

SHELTER SPECIFICATIONS

GENERAL DESCRIPTION: The work specified includes the design and fabrication of Prefabricated Outdoor Shelters, including frame, glazed wall panels, glazed roof and benches if required.

DESIGN REQUIREMENTS: Each shelter shall consist of a structural aluminum frame with glazed rear, side walls, windscreen if required and glazed vaulted barrel roof. The walls shall be glazed full height with 10" ventilation space at bottom. Benches shall be furnished as indicated. The shelter shall be fabricated in the minimum number of parts or sections which can be transported to each site in their pre-glazed sections. Fabrication methods shall provide for ease in erection.

The frame shall be designed to be stable with or without wall glazing and plastic roof panels. The shelter, including connections, components and anchorage, shall be tamperproof.

The shelter, including the structural frame, glazing and roof domes, shall be capable of withstanding a minimum wind-load of 90 MPH. The roof shall be capable of supporting a uniformly distributed load of 40 pounds per square foot or a separate concentrated load of 200 pounds placed at any location on the roof or fascia without permanent deformation. Higher load capacities can be achieved, but may require our professional engineering service.

ALUMINUM: All structural and framing members including the fascia shall be extruded aluminum of 6063-T52 alloy not less than 1/8 inch in thickness.

GLAZING: Wall panels shall be 1/4" Clear tempered glass (Standard), acrylic, polycarbonate, or Abrasion Resistant coated polycarbonate (as specified). Gasketing around windows and Barrel or Poly-Hip roof panels shall be extruded PVC dry set splines, which shall be black in color. Hot or cold poured sealants will not be permitted.

Roof shall be glazed or panelized as follows:

Dome Roof – 1/4" Acrylic Dome(s) Dome size not to exceed 5' x 10' - Seams and edges sealed with GE 2000 Silicone

Flat Roof – 1/4" Endurex 300 Composite Panels. Seams and edges sealed with GE 1000 Silicone

Barrel, Poly-Hip, or Sloped Roofs - 1/4" thick Twin-wall polycarbonate.

Standing Seam and Historical Roofs – ATAS Dutch Seam Aluminum Decking, .040" Thick, 11" Wide

SHELTER CONSTRUCTION (Standard Shelters): Maximum horizontal span of any panel shall not exceed 30'.

All wall panels shall be factory glazed into aluminum sub-frames with minimum depth engagement of 3/4". Panel sub-frames shall be attached to vertical and horizontal structural mullions with 3/16" diameter rivets on approximately 13" centers.

Each shelter shall be supported by vertical 2 1/2"x2 1/2" aluminum tube corner mullions anchored at base and supporting the roof, rear wall and side walls. Intermediate vertical mullions shall be 2 1/2" x 1 1/2" aluminum tubing.

Mullion connections shall be by means of extruded aluminum "U" channels 2 1/4"x2 1/4" or 1 1/4"x2 1/4" with tapered edges.

All wall sections shall have structural horizontal members along top and bottom edges. Horizontal and vertical mullions shall be factory attached directly to each other. The fasteners shall be completely hidden when shelter is field installed. The final assembly shall provide a clean, neat, unobtrusive and tamperproof structure free of sharp or irregular edges or corners.

Anchor flanges shall be cast aluminum with minimum height of 5" to provide up to 3" vertical adjustment for possible unlevel site conditions.

All mounting hardware shall be factory supplied.

Roof shall be completely factory assembled if roof is no larger than 15' long by 7'-6" deep. Roof panels shall be factory glazed.

Roof fascia shall be 1/8" extruded aluminum 3" or 6" high. Fascia shall incorporate an integral gutter with 5/8" x

1/4" weep holes in back of shelter for drainage.

Roof fascia shall have both corner keys and alignment plates secured with 3/16" diameter rivets. Under no circumstances will corner keys be dependent upon mere pressure fit. Each corner key shall be secured with a total of six rivets, three on each face, through both the roof fascia and corner key. Rivet shall match the finish of roof fascia

The roof fascia extrusion shall have an inside lip facing downward which shall overlap the inside surface of the wall assembly. This lip shall have factory drilled clearance holes for factory supplied 3/16" diameter rivets on approx. 20" centers. Through these holes, holes shall be chased into the top horizontal wall mullion in the field, then the roof assembly secured to the wall assembly with the factory supplied rivets. Any subsequent upward windload force under the roof shall be resisted by shear strength of the rivets. The roof assembly shall not be fastened down to the top of the wall sections with sheet metal screws whereby any upward force is resisted by the screw threads in tension.

STANDARD FINISHES: All aluminum components shall be either one of the following finishes depending which is specified:

204 R1 Clear anodized

215 R1 Dark bronze anodized

Electro-Coat finish (Aluminum Cast flanged Bases only)

Powder-Coat Finish Available

BENCH/BACKREST: If bench/backrest is specified, materials shall be extruded aluminum consisting of two contoured sections for bench and one section for backrest. Included shall be aluminum brackets and hardware. Bench/backrest shall be supported along inside of shelter walls. Length of benches to allow a minimum of 30" W x 48" D clear floor space within the shelter.

WARRANTY: Shelters shall be guaranteed against any defects in material and/or workmanship for one full year from time of delivery.