

SERIES 700

Historic Steel and Wood Replica Windows

Heavy Commercial



DETAILS

Specially designed for the narrow sightline needs of historic projects, approved on NPS funded buildings

Fixed to vent sightlines can be made even, or stepped to faithfully meet design goals

Multiple grid options to create Simulated Divided Lite (SDL), exterior, between glass or interior

Designed with flexibility for single opening systems, Allows replication of steel "floating vent" windows

Utilizes complete Thermal Break vent and master frame for optimal insulating

Features 1 1/8" clear insulating glass made with Super Spacer, the world's only TrueWARM edge technology

Interior bead glazed for easy repair and insulation

Heavy duty 4 bar stainless hinges with brass slide

Cost effective: Installed at fraction of the cost to refurbish, or replace with new steel windows.



UNIVERSAL
Window and Door

Heavy Commercial Steel Replica Wood Replica

Performance

AAMA/WDMA/CSA101/1S2/A440

Structural Rating:
AP-AW 90 @ 60" x 36" Awning
C-AW 60 @ 36" x 60" Casement
FW-AW 100 @ 60" x 99" Fixed

Uniform Structural Load:
150 psf fixed
135 psf awning
90 psf casement

Water Resistance:
@ 12 psf: No Entry

Air Infiltration:
@ 6.27 psf: <0.10 cfm

Options

Glass:

Low-E, Soft-Coat, Solar Control, Argon, Tempered, Obscure, Wire or Spandrel

Operators:

Roto-op or Under-screen Push Bar hardware

Wrapping Systems:

Exterior Panning Systems

Interior Trim Systems

Receptor Systems

Flange Frame

Backer Rod Stops, Installation Clips

Mull Systems:

Self-Mulling

I-Mullions

Structural Mullions

Finishes:

Special finishes and custom architectural finishes are available

Internal, External and Interior Grids



Specifications

General: All projecting windows are the thermally improved Series 700 as manufactured by Universal Window and Door. They include all necessary hardware and related items described and shown on the plans.

Material: Aluminum used is heavy commercial quality extruded aluminum 6063-T5 alloy with an internal polyurethane-filled structural thermal barrier. Frame and sash are designed for inside glazing using snap-in aluminum extruded bead.

Construction: All ventilator corners shall be mitered and reinforced with extruded keys that are crimped into place. All joints are sealed weather-tight. Corners of frame are closely fitted, telescoped, butt-jointed and tightly joined by mechanical means. Ventilator sections will be double weather-stripped, with flexible EPDM seals keyed into extruded grooves.

Glazing: At frames and vents, all glazing legs are 3/4" high with an inside surface to secure glazing tape or extruded EPDM seals. Glazing beads are extruded, snap-in type, no less than .050" and accommodate up to and including 1 1/8" glass, panels or louvers.

Finish: Aluminum surfaces on the Series 700 are undercoated with a 5-stage chromate pre-treatment, then have an electrostatically applied, baked-on enamel finish conforming to AAMA 603.8 standards. Standard colors are white, black, bronze, green and beige. Special colors, architect-specified finishes and anodized finishes are available at an added cost.

Hardware: Universal's ventilator windows incorporate two four-bar, heavy duty friction hinge assemblies securely fastened to the frame and vent members, operating in a track provided with an adjustable brass friction shoe that conceals when closed. Standard locking hardware consists of cam locking handles cast of white bronze, and secured with stainless steel fasteners.

Screens: The optional screens have extruded aluminum frames securely joined at the corners, and finish will match that of the window frame. Projected window frames feature a wicket door as standard. Screen cloth is 18 x 16 mesh fiberglass standard. **WARNING:** Insect screens are intended to provide reasonable insect control, and are not intended to provide for the retention of objects or persons from the interior.

Thermal Barrier: The thermal barrier consists of a two-part, chemically curing, high strength polyurethane casting resin. This barrier provides a continuous, uninterrupted break around the entire perimeter of the frame and vent, and it is not bridged by any metals, conductors or other materials.

Erection: Window frames must be installed straight, plumb and level without springing or twisting, and securely fastened in place in accordance with manufacturer details and appropriate building codes. Windows are to be caulked with a suitable compound and using appropriate joint design to accomplish a thoroughly water-tight installation around the interior and exterior perimeter of the window frame and wall opening. Intersecting joints, mullions, and panning must be sealed to address field conditions.