



Series 433 **2" x 4 1/2" Thermal Triple Set™ Storefront Framing**

Configurations Screw Spline • Shear Block

System 433 is a thermally improved storefront framing system. Glass planes can be placed in an outside set, center set or inside set configuration, which gives you design flexibility to meet any multi-plane glazing specification. Series 433 is compatible with all EFCO entrances.

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

Features

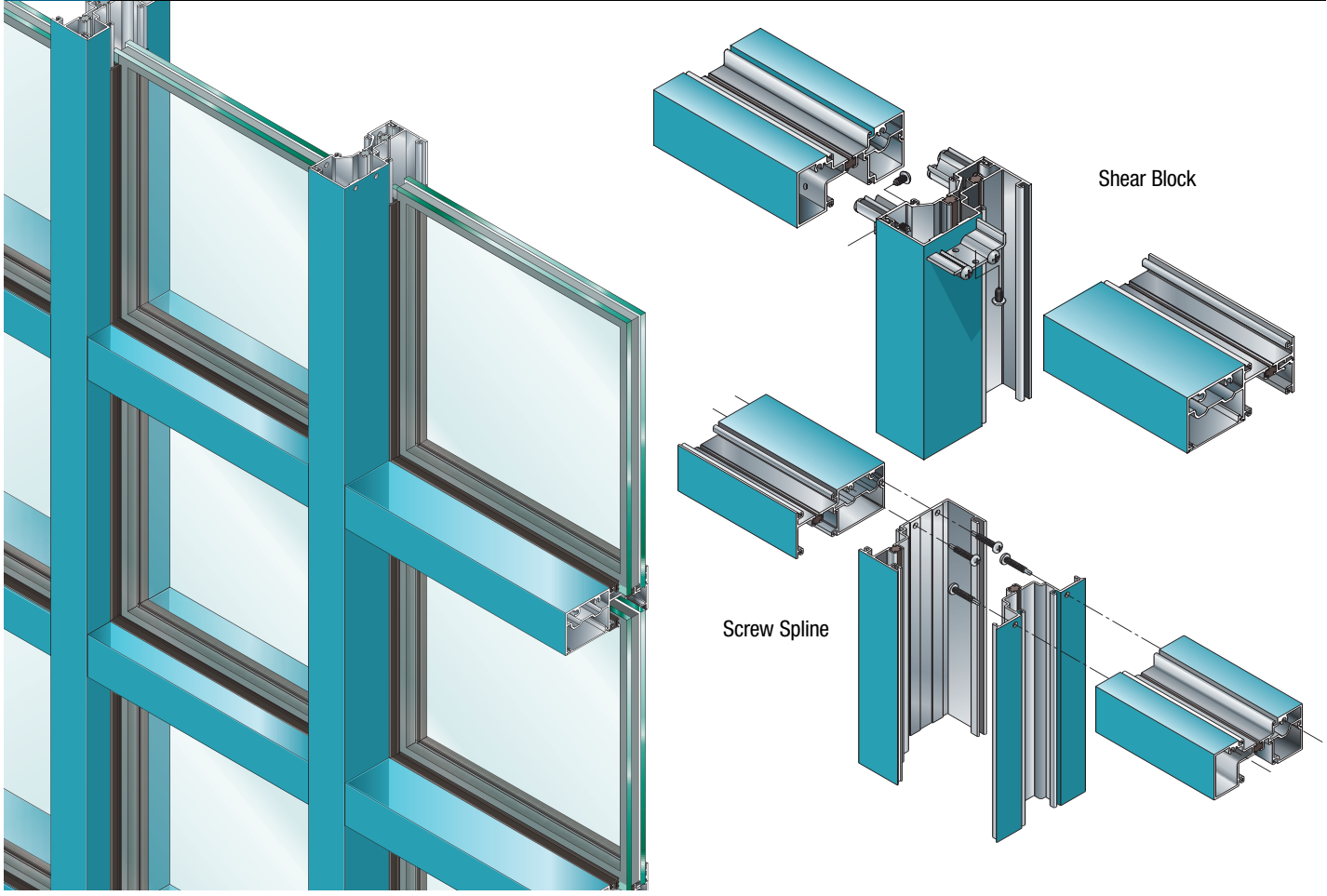
Benefits

Thermally improved frames	Enhanced thermal performance
Three glass planes	Create shadow box effect, match vision of architect
All joints and horizontal mullions are square cut	Facilitates shop fabrication of "ladders" that can be transported as a unit to job sites for quick installation Allows quick fabrication in the field
Door frames will accommodate glass in three planes	Glass plane effect can continue at door frames Accommodates multifaceted elevations
90° and 135° inside and outside corner mullions	Utilizes a common mullion with standard verticals attached to reduce number of dies
All joint fasteners are #12 screws	Strengthens system to allow transportation of ladders without damage to joinery system Simplifies fabrication
Steel is available for mullions as stock steel bars or custom fabricated steel shapes	Eliminates the cost of customer steel fabrication Allows system performance enhancements
Accommodates up to 1 1/8" glazing	Energy savings options
Inside or outside glazing in all glass planes	Allows flexibility of construction methods
Uniform glazing gasket is used for exterior and interior	Allows optimized use of gasket Simplifies ordering and installation
Stock length or fabricated	Provides customers with an option
Anodized or painted finishes available	Unlimited options to answer economic and aesthetic concerns

EFCO CORPORATION
1000 COUNTY RD
MONETT, MO 65708
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Series 433

2" x 4 1/2" Thermal Triple Set™ Storefront Framing



Performance Data

Outside Set/Outside Glazed Screw Spline Configuration

Air Infiltration	<.06 cfm/sf @ 6.24 psf
Water	No Leakage @ 10.0 psf
Structural	See wind load charts
CRF-Frame (1503-98)	.66 ^F
CRF-Glass (1503-98)	.69 ^F
U-Value (1503-98)	.44 ^E
U-Value (NRFC-102)	.41 ^E

Outside Set/Outside Glazed Shear Block Configuration

Air Infiltration	<.06 cfm/sf @ 6.24 psf
Water	No Leakage @ 10.0 psf
Structural	See wind load charts
CRF-Frame (1503-98)	.66 ^{A, E}
CRF-Glass (1503-98)	.69 ^{A, E}
U-Value (1503-98)	.44 ^{A, E}
U-Value (NRFC-102)	.41 ^{A, E}

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" argon, 1/4" clear

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

Inside Set/Outside Glazed Screw Spline Configuration

Air Infiltration	<.06 cfm/sf @ 6.24 psf
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CRF-Frame (1503-98)	.66 ^F
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U-Value (NRFC-102)	.41 ^{A, E}

Glazing

System 433 can be inside or outside glazed with extruded aluminum, snap-in glazing bead. Glass is "dry glazed" with top load EPDM gasket. Glazing of 3/16" to 1-1/16" infill panels are accommodated. See Glazing Chart below for exact size.

System 433 Glazing Chart	Polycarbonate			Glass or Panel												
	3/16"	1/4"	5/16"	3/16"	1/4"	1/4"***	5/16"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	15/16"	1"	1-1/16"
Monolithic Glass	C	C	C	C	C	C	C	C	C	C						
Insulated Glass												C		C	S	C

** - Laminated Glass

Thickness

A - Available Glazing Option

C - Adaptor and/or gasket

required

blank - N/A

Series 433

2" x 4 1/2" Thermal Triple Set™ Storefront Framing



Frame Construction

Members are extruded 6063-T6 aluminum alloy with a nominal wall thickness of .080". Corner constructions employ a screw spline or shear block method and utilize #12 fasteners. Frame members have a face sight line of 2" and frame depth of 4 1/2". See Illustration 1 & 2 for system joinery.

Glass planes can be placed in an outside set, center set, or inside set configuration. Both inside and outside glazing is available. 90° and 135° inside and outside corners are available.

Door Frames

Series 433 offers integral entrance frames in shear block construction. Members are nominally .080" in thickness. A standard entrance header is available as well as an entrance header that is designed for use with concealed overhead closers. Transom lite glazing is accommodated through either applied glass stops and glazing beads or extruded in place glazing pockets. Door stops are available as extruded in place or screw applied configurations.

Weather Stripping

All entrance frames are weather-stripped with EPDM bulb gasket.

Glazing

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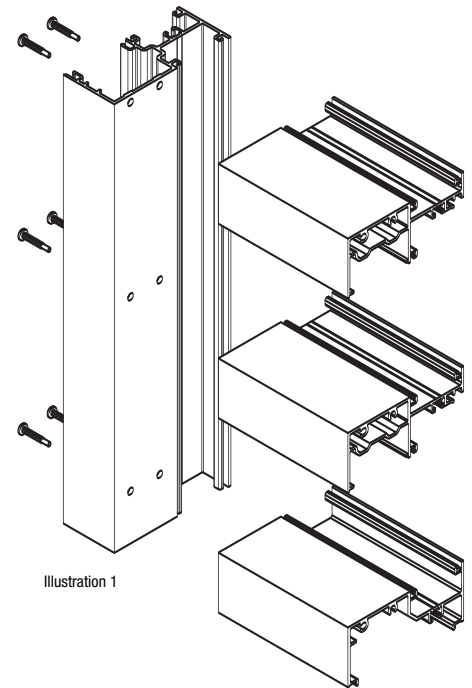


Illustration 1

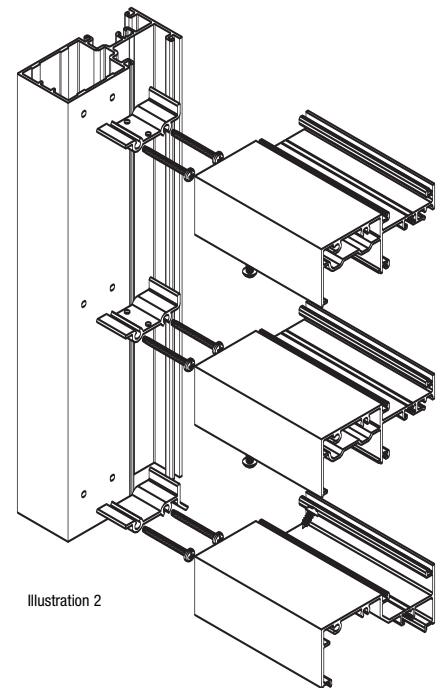
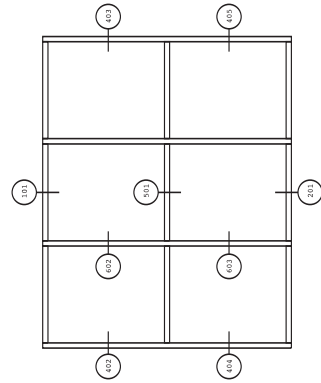
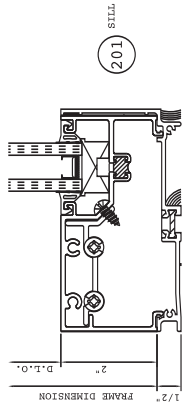
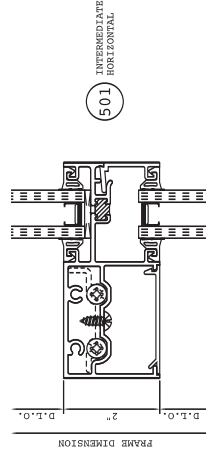
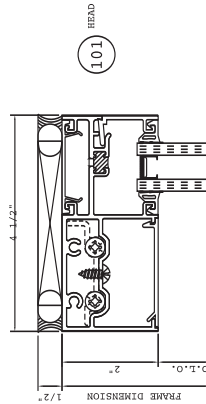
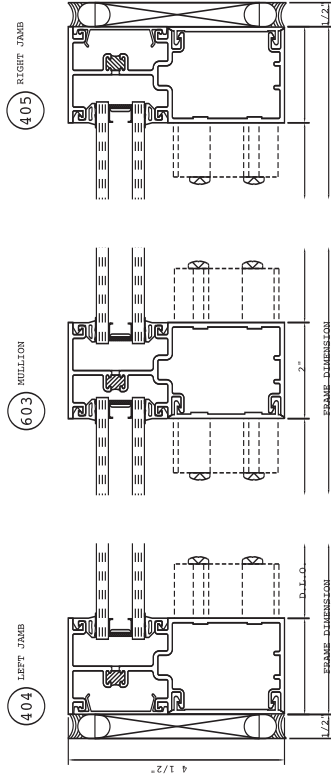
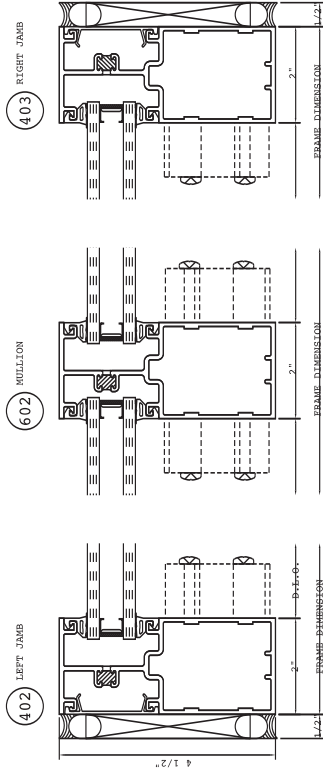
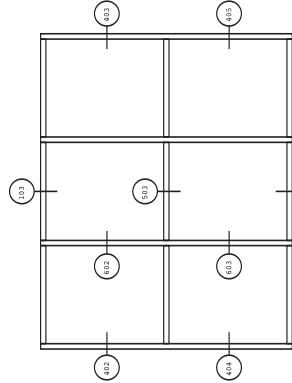
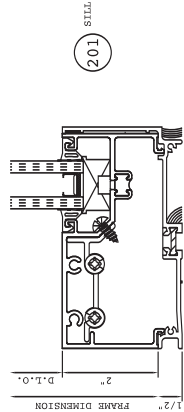
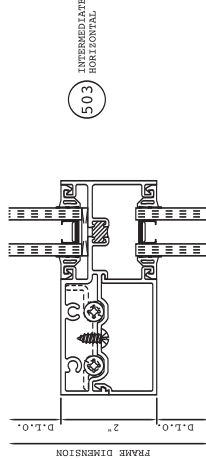
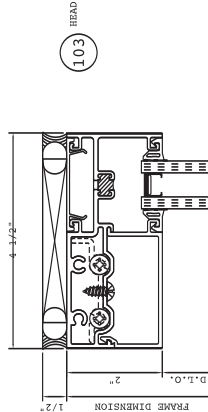
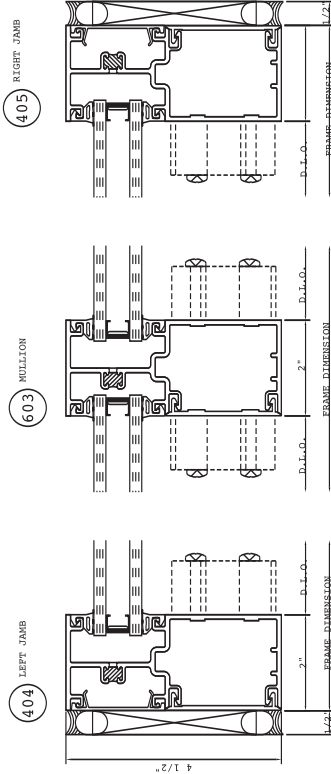
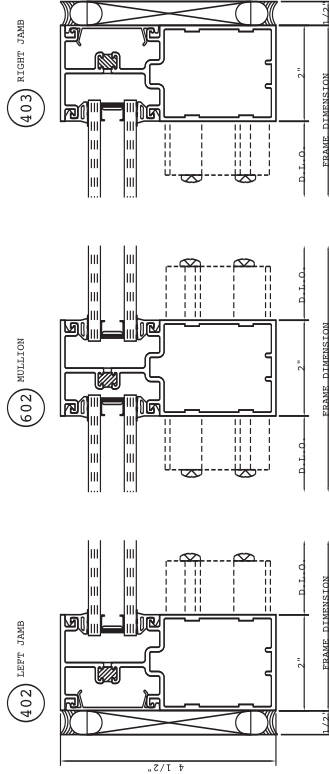


Illustration 2



433 Shear Block

Inside Glazed • Inside Set

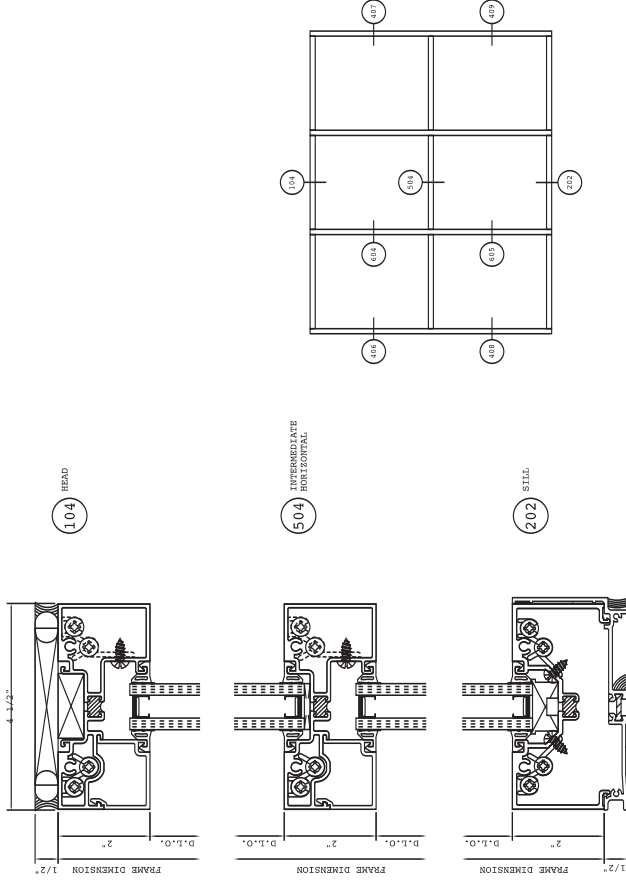
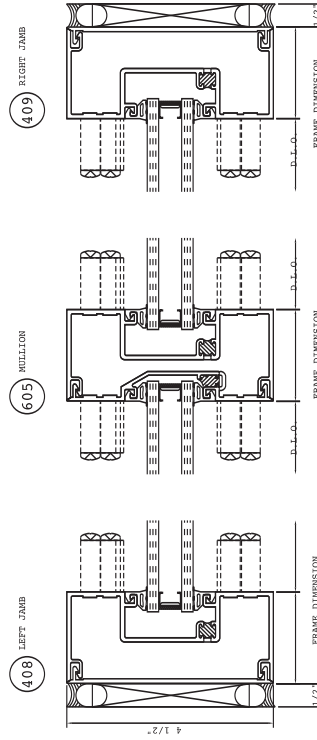
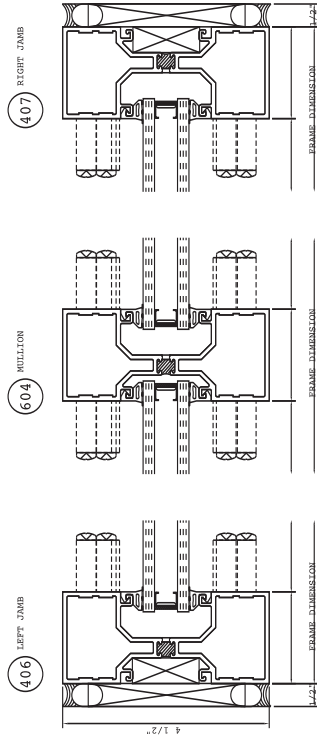


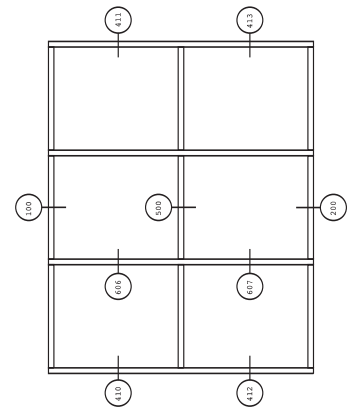
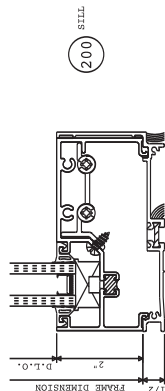
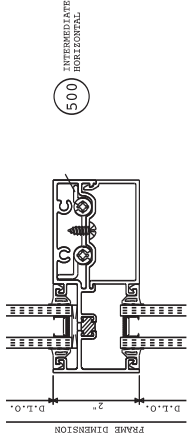
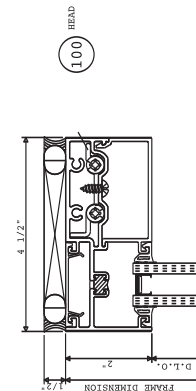
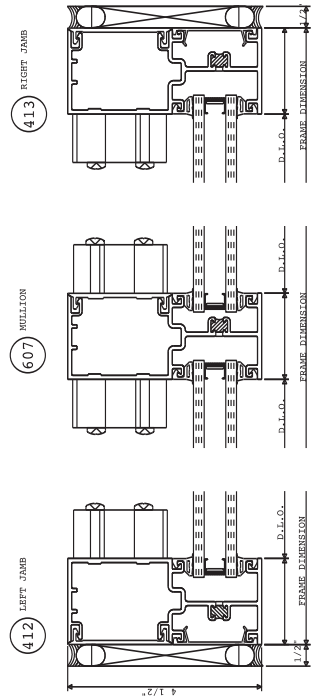
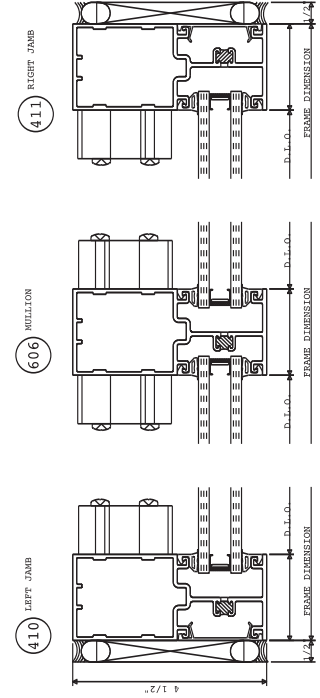
433 Shear Block

Outside Glazed • Inside Set

433 Shear Block

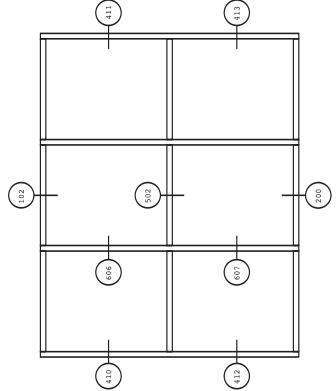
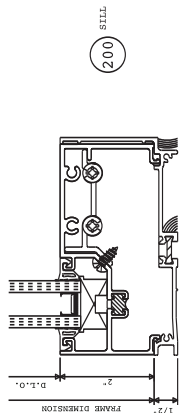
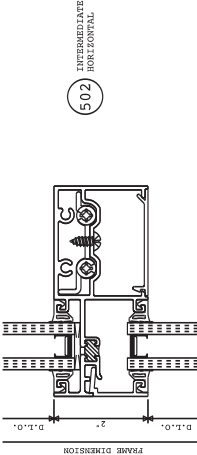
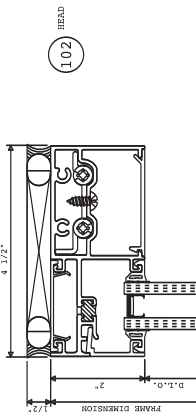
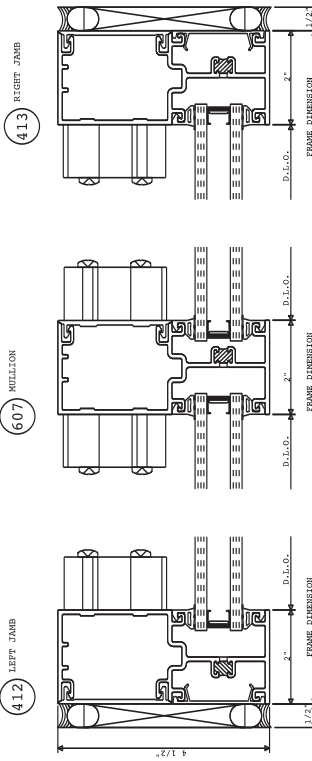
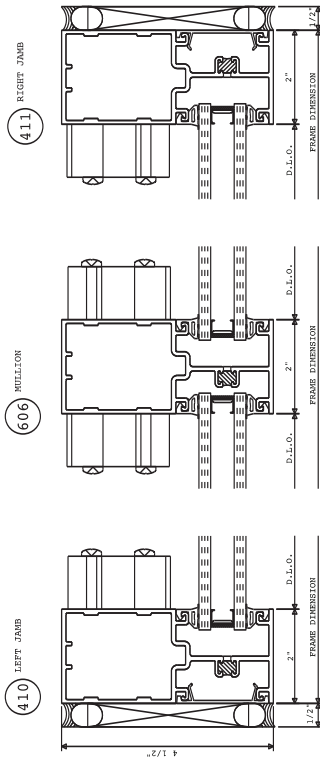
Outside Glazed • Center Set





433 Shear Block

Inside Glazed • Outside Set

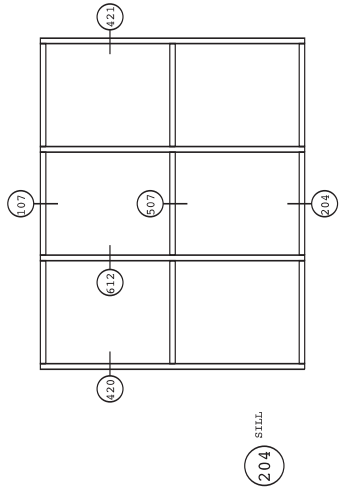
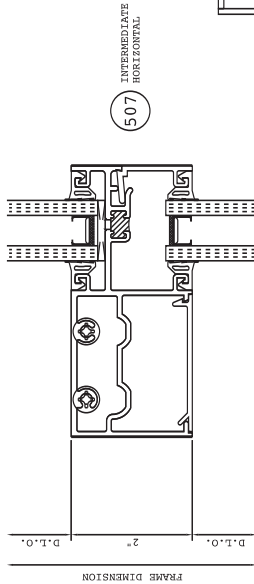
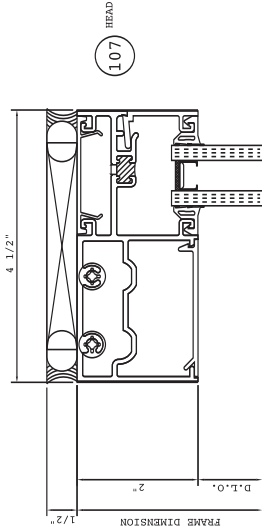
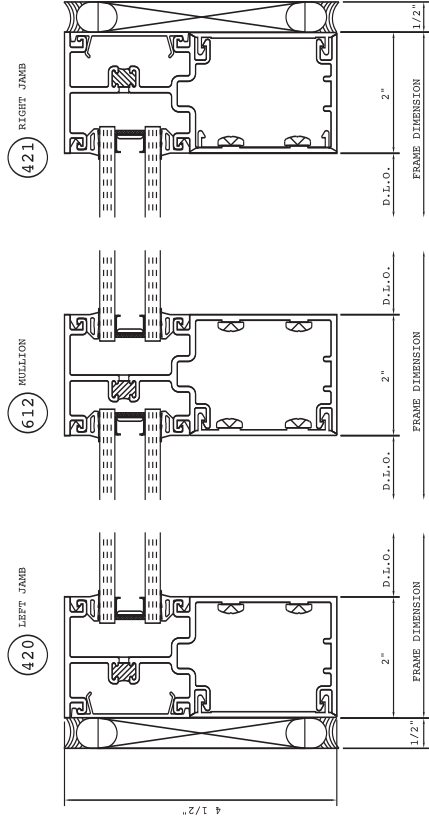


433 Shear Block

Outside Glazed • Outside Set

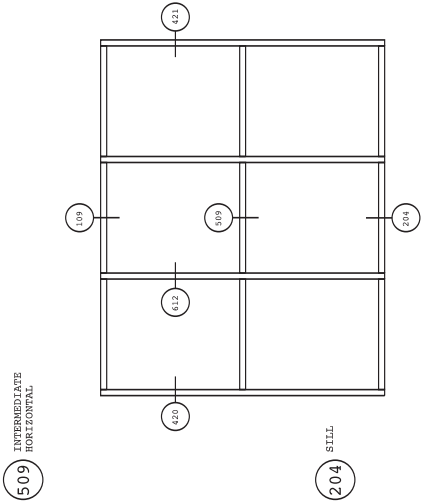
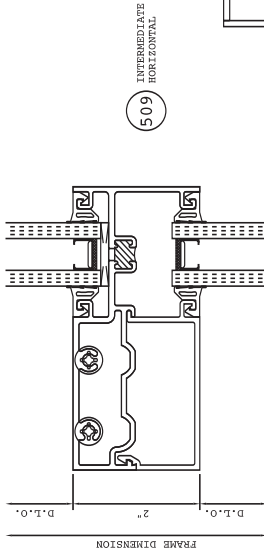
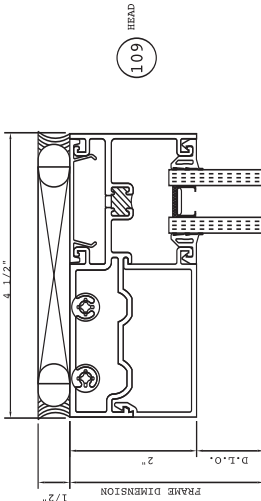
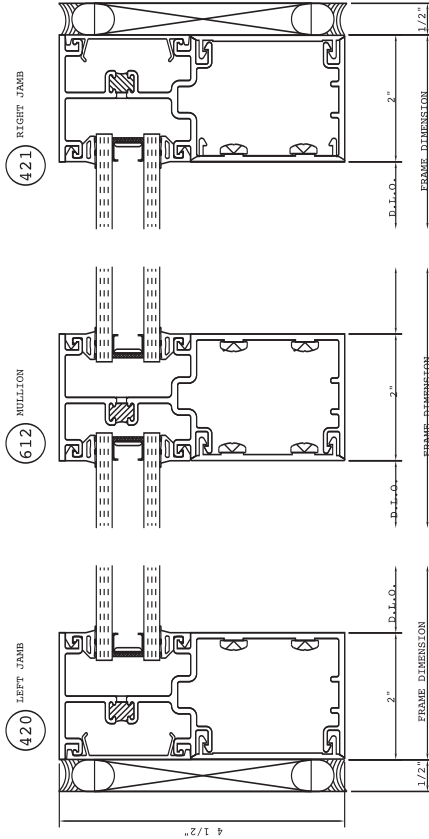
433 Screw Spline

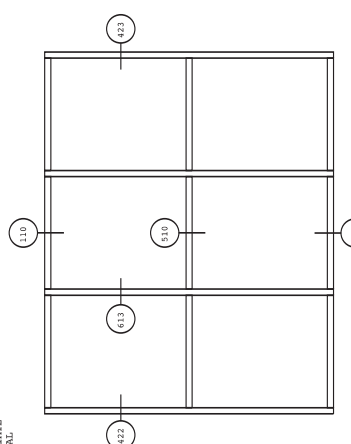
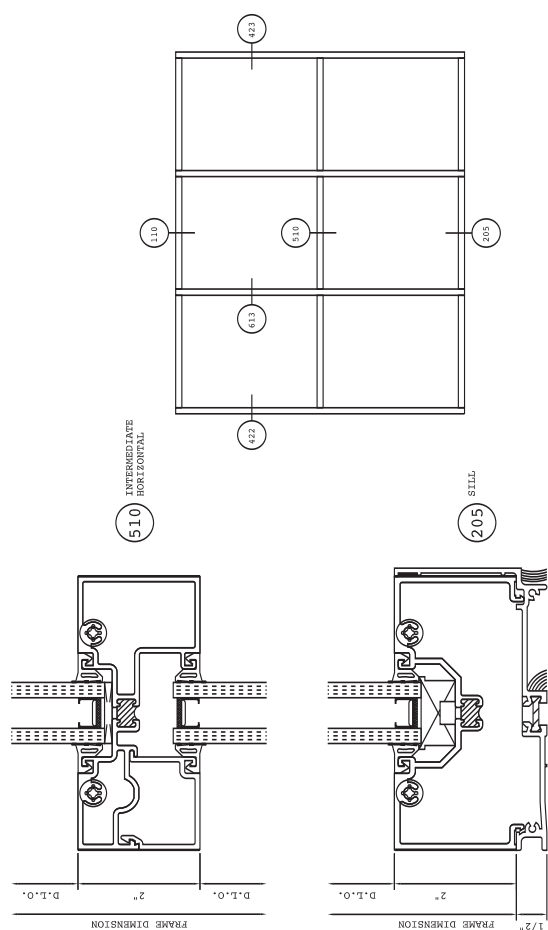
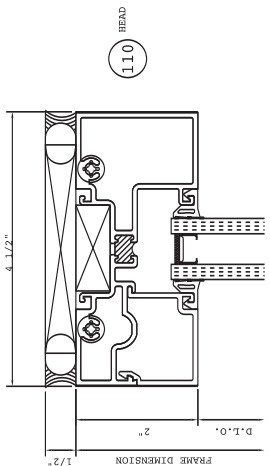
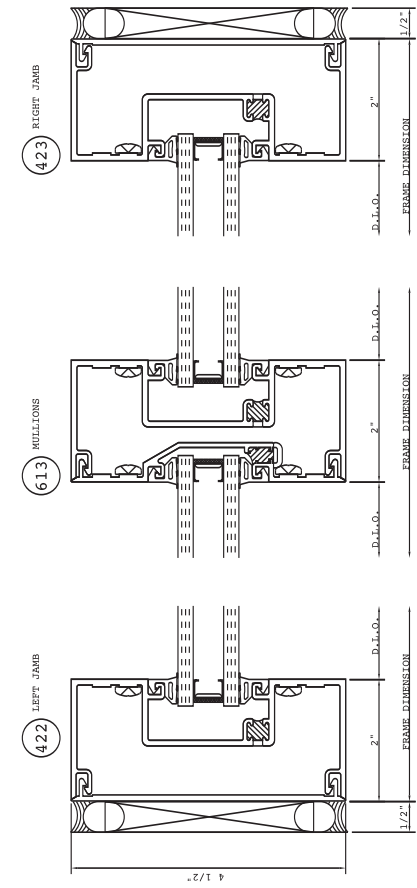
Inside Glazed • Inside Set



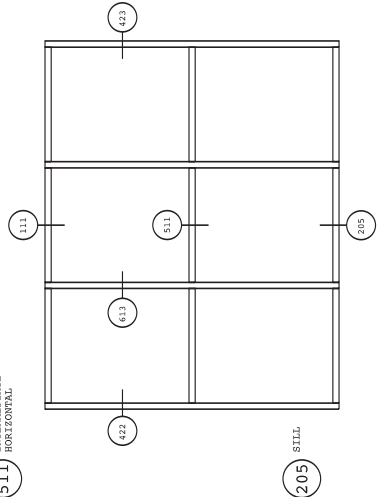
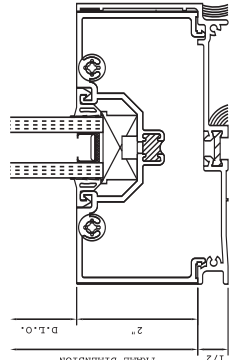
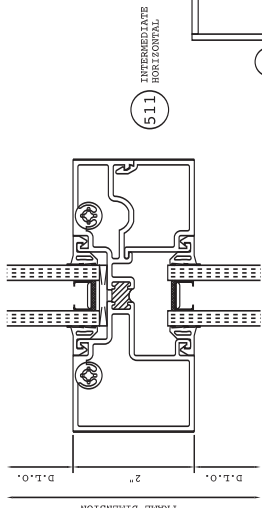
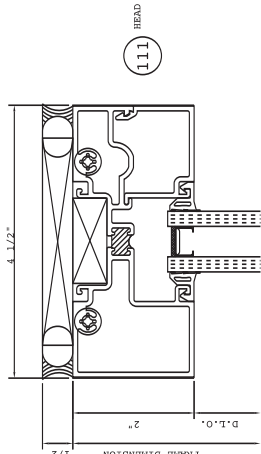
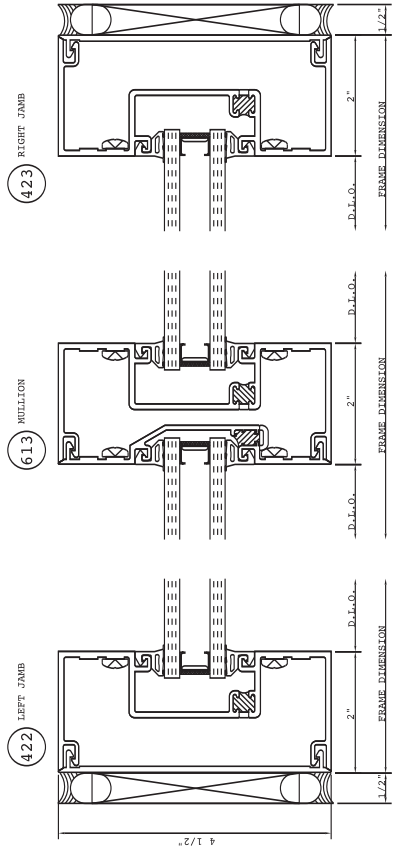
433 Screw Spline

Outside Glazed • Inside Set





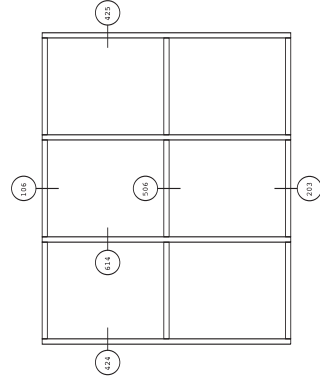
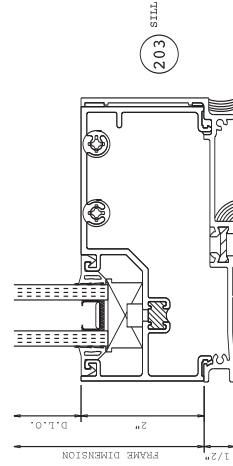
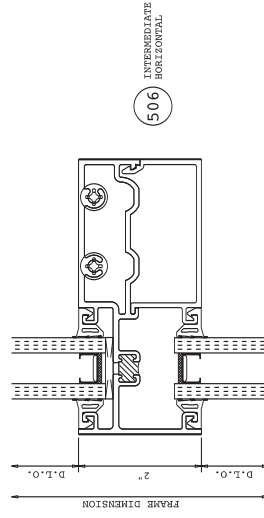
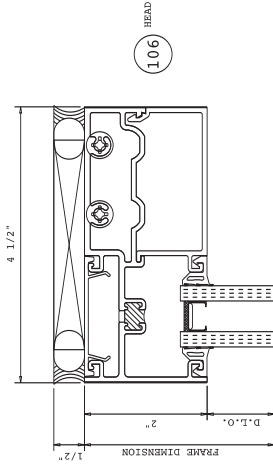
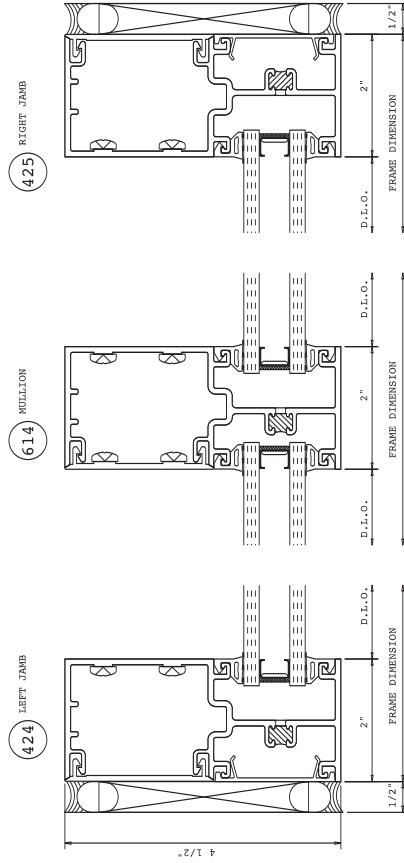
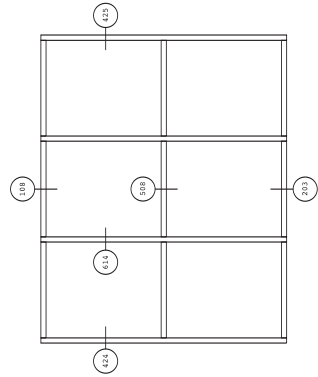
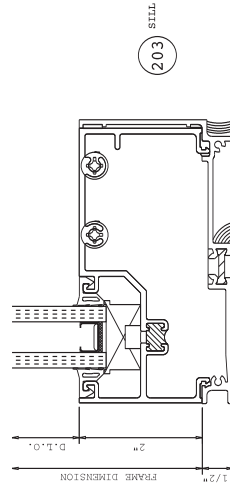
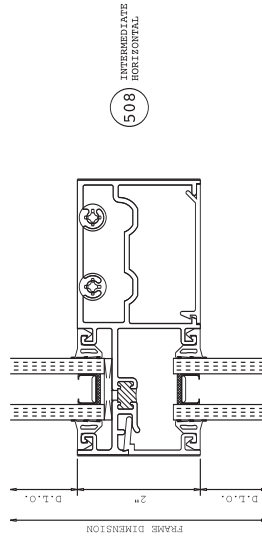
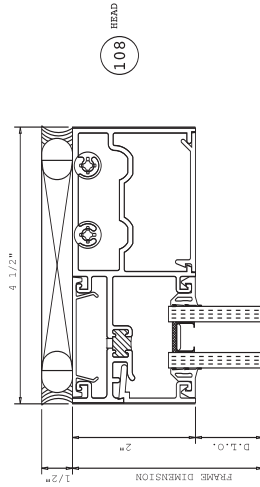
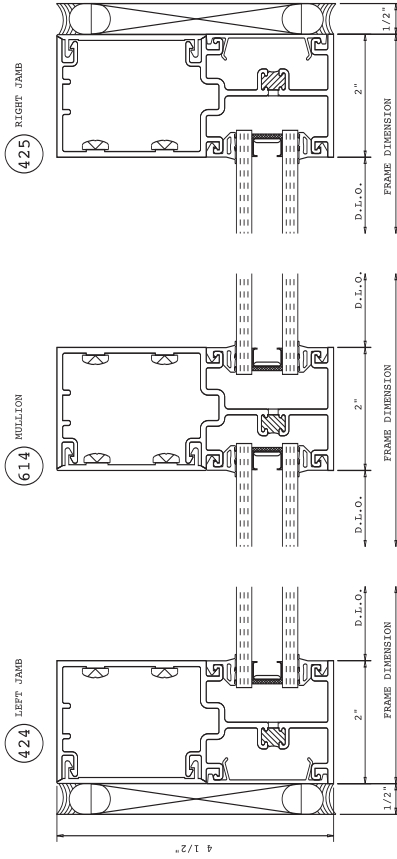
433 Screw Spline
Outside Glazed • Center Set



433 Screw Spline
Inside Glazed • Center Set

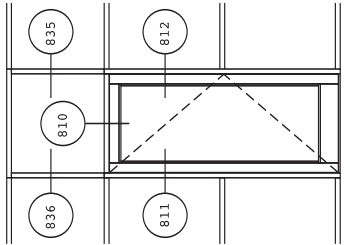
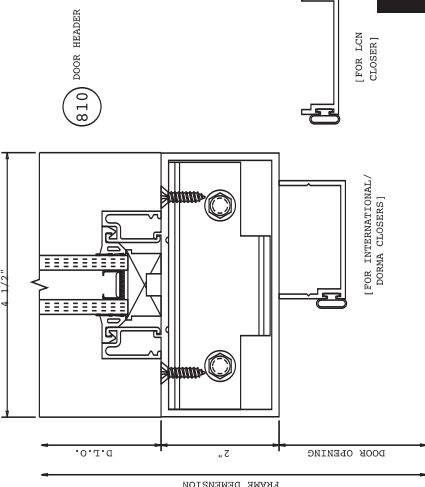
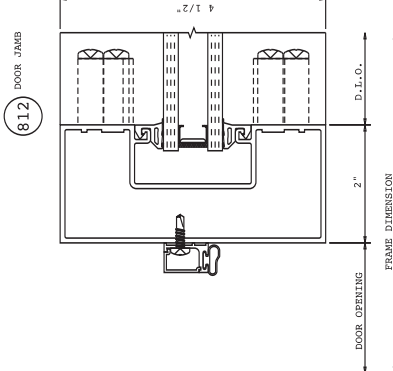
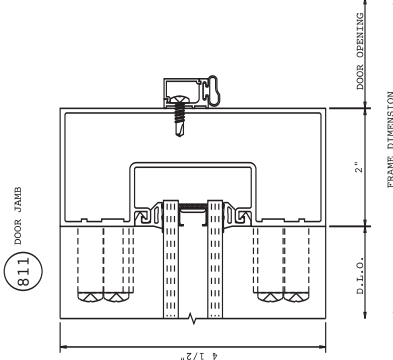
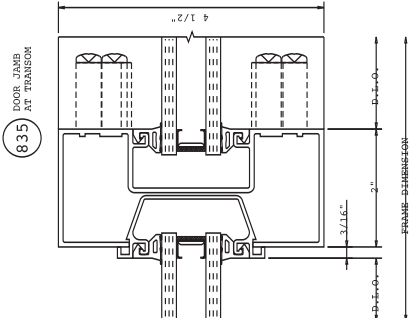
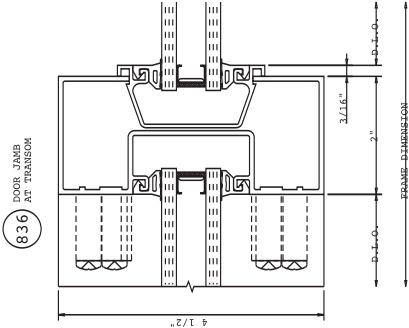
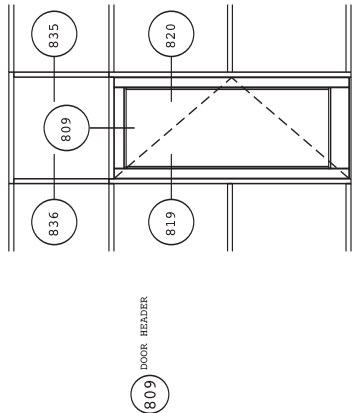
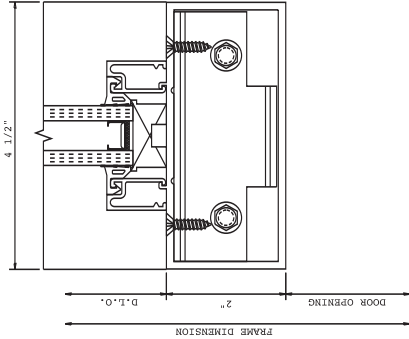
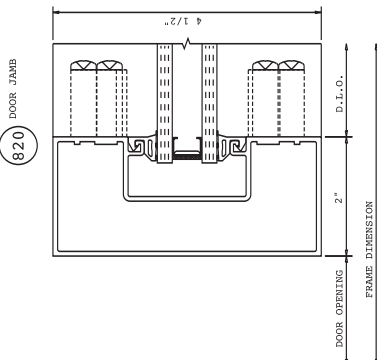
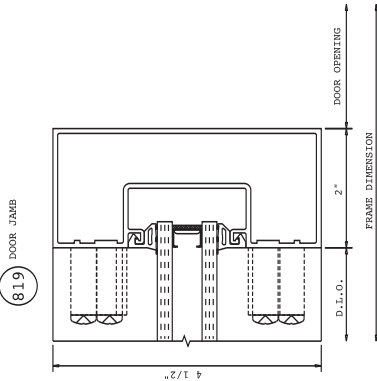
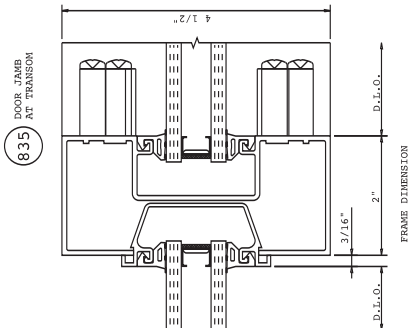
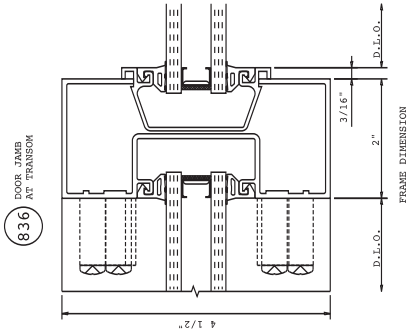
433 Screw Spine

Outside Glazed • Outside Set



433 Screw Spine

Inside Glazed • Outside Set



433 Door Frame with Transom

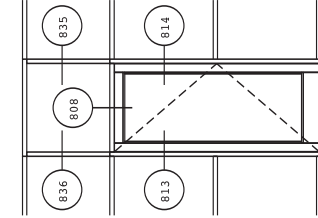
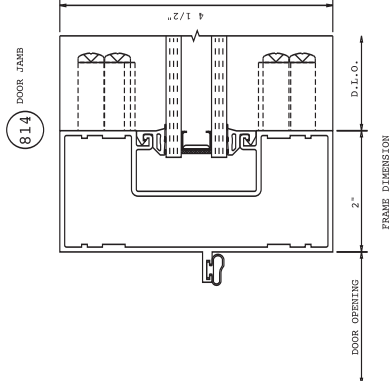
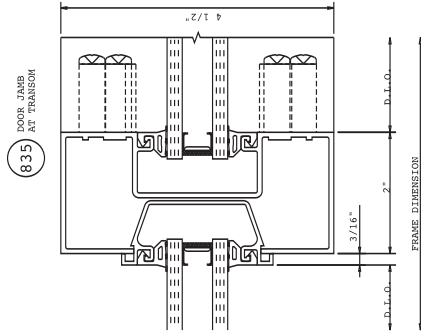
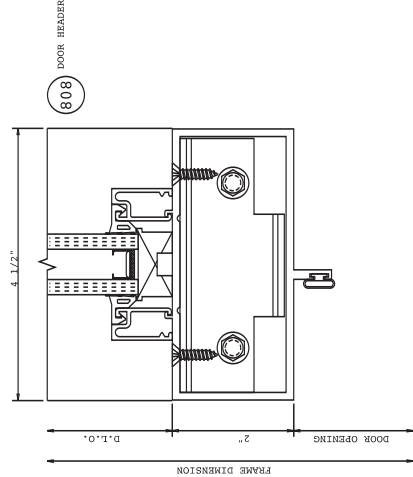
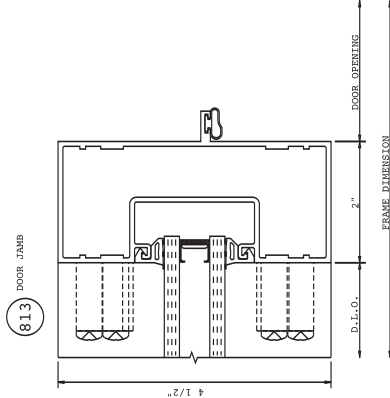
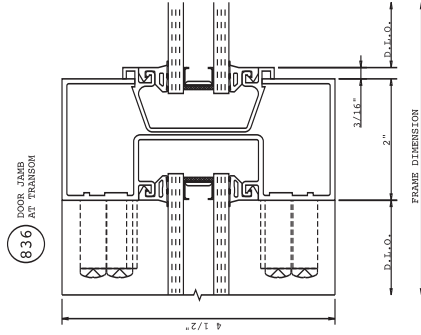
Dual Acting • Center Set

433 Door Frame with Transom

Single Acting w/C.O.C. • Center Set

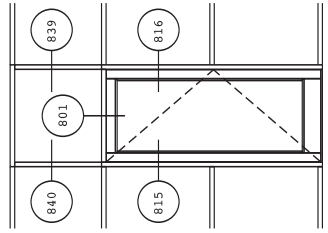
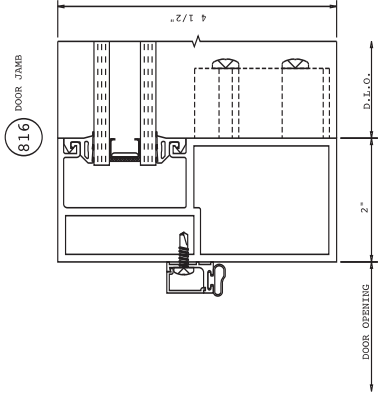
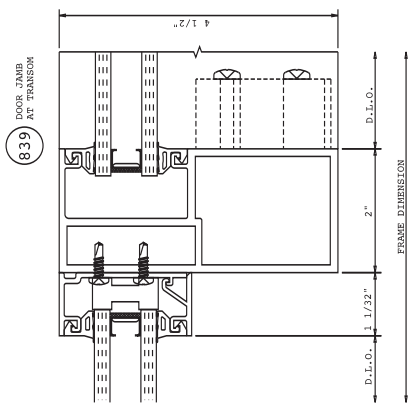
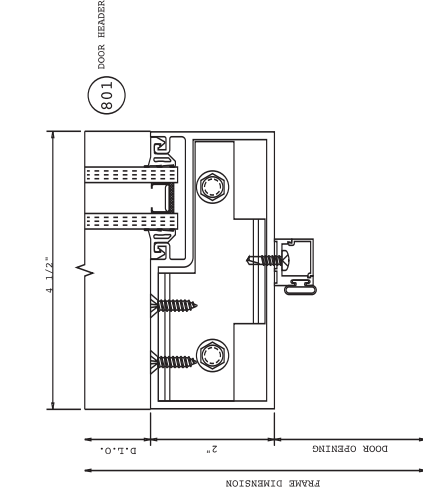
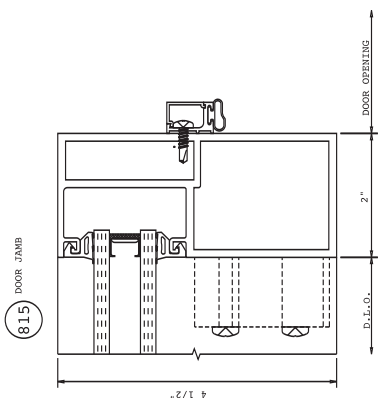
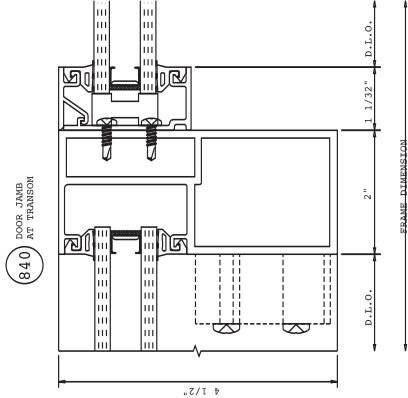
433 Door Frame with Transom

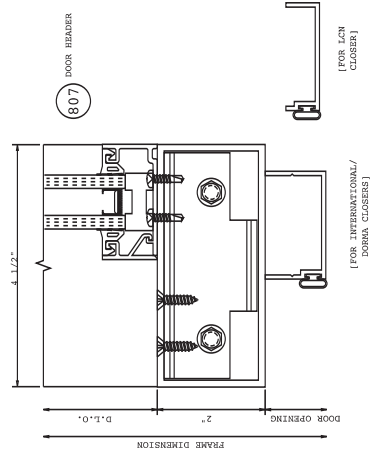
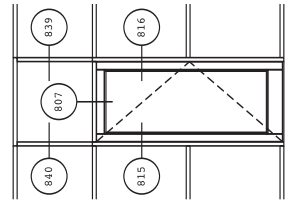
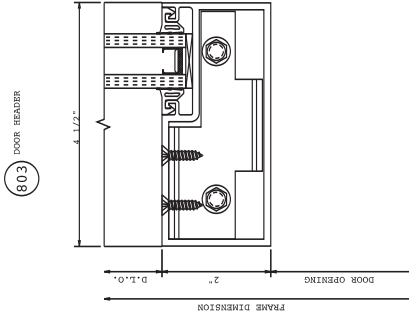
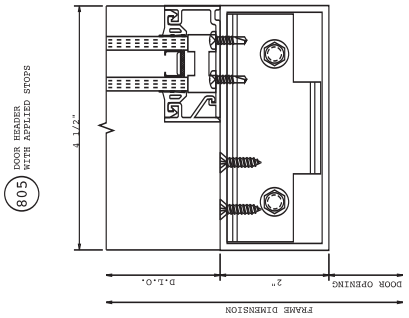
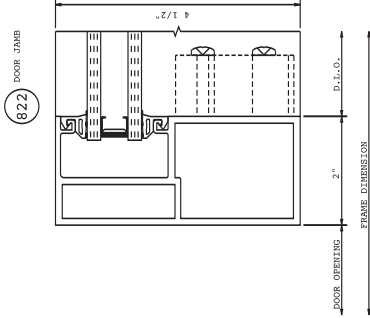
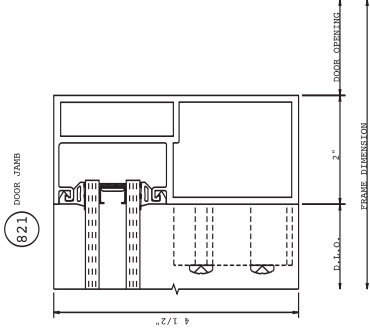
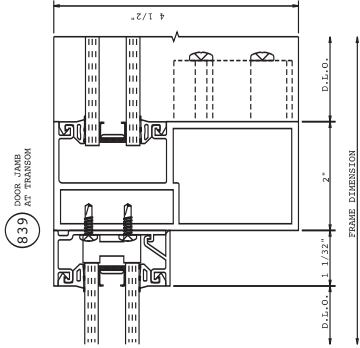
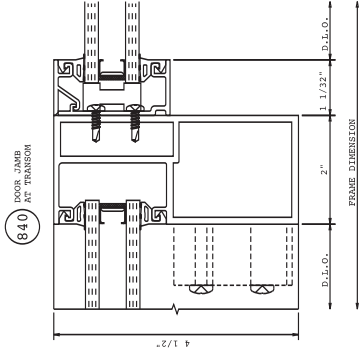
Single Acting • Center Set



433 Door Frame with Transom

Single Acting • Inside Set





433 Door Frame with Transom

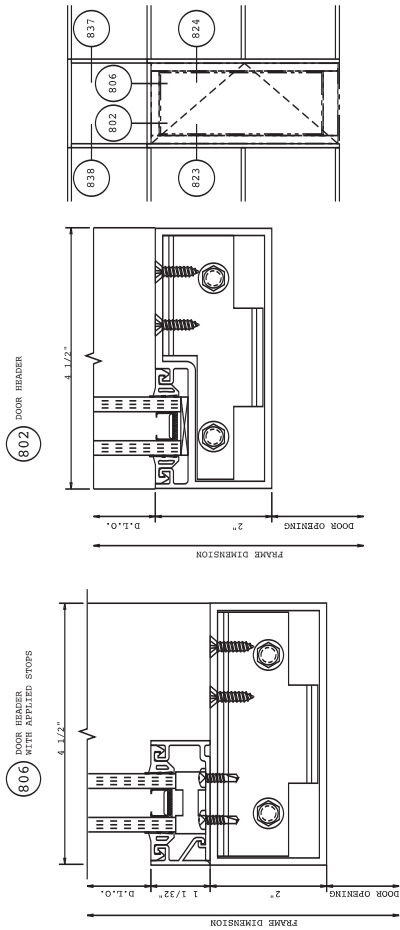
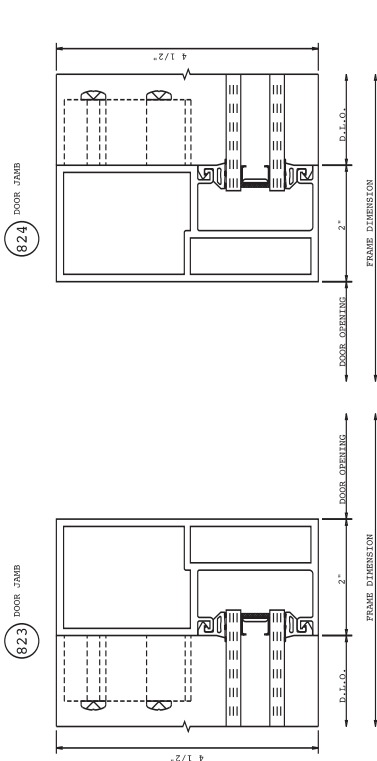
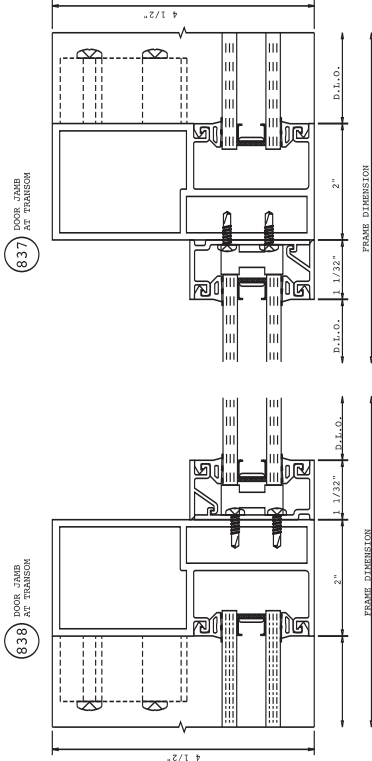
Dual Acting • Inside Set

433 Door Frame with Transom

Single Acting w/C.O.C. • Inside Set

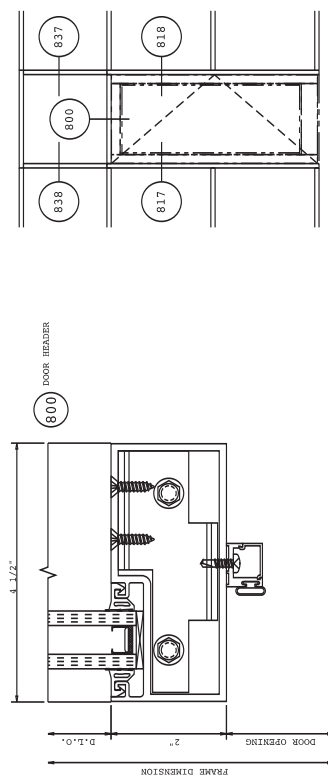
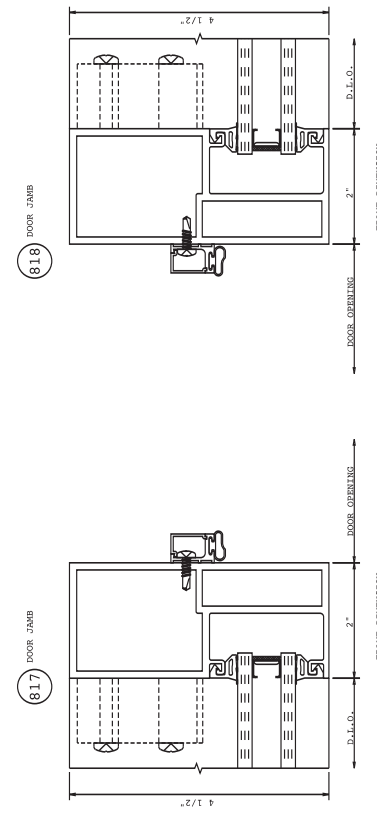
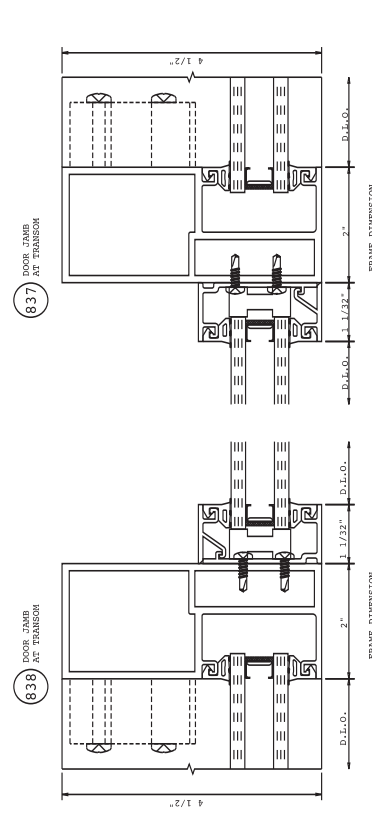
433 Door Frame with Transom

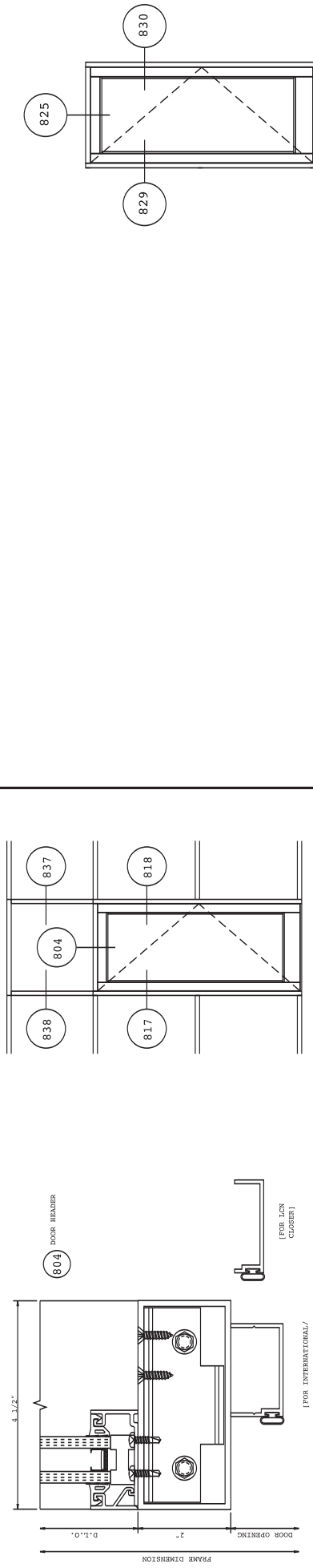
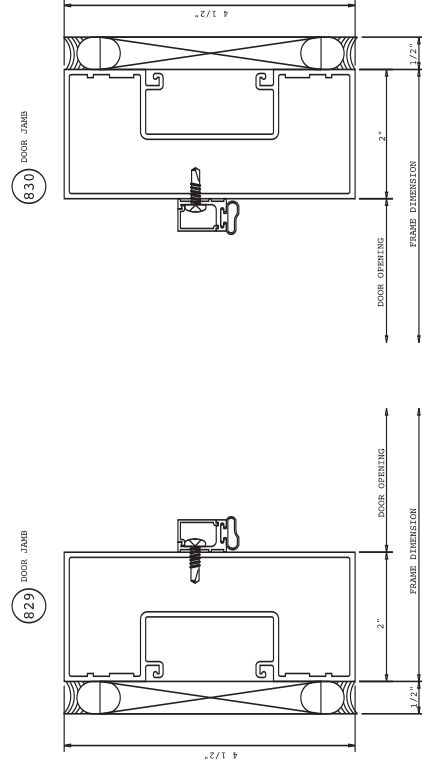
Dual Acting • Outside Set



433 Door Frame with Transom

Single Acting • Outside Set



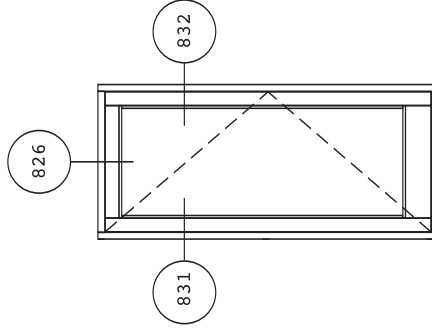
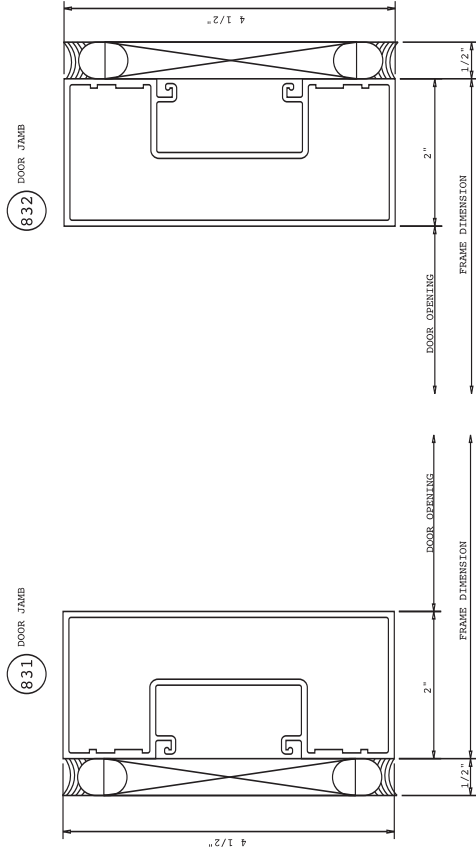
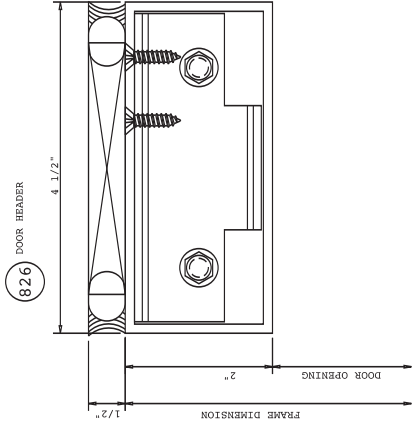


Single Acting w/C.O.C. • Outside Set

Dual Acting • Center Set

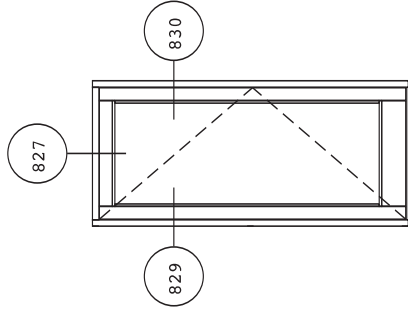
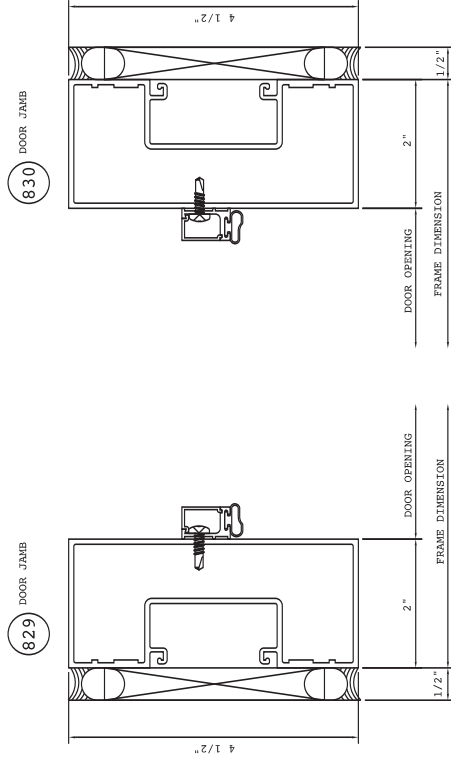
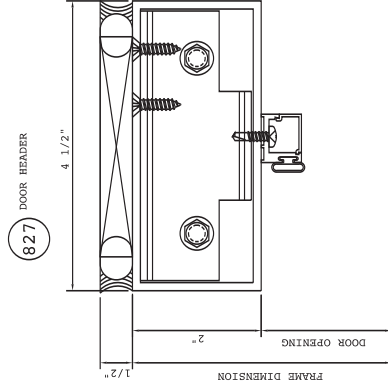
433 Door Frame Without Transom

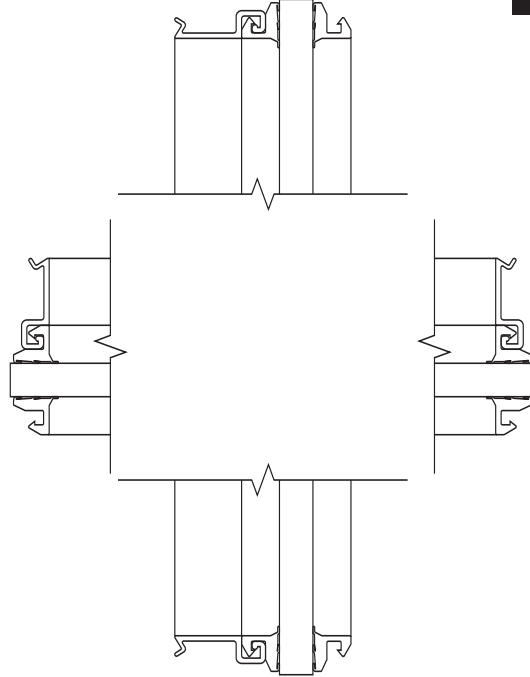
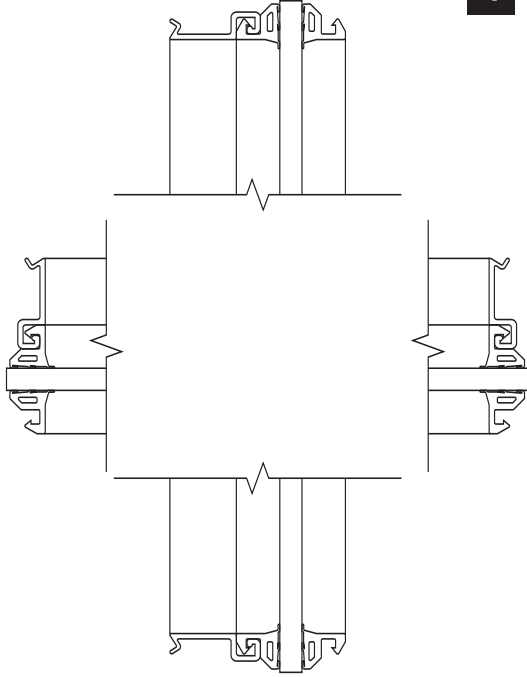
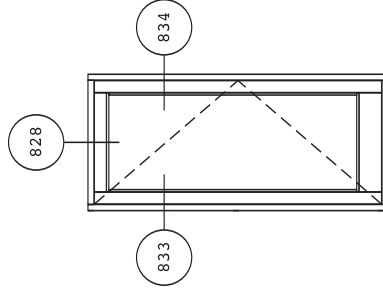
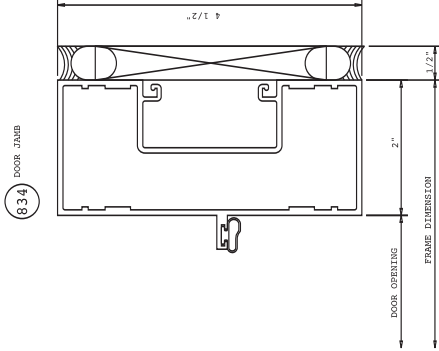
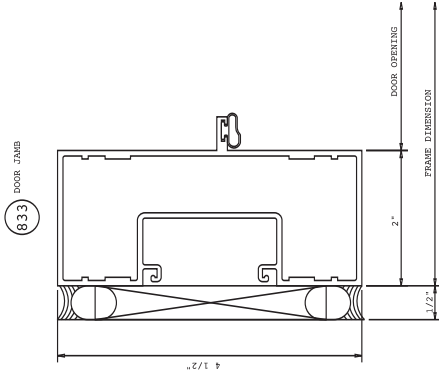
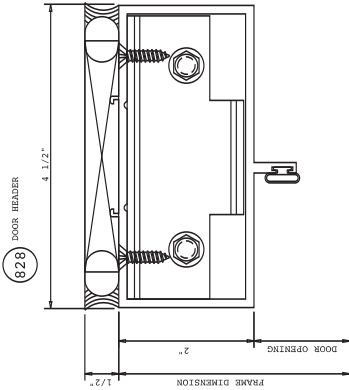
Dual Acting



433 Door Frame Without Transom

Single Acting with Applied Stops

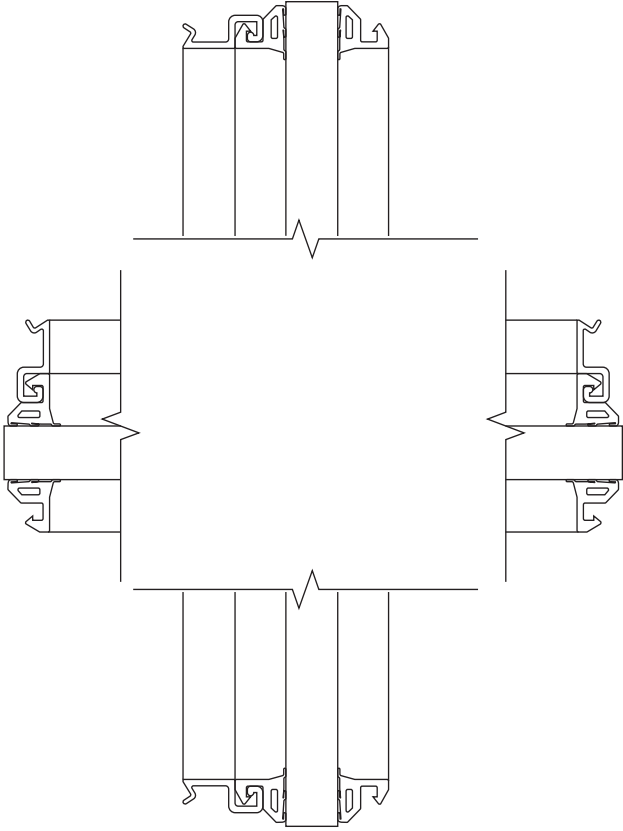




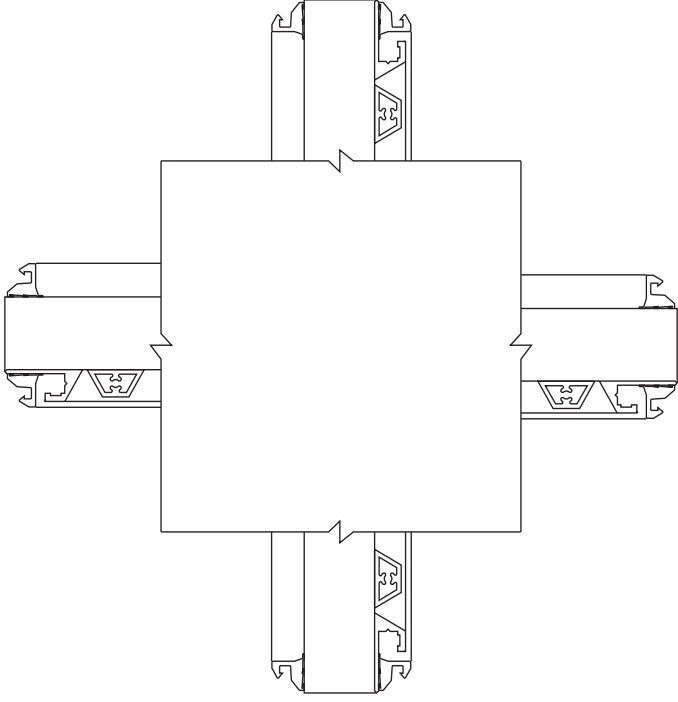
433 Door Frame Without Transom

Single Acting

433 1/2" Glazing



433 1" Glazing



433 5/8" Glazing

