

Standard Specifications – Omni Series
Prefabricated Aluminum Attendant Booths

PART 1 - GENERAL

- 1.1 DESCRIPTION OF WORK: The work herein includes the provision and installation of a prefabricated booth as shown on the drawings and includes all accessories, HVAC and electrical systems. Unit shall be completely pre-assembled and pre-wired.
- 1.2 RELATED WORK SPECIFIED ELSEWHERE:
- A. Concrete Foundation
 - B. Anchoring
 - C. Electrical Rough-Ins
- 1.3 SUBMITTALS
- A. Product Data - Manufacturer's catalog description and cut sheets including standard and optional features.
 - B. Shop Drawings – Include plans, elevations, sections. Indicate standard and optional component features, dimensions, materials, anchoring details, and other items required for fabrication and installation.
- 1.4 MEASUREMENTS
- A. Verify all dimensions by taking field measurements and from final accepted shop drawings; proper fit and attachment of all items is required.
 - B. Coordinate concrete flat work and electrical rough-in installations to properly conform to prefabricated unit.
- 1.5 QUALITY ASSURANCE
- A. Source Limitations: Obtain prefabricated booths through one source from a single manufacturer.
 - B. Product Options: Do not modify intended aesthetic effects, as judged solely by Architect, except with Architect's approval.
 - C. Regulatory Requirements: Where prefabricated booths are indicated to comply with accessibility requirements, comply with the 2010 ADA Standard for Accessible Design and/or jurisdiction having authority.
 - D. Electrical Devices and Fittings: Listed and labeled as defined in NFPA 70, Article 100
 - E. Safety Glass: Category II materials complying with testing requirements in 16 CFR 1201.
 - F. Appliances: UL listed and labeled.
 - G. Reference Standards applicable to this section:
 - 1. ASTM B 209 – Aluminum and Aluminum Alloy Sheet and Plate
 - 2. ASTM B 241 - Aluminum and Aluminum Alloy Seamless Pipe and Seamless Extruded Tube
 - 3. ASTM B 429 - Aluminum Alloy Extruded Structural Pipe and Tube
 - 4. ASTM B 483 - Aluminum and Aluminum Alloy drawn Tubes for General Purpose Applications
 - 5. ASTM C 578 – Rigid, Cellular Polystyrene Thermal Insulation
 - 6. ASTM C 1289 – Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board
 - 7. High Pressure Decorative Laminates, ANSI/NEMA Standard LD3
 - 8. NFPA 70 – National Electric Code
 - 9. Underwriters' Laboratories
- 1.6 WARRANTIES
- A. Manufacturer's standard 1-year warranty for workmanship
 - B. Manufacturer's standard warranty for installed components
- 1.7 DELIVERY, STORAGE AND HANDLING
- A. Transport products/assemblies to avoid damage during shipment, with all tags and labels intact and legible, as applicable for timely application/installation.
 - B. Inspect for and note any and all damages to products on the carrier's bill of lading, and report damages immediately for proper compensation and reorder of product if necessary.

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- C. Handle materials and product assemblies to prevent damage from dropping, improper handling, damages, and careless storage.

PART 2 - PRODUCTS

2.1 MANUFACTURER AND PRODUCTS

Booth shall be the Omni Series provided as manufactured by Mardan Fabrication, Inc., 41249 Irwin Dr. Harrison Township, MI 48045, Telephone (800) 882-5820, FAX (855) 313-4159, www.mardanfab.com, info@mardanfab.com

2.2 PREFABRICATED UNIT REQUIREMENTS

Unit shall be shipped completely assembled and pre-wired unless otherwise stated. Coordinate concrete work and electrical rough-in installations to properly conform to prefabricated unit.

2.3 COMPONENTS

- A. Frame: Frame comprising the structure shall be .125 inch minimum tubular aluminum frame, standard prefinished white. Optional colors are available, as selected by Owner/Architect from manufacturer's standard color chart. Aluminum tubes shall be mechanically fastened into each panel for reinforcement, including all necessary hardware. Hardware shall be of stainless steel, zinc plated or aluminum. Booth shall have round end(s).
- B. Wall panels: Impact resistant, moisture resistant and expansion resistant composite with .063 inch thick smooth finish aluminum exterior sheets insulated with rigid insulation. Interior panels shall be prefinished white aluminum dent resistant composite sheet.
- C. Roof: Roof panel shall be a total of 3 inch thick composite and shall have prefinished white aluminum with stucco embossed finish on top and bottom. Standard units intended for exterior use include 3 inch overhang on all sides and 8 inch high fascia. Roof scupper(s) shall be provided for water runoff. Roof shall be sealed at all joints and seams for a complete weatherproof roof system.
- D. Glazing: All flat windows shall be ¼ inch tempered safety glass. Curved window(s) shall be mar-resistant polycarbonate. Optional sliding windows have extruded aluminum framing with 1/8 inch tempered safety glass.
- E. Door(s): 1-1/2 inch thick, fully weather-stripped top-hung sliding door(s) with mortise type hook bolt locking device and/or 1-3/4 inch thick swing door(s) with pre-installed lever type lock, continuous aluminum geared hinge, and hydraulic closer. Either door manufactured from .125 inch extruded aluminum sections, with a fixed window glazing to match booth. Door panel shall match the exterior of the booth. Heavy duty hardware and manufacturer's standard commercial grade key locking device to be factory installed.
- F. Flooring: Aluminum treadplate floor covering over .125 inch aluminum tube sub-floor supports. Supports to be spaced to minimize deflection without failure, and welded to the booth frame as an integral part of the booth framing system. Required number of pre-engineered and pre-drilled anchor clips to be provided.
- G. Counter/Shelf: Unit shall be provided with plastic laminate or as shown on the drawings. Counter shall be mechanically fastened to reinforced rib sections of wall structure. Provide access opening for electrical cords as required.

2.4 ELECTRICAL

- A. Unit shall be pre-wired with interior grade plastic coated #12 THHN copper stranded wiring run through ½ inch minimum surface mounted EMT conduit. Unit shall be supplied with a 125-amp 120/240 volt, S.P. 8-circuit load center. Manufacturer to supply branch circuit breakers for all factory supplied electrical equipment. Standard load center does not include main breaker.
- B. Electrical rough-in to be coordinated by contractor for proper placement in slab to match prefabricated booth's electrical access cut out in floor.

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- C. Unit shall be equipped with a wall switch for lights and with a minimum of one duplex electrical receptacle, located as shown on shop drawings.
- D. Unit shall be equipped with light fixture(s). Number, size, type and location of fixtures as per shop drawings.
- E. Units shall be wired in accordance with National Electric Code (NEC). All components shall be ETL listed by UL or other nationally recognized testing lab.
- F. Optional HVAC or Heat Pump: Unit shall provide sufficient BTU rating for the area where the project is located and size of prefabricated booth specified. Unit shall be thermostatically controlled. Unit shall be pre-wired and UL/ETL listed.
- G. Optional Wall Heater: 120V/1,500 watt (or 230/240V – 3,000/4,000 watt), pre-wired, UL listed electrical heater and thermostatically controlled.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions for compliance with requirements for installation tolerances and other conditions affecting performance.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Anchoring system complete per final accepted shop drawings and in full accordance with the manufacturer's specifications and instructions. Minor adjustments to the booth may be necessary at time of installation, due to possible variances and irregularities in poured concrete slab. Concrete slab, specifications and electrical rough-in to be coordinated with booth manufacturer.
- B. Set booths on concrete slab/foundation adequately sized for the project site.
- C. Set booths plumb and aligned. Level true with full bearing on concrete base.
- D. Fasten with expansion anchors at pre-drilled anchor points. Anchor bolts provided by others.
- E. Connection to electrical service shall be performed by a local licensed electrician, per electrical requirements.

3.3 ADJUSTING AND CLEANING

- A. Adjust doors, operable windows, and hardware to operate smoothly, properly, and without binding. Confirm that locks engage easily without forcing or binding.
- B. Lubricate hardware and other moving parts.

END OF SECTION