



Manufacturer
Of
Architectural
And
Commercial
Grade
Windows,
Curtain Walls,
Entrances,
And
Storefronts

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MONETT, MO 65708
800.221.4169



Series 550-I Thermal 2 7/16" Heavy Commercial Projected Flush-Face Window

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

Series 550-I retains an AAMA Heavy Commercial and Architectural Grade rating to meet the most demanding specifications. Designed for educational, office or healthcare facilities, the 550-I window system is an attractive product for a wide range of applications. Multiple glazing options provide flexibility to meet specific design requirements. Thermal barriers in the frame and sash improve thermal performance enhancing your energy saving potential. Offered with a complete line of sub frames, mullions and architectural sills the 550-I window provides the complete solution for your fenestration needs.

Features

E-Strut™ thermal isolator

Vertical or horizontal stacking members

Dual glazing with optional integral blinds

Pressure equalization

Angle reinforced vent corners

Wide variety of locking and operating hardware available

Accessory line of subframes, mullions, and architectural sills

Anodized and painted finishes available

Benefits

Improves U-Value performance
Dual finish capability
Completely eliminates dry shrinkage

Increases configuration options

Improved energy savings and interior light or privacy control with low maintenance

Superior water resistance

Improves sash/vent rigidity

Permits hardware options to address specific requirements

Allows custom designs with standard product

Unlimited options to answer economic and aesthetic concerns



AAMA Rating (A440-05)	AP-AW85
Air Infiltration	<10 cfm/sf @ 6.24 psf
Water	No Leakage @ 12.0 psf
Structural	±127.5 psf
CRF-Frame (1503-98)	55°
CRF-Glass (1503-98)	60°
U-Value (1503-98)	.52°
U-Value (NFRC-102)	.52°

AAMA Rating (101-97)	C-HC90
Air Infiltration	<10 cfm/sf @ 6.24 psf
Water	No Leakage @ 12.0 psf
Structural	±135.0 psf
CRF-Frame (1503-98)	52°
CRF-Glass (1503-98)	60°
U-Value (1503-98)	.55°
U-Value (NFRC-102)	.53°

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

AAMA Rating (101-97)	C-AW80
Air Infiltration	<.10 cfm/sf @ 6.24 psf
Water	No Leakage @ 12.0 psf
Structural	±120.0 psf
CRF-Frame (1503-98)	52°
CRF-Glass (1503-98)	60°
U-Value (1503-98)	.55°
U-Value (NFRC-102)	.53°

A-Available Glazing Option
I-Internal Blinds Can Be
Used With This Type of Dual
Glazing
blank - N/A

[illegible]

Series 550-I Thermal 2 7/16" Heavy Commercial Projected Flush-Face Window



Main Frame Construction

The frame is constructed from .125" nominal material wall thickness aluminum of 6063-T6 alloy with a depth of 2 7/16". 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. Vents present a flush appearance with the frame in the closed position. 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 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.

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 in .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 which consist of glass reinforced polyamide nylon, mechanically crimped in raceways extruded in the exterior and interior extrusions. See Illustration 3.

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. Butt 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. Glazing of 3/16" to 2" can be accommodated. Dual glazing is also available in 1/8", 3/16", and 1/4" glass. Between the glass aluminum blinds are available with dual glazed windows. See the Glazing Chart for the exact size.

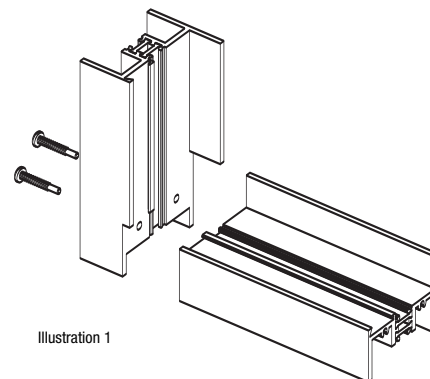


Illustration 1

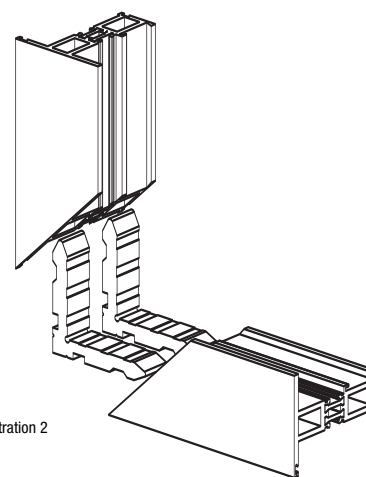


Illustration 2

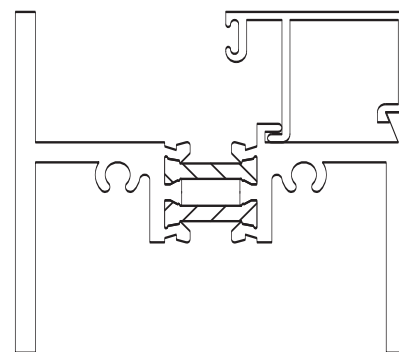
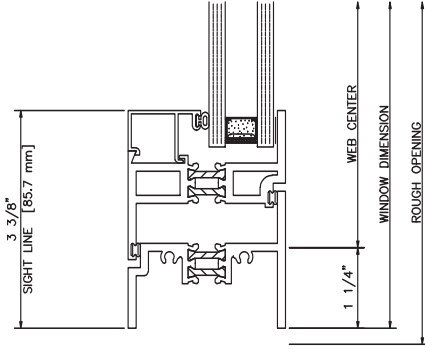
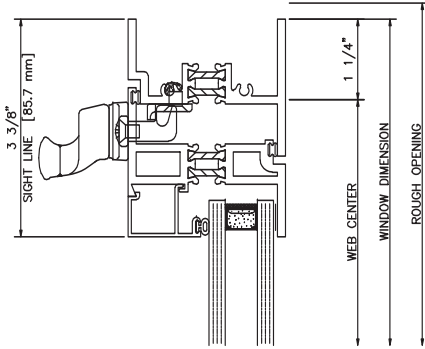


Illustration 3

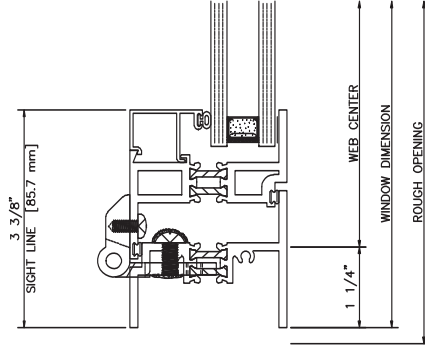
416 JAMB



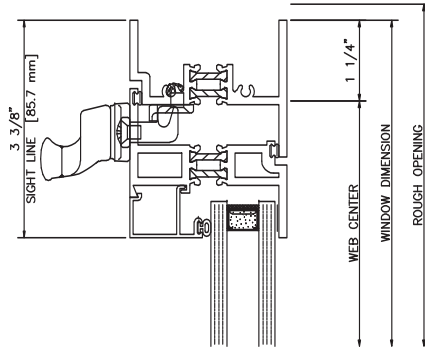
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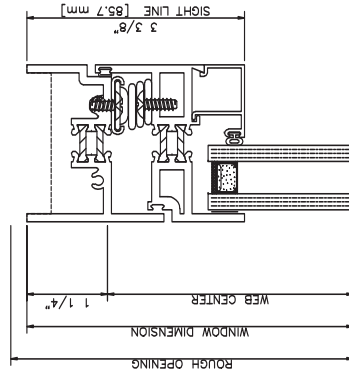
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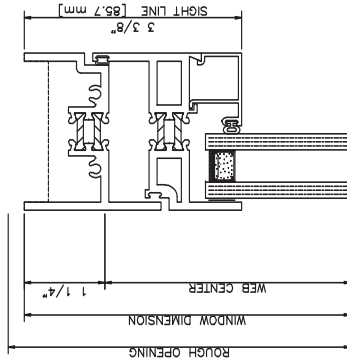
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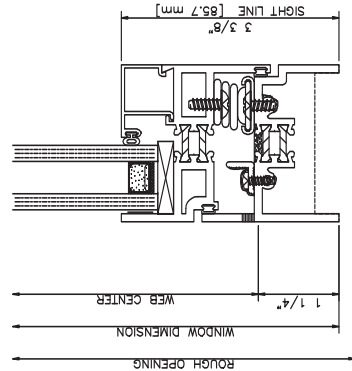
108 HEAD



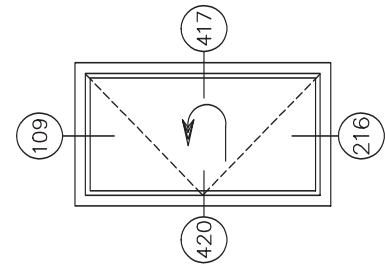
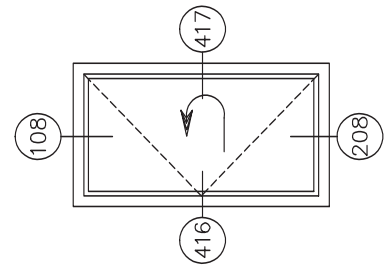
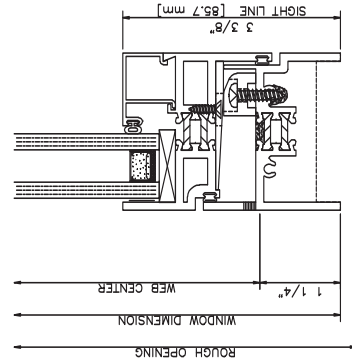
109 HEAD



208 SILL



216 SILL



550-I Inside Glazed

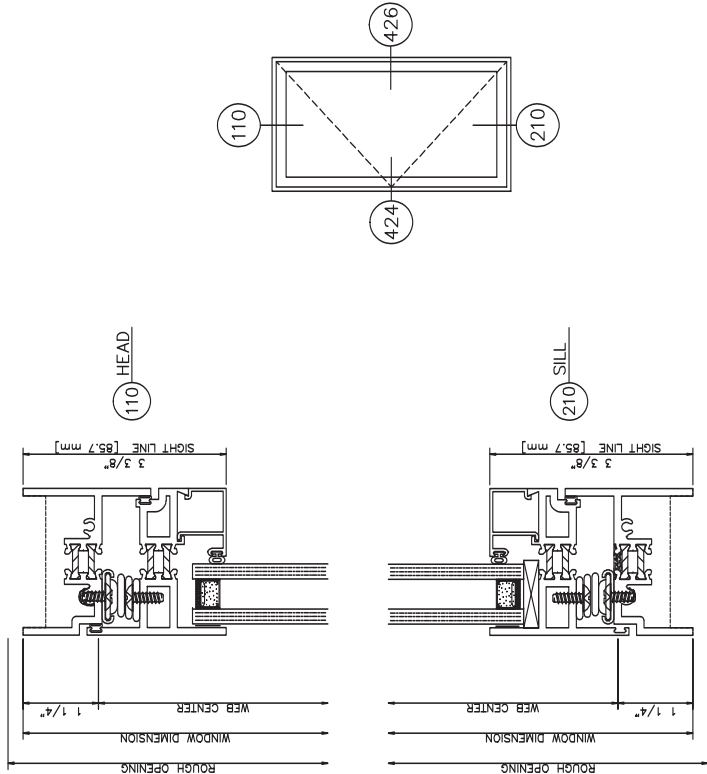
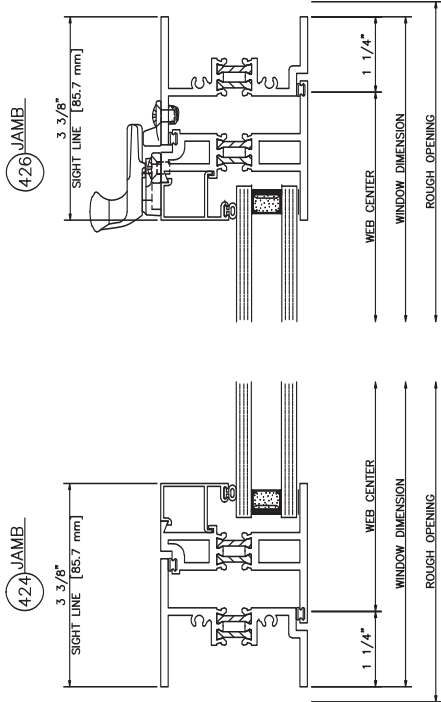
Casement In • Left Swing • 4 Bar Arms • Cam Locks

550-I Inside Glazed

Casement In • Left Swing • Butt Hinge • Cam Locks

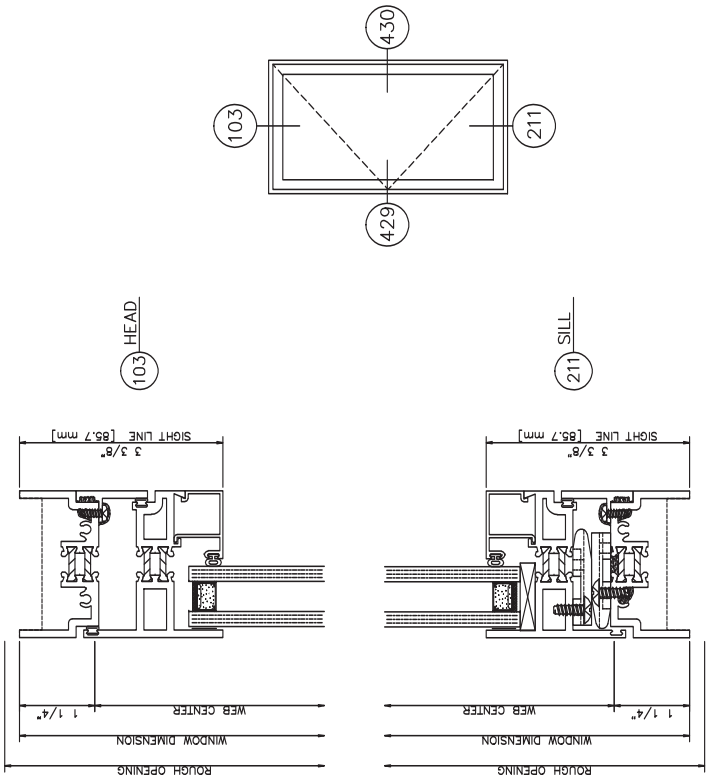
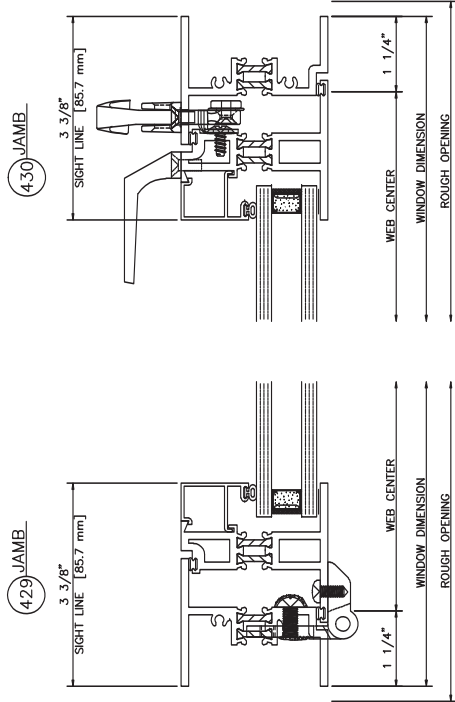
550-I Inside Glazed

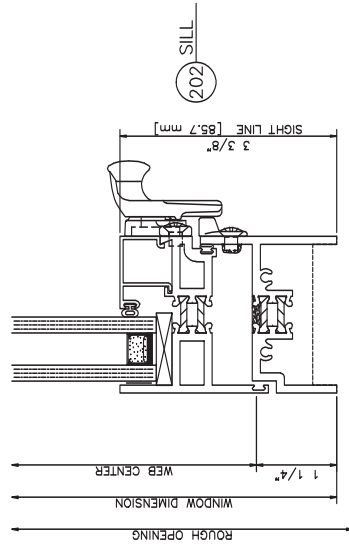
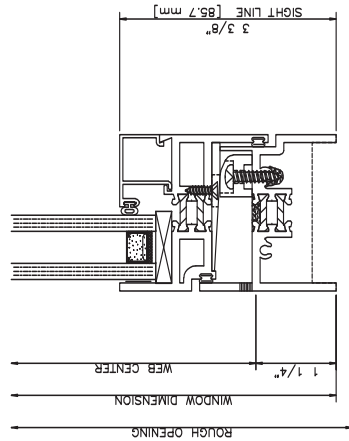
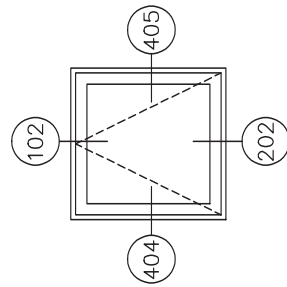
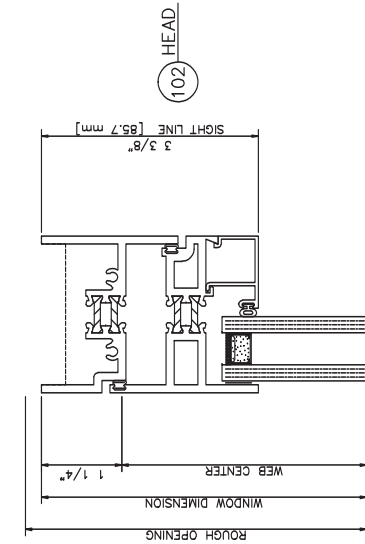
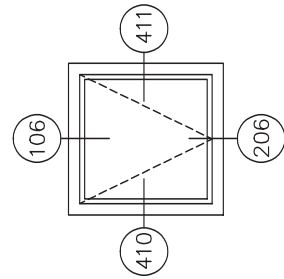
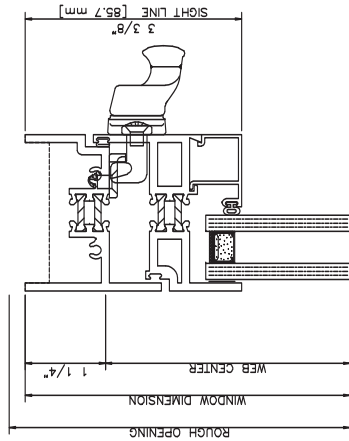
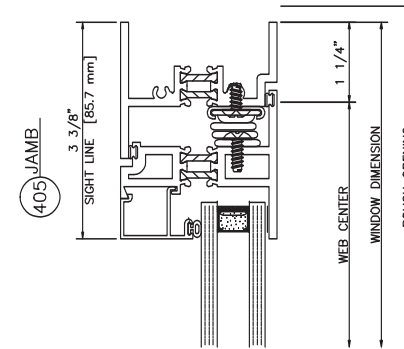
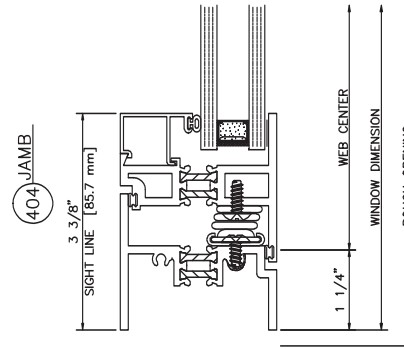
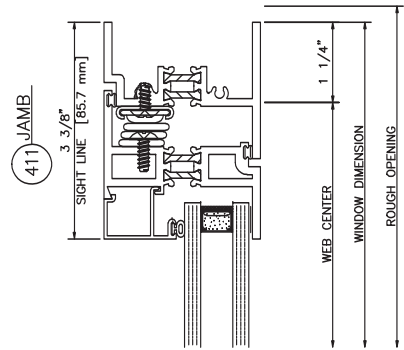
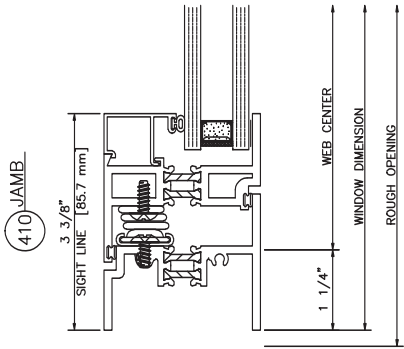
Casement Out • Left Swing • 4 Bar Arms • Cam Locks



550-I Inside Glazed

Casement Out • Left Swing • Butt Hinge • Lift Locks • Pulls





550-I Inside Glazed

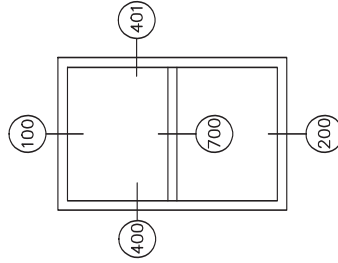
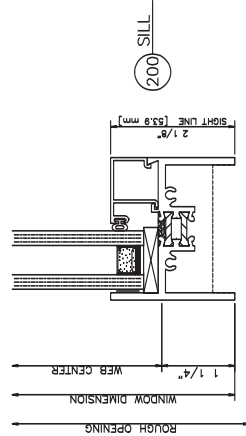
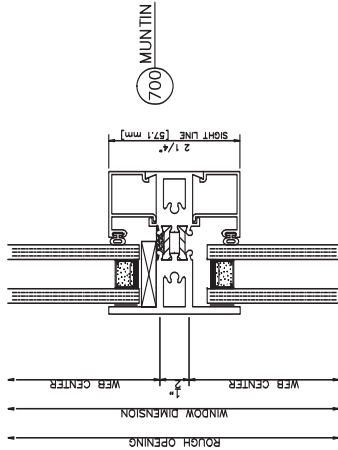
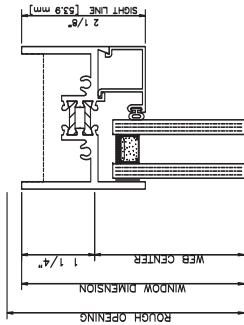
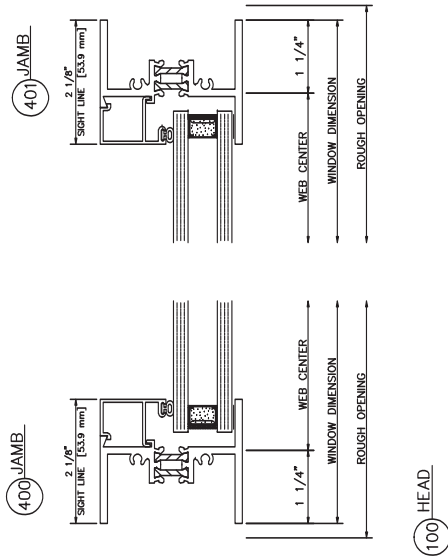
Project In

550-I Inside Glazed

Project Out

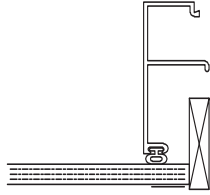
550-I Inside Glazed

Fixed

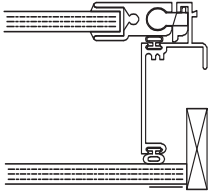


550-I Glazing

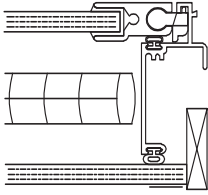
1/4" GLAZE



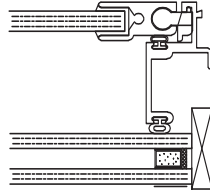
ER65 - 1/4" INTERIOR PANEL
1/4" GLAZE



ER65 - 1/4" INTERIOR PANEL
1/4" GLAZE
5/8" BLINDS



ER65 - 1/4" INTERIOR PANEL
5/8" INSULATED
3/16" - 3/16"



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

