

Specs for Bronze outswing casement windows

Rayburn Correctional Center is requesting 89 (eighty-nine) windows to be constructed to match or be equal to the specifications set below.

This a commercial grade, weight casement window. Residential quality will not be considered equal.

Windows must meet physical load test requirements of the Architectural Aluminum Manufacturers Association Specification 101-85Hc65.

Material—windows shall be constructed of extruded 6063T5 aluminum alloy. Depth of frame should be a minimum depth of 2 ¼" (inch). Depth of ventilator section shall be a minimum of 2 ¼" (inch). Perimeter frame shall be a minimum of .078 (inch) for perimeter frame. Sash shall also consist of a minimum wall thickness of .078 (inch). Sections shall be .125 (inch) thick as required for AAMA 101-85 testing and hardware attachment. Windows shall be furnished anodized for corrosion resistance. Finish to be Clear 204R1 {AA-M12-C22-A31}.

Construction—Windows shall be constructed as to ensure water tight joints and mechanically attached using fully concealed screws. Corners of perimeter frame shall be square cut, notched and screwed together. Sash frame will be miter cut and crimped together with epoxy and a full 1/8" (inch) corner key. Ventilator sections shall be mitered with removable glazing stops in order to allow for re-glazing should breakage occur. Perimeter and ventilator sections shall consist of a continuous innate thermal barrier to reduce heat gain and loss and prevent condensation build up at interior locations. Windows shall be furnished anodized for corrosion resistance. Finish to be Clear 204R1 {AA-M12-C22-A31} and color to be Duralock Dark Bronze.

Weather stripping—Shall have two-point contact with weather stripping which shall be extruded EPDM in accordance per specifications ASTM C864 or ASTM C509 as required.

Air Infiltration—When subject to a static air pressure equal to a 50 (fifty) miles per hour velocity {6.24 pounds per square foot} the air infiltration shall not exceed ½ (one half) cubic foot per minute of crack length with ventilator in closed position and locked.

Hardware-- Windows shall be equipped with reversible four bar hinges containing an adjustable friction slide shoe of brass with nylon pad, a toggle throw link, and lock bracket. Length of hinge should be as recommended by manufacturer. See hinge manufactured by A. W. Anderberg Manufacturing Co. {equal to}. Hardware shall also include provisions to allow the ability to securely lock windows with ¼" (inch) set screw and use of cam handles for hand operation.

Glazing- glass shall be ¼" (inch) clear Lexan or Makrolon polycarbonate installed in vinyl glazing channels with removable stops and shall form a neat flush appearance.

Installation—Windows shall be installed by an experienced installer that is approved by the manufacturer. Shall be set in properly prepared level and plumb opening according to manufactures instructions and approve drawings. Installer shall furnish labor, material, and other services to complete installation of windows, and partial removal of existing windows outside of prison compound. It is in the best interest of all parties that a site visit be conducted. The contractor will need to take measurements in order to obtain a proper fit of the windows as these will be permanent fixtures. This is critical since the contractor will be responsible for the fabrication of the windows. This will also give the contractor an opportunity to evaluate requirements for the partial removal (slats only) and installation process of the windows.