EFCO CORPORATION

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Series 3903 Thermal 3 ¼" Heavy Commercial Projected Window

Manufacturer

0f

Architectural

And

Commercial

Grade

Windows,

Curtain Walls,

Entrances,

And

Storefronts

EFCO CORPORATION 1000 COUNTY RD MONETT, MO 65708 800.221.4169 Configurations Project-In • Project-Out • Casement In • Casement Out • Fixed

Series 3903 retains an AAMA Heavy Commercial and Architectural Grade rating to meet the most demanding specifications. Designed for educational, institutional and high-rise residential, the 3903 window system is an attractive product for a wide range of applications. Multiple glazing options provide flexibility to meet specific design requirements. E-Strut[™] thermal isolators provide outstanding thermal performance and dual finish capability. Offered with a complete line of sub frames, mullions and architectural sills, the 3903 window provides the complete solution for your fenestration needs.

Features	Benefits
E-Strut [™] thermal isolator	Allows dual finish capability Improved thermal performance Completely eliminates dry shrinkage
Accommodates glazing units from \mathscr{H}_{6} " to 2" depth	Expands design and energy savings options
Dual glazing with optional integral blinds	Improved energy savings and interior light or privacy control with low maintenance
Wide variety of locking and operating hardware available	Permits hardware options to address specific requirements
Angle reinforced vent corners	Improves sash/vent rigidity
Accessory line of subframes, mullions, and architectural sills	Allows custom designs with standard product
Anodized and painted finishes available	Unlimited options to answer economic and aesthetic concerns

Series 3903 Thermal 3 ¼" Heavy Commercial Projected Window



Performance Data

Projected Architectural Grade										
AAMA Rating (NAFS-02)	AP-AW85									
Air Infiltration	<.10 cfm/sf @ 6.24 psf									
Water	No Leakagbe @ 15.0 psf									
Structural	±127.5 psf									
CRF-Frame (1503-98)										
CRF-Glass (1503-98)										
U-Value (1503-98)										
U-Value (NFRC-97)										

Casement Arch	itectural Grade
AAMA Rating (NAFS-02)	C-AW100
Air Infiltration	<.10 cfm/sf @ 6.24 psf
Water	No Leakage @ 15.0 psf
Structural	±150.0 psf
CRF-Frame (1503-98)	
CRF-Glass (1503-98)	
U-Value (1503-98)	
U-Value (NFRC-102)	

A = Estimated values and/or designations

B = Non-standard size or configuration

C = Dual glazed

- $\begin{array}{l} \mathsf{E} = 0 & \mathsf{grange} \\ \mathsf{E} = 1^{''} \; \mathsf{Insulated} 1/4^{''} \; \mathsf{clear} \\ \mathsf{E} = 1^{''} \; \mathsf{Insulated} 1/4^{''} \; \mathsf{clear} \; \mathsf{(Low Emissivity)}, 1/2^{''} \; \mathsf{air}, 1/4^{''} \; \mathsf{clear} \\ \mathsf{F} = 1^{''} \; \mathsf{Insulated} 1/4^{''} \; \mathsf{clear} \; \mathsf{(Low Emissivity)}, 1/2^{''} \; \mathsf{argon}, 1/4^{''} \; \mathsf{clear} \\ \end{array}$
- G = 1" Insulated 1/4" clear, 1/2" air, 1/4" clear (Low Emissivity)

S-3903 Hardware Chart	Butt Hinges	4-Bar Arms	Friction Adjuster	Key Release Limit Arm	Rotor Operator*	Cam Handle	Pole Ring Cam Handle	Pole Ring Pull**	Access Controlled Lock	Lift Lock
Project-In		S				S	0		0	
Project-Out		S				S	0	0	0	
Casement Inswing With 4-Bar Arms		S				S	0		0	
Casement Outswing With 4-Bar Arms		S				S	0		0	0
Casement InswingWith Butt Hinges	S		0	0		S	0		0	
Casement Outswing With Butt Hinges	S		S	0	0	S	0		0	0

S-3903 Glazing Chart		Polycarbonate				Glass or Panel														
					1/8"	.156"*	3/16"	.200"*	1/4"	1/4"**	1/2"	5/8"	3/4"	7/8"	1"	1-1/8"	1-1/4"	1-1/2"	1-3/4"	2"
Monolithic & Insula	ated Glass		A	A	A A A A A A A A A A A A A A					Α	Α									
Dual Glazing	Exterior Lite		I	I			I	1	I	1		I		I						
	Interior Lite						Α	A	Α											

Some size restrictions may apply depending on hardware selected. *-Casements requiring roto operators will be furnished with lift locks, providing vents meet minimum width requirements. **-Pole ring pull will be furnished on project-out vents when optional pole ring cam handle is selected.

0 -Optional S -Standard blank - N/A

*-Obscure Glass Thickness **-Laminated Glass Thickness A -Available Glazing Option I -Internal Blinds Can Be Used With This Type of Dual Glazing blank - N/A



Main Frame Construction

The frame is constructed from .125" nominal material wall thickness aluminum of 6063-T6 alloy with a depth of 3 1/4". An equal leg frame is standard. Corners are of screw spline construction and back sealed with a small-joint seam sealer. See Illustration 1.

Vent Frame Construction

The 2 7/16" deep vent consists of tubular aluminum members with .125" nominal material wall thickness of 6063-T6 alloy. Vent corners are mitered, angle reinforced, crimped, cold epoxy welded, and back sealed with a small-joint seam sealer. See Illustration 2.

Weather Stripping

All vents are dual weather-stripped with a dual-durometer Santoprene® gasket. Exterior gasket is intentionally omitted at vent bottom rail for project-out vents and at the vent top rail for project-in vents, allowing air to pressure equalize the void between the vent and frame. Each vent utilizes the pressure equalization technique for superior water resistance performance. Two holes or slots per vent through the window frame facilitate weepage.

Screens

Full width hinged wickets or fully hinged screens are available. Screen frames are extruded 6063-T6 aluminum alloy frames. 18 x 16 mesh screens are available in fiberglass and .011" diameter aluminum. 18 x 18 mesh screens are available in .009" diameter stainless steel.

Thermal Barrier

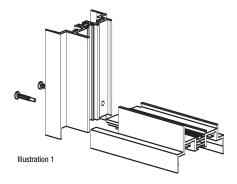
All frames and vents are thermally isolated with two thermal struts consisting of glass reinforced polyamide nylon, mechanically crimped in raceways extruded in the exterior and interior extrusions.

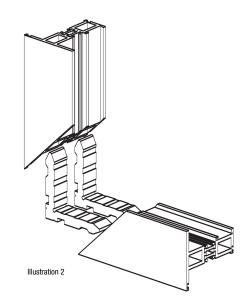
Hardware

Locking cam handles, access controlled locks, and keepers are of cast white bronze in a US25D finish. 4-bar arms are fabricated from stainless steel meeting AAMA 904.1 requirements. But hinges are fabricated from extruded aluminum of 6063-T6 alloy with stainless steel pins. See Hardware Chart for available hardware types.

Glazing

Windows are inside glazed with an extruded aluminum snap-in glazing bead. Glazings of 3/16" to 2" can be accommodated. Dual glazing is also available in 3/16" and 1/4" glass. Aluminum blinds between the glass are available with dual glazed windows. See the Glazing below for the exact size.





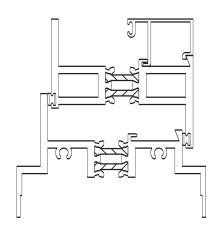
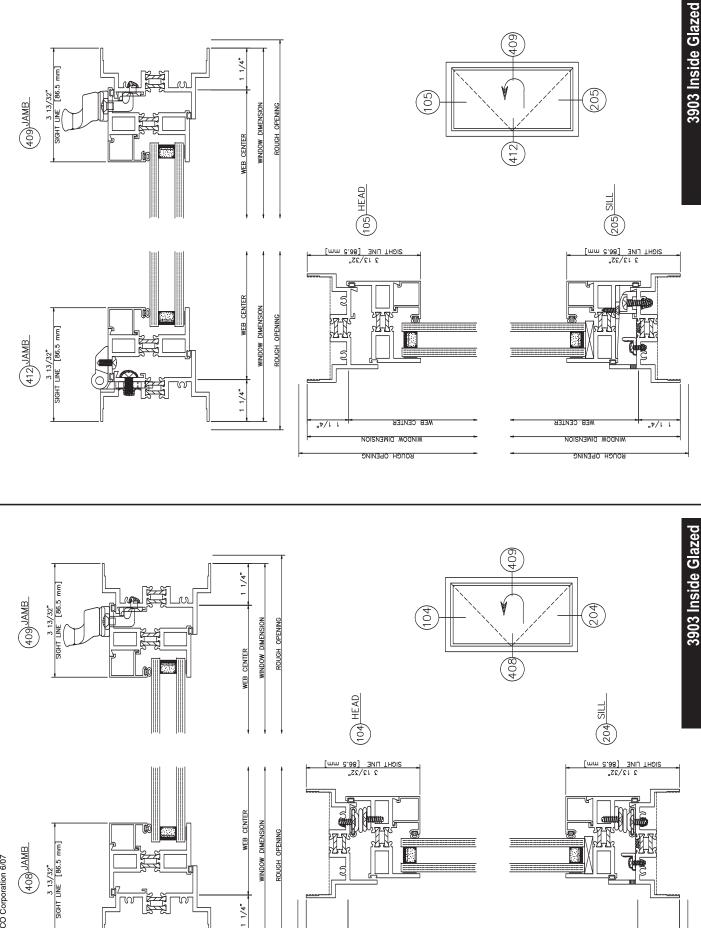


Illustration 3

Casement In • Left Swing • Butt hinge • Cam Locks



NEB CENTER

NINDOM DIMENSION

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"4/I I

NEB CENTER

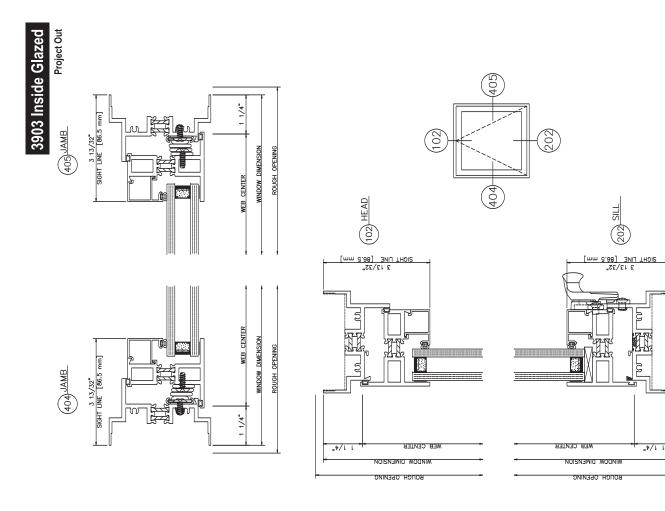
MINDOM DIMENSION

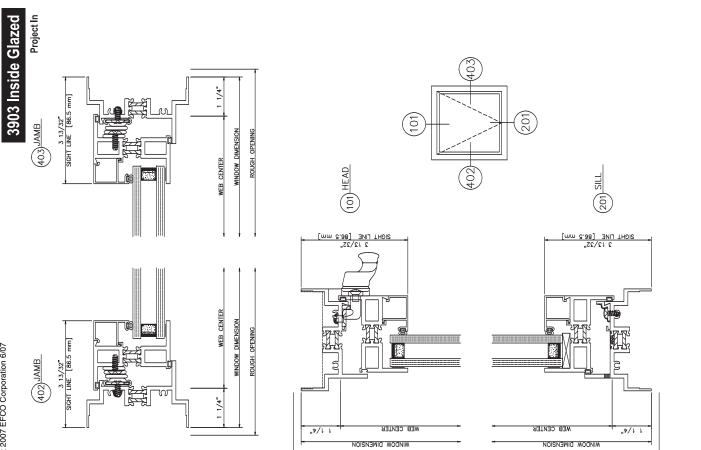
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Casement In • Left Swing • 4 Bar Arms • Cam Locks



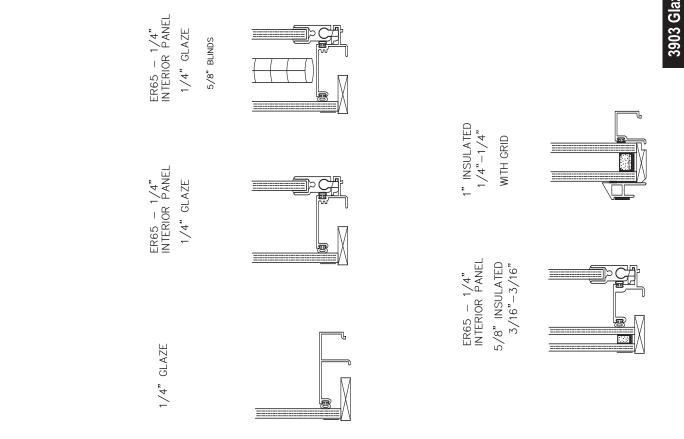


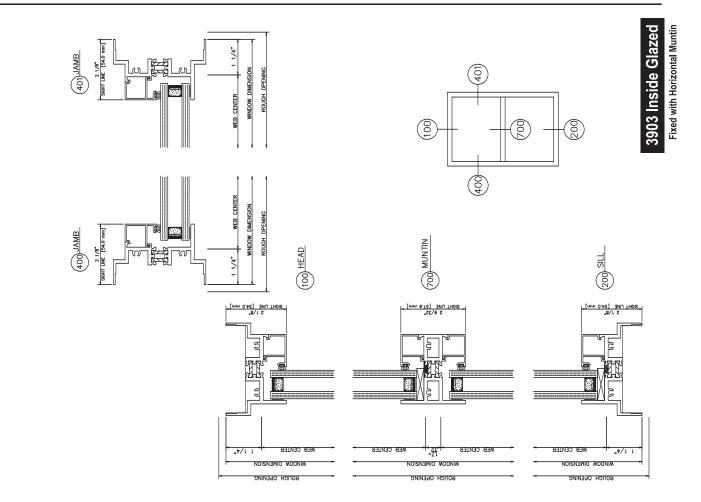
ROUGH OPENING

ROUGH OPENING

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3903 Glazing





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