

Duraluminum Preassembled Building

PART 1 – GENERAL

- 1.1 Provide all labor, equipment and materials to furnish and install prefabricated portable anodized aluminum building(s) where shown on the drawings.
- 1.2 Related work Specified Elsewhere.
 - 1.2.1 Electrical service supply and connection.
 - 1.2.2 Site/Foundation work.
 - 1.2.3 Unloading, placement, installation and anchoring.
 - 1.2.4 Plumbing and piping (when required).
- 1.3 Quality Assurance
 - 1.3.1 Structures shall be the product of a manufacturer with a minimum of 30 years - documented experience in the design and fabrication of portable aluminum buildings.
 - 1.3.2 The approved manufacturer is Porta-King Building Systems, 4133 Shoreline Drive, Earth City, MO 63045, Ph. 1-800-284-5346, and Fax 1-314-291-2857.
 - 1.3.3 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.
 - 1.3.4 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, 1990 & 1993 editions.
 - 1.3.5 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.
 - 1.3.6 Design Loads: 50 PSF live load, 30 PSF wind load.
- 1.4 References
 - 1.4.1 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
 - 1.5.1 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.
 - 1.5.2 Color charts illustrating available colors and patterns for specified finishes shall be submitted to owner for prompt selections.

PART 2 – PRODUCTS

- 2.1 Product Construction

Building to be of aluminum construction, with natural satin anodized aluminum exterior surfaces. All anodized aluminum surfaces to carry a five- (5) year warranty from surface deterioration caused by oxidation. Building height to be 86 9/16", or 88 1/8" including rimfit exterior roof. Model number to be ()

 - 2.1.1 Structural members to be extruded aluminum angles, channels, and tee sections of structural alloy 6063T6, anodized 204R1, with ribbed pattern exterior surfaces.
 - 2.1.2 Fasteners used to manufacture and assemble buildings to be corrosion-proof type and to permit on-site replacement of damaged components. Welded fabrication is not acceptable.
 - 2.1.3 (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

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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 to be 3/4" high-impact resistant and expansion resistant insulating OSB. Wall panels shall carry a five- (5) year warranty from swelling due to moisture absorption. Ceiling panel to be 3/4" thick, high impact resistant, moisture resistant, and expansion resistant insulating OSB with white vinyl permanently laminated to interior side, and plastic protective sheet laminated to upside. Ceiling panel to carry a five- (5) year warranty from swelling due to moisture absorption.

2.2.1 (OPTION) Provide R-10 wall and ceiling insulation.

2.2.2 (OPTION) Wall Panels to be Ballistic Rated to meet the threat level of glazing material, specified below.

2.3 Finish

Clear anodized aluminum, diamond embossed sheet permanently laminated to exterior side.

Interior to have vinyl walnut wood grain surface.

2.3.1 (OPTION) Provide total exterior paint, one color.

2.3.2 (OPTION) Provide total exterior paint, two-tone.

2.3.3 (OPTION) Provide ready-for-brick sill ledge. Brick supplied on site, by others.

2.3.4 (OPTION) Provide brick finish from windowsill down.

2.4 Floor Structure

Floor structure to be an integral part of the building with 1 1/2" solid waterproof insulating core fit tight against panels and fastened to bottom structural base frame.

2.4.1 Finished floor shall be 3003 Treadbrite safety treadplate floor covering.

2.4.2 (OPTION) Finished floor shall be raised rubber disc flooring.

2.4.3 (OPTION) Finished floor shall be Vinyl Composition Tile.

2.5 Doors

Doors to be of anodized aluminum, 1 3/4" tubular construction and half-glazed. Bottom portion to include panel finish to match interior and exterior building walls.

2.5.1 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.

2.5.2 (OPTION) Provide a half-height horizontal sliding transaction window with fixed window above within door leaf.

2.5.3 (OPTION) Swing door to swing outward and shall include knobbed lockset with key.

2.5.4 (OPTION) ADA compliant door shall include lever lockset and hydraulic door closer.

2.5.5 (OPTION) 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).

2.6.1 Windows to be glazed with 3/16" clear tempered safety glass.

2.6.2 (OPTION) Windows to be glazed with 3/16" tinted tempered safety glass.

2.6.3 (OPTION) Windows to be glazed with 5/8" clear insulated tempered safety glass.

2.6.4 (OPTION) Windows to be glazed with 5/8" tinted insulated tempered safety glass.

2.6.5 (OPTION) Windows to include Satellite-glazing (wrap-around) utilizing clear polycarbonate.

2.6.6 (OPTION) Provide a half-height horizontal sliding transaction window with fixed window above within the wall panel.

2.6.7 (OPTION) Windows to be glazed with clear Ballistic Rated Glazing (UL 752 Level 1).

2.6.8 (OPTION) Windows to be glazed with clear Ballistic Rated Glazing (UL 752 Level 2).

2.6.9 (OPTION) Windows to be glazed with clear Ballistic Rated Glazing (UL 752 Level 3).

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- 2.6.10 (OPTION) Windows to be glazed with tinted Ballistic Rated Glazing (UL 752 Level 1).
- 2.6.11 (OPTION) Windows to be glazed with tinted Ballistic Rated Glazing (UL 752 Level 2).
- 2.6.12 (OPTION) Windows to be glazed with tinted Ballistic Rated Glazing (UL 752 Level 3).
- 2.6.13 (OPTION) Include Security Screens around perimeter to minimize forced entry.
- 2.7 Counter
 - Furnish 22" deep, full-width walnut woodgrain plastic laminate counter, per plans, 32" a.f.f.
 - 2.7.1 (OPTION) Provide a steel storage drawer, with lock.
 - 2.7.2 (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. All electric work shall be in compliance with the National Electrical Code. All electrical components shall bear the UL label.
 - 2.8.1 Furnish one 115v duplex outlet, and one 230v single outlet.
 - 2.8.2 Lights to be fluorescent type fixture with acrylic lens (tubes to be furnished by others).
 - 2.8.3 (OPTION) Include one HVAC unit (230V, 9,900C/11,600H BTU).
 - 2.8.4 (OPTION) Include one wall mounted heater unit (230V, 4000 Watt).
 - 2.8.5 (OPTION) Include () additional 115V duplex outlets.
 - 2.8.6 (OPTION) Include () empty conduit runs with pull wire to run communication lines.
- 2.9 Exterior Roof
 - Exterior waterproof roofs include ribbed anodized fascia trim, matching structural with integral, self-contained gutters. Provide a 3" overhang. Roof ships installed.
 - 2.9.1 (OPTION) Provide a standing seam roof measuring 24" tall constructed of minimum 24 gauge steel material. Kynar/Hylar roof finish available with manufacturers standard color selections.
 - 2.9.2 (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).

**For editable specifications please email
request to cschulte@portaking.com or call
800-456-5464 Ext. 265.**