

Prefabricated Modular Booth and Shelter Specifications

PART 1 – GENERAL

- 1.1 Provide all labor, equipment and materials to furnish and install prefabricated portable steel building(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 10 years-documented experience in the design and fabrication of portable steel buildings.
 - B. Prefabricated buildings 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.
 - C. Electrical devices factory installed within the prefabricated building shall be UL listed. Factory installed wiring system shall bear UL Classification insignia certifying compliance with the National Electrical Code, 2005 and previous editions.
 - D. Adherence to applicable portions of state and local building codes is the responsibility of the owner. Building 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.
 - E. Design Loads: 50 PSF live load, 30 PSF wind load.
- 1.4 References
 - A. Upon request, the prefabricated building manufacturer shall provide the locations and owners of three (3) similar buildings 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 building 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

Building shall be of welded steel construction with all intersecting welded connections ground smooth. Overall height to be as indicated on drawings. Model number to be Durasteel <Insert **Model Number**> as manufactured by Porta-King Building Systems.

- A. Structural corners and uprights to be 2"x2"x.120 structural ASTM A500 Grade B welded tubing.
- B. (OPTION) Building shall feature six (6") inch Radius-Corner design.
- C. (OPTION) Building shall feature Round-End design on one-end.
- D. (OPTION) Building shall feature Round-End design on two-ends.
- E. (OPTION) Building shall feature Horizontal-Reveals, per drawing.
- F. (OPTION) Building mounted on trailer designed for occasional use at low speeds. The trailer shall be welded steel construction, designed for weight and size of booth and size of platform. Platform to have steel treadplate and steel tube handrails. Back of trailer to have a fold down step coming off of platform. Trailer to include tires, fenders, and running lights. Each corner of trailer to include adjustable leveling jack and front to include crank-down tongue jack with castor and 2" ball hitch with safety chains. Trailer to be painted black.

2.2 Wall and Ceiling Panels

Wall panels shall be 14 gauge galvanized steel on exterior and 16 gauge galvanized steel on interior. Overall wall thickness shall be 2". Ceiling to be 14 gauge galvanized steel, painted to match total building.

- A. Provide R-10 wall insulation and R-19 ceiling insulation.
- B. (OPTION) Wall Panels to be Ballistic Rated to meet the threat level of glazing material, specified below.

2.3 Finish

Exterior surfaces of steel walls and corners shall be full flush, smooth, and unbroken by visible seams or caulked joints (any visible seam is not acceptable). Interior wall surfaces shall be flush, smooth welded construction with no exposed fasteners. All interior and exterior surfaces shall be electrostatically painted with rust inhibitive epoxy primer and shall have a finish coat of air-dry industrial acrylic paint. Building to be painted one color, as selected from standard acrylic finishes.

- A. (OPTION) Provide two-tone exterior paint.
- B. (OPTION) Provide ready-for-brick sill ledge. Brick supplied on site, by others.
- C. (OPTION) Provide brick finish from windowsill down.

2.4 Floor Structure

Floor structure to be an integral part of the building with 1 ½” solid waterproof insulating core fit tight against panels and fastened to bottom structural base frame.

- A. Finished floor shall be 3003 Treadbrite safety treadplate floor covering.
- B. (OPTION) Finished floor shall be raised rubber disc flooring.

2.5 Doors

Doors to be of anodized aluminum, 1 ¾” tubular construction and half-glazed. Bottom portion to include panel finish to match interior and exterior building walls.

- A. Sliding door to be ceiling suspended in overhead track assembly and shall be fully weather-stripped weather-stripped. Sliding doors shall incorporate a maximum-security laminated hook bolt deadlock with removable cylinders.
- B. (OPTION) Provide a half-height horizontal sliding transaction window with fixed window above within door leaf.
- C. (OPTION) Swing door to swing outward and shall include knobbed lockset with key.
- D. (OPTION) ADA compliant door shall include lever lockset and hydraulic door closer.
- E. (OPTION) Steel Swing Door to be ballistic rated to meet the threat level of glazing material, specified below.

2.6 Windows and Glazing

Windows shall have anodized aluminum frames and inserts and to be industrial quality with active window panel to slide horizontally on stainless steel, ball-bearing rollers (plastic rollers are not acceptable). Windows to include inside positive locking device. Exterior window sill height to be 38” (inside sill height 34” from finished floor).

- A. Windows to be glazed with 3/16” clear tempered safety glass.
- B. (OPTION) Windows to be glazed with 3/16” tinted tempered safety glass.
- C. (OPTION) Windows to be glazed with 5/8” clear insulated tempered safety glass.
- D. (OPTION) Windows to be glazed with 5/8” tinted insulated tempered safety glass.
- E. (OPTION) Windows to include Satellite-glazing (butt-to-butt).
- F. (OPTION) Provide a half-height horizontal sliding transaction window with fixed window above within the wall panel.
- G. (OPTION) Windows to be glazed with clear Ballistic Rated Glazing <UL 752 Level 1> <UL 752 Level 2> <UL 752 Level 3> <UL 752 Level 4>.
- H. (OPTION) Windows to be glazed with tinted Ballistic Rated Glazing <UL 752 Level 1> <UL 752 Level 2> <UL 752 Level 3> <UL 752 Level 4>.
- I. (OPTION) Include Security Screens around perimeter to minimize forced entry.

2.7 Counter

Furnish 22” deep, full-width <walnut woodgrain plastic laminate> <painted steel> <stainless steel> counter, per plans, 32” a.f.f.

- A. (OPTION) Provide a steel storage drawer, with lock.
- B. (OPTION) Provide a lockable Indiana R-1 cash drawer, with trays.

2.8 Electrical

Electrical service to include single phase, 100 amp capacity load center, pre-wired in conduit, with one 230v circuit and four 115v circuit capacity – provide two spare circuits. Conduits to be recessed in walls and electrical boxes and fixtures surface mounted. All electric work shall be in compliance with the National Electrical Code. All electrical components shall bear the UL label.

- A. Furnish one 115v duplex outlet, and one 230v single outlet.
- B. Lights to be fluorescent type fixture with acrylic lens and wall switch (tubes to be furnished by others).
- C. (OPTION) Include one Thru-Wall HVAC unit <230V, 9,900C/11,600H BTU><230V, 11,600C/11,600H BTU>.
- D. (OPTION) Include one Roof Mounted AC unit (115V, 13,500 BTU)
- E. (OPTION) Include one wall mounted heater unit (230V, 4000 Watt).
- F. (OPTION) Include <Qty> additional 115V duplex outlets.
- G. (OPTION) Include <Qty> empty conduit runs with pull wire to run communication lines.

2.9 Restroom (OPTIONAL)

Provide integral restroom area complete with solid door, privacy lock and the following options (See drawing for layout):

- A. Ceiling mounted lighting and exhaust fan with wall switch.
- B. <Standard> <ADA Compliant> water closet with tank.
- C. <Standard> <ADA Compliant> lavatory with faucet.
- D. Point-of-use 2.5 gallon water heater.
- E. ADA grab bars.
- F. <Standard> <ADA Compliant> accessory package (soap dispenser, paper towel dispenser, tissue holder and mirror).
- G. Plumbing fixtures to be installed and plumbed <on site, by others> <in the factory, by building manufacturer>.

2.10 Exterior Roof

Exterior EPDM Membrane waterproof roof with 3” overhang and 6” high fascia.

- A. (OPTION) Provide a standing seam roof measuring 24” tall constructed of minimum 26 gauge steel material. Kynar/Hylar roof finish available with manufacturers standard color selections.
- B. (OPTION) Provide an expanded metal pitched roof measuring 24” tall constructed of 3/4” x #9 flat expanded metal material. Paint color to be selected by owner.

PART 3 – EXECUTION

3.1 General

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