IMPACT GRADE

BLAST GRADE



Series 2800 Non-Thermal • Series 2900 Thermal* 4 1/2" Heavy Commercial Projected Window

*BLAST & IMPACT GRADE

Manufacturer

E F C O

0f

Architectural

And

Commercial

Grade

Windows,

Curtain Walls,

Entrances,

And

Storefronts

EFCO CORPORATION 1000 COUNTY RD MONETT, MO 65708 800.221.4169

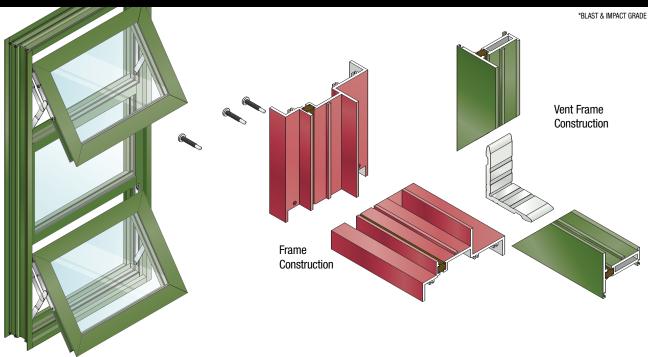
Configurations Project-In and Project-Out • Casement • Fixed

Series 2800 carries an AAMA Heavy Commercial and Architectural Grade rating to meet the most demanding specifications. Designed for educational, office or healthcare facilities, the 2800 window system is an attractive product for a wide range of applications. Multiple glazing options provide flexibility to meet specific design requirements. Offered with a complete line of sub frames, mullions and architectural sills, the 2800 window provides the complete solution for your fenestration needs.

Features	Benefits
Series 2900 only - Thermal barrier in vent and frame	Enhances energy saving potential Improved thermal performance
Vertical or horizontal stacking members	Increases configuration options
Dual glazing with optional integral blinds	Improved energy savings and interior light or privacy control with low maintenance
Angle reinforced vent corners	Improves sash/vent rigidity
Wide variety of locking and operating hardware available	Permits hardware options to address specific requirements
Pressure equalization	Superior water resistance
Screen frames of extruded aluminum alloy are available	Stronger more durable screens
Anodized and painted finishes available	Unlimited options to answer economic and aesthetic concerns
Accessory line of subframes, mullions, and architectural sills	Allows custom designs with standard product



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Performance Data

Projected Arch	itectural Grade
AAMA Rating (A440-05)	
Air Infiltration	<.10 cfm/sf @ 6.24 psf
Water	No Leakege @ 15.0 psf
Structural	
CRF-Frame (1503-98)	
CRF-Glass (1503-98)	
U-Value (1503-98)	

A = Estimated values and/or designations

B = Non-standard size or configuration

 $C = Dual \ glazed$

D = 1" Insulated - 1/4" clear, 1/2" air, 1/4" clear E = 1" Insulated - 1/4" clear (Low Emissivity), 1/2" air, 1/4" clear

F = 1" Insulated - 1/4" clear (Low Emissivity), 1/2" air, 1/4" clear F = 1" Insulated - 1/4" clear (Low Emissivity), 1/2" argon, 1/4" clear

G = 1" Insulated - 1/4" clear, 1/2" air, 1/4" clear (Low Emissivity)

Casement Architectural Grade

AAMA Rating (A440-05)	
Air Infiltration	<.10 cfm/sf @ 6.24 psf
Water	No Leakage @ 12.0 psf
Structural	±120.0 psf
CRF-Frame (1503-98)	
U-Value (1503-98)	

S-2900 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

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

S-2900						Glass or Panel														
Glazing Chart		1/8"	3/16"	1/4"	"								1-1/8"	1-1/4"	1-1/2"	1-3/4"	2"			
Monolithic & Insula	ated Glass	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α			
Dual Glazing	Exterior Lite	I	I	I	I	I	ı	I	I	I	I	Α	Α							
Dual diazing	Interior Lite						Α	Α	Α											

*-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

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Frame Construction

The frame is constructed from .125" nominal material wall thickness aluminum of 6063-T6 alloy with a depth of 4 1/2". It features a standard equal leg frame. Corners are of screw spline construction and back sealed with small-joint seam sealer. See Illustration 1.

Vent Frame Construction

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

Weather Stripping

All vents are dual weather-stripped with a dual durometer Santoprene® gasket. The exterior gasket is intentionally omitted at the 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

Screen frames are extruded 6063-T6 aluminum alloy frames. Full width hinged wickets or fully hinged screens are available. 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 improved using the latest technology in two part high density polyurethane. See Illustration 3.

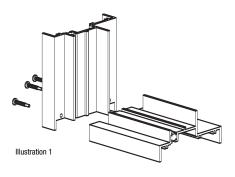
Hardware

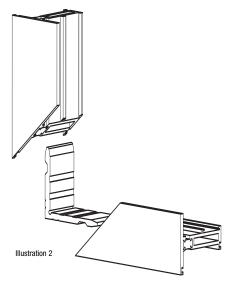
Locking cam handles, access controlled locks, and keepers are of cast white bronze with a US25D finish.

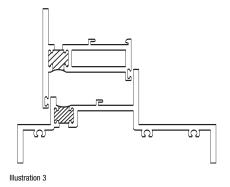
4-bar hinges are fabricated of stainless steel meeting AAMA 904.1 requirements. Butt hinges are fabricated from extruded aluminum of 6063-T6 alloy with stainless steel pins. See the Hardware Chart for available hardware types.

Glazing

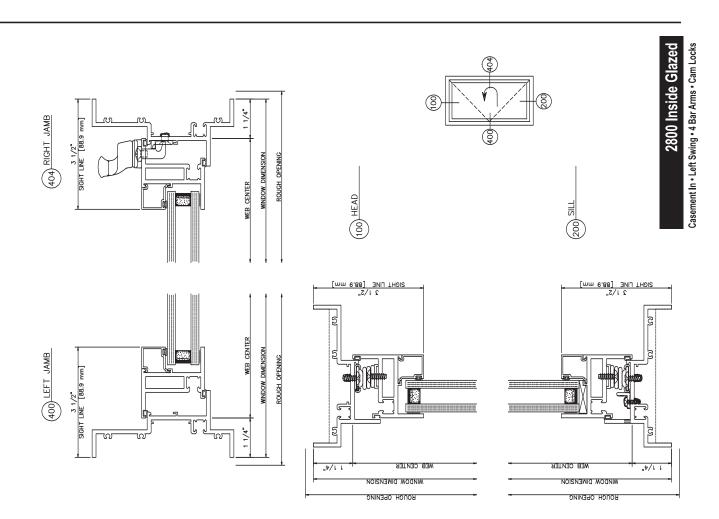
Windows are inside glazed with an extruded aluminum, snap-in glazing bead. Glazings of 1/8" to 1-1/4" can be utilized. Dual glazing is also available in 1/8", 3/16", and 1/4" glass. Aluminum blinds between the glass are available with dual glazed windows. See the Glazing Chart for exact size.







Casement In • Left Swing • Butt Hinges • Cam Locks

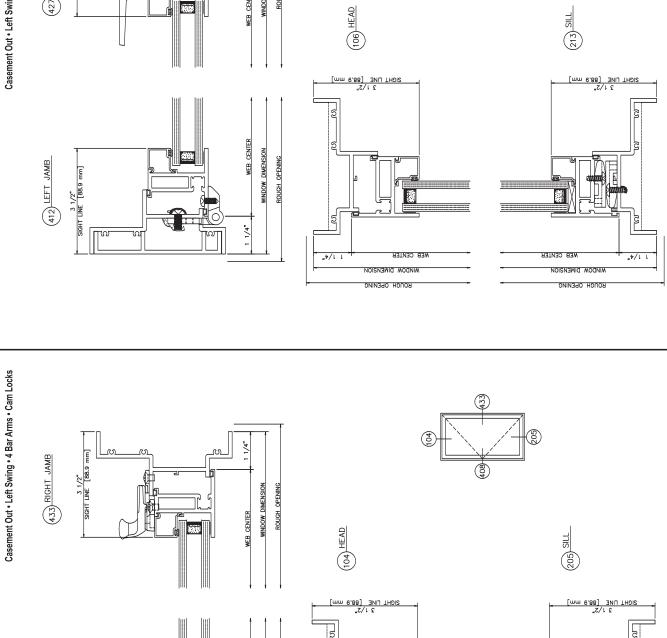


3 1/2" SIGHT LINE [88.9 mm]

(427) RIGHT JAMB

(408) LEFT JAMB

3 1/2" SIGHT LINE [88.9 mm]



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MINDOM DIMENSION

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MINDOM DIWENSION ROUGH OPENING "Þ/l l

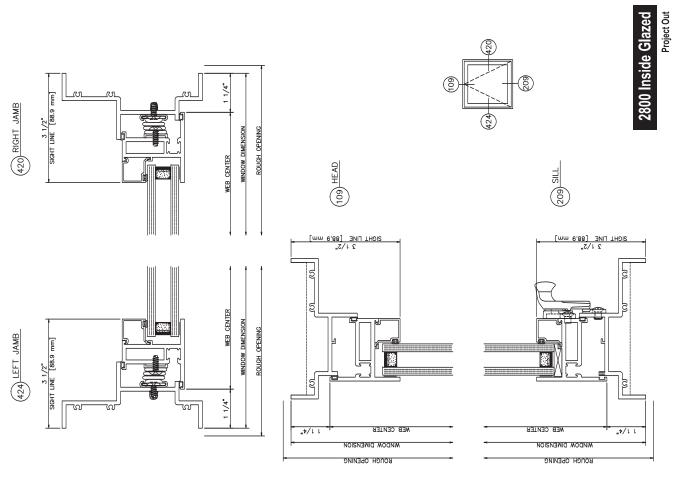
1 1/4"

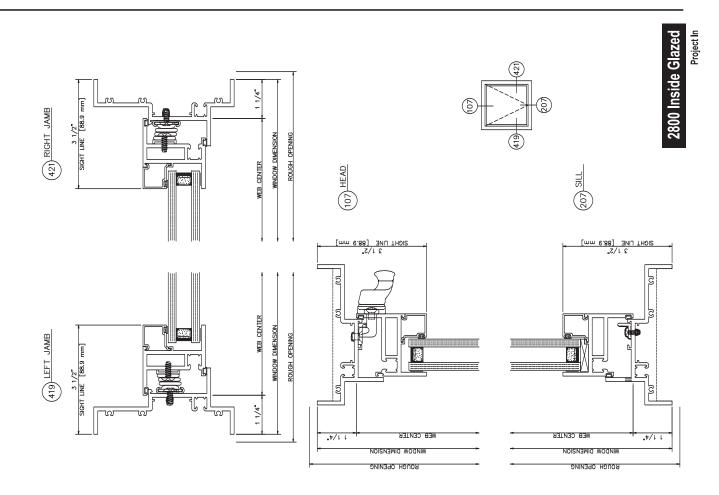
WEB CENTER

WEB CENTER

WINDOW DIMENSION ROUGH OPENING

WINDOW DIMENSION ROUGH OPENING





(426) RIGHT JAMB

(425) LEFT JAMB

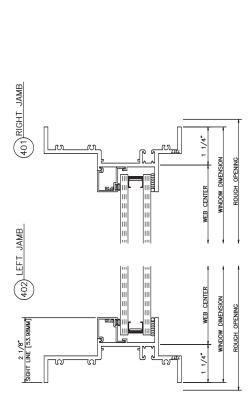
1 1/4"

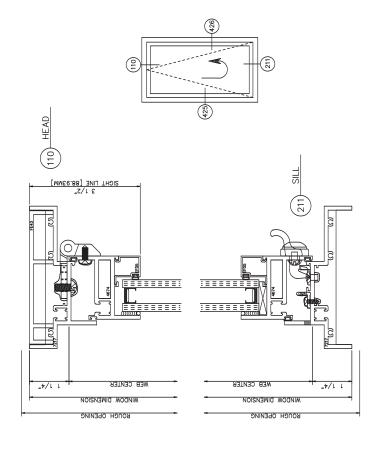
WEB CENTER

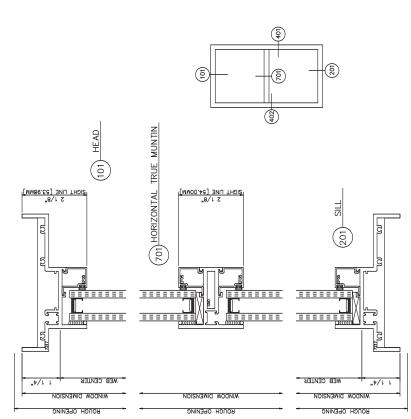
WEB CENTER WINDOW DIMENSION ROUGH OPENING

1 1/4"

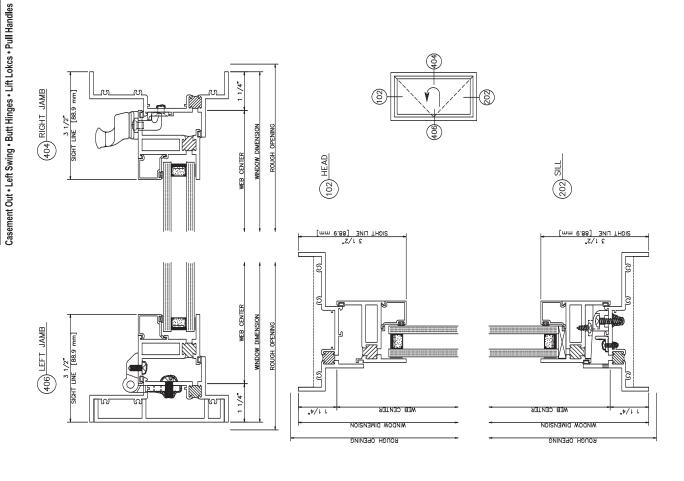
WINDOW DIMENSION ROUGH OPENING

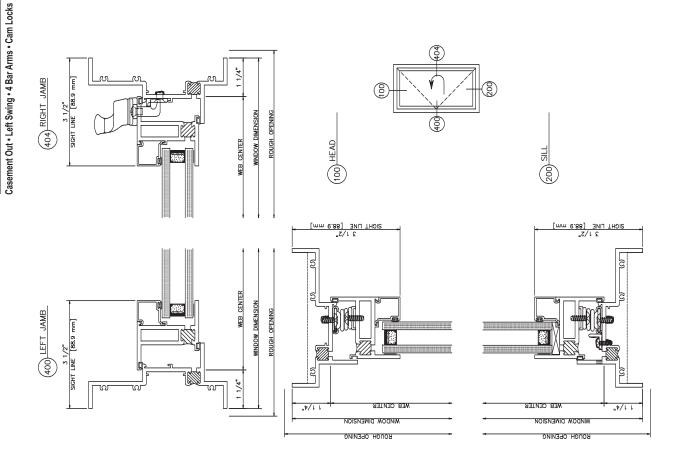


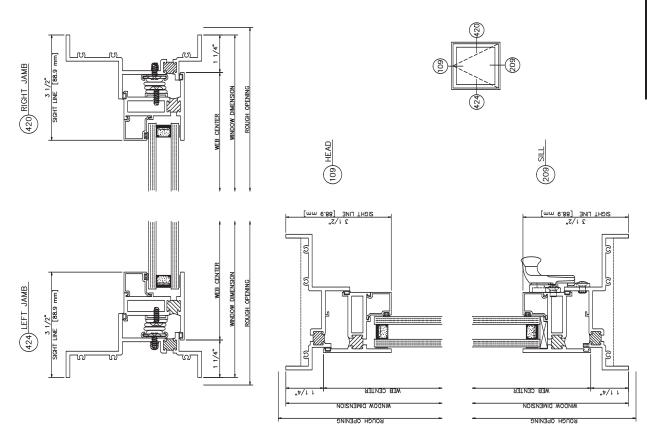


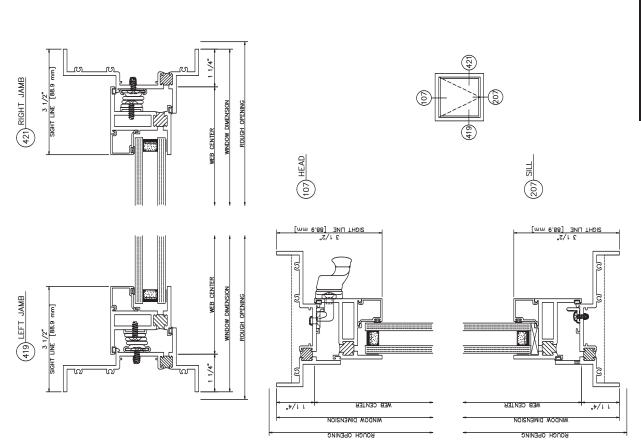


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(401) RIGHT JAMB

(402) LEFT JAMB





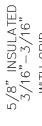
1/4" GLAZE



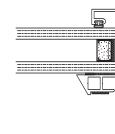
2 1/8" SIGHT LINE [54.0 mm]

2 1/8" SIGHT LINE [54.0 mm]

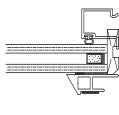
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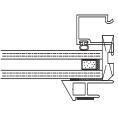


1" INSULATED 1/4"-1/4" WITH GRID

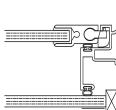


WITH GRID

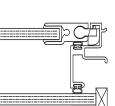












401

402

101

(101) HEAD

2 1/8" [54.0 mm]

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NINDOM DIWENSION

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203

(210) SILL

MEB CENTER

MINDOM DIMENSION вопен оъеиие





1 1/4"

WEB CENTER

WEB CENTER

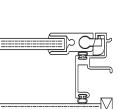
1 1/4"

WINDOW DIMENSION ROUGH OPENING

ROUGH OPENING WINDOW DIMENSION







2900 Inside Glazed

Fixed

