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/A440-05

Structural Rating:
AP-HC 80 @ 60" x 36"
Outward Projecting

Uniform Structural Load:
120 psf

Water Resistance:
@ 15 psf: No Entry

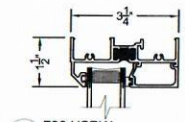
Air Infiltration:
@ 6.24 psf: .10 cfm

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

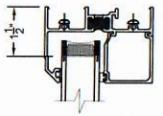
Specifications

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 weathertight. Corners of frame are closely fitted, telescoped, butt-jointed and tightly joined by mechanical means. Ventilator sections will be double weather-stripped, with flexible EDPM 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 in-tended 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.

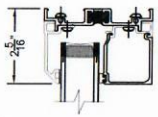


1 700 HSRW
Fixed Frame

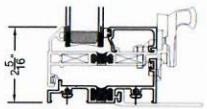
1a 700 HSRW
Assembled Fixed Frame



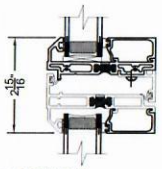
1b 700 HSRW
LG. FIXED FRAME



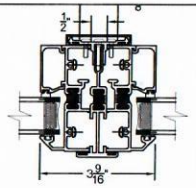
1c 700 HSRW
Assembled
lg. Fixed Frame



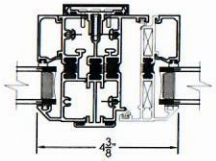
2 700 HSRW
Vent @ Sill
Cam Lock Shown



3 700 HSRW
Vent @ Horizontal Mullion

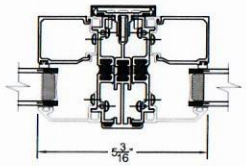


4 700 HSRW
Fxd / Fxd @ 3 Pc. Mullion

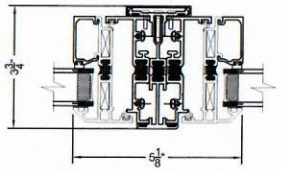


5 700 HSRW
Vent / Fxd @ 3Pc.Mullion

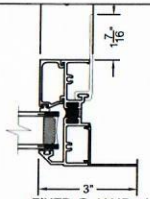
6 700 HSRW
Center Vent @ Vertical Mullion



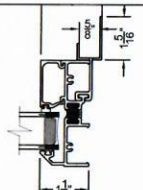
7 700 HSRW
Lg.Fxd / Lg.Fxd@ 3Pc. Mullion



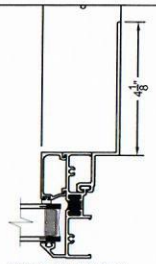
8 700 HSRW
Vent / Vent @ 3Pc. Mullion



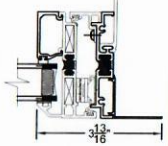
FIXED @ JAMB w/
FLANGE &
STRAP ANCHOR



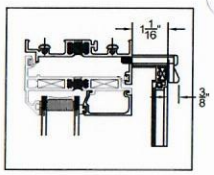
FIXED @ JAMB w/
DRYWALL
STRAP ANCHOR

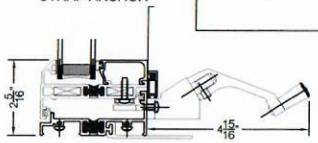


FIXED @ JAMB w/
EXTENDED OFFSET
STRAP ANCHOR

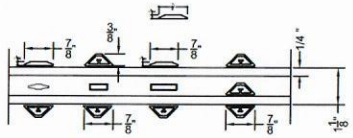


VENT @ JAMB w/
FLANGE &
STRAP ANCHOR

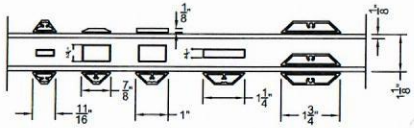




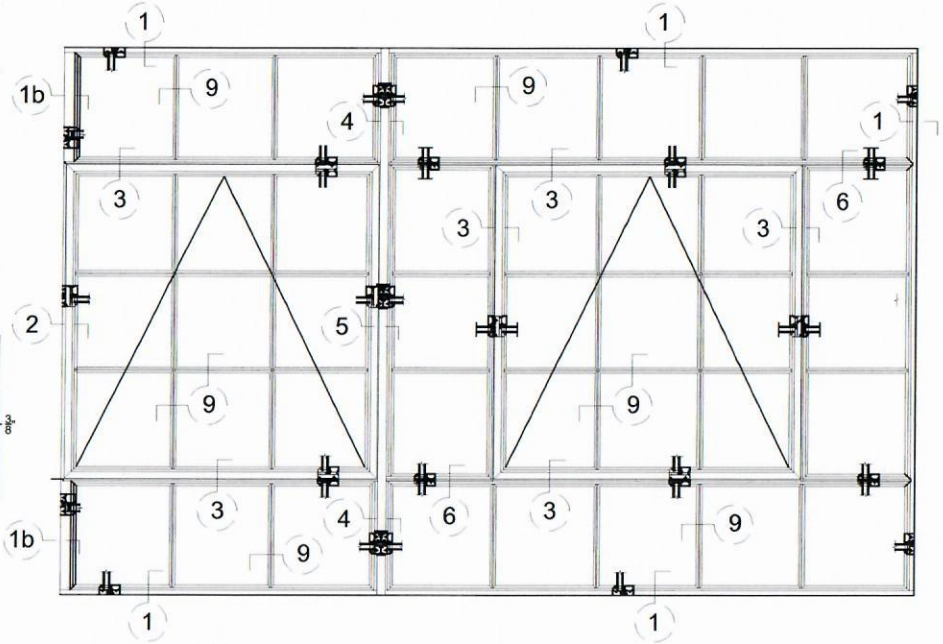
VENT w/ ROTO OPERATOR
STRAP ANCHOR

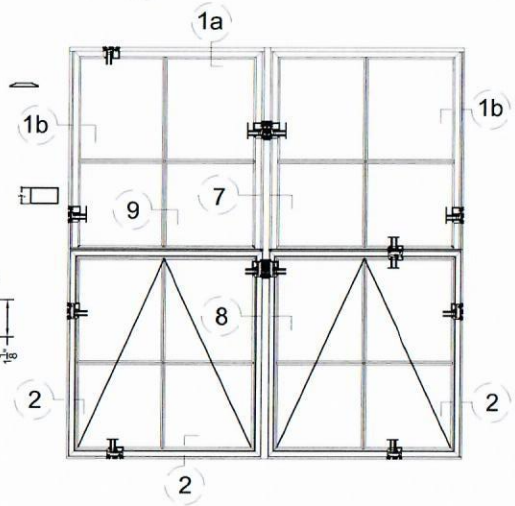


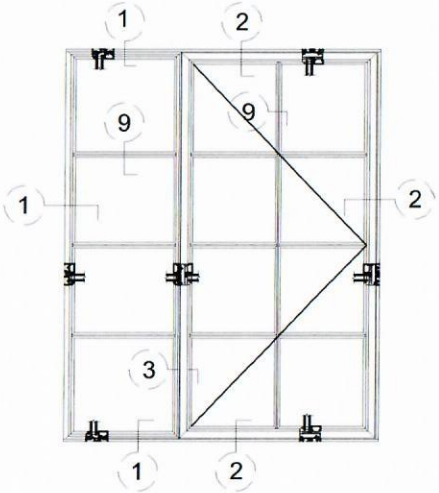
9 700 HSRW
Ext. Applied / GBG



9a 700 HSRW
OPTIONAL Ext. APPLIED MUNITNS







UNIVERSAL

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PROJECT NAME
700 STEEL WINDOW
DETIALS

CLIENT

PROJECT TEAM

REVISIONS

#	SUBJECT	DATE
1		
2		
3		
4		
5		
6		
7		
8		

DRAWING INFORMATION
FEB. 29, 2012
SIZE OF SHEET
DESCRIPTION
SCALE
PROJECT #
FILE NAME
FLM
SHEET #

DRAWING NUMBER
W-1