuring 24" tall. The roof shall be a standing seam metal roof system in gable or hip roof design. Metal shall be 22/24 gage and come in standard colors installed on 3/4" tongue and groove (T&G) Advantech substrate. Framework shall be made from steel. Fascia shall be 5" high with gutter and downspout. Metal ceiling panels - Mounted at 90" A.F.F. Prefinished white 20-gauge steel painted providing a smooth flat interior.

2.5 Bench (OPTIONAL)

Bench to be constructed of **<stainless steel>** **<painted galvanized steel>**. Bench to be shipped installed and complete with a 9" deep seat with a (OPTIONAL) vertical back rest.

2.6 Electrical (OPTIONAL)

- A. (OPTION) Furnish one 115v duplex outlet.
- B. (OPTION) Light to be LED type, exterior grade for damp conditions with acrylic lens
- C. (OPTION) Include "dusk to dawn" photocell.
- D. (OPTION) Solar power battery w-LED fixture.
- E. (OPTION) Provide infra-red heater (2,000w) with timer.

2.7 Swing Door

Insulated Steel With 1/4 Inch Clear Tempered Safety Glass: 1 Each

Door(s) shall be 36"/32" or 30" w X 84"h X 1 3/4" thick. The door shall be fabricated as to include 1/4-inch clear tempered safety glass in the upper half. The window shall measure approximately 20"w X 30"h. Each door includes a closer, sweep, threshold, satin chrome lever set and weather-stripping.

PART 3 – EXECUTION

3.1 General

Install prefabricated Shelter on a flat and level concrete pad in accordance with the manufacturer's placement drawings. Position units over the utility stub-ups; verify Shelter is level and anchor (Anchors are supplied on site, by others. Comply with local codes).