

Resilient™ Wood Entry Entry Door Architectural Detail Manual

TRÜSTILE®
A MARVIN BRAND



ARCHITECTURAL DETAIL MANUAL

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UNIT FEATURES

Maximum Sizes:

Pre Hung Doors:

- Max: 42" Wide x 96" High

Slab Doors:

- Max: 42" Wide x 96" High

Sidelites:

- Max 36" Wide x 96" High

Transoms:

- Max 48" High x 96" Wide

Overall Entry System:

- Factory Assembled Maximum: 93"W x 96"H

System Layouts:

- See Entry Systems page for available configurations.

Available Frame Types:

Single Rabbet:

- Min: 4 9/16"
- Max: 9"

Frame Mulling Options:

Prep for Field Mull

Factory Mull

Spread Mull:

- Min: 1"
- Max: 6"

Reinforced Mull:

- Min: 1" LVL,
- Max: 2" LVL

Sill Options:

Available as Continuous up to 120"

Available with Sill Horns:

Depth

- Min: 1 1/16"
- Max: 3 7/16"

Length

- Min: 1" -
- Max: 6"

Oak Adjustable

Hydrosill

ADA Sill

Sidelite Options:

500+ Door styles can be configured as Sidelites

Available In-Sash or Direct Set

Transom Options:

Transom Options Choose from 23 Glass or Panel Transom Options

Available In-Sash or Direct Set

Note: All Transoms ship separately for field mulling.

Material:

Material:

Resilient Engineered Wood

Solid Accoya Frames

Sticking Profiles

OG – Roman Ogee

SS – Square Stick

QB – Quarter Bead

QR – Quarter Round

CB – Cove and Bead

BV – Bevel

OS – One Step

LP – Low Profile Moulding

CV- Cove Moulding

BBM – Big Bolection Moulding

BM- Bolection Moulding

Custom Profiles Available Upon Request

Glass Types:

Standard Insulated glass

- LoE 272 w/Argon (Default)
- LoE 366
- LoE 340 (ELR)
- LoE 180
- White Lami
- Clear Lami
- Satin Etched
- Low Iron
- Frosted
- English Reeded
- Glue Chip
- Rain
- Obscure
- Aqualite
- Seedy Wash
- Bevel

SDL and TDL Options:

Simulated Divided Lite (SDL) options

Available in 5/8", 7/8", and 1 1/8 wide bars.

OG-Roman Ogee

SS-Square Stick

QB-Quarter Bead

QR-Quarter Round

BV: Bevel

OS: One Step

CB: Cove and Bead

True Divided Lite (TDL) options

Only offered in 1-5/8" wide bars.

OG: Roman Ogee

BV: Bevel

SS: Square Stick

OS: One Step

QB: Quarter Bead

QR: Quarter Round

CB: Cove and Bead

Factory Finishing

Paint Grade: High quality exterior grade primer standard.

UNIT FEATURES

Hardware

Handle Sets: Not provided

Ability to machine for any cylindrical or mortise handle set.

GU Secury Automatic Multipoint available upon request.

NOTE: Required for pair units for no overhang warranty coverage

Warranty coverage available for units with dark paint when multipoint lock is chosen

4.5" x 4.5" Ball Bearing Square Corner TruStile Branded Architectural

Hinges standard

Emtek and Baldwin Hinges available upon request

Colors:

Black

Bright Brass

Satin Brass

Antique Brass

Antique Bronze

Oil-Rubbed Bronze

Polished Nickel

Satin Nickel

Antique Nickel

Polished Chrome

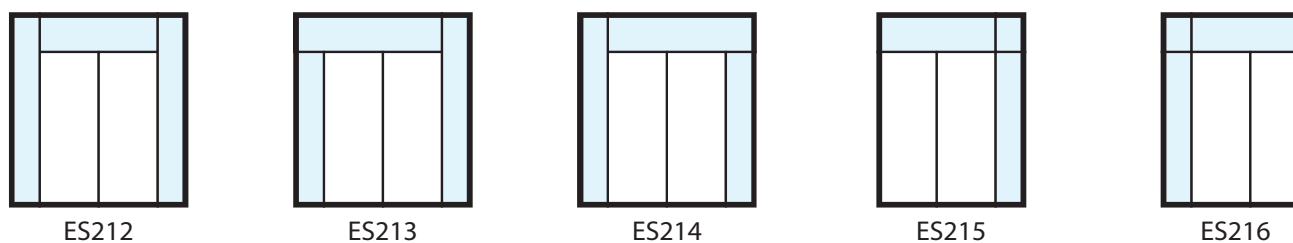
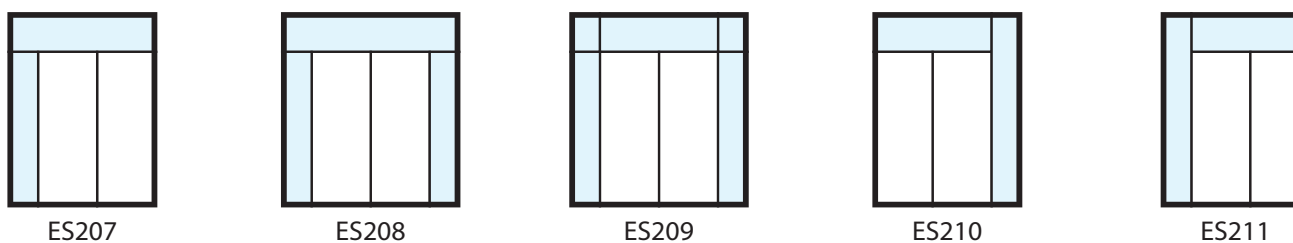
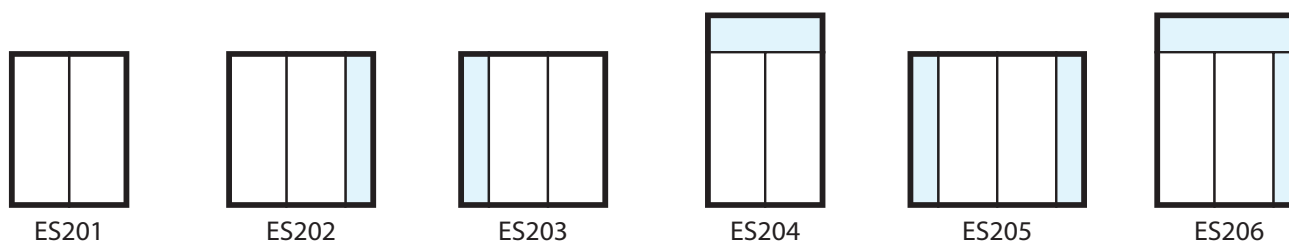
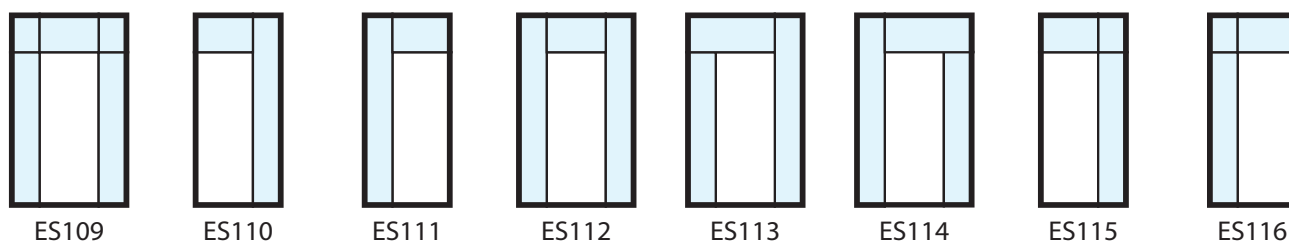
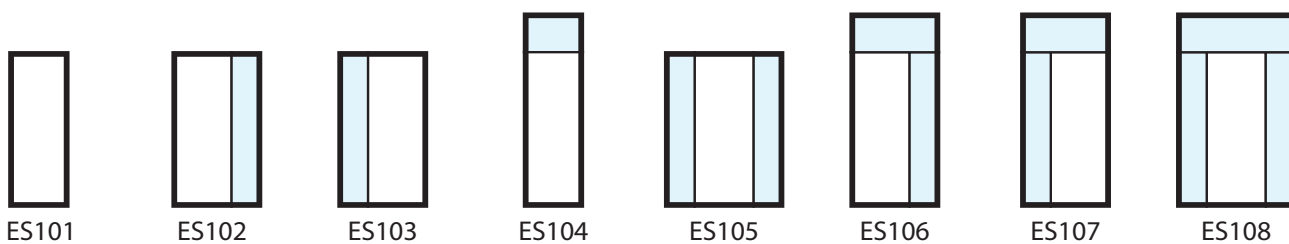
Satin Chrome

Casing Options:

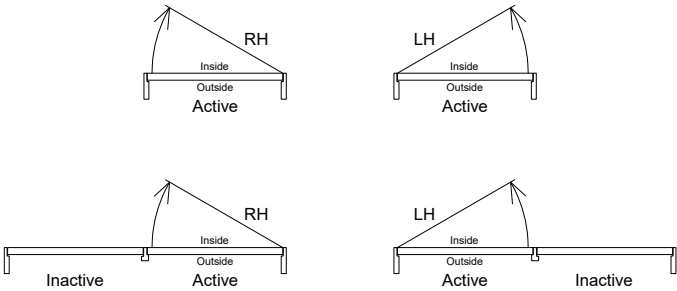
WM180- Brick Mould 1-1/4" thick by 2" Wide

Configurable S4S in all species in both 3/4" and 1" thicknesses

ENTRY SYSTEM CODES - RECTANGLES



HANDING CONFIGURATIONS



MINIMUM AND MAXIMUM GUIDELINES

1 3/4" SLAB - RECTANGLE

Minimum and Maximum Slab Sizes								
Configuration	Minimum				Maximum			
	Width		Height		Width		Height	
	in	mm	in	mm	in	mm	in	mm
Unit Type								
1 3/4 Door	20	(508)	48	(1219)	36	(914)	96	(2438)
2 1/4 Door	20	(508)	48	(1219)	42	(1067)	96	(2438)
Pre-Hung Door	20	(508)	48	(1219)	42	(1067)	96	(2438)
Transom	20	(508)	10	(254)	96	(2438)	48	(1219)
Sidelite	10	(254)	48	(1219)	48	(1219)	120	(3048)
Sidelite Transom	10	(254)	10	(254)	48	(1219)	48	(1219)
Direct Set Sidelite	4	(102)	48	(1219)	36	(914)	120	(3048)
Direct Set Transom	20	(508)	10	(254)	96	(2438)	48	(1219)
Direct Set Sidelite Transom	4	(102)	48	(1219)	48	(1219)	120	(3048)

*minimum width reflects unequal panel sizes with 18.000" operator panel width

*maximum width for the stationary panel of 124.010" for an 82.000" frame height

MEASUREMENT CONVERSIONS

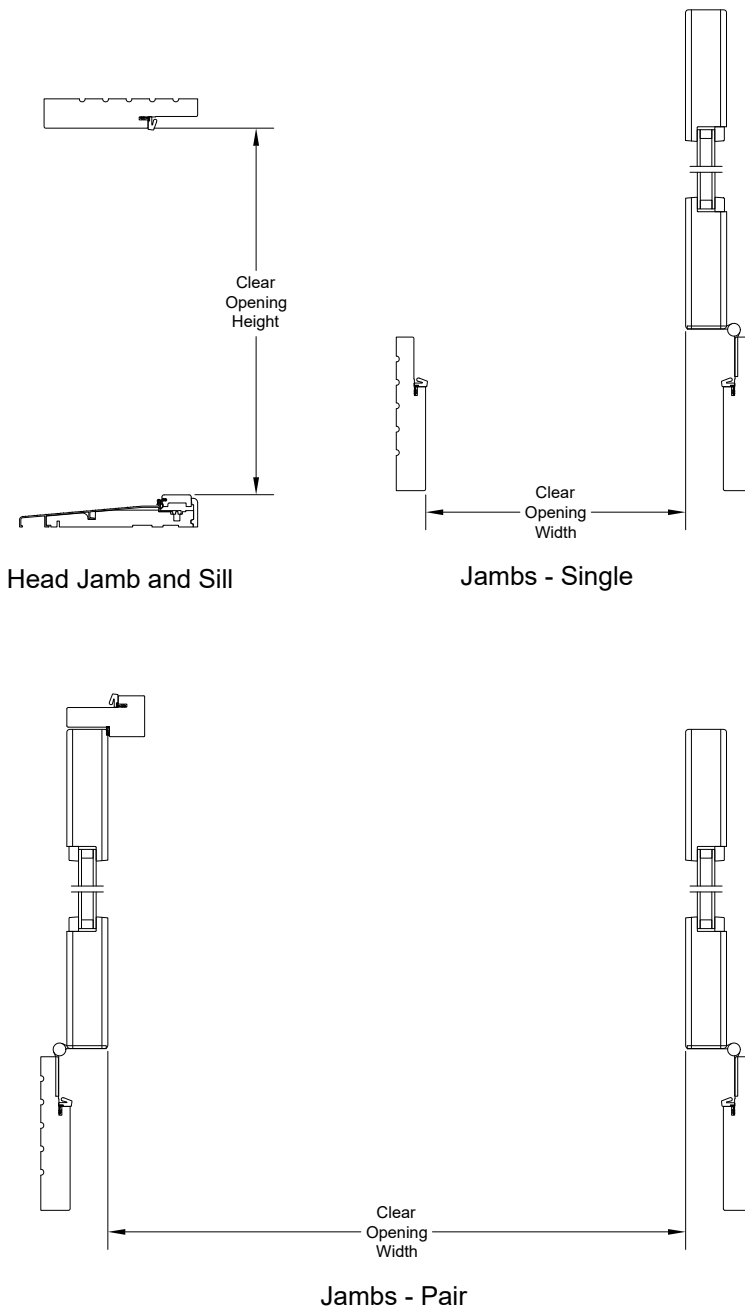
Configuration	Unit Measurements		Width	
	From	To		
All	Rough Opening		in	mm
	Frame OM	Rough Opening	+ 1	(25)
	Masonry Opening	Rough Opening	+ 1/2	(13)

	Unit Measurements		Width	
	From	To		
Single	Slab		in	mm
	Panel Opening 2.25	Net Clear Opening	-3 33/64	(89)
	Panel Opening 1.75	Net Clear Opening	-3 1/64	(77)

	Unit Measurements		Width	
	From	To		
Pair	Slab		in	mm
	Panel Opening 2.25	Net Clear Opening	-5 5/64	(129)
	Panel Opening 1.75	Net Clear Opening	-4 37/64	(116)

Unit Measurements		Height	
From	To		
Rough Opening		in	mm
Frame OM	Rough Opening	+ 1/2	(13)
Masonry Opening	Rough Opening	+ 1/4	(06)
Net Clear Opening		in	mm
Frame OM Oak Adjustable	NCO	-2 5/8	(67)
Frame OM Wood	NCO	-2 5/8	(67)
Frame OM Hydrosill	NCO	-2 7/8	(73)
Frame OM ADA	NCO	-1 3/4	(44)
Frame OM Interlock	NCO	-3 11/32	(85)

NET CLEAR OPENING



Egress Code

International Building Code - 2012, 2015, and 2018

Section 1029 in 2012 code, Section 1030 in 2015 and 2018 code - Emergency Escape and Rescue Openings

Minimum Size: Emergency escape and rescue openings shall have a minimum net clear opening of 5.7 square feet (.053 m²).

Exception: The minimum net clear opening for grade-floor emergency escape and rescue openings shall be 5.0 square feet (0.46m²).

Minimum Dimensions: The minimum net clear opening height dimension shall be 24 inches (610). The minimum net clear opening width dimension shall be 20 inches (508). The net clear opening dimensions shall be the result of normal operation of the opening.

Maximum Height from Floor: Emergency escape and rescue openings shall have the bottom of the clear opening not greater than 44 inches (118) measured from the floor.

Operational Constraints: Emergency escape and rescue openings shall be operational from the inside of the room without the use of keys or tools. The 2018 code added the following sentence - window-opening control devices complying with ASTM F2090 shall be permitted for use on windows serving as a required emergency escape and rescue opening.

Code restrictions may vary depending on your local building code.

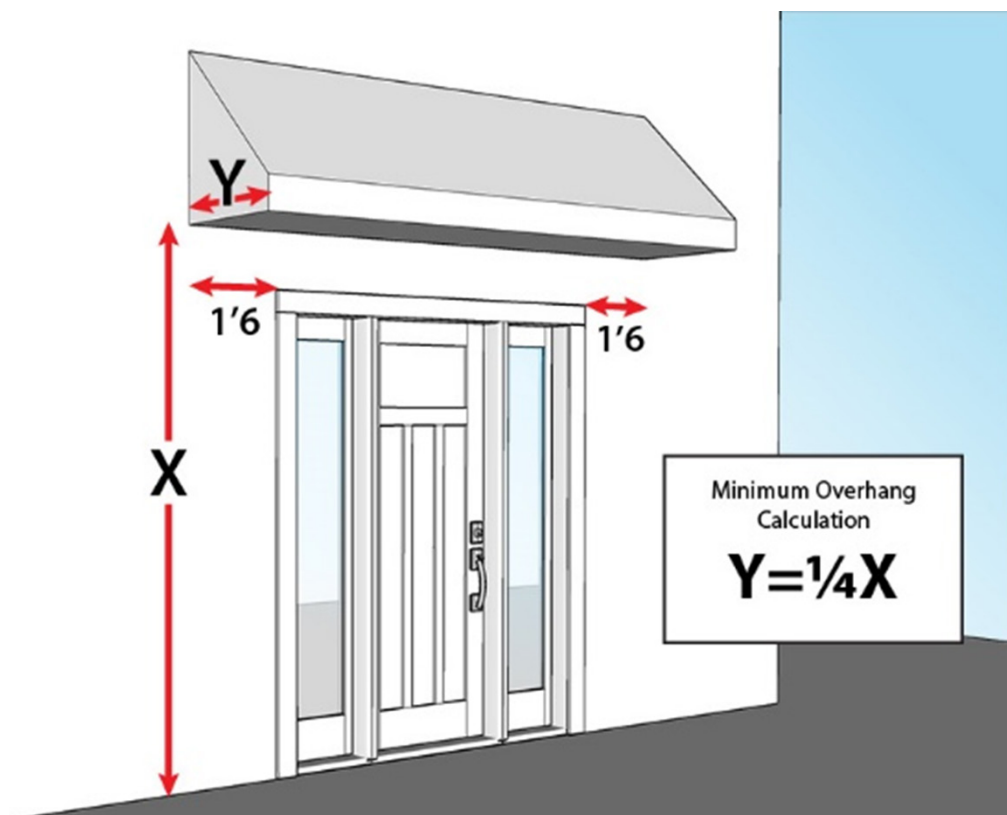
OVERHANG REQUIREMENT FOR WARRANTY COVERAGE

No overhang is required for:

Single doors without sidelites or transoms (ES101 configuration) up to 3'6" x 8'0" door leaf size with factory-installed Hydrosill; or

Double doors without sidelites or transoms (ES201 configuration) up to 3'0" x 8'0" door leaf size with factory-installed Hydrosill and multipoint lock.

For all other configurations, an overhang projecting out at least $\frac{1}{4}$ the distance from the foot of the door to the base of the overhang and projecting sideways at least 1 foot, 6 inches (1'6") beyond each side of the entry door system is required.



Frame



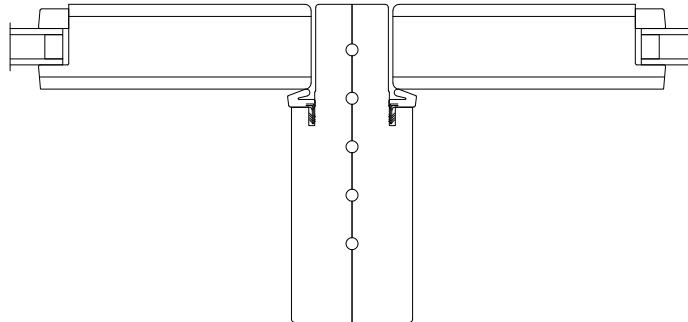
Square Edge Frame - Single Rabbeted



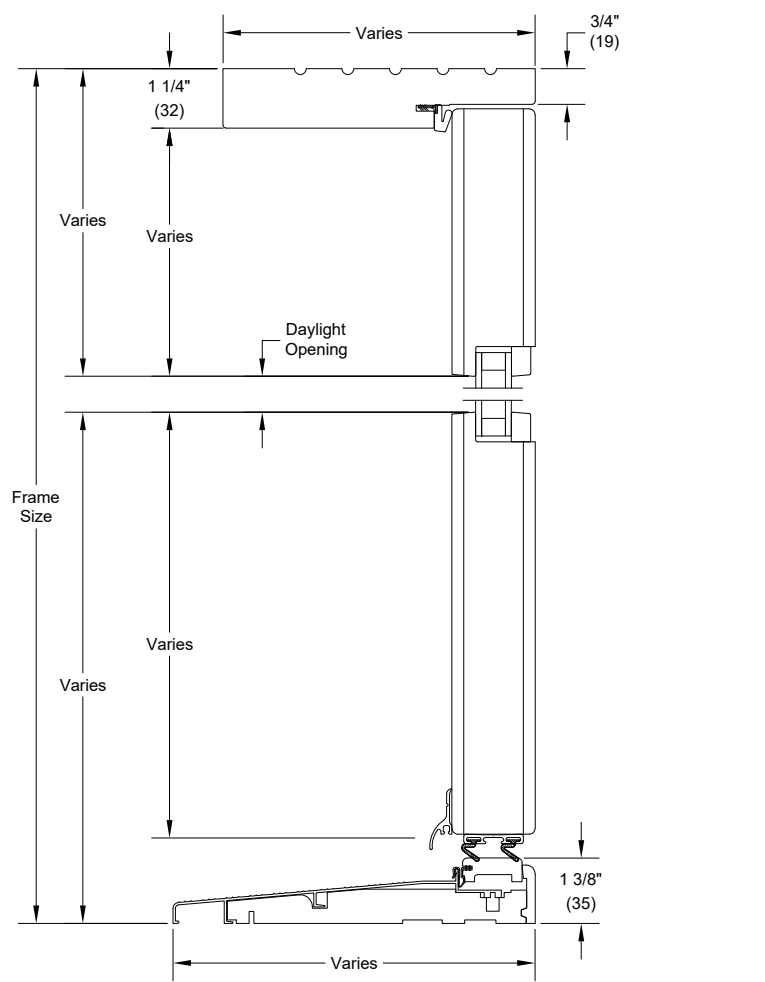
Radius Edge Frame - Single Rabbeted

Back to Back Mull Post

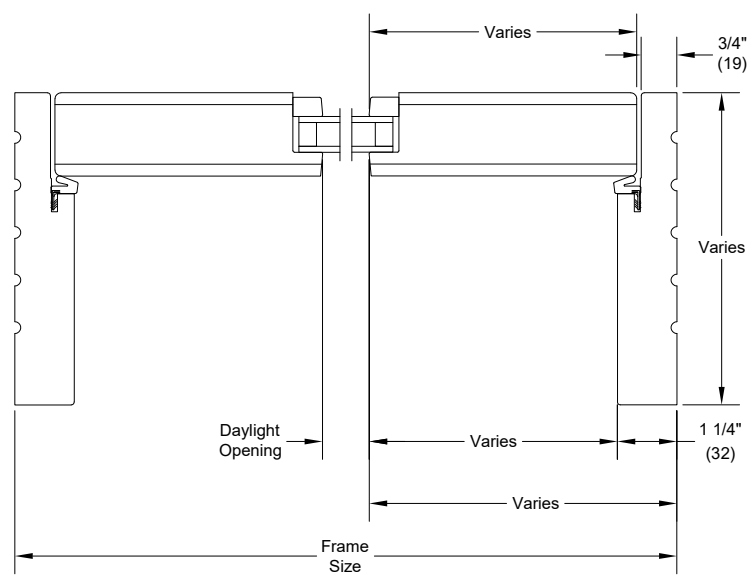
Single Rabbet



SECTION DETAILS - OPERATING - SINGLE- 1 3/4" DOOR

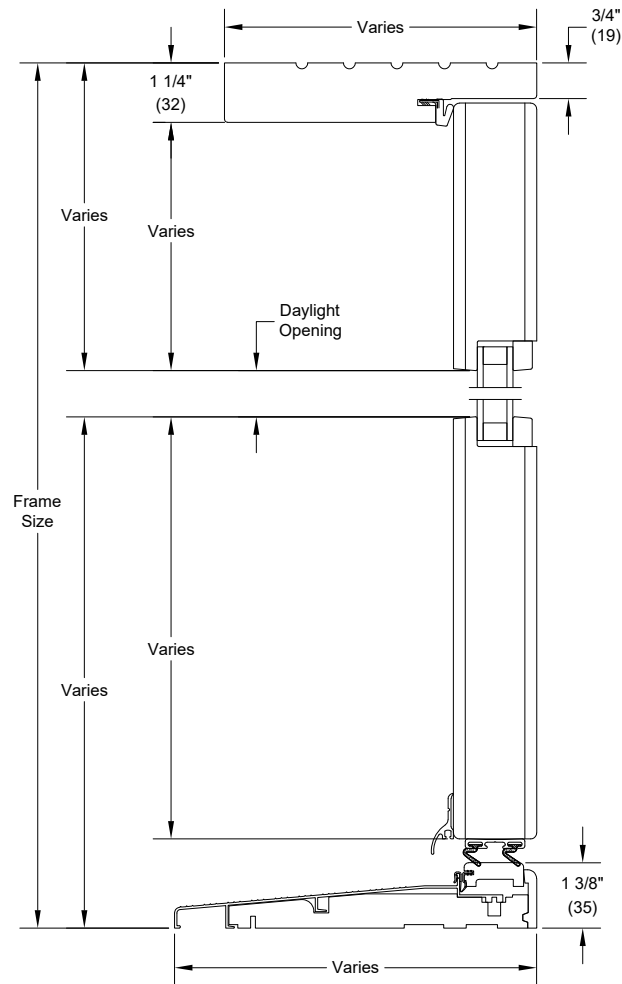


Head Jamb and Sill

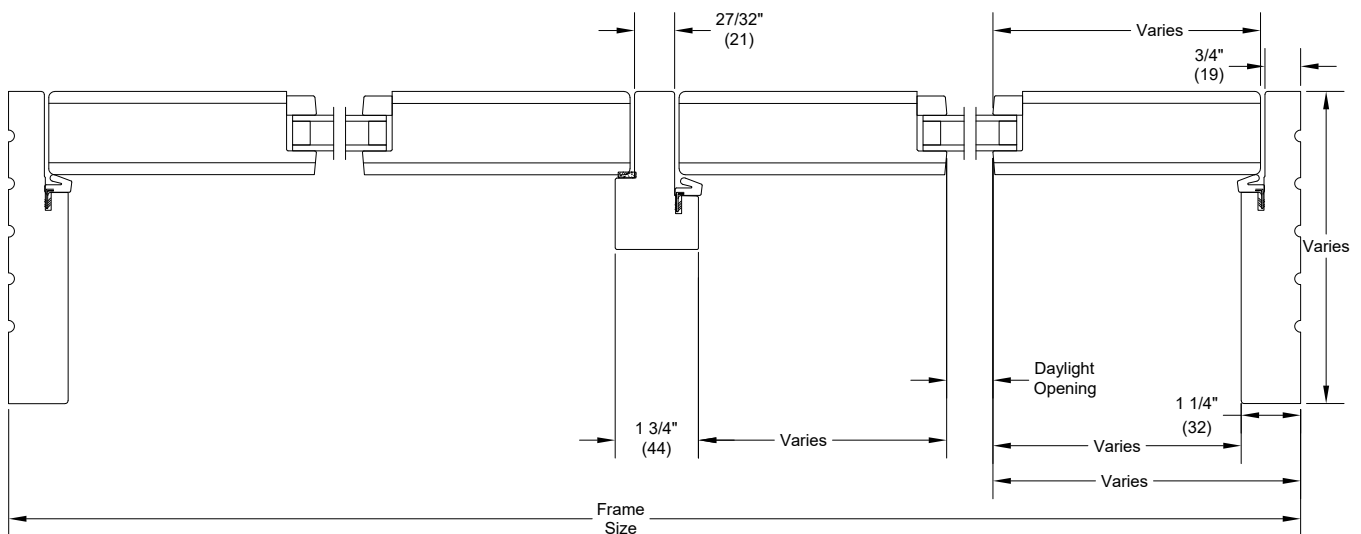


Jams - Single

SECTION DETAILS - OPERATING - PAIR - 1 3/4" DOOR

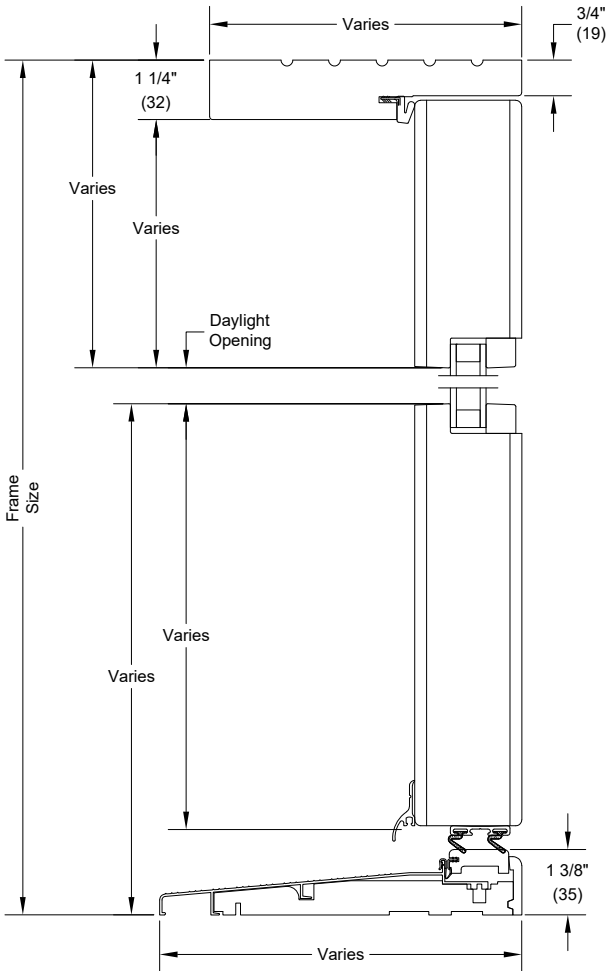


Head Jamb and Sill

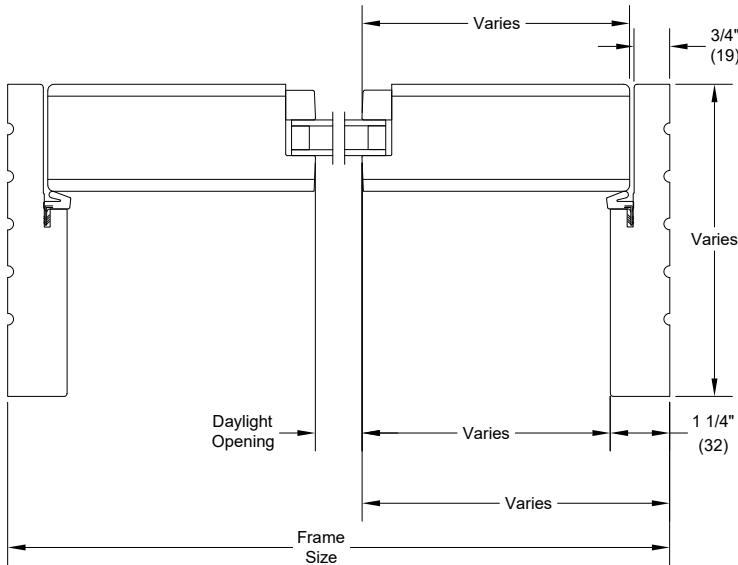


Jamb - Pair

SECTION DETAILS - OPERATING - SINGLE - 2 1/4" DOOR

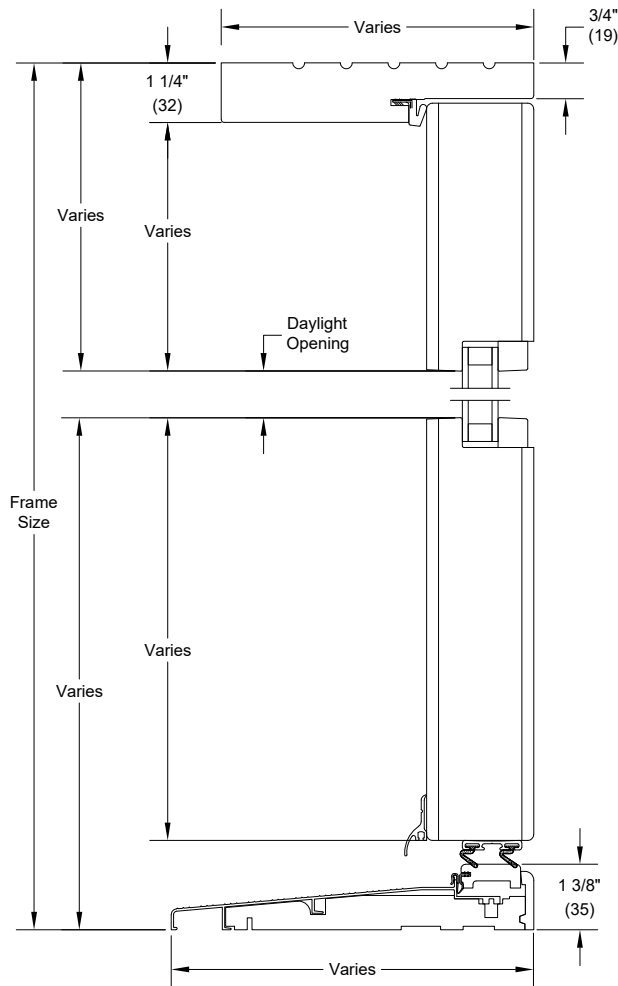


Head Jamb and Sill

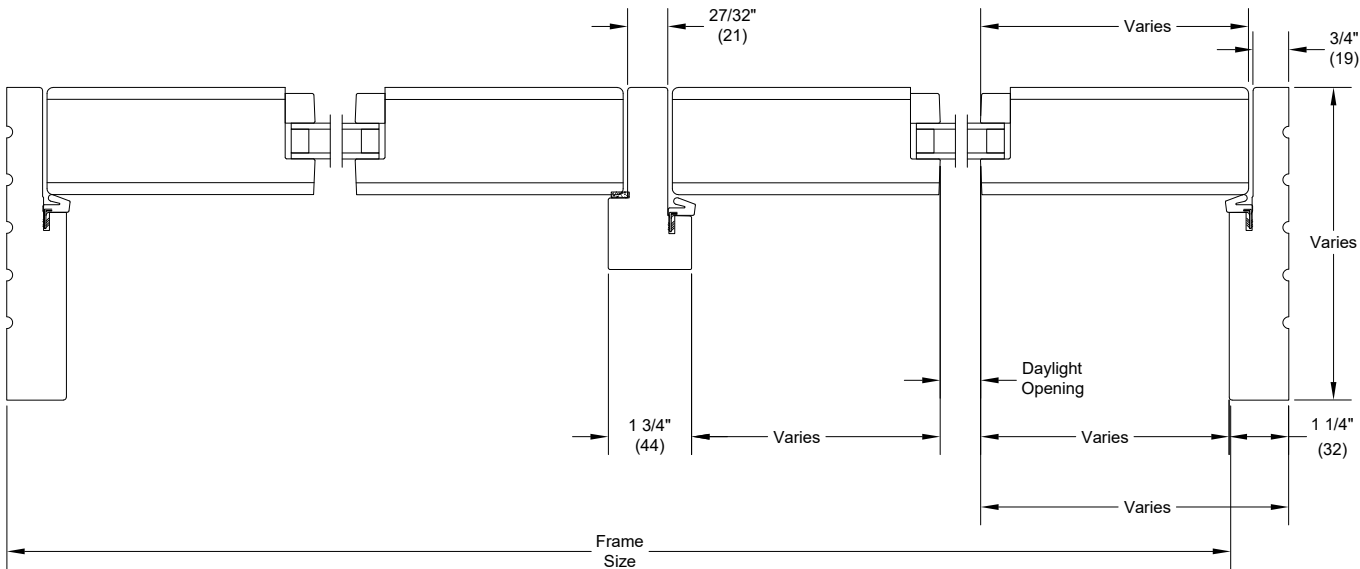


Jambs - Single

SECTION DETAILS - OPERATING - PAIR - 2 1/4" DOOR

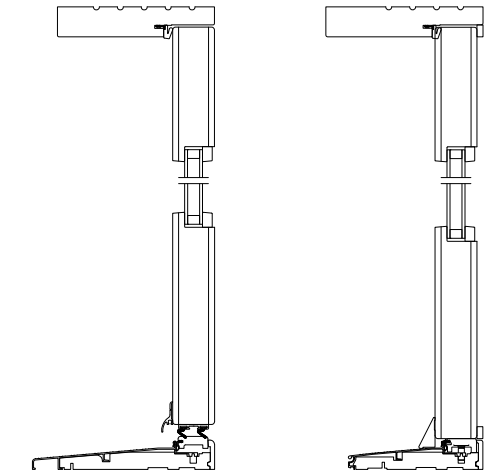


Head Jamb and Sill

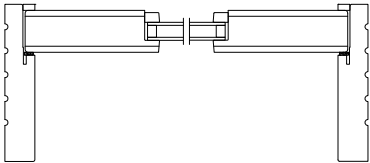


Jams - Pair

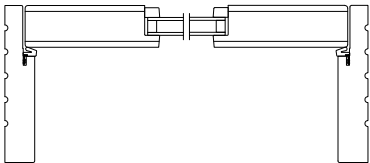
SECTION DETAILS - SINGLE, PAIR, SIDELITE- 1 3/4" DOOR



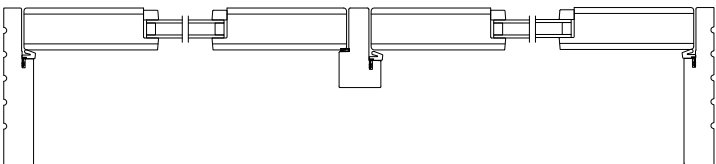
Head Jamb and Sill Door Head Jamb and Sill Sidelite



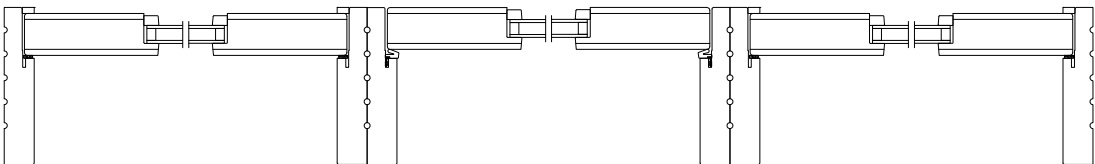
Jambs - Sidelite



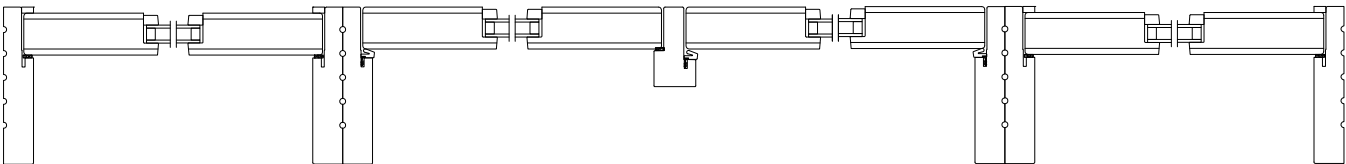
Jambs - Single



Jambs - Pair

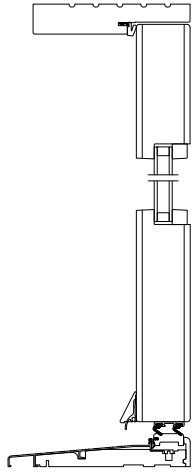


Jambs - Sidelite, Single, Sidelite - Back to Back

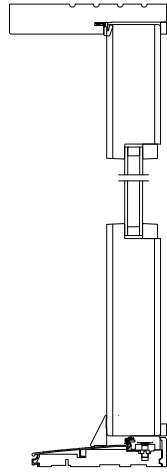


Jambs - Sidelite, Pair, Sidelite - Back to Back

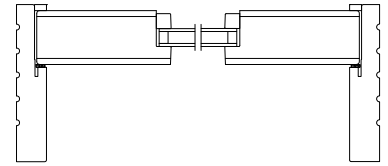
SECTION DETAILS - SINGLE, PAIR, SIDELITE- 2 1/4" DOOR



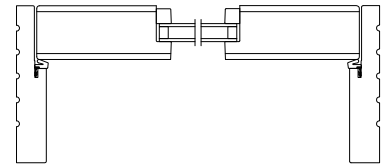
Head Jamb and Sill
Door



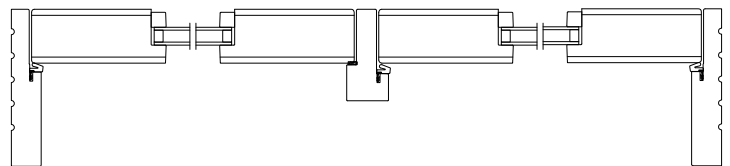
Head Jamb and Sill
Sidelite



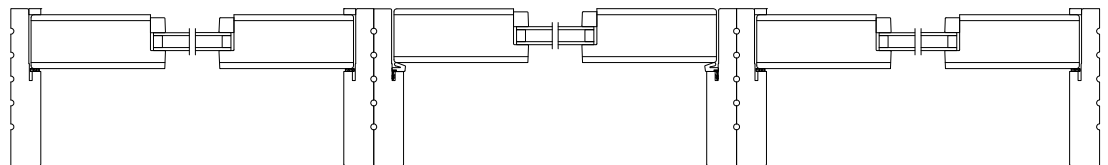
Jambs - Sidelite



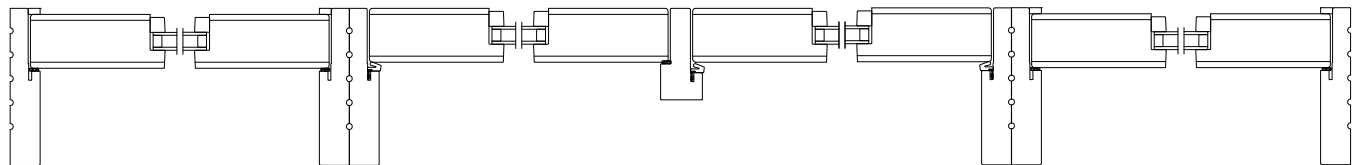
Jambs - Single



Jambs - Pair

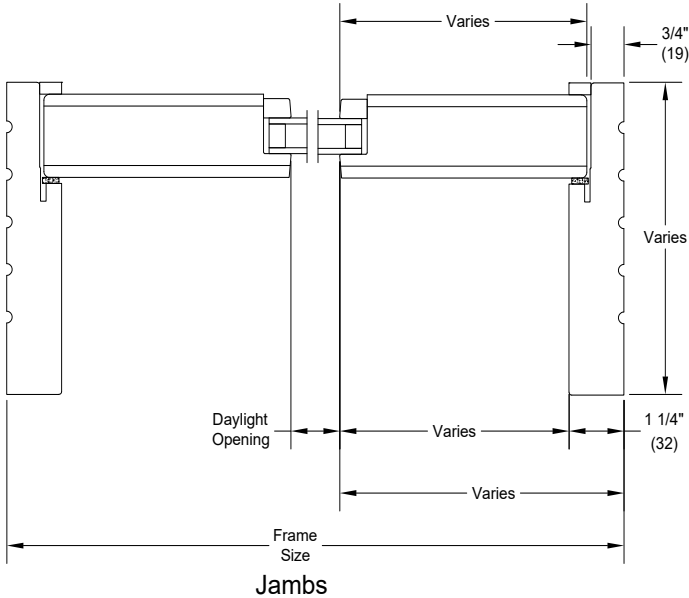
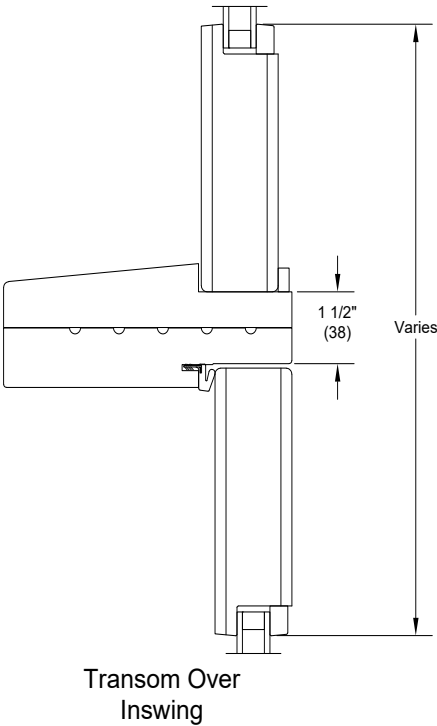
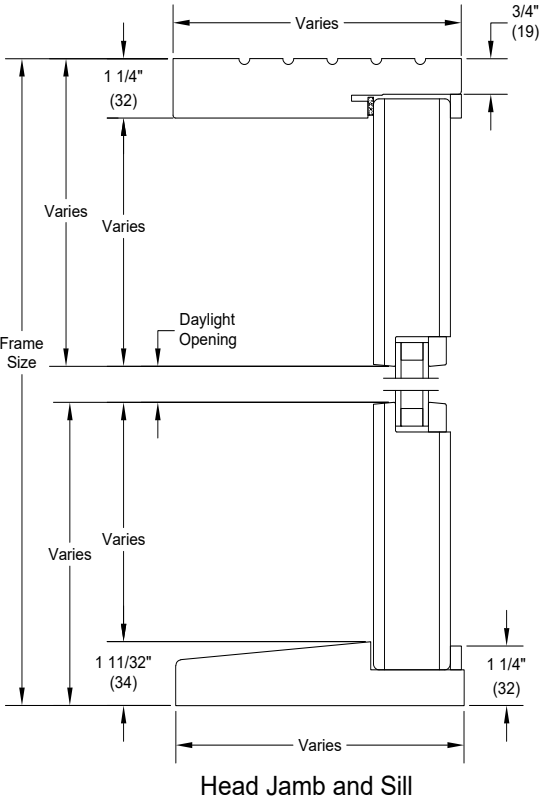


Jambs - Sidelite, Single, Sidelite - Back to Back

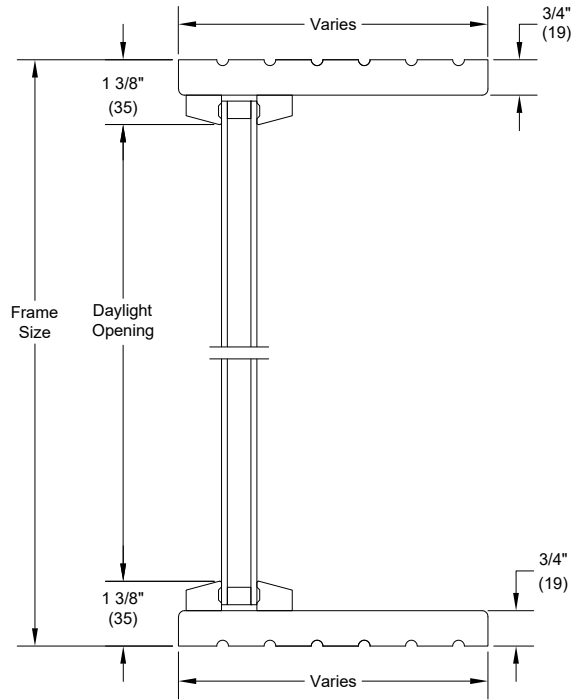


Jambs - Sidelite, Pair, Sidelite - Back to Back

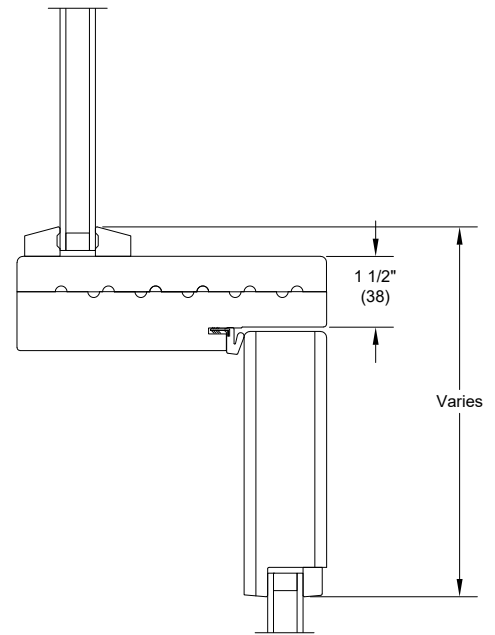
SECTION DETAILS - IN-SASH TRANSOM



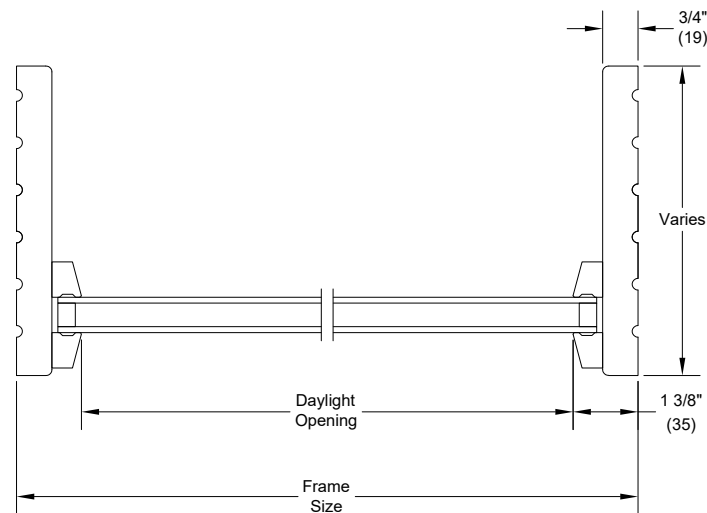
SECTION DETAILS - DIRECT SET TRANSOM



Head Jamb and Sill

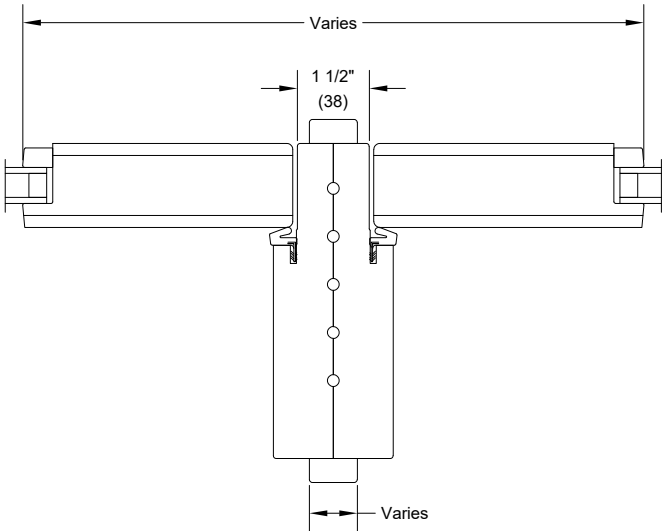


Transom Over Inswing

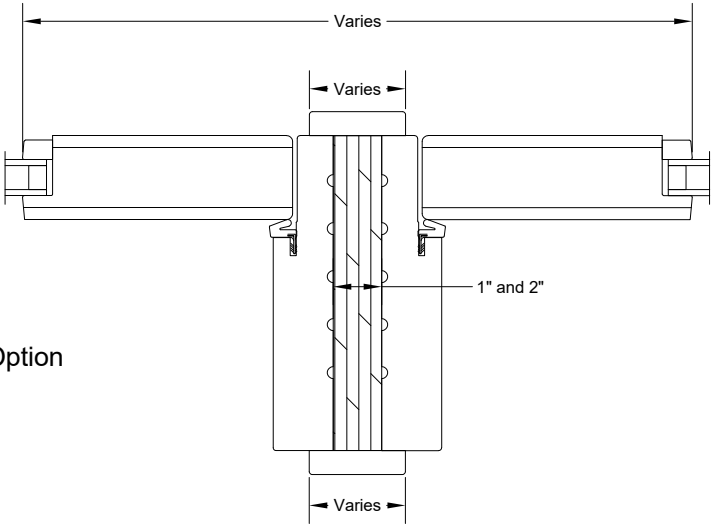


Jambs

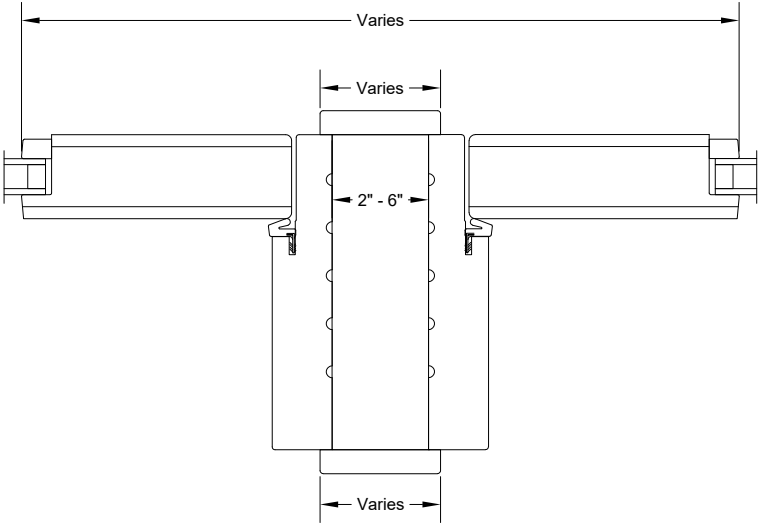
Direct Mull



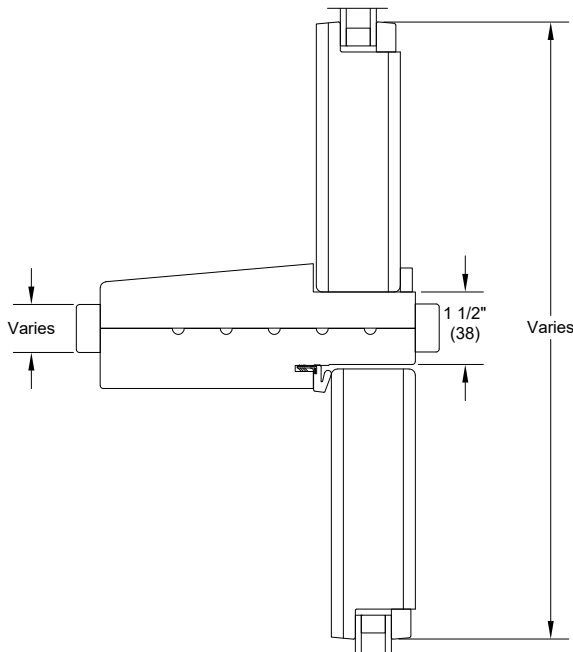
Reinforced Mull
1" LVL Option and 2" LVL Option



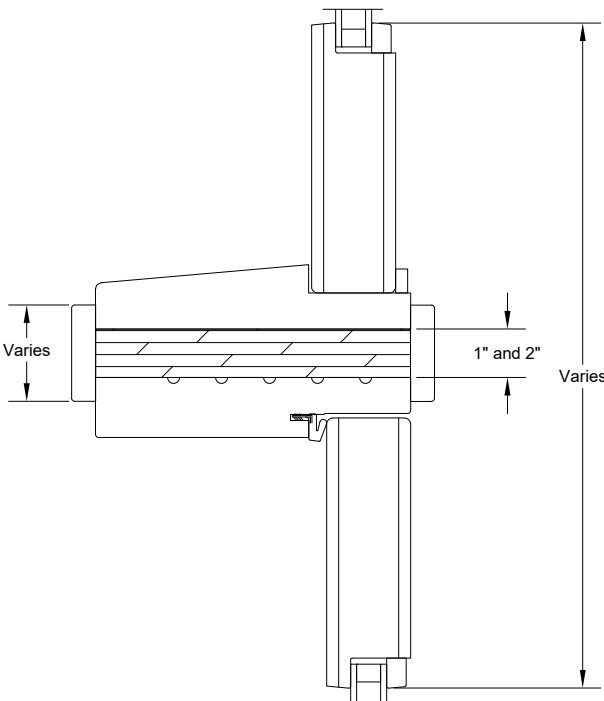
Spread Mull
2" - 6"



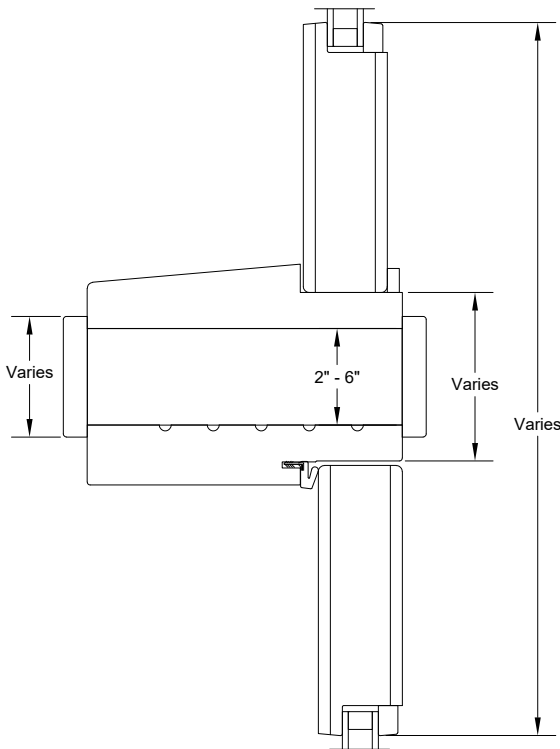
SECTION DETAILS - HORIZONTAL MULLING OPTIONS



Direct Mull

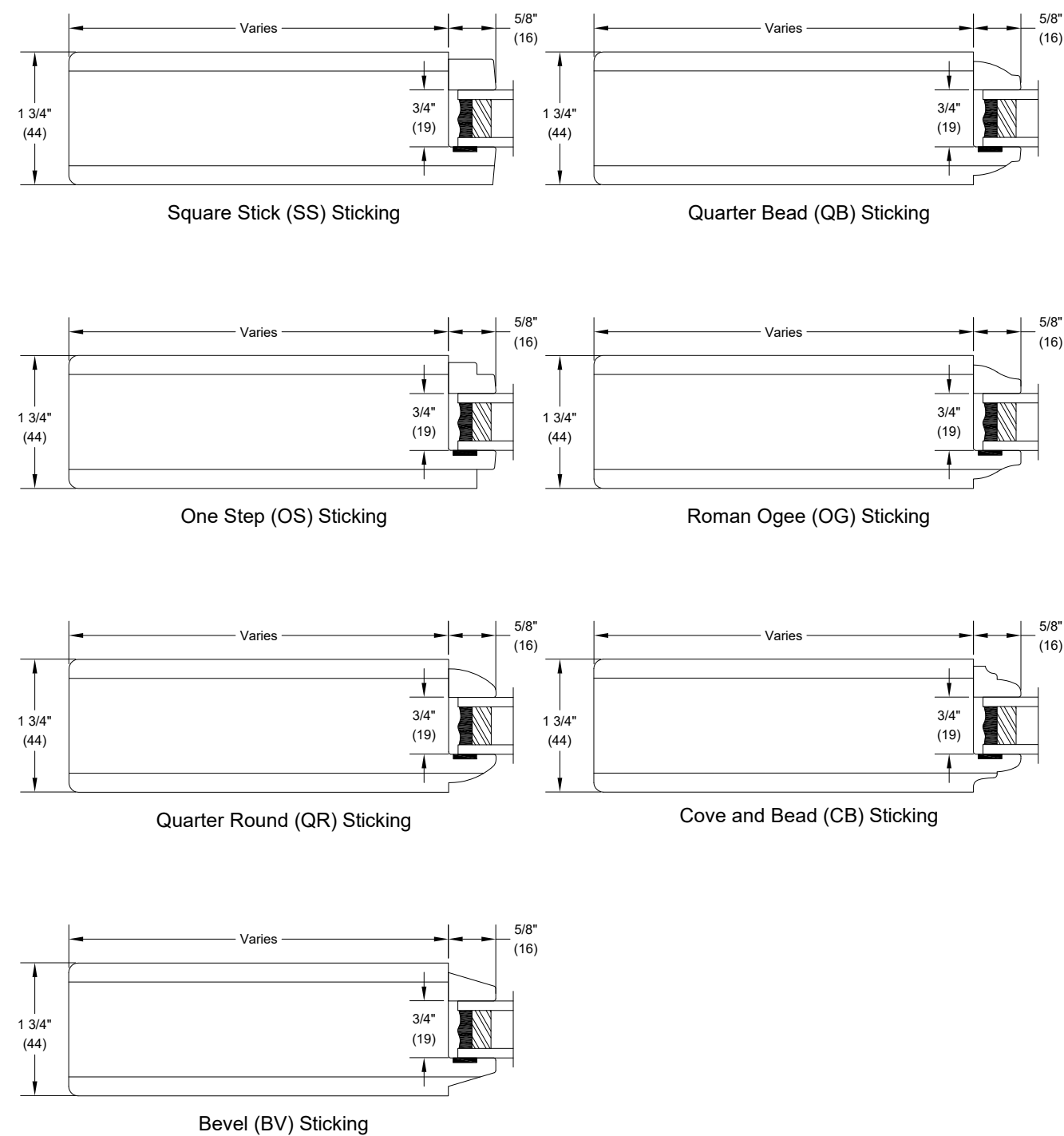


Reinforced Mull
1" LVL Option and 2" LVL Option

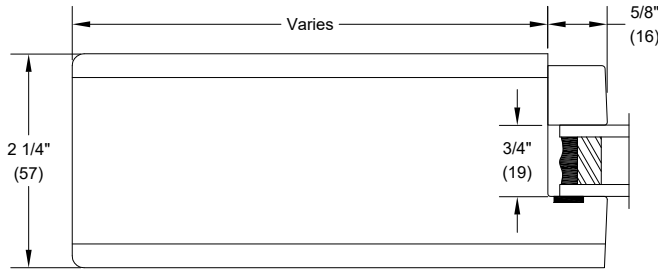


Spread Mull
2" - 6"

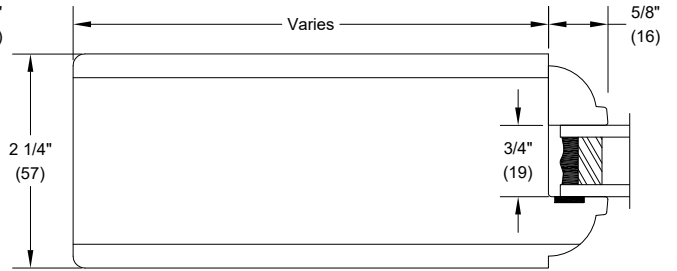
STICKING OPTIONS - 1 3/4" DOOR



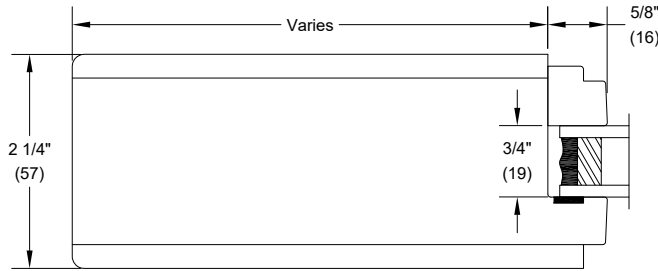
STICKING OPTIONS - 2 1/4" DOOR



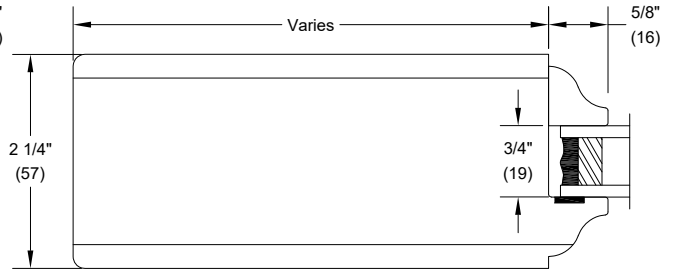
Square Stick (SS) Sticking



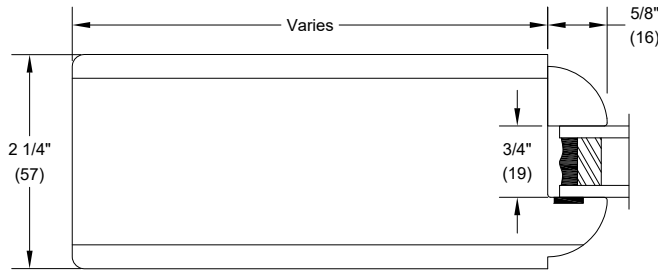
Quarter Bead (QB) Sticking



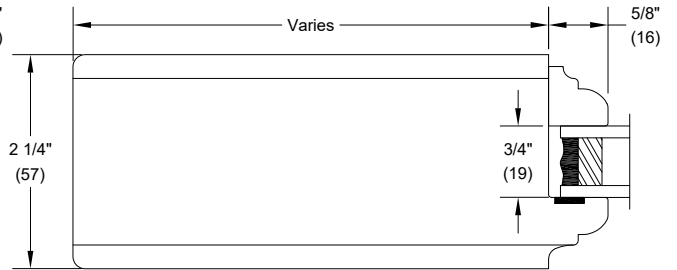
One Step (OS) Sticking



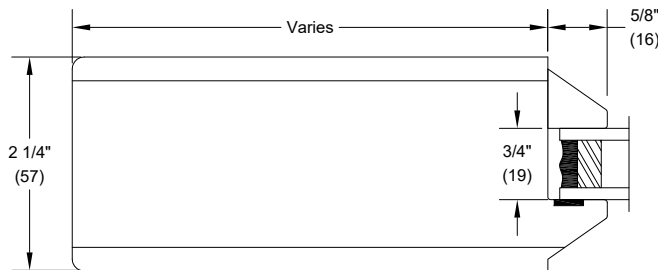
Roman Ogee (OG) Sticking



Quarter Round (QR) Sticking

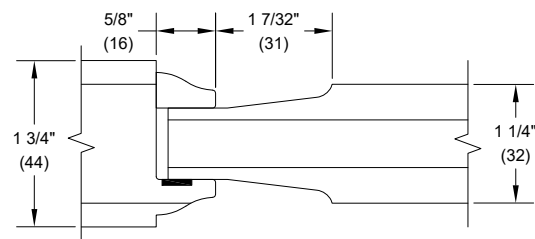


Cove and Bead (CB) Sticking

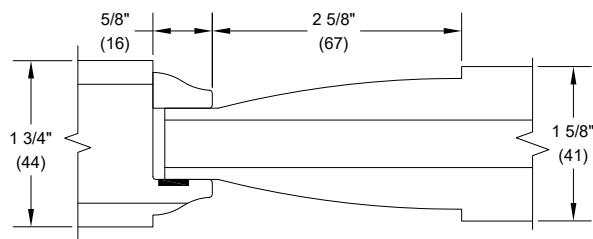


Bevel (BV) Sticking

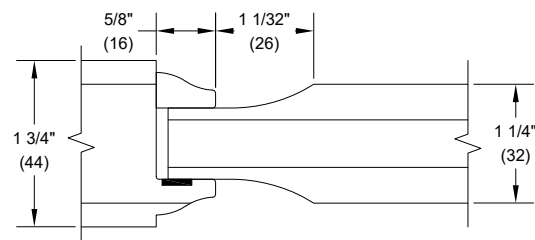
PANEL OPTIONS - 1/ 3/4" DOOR



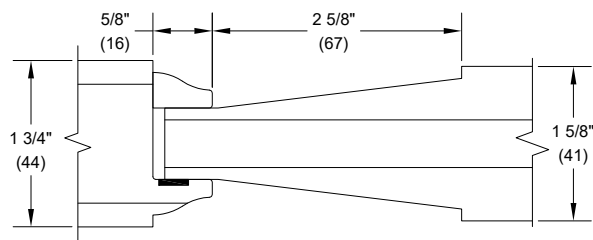
A - Raised



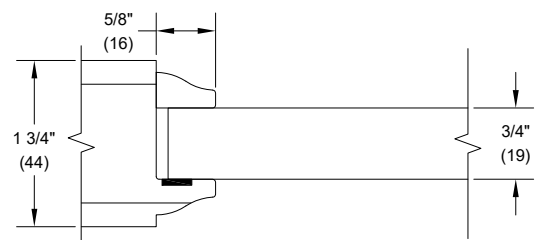
E - Senior Raised



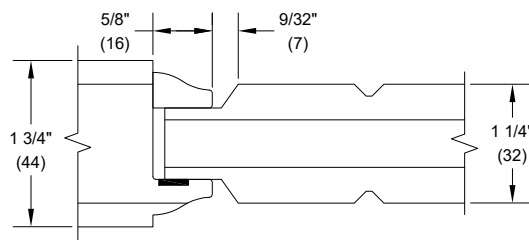
B - Scoop Rim Raised



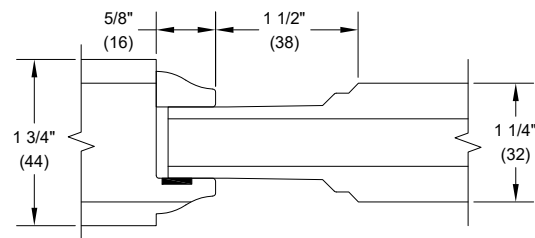
F - Senior Bevel



C - Flat



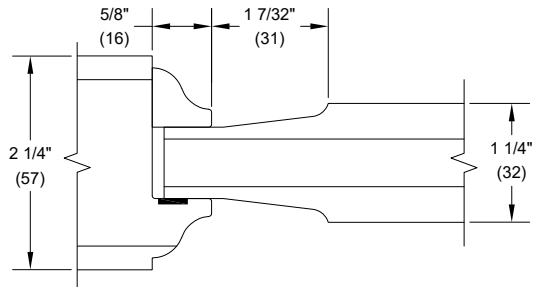
VG - V Groove



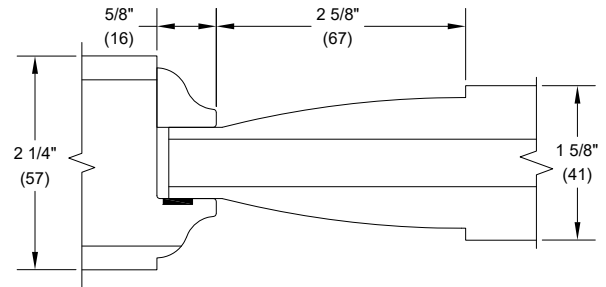
D - Double Hip

NOTE: ALL SHOWN WITH OG STICKING

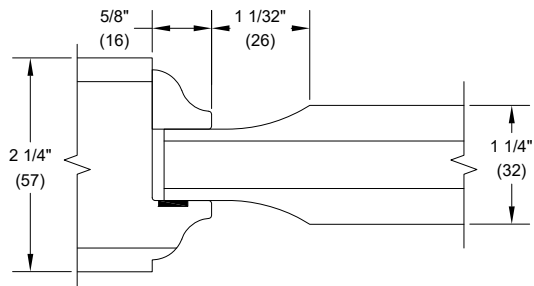
PANEL OPTIONS - 2 1/4" DOOR



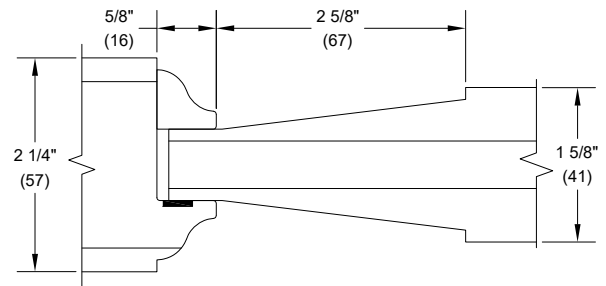
A - Raised



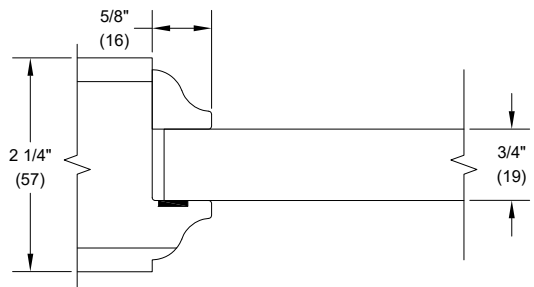
E - Senior Raised



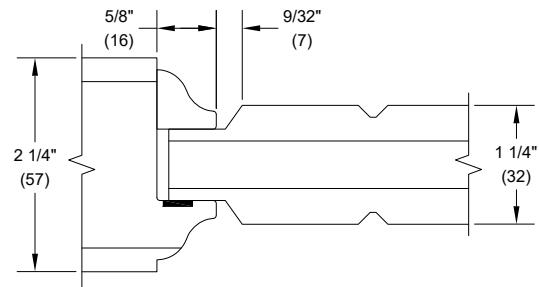
B - Scoop Rim Raised



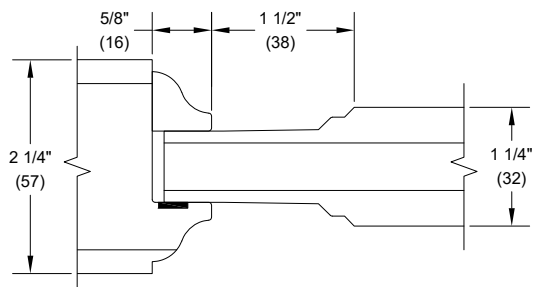
F - Senior Bevel



C - Flat



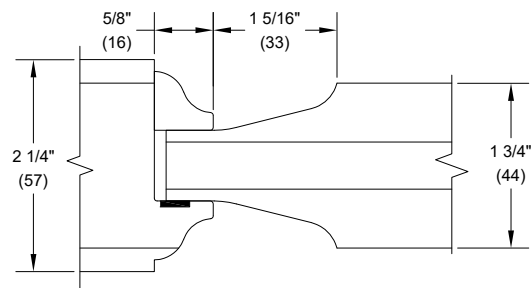
VG - V Groove



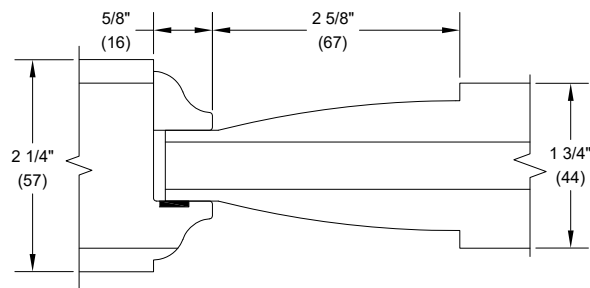
D - Double Hip

NOTE: ALL SHOWN WITH OG STICKING

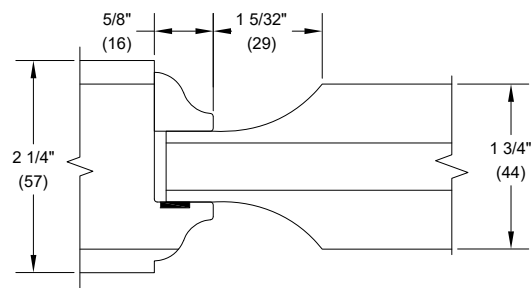
PANEL OPTIONS - 2 1/4" DOOR



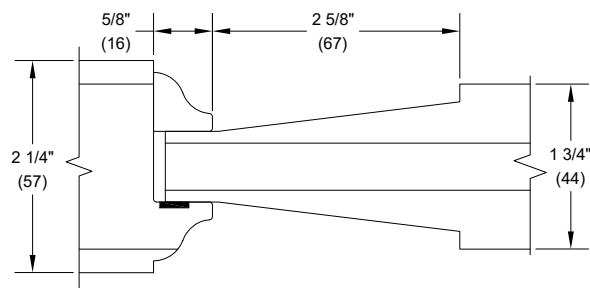
A - Raised



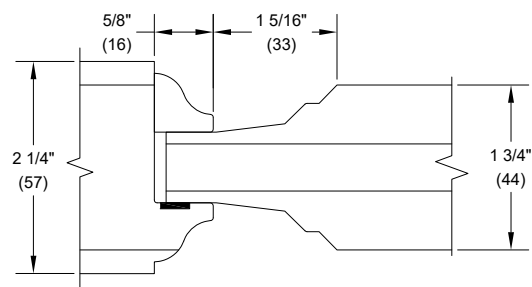
E - Senior Raised



B - Scoop Rim Raised



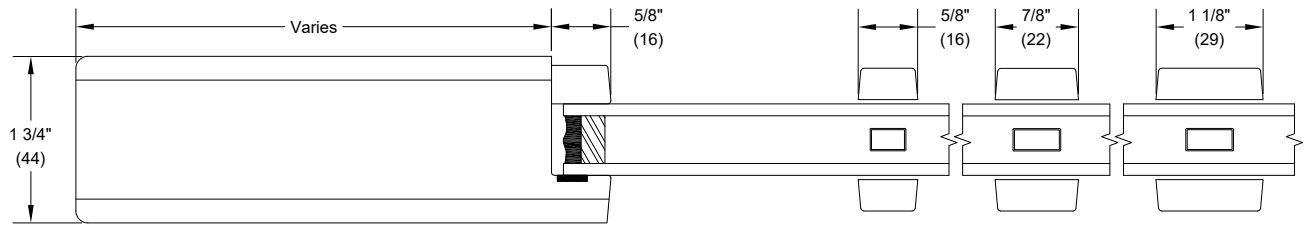
F - Senior Bevel



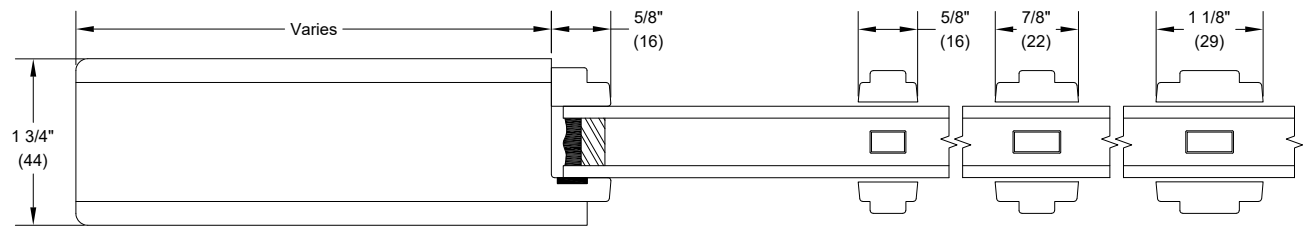
D - Double Hip

NOTE: ALL SHOWN WITH OG STICKING

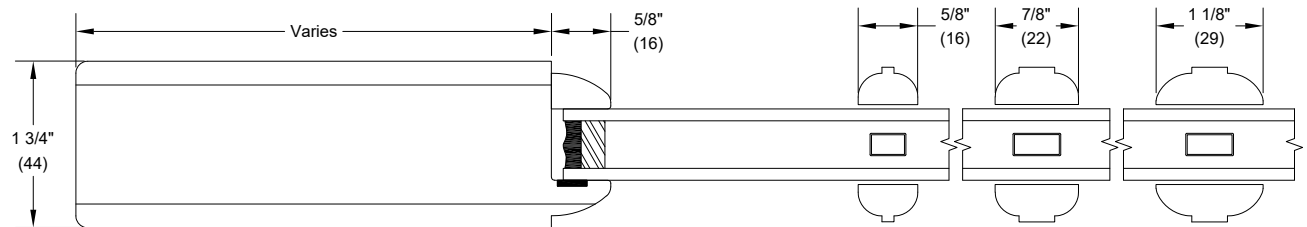
SIMULATED DIVIDED LITES (SDL) OPTIONS - 1 3/4" DOOR



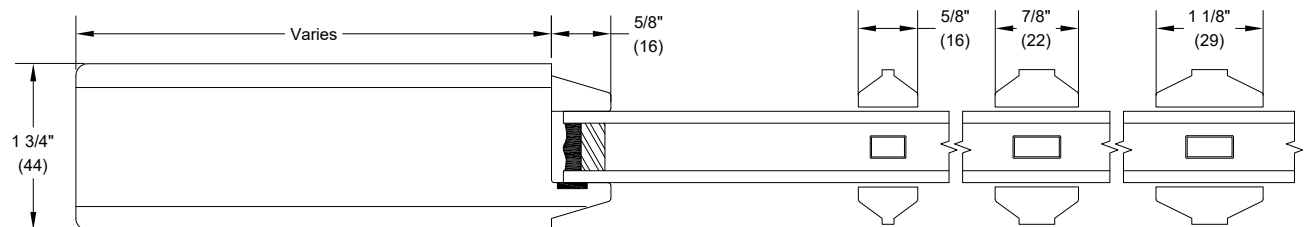
Square Stick (SS) Sticking



One Step (OS) Sticking

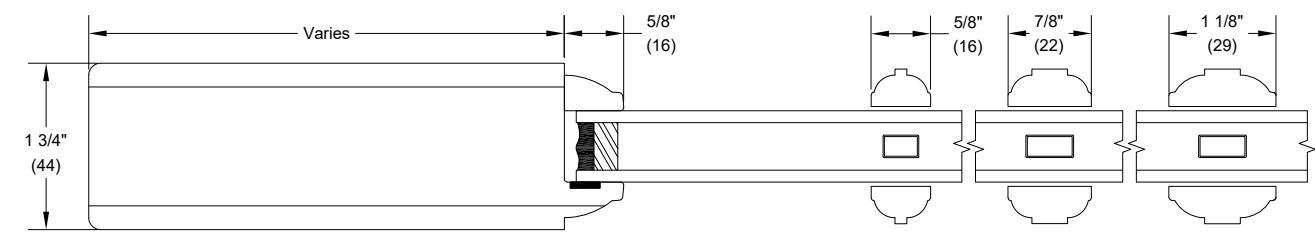


Quarter Round (QR) Sticking

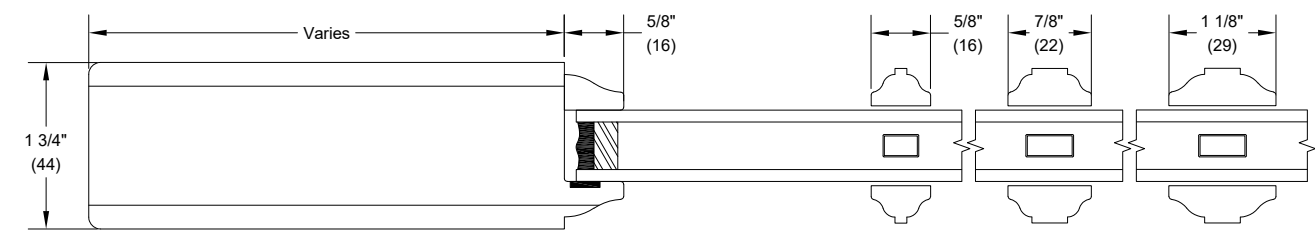


Bevel (BV) Sticking

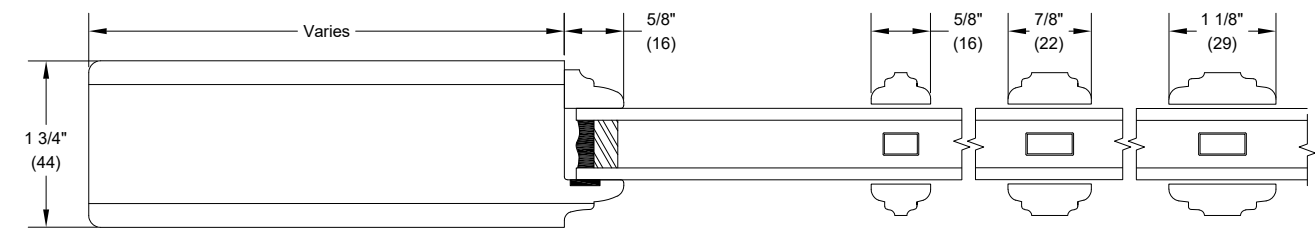
SIMULATED DIVIDED LITES (SDL) OPTIONS - 1 3/4" DOOR



Quarter Bead (QB) Sticking

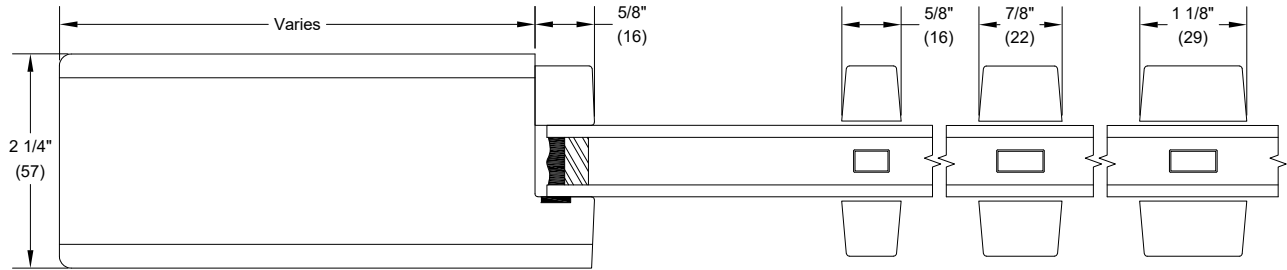


Roman Ogee (OG) Sticking

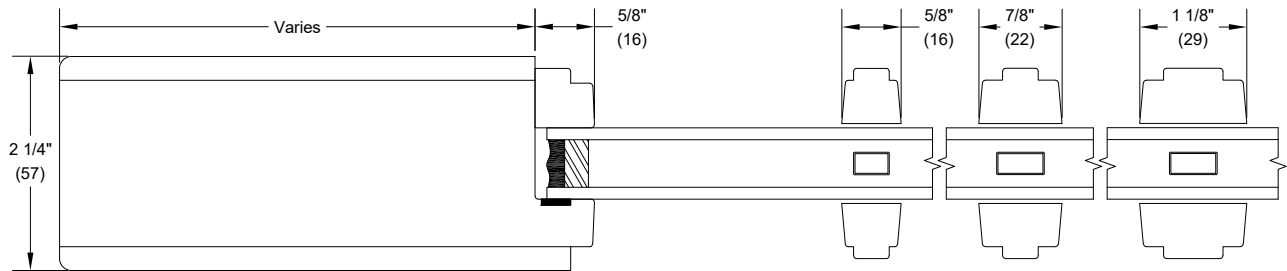


Cove and Bead (CB) Sticking

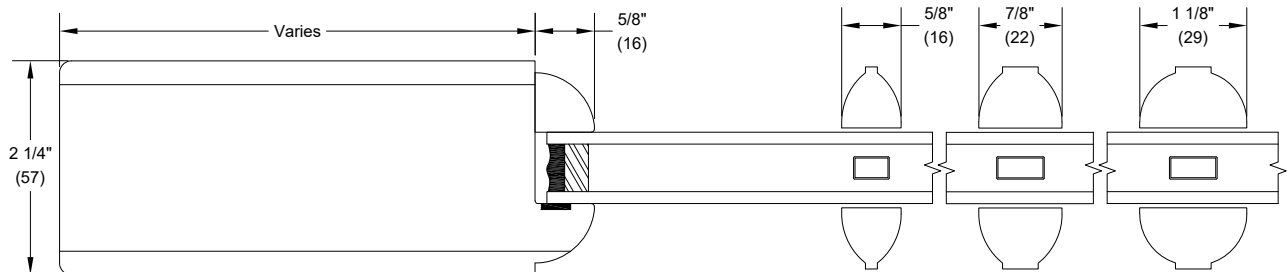
SIMULATED DIVIDED LITES (SDL) OPTIONS - 2 1/4" DOOR



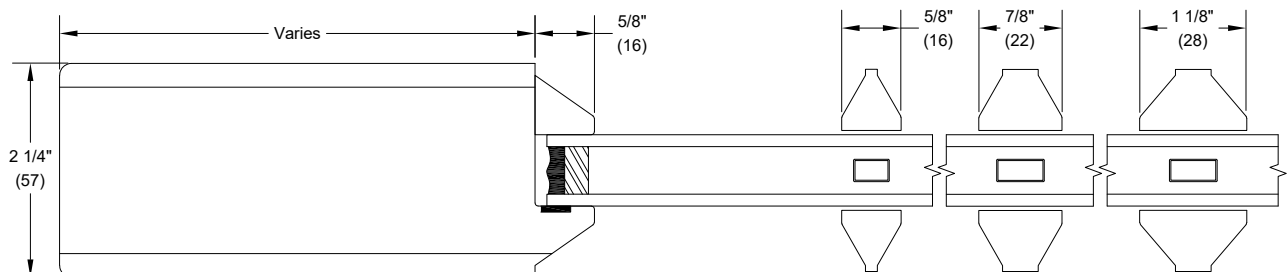
Square Stick (SS) Sticking



One Step (OS) Sticking

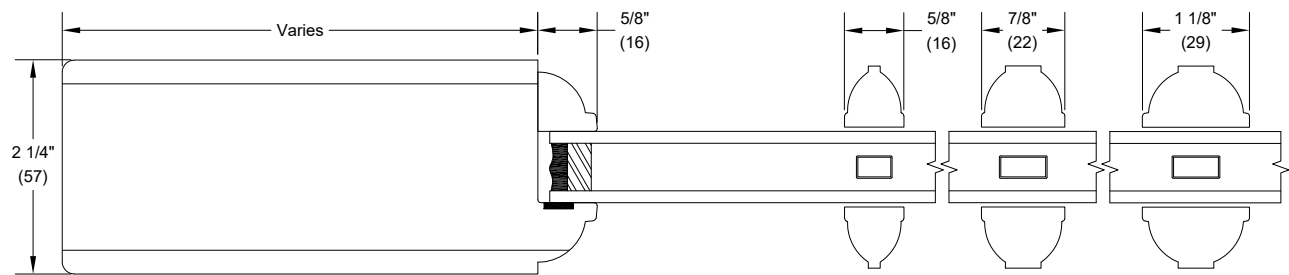


Quarter Round (QR) Sticking

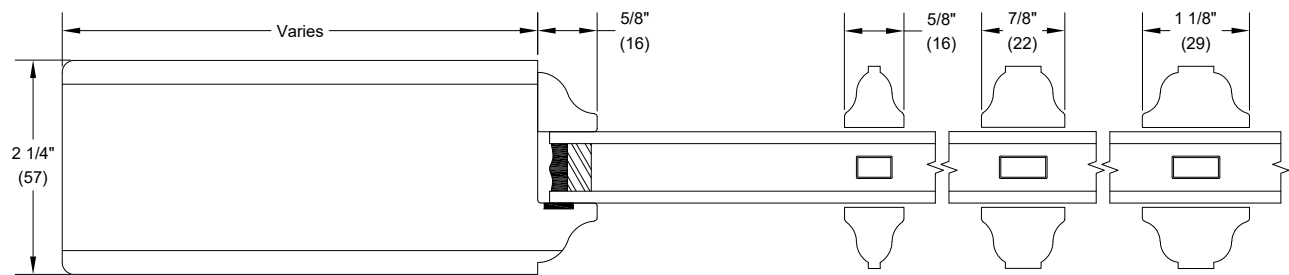


Bevel (BV) Sticking

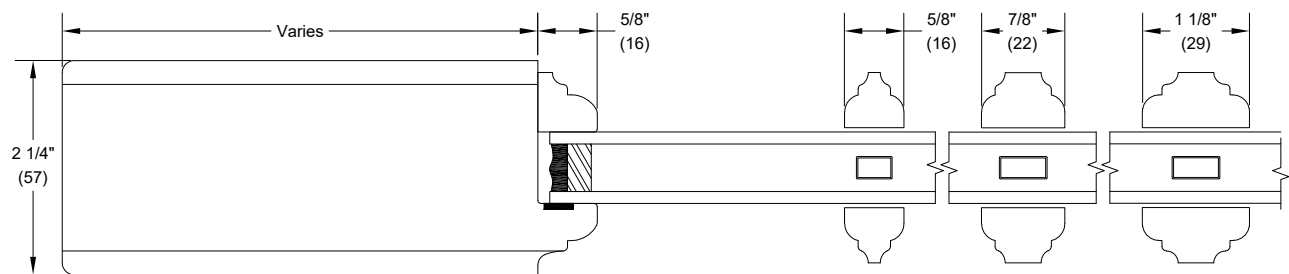
SIMULATED DIVIDED LITES (SDL) OPTIONS - 2 1/4" DOOR



Quarter Bead (QB) Sticking

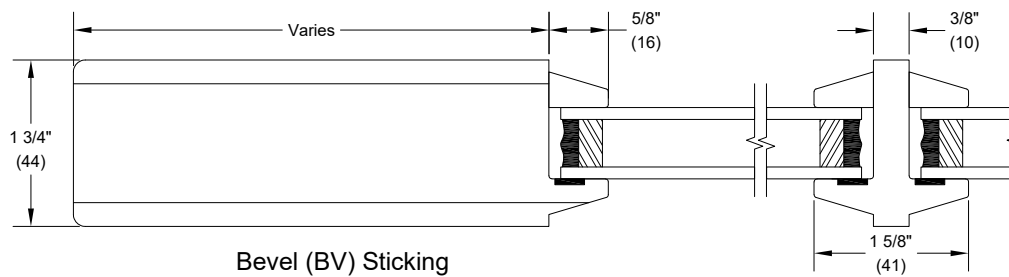
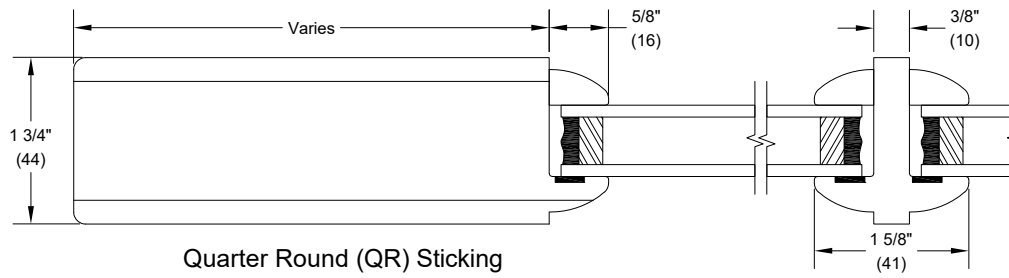
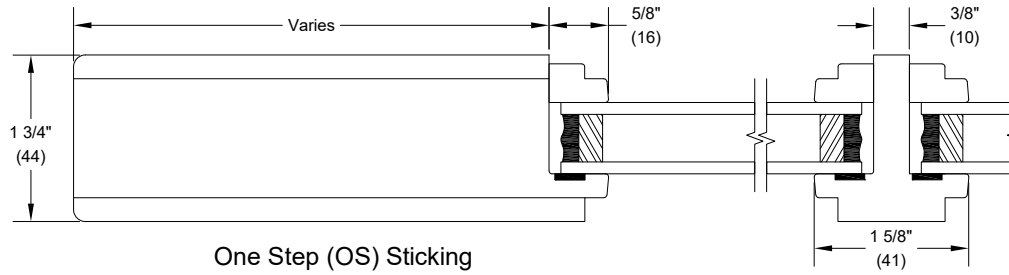
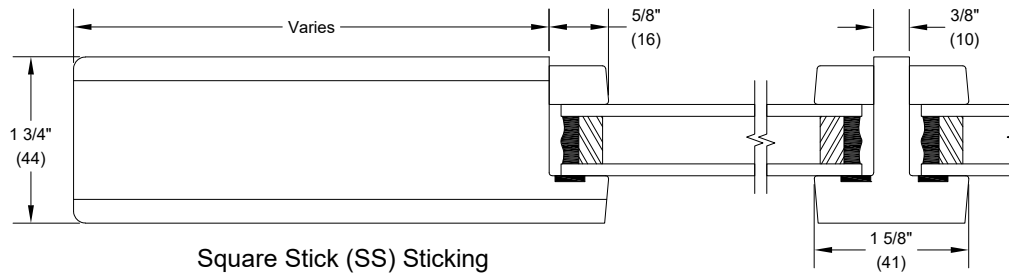


Roman Ogee (OG) Sticking

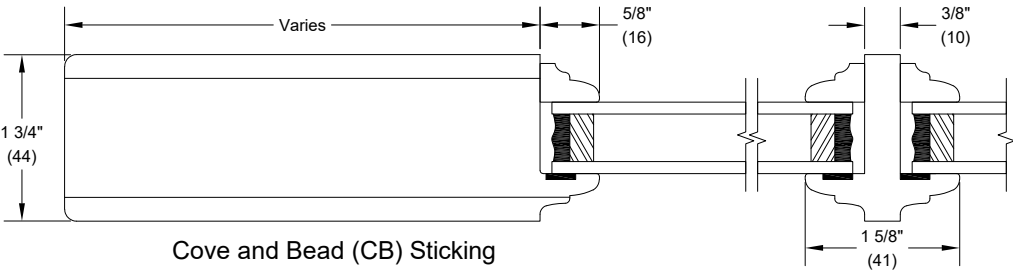
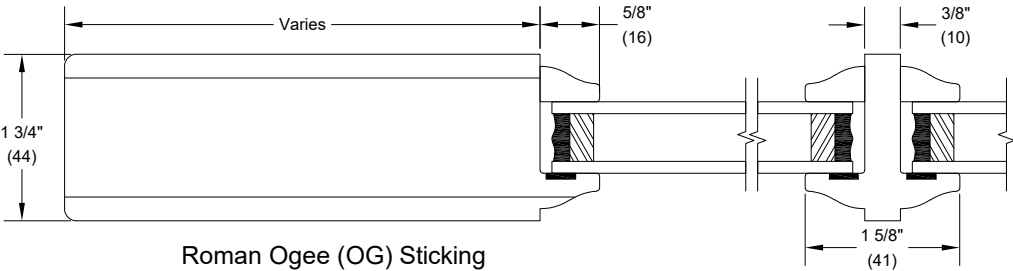
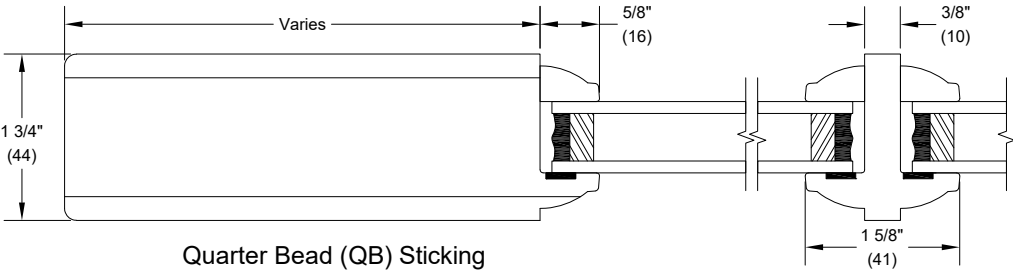


Cove and Bead (CB) Sticking

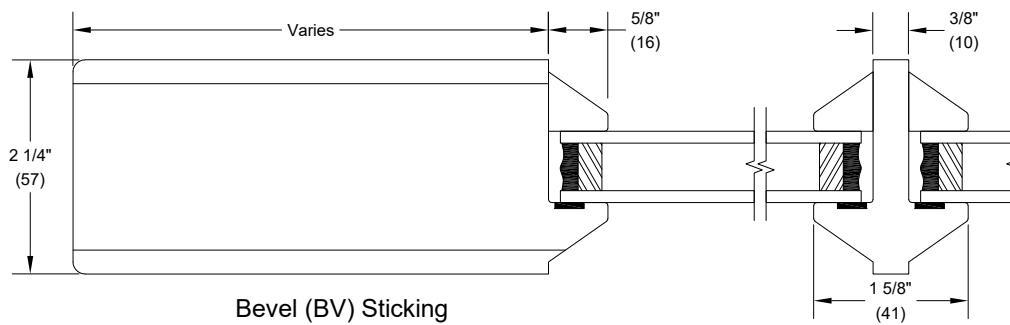
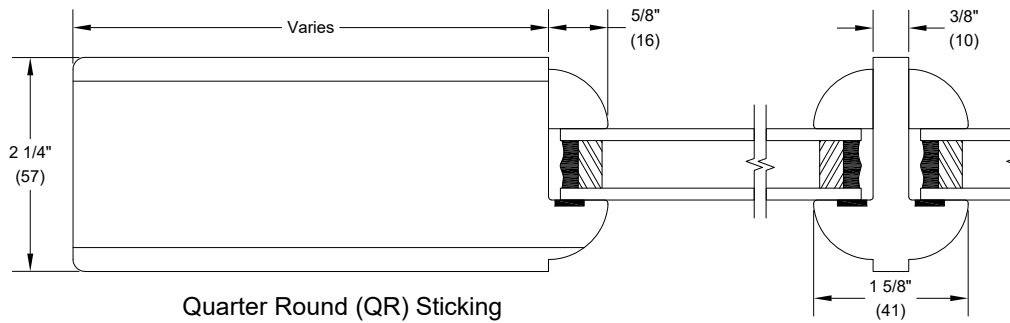
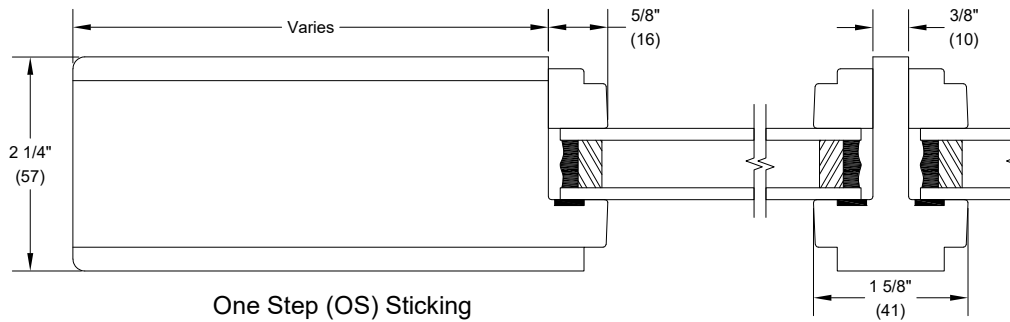
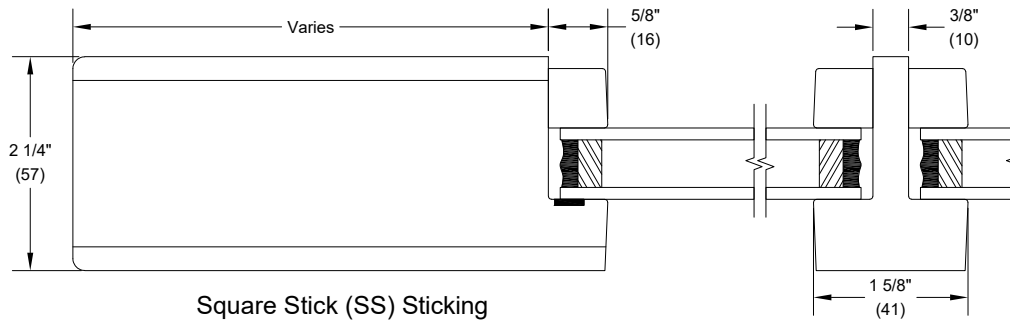
TRUE DIVIDED LITES (TDL) OPTIONS - 1 3/4" DOOR



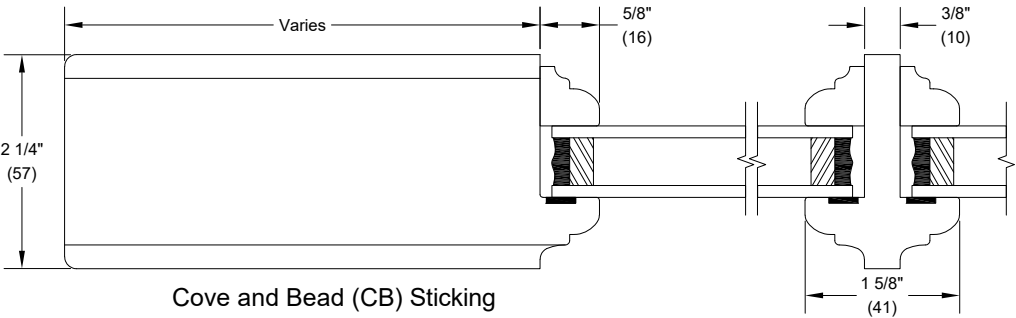
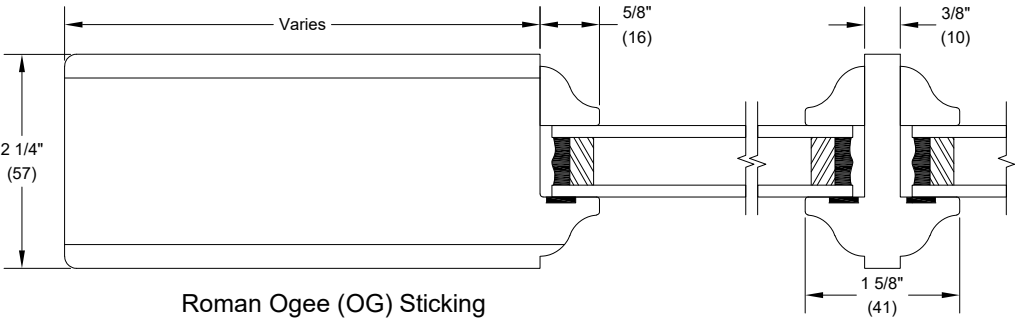
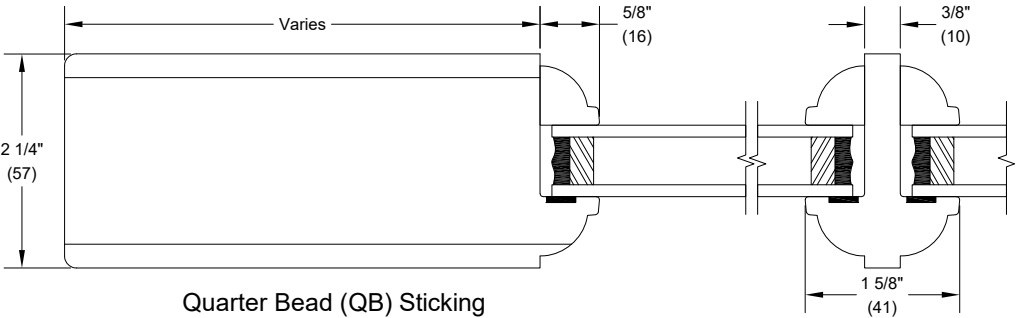
TRUE DIVIDED LITES (TDL) OPTIONS - 1 3/4" DOOR



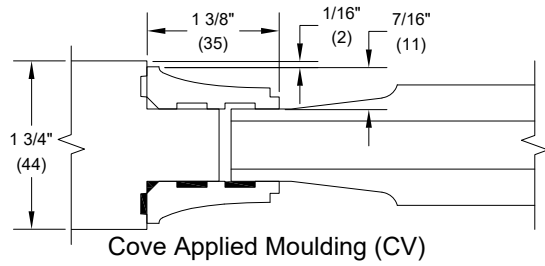
TRUE DIVIDED LITES (TDL) OPTIONS - 2 1/4" DOOR



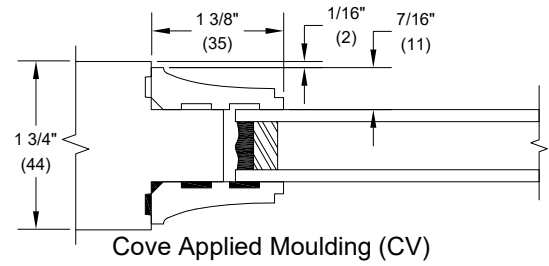
TRUE DIVIDED LITES (TDL) OPTIONS - 2 1/4" DOOR



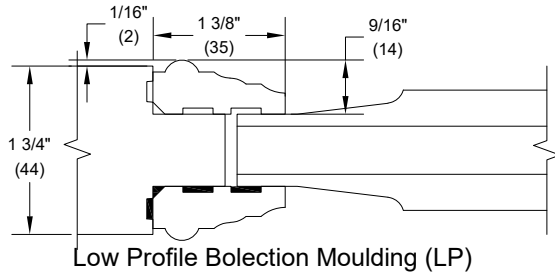
EXTERIOR APPLIED MOULDING OPTIONS (1 3/4" DOOR OPTIONS)



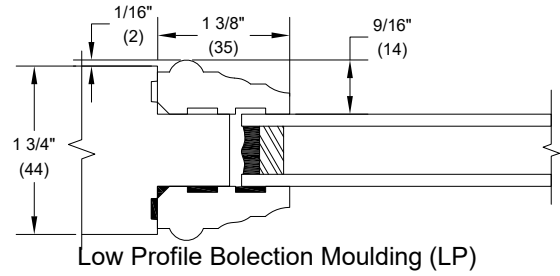
Cove Applied Moulding (CV)



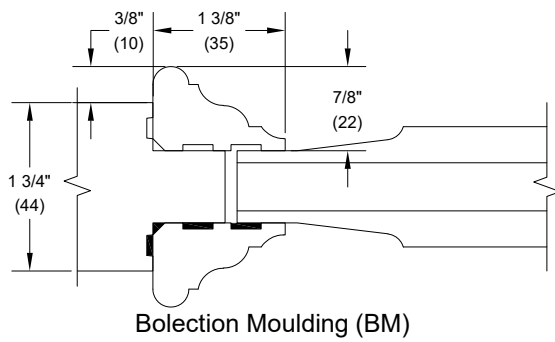
Cove Applied Moulding (CV)



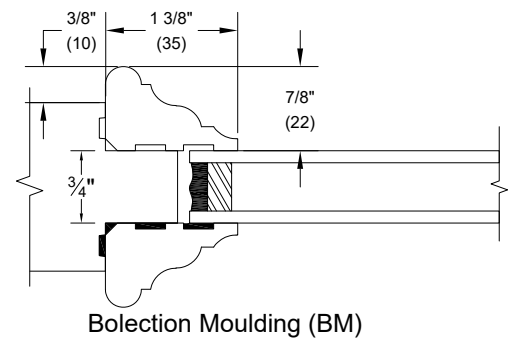
Low Profile Bolection Moulding (LP)



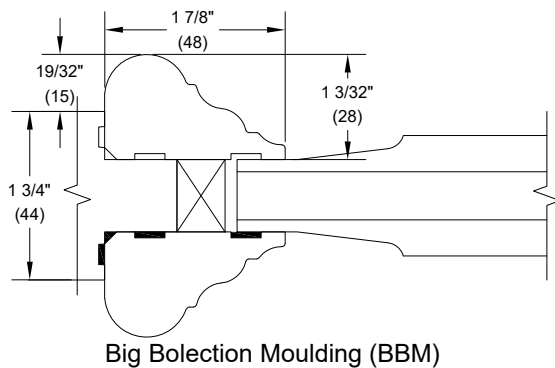
Low Profile Bolection Moulding (LP)



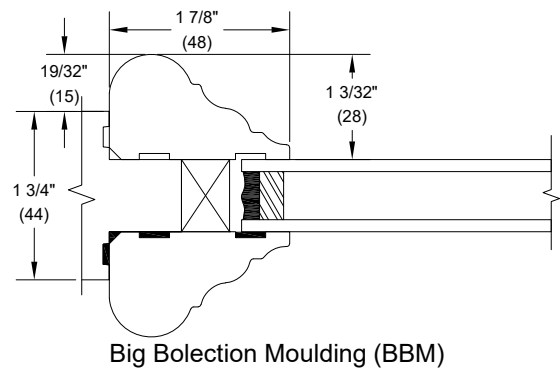
Bolection Moulding (BM)



Bolection Moulding (BM)

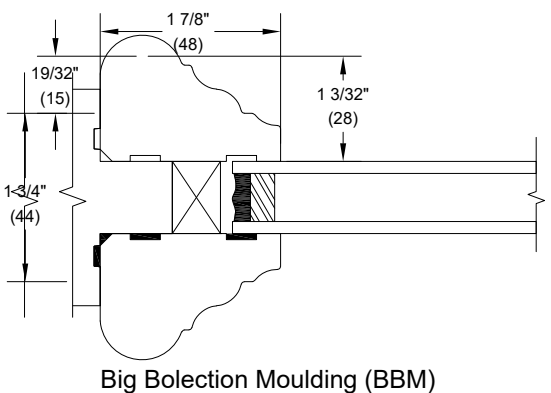
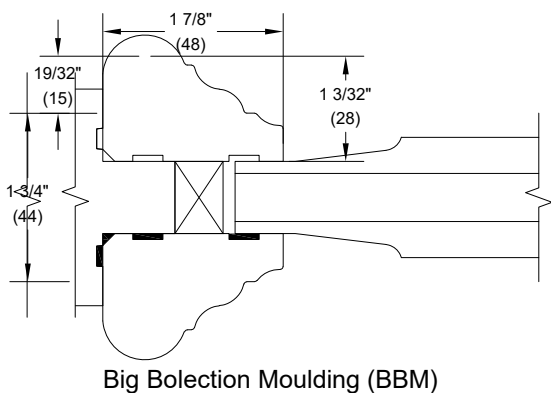
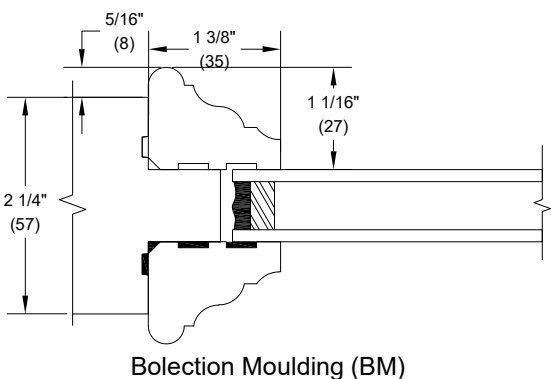
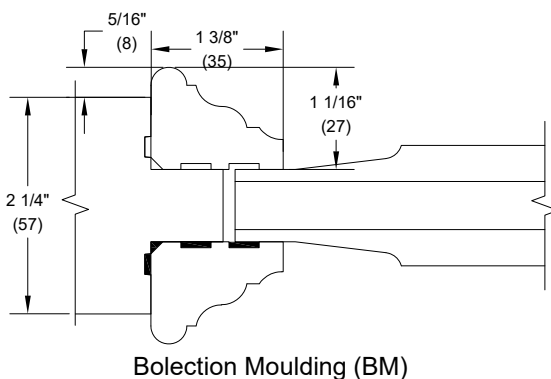
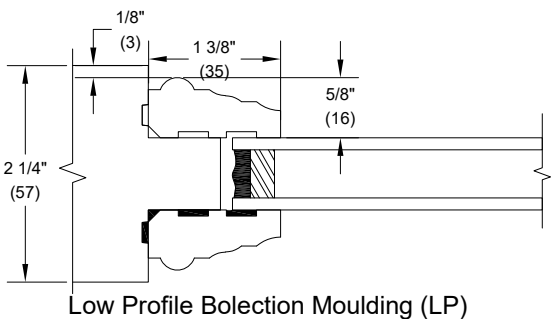
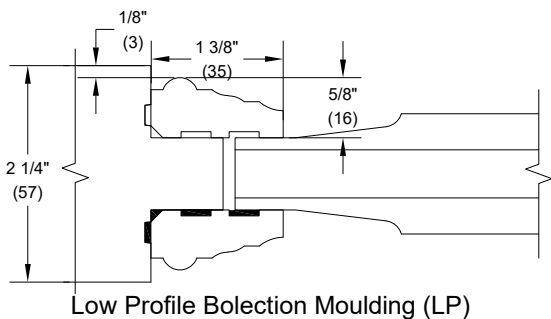
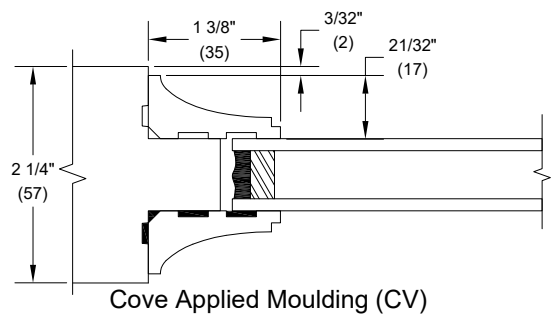
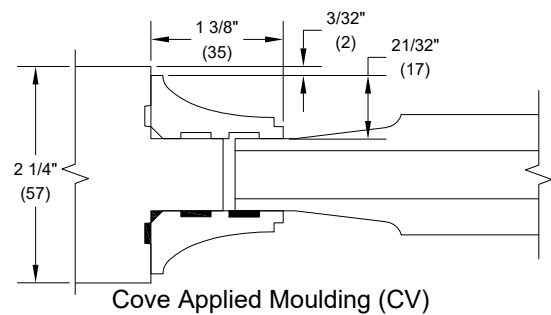


Big Bolection Moulding (BBM)

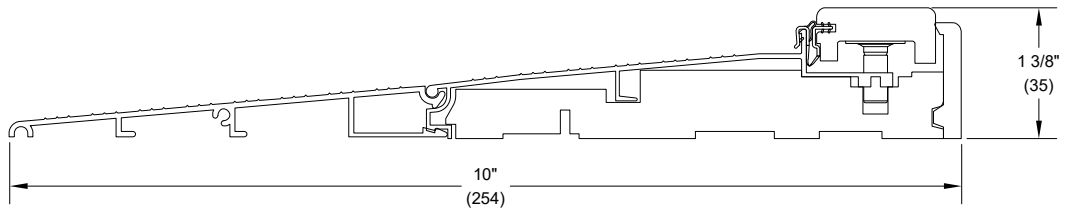
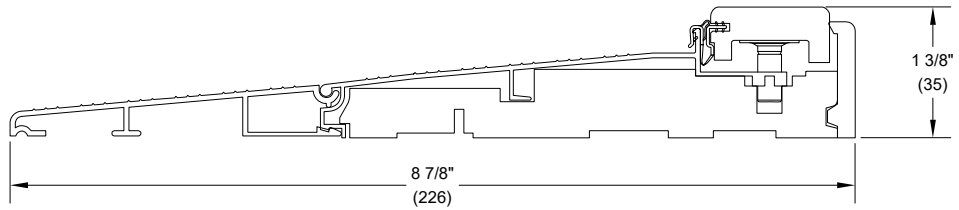
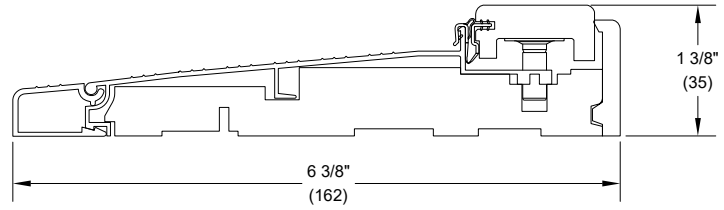
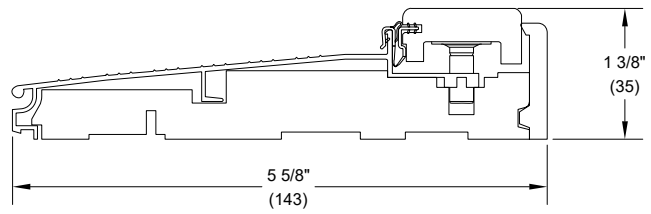
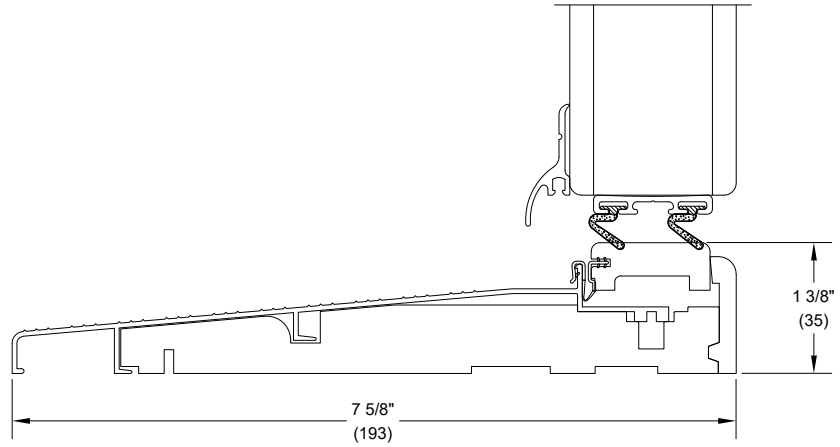


Big Bolection Moulding (BBM)

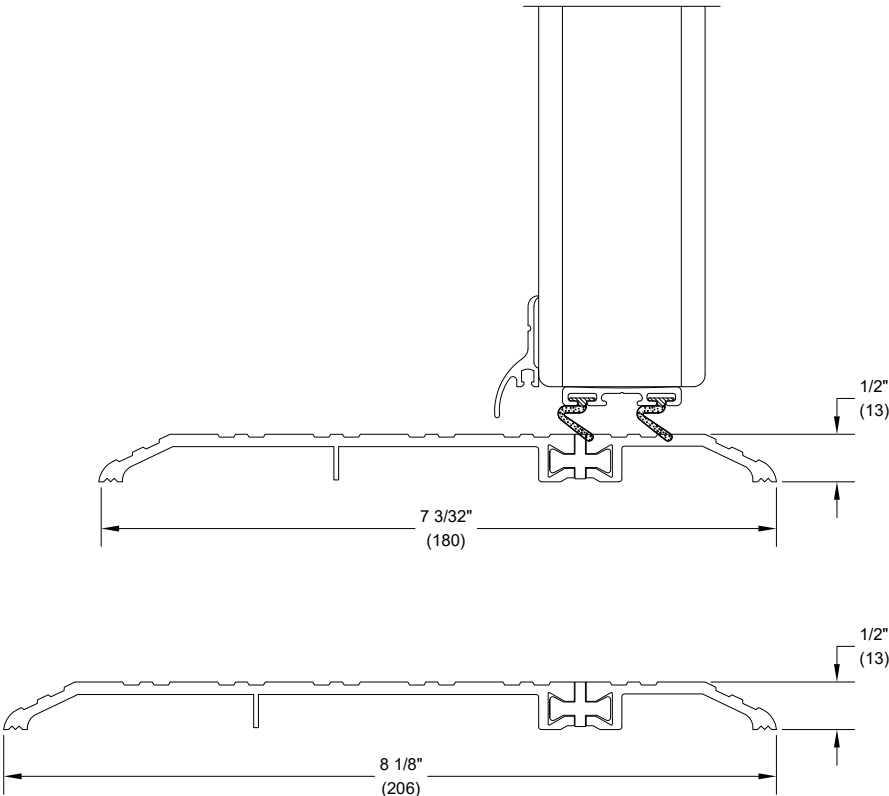
EXTERIOR APPLIED MOULDING OPTIONS (2 1/4" DOOR OPTIONS)

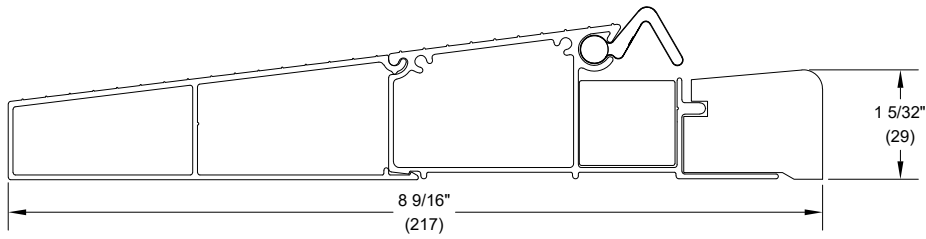
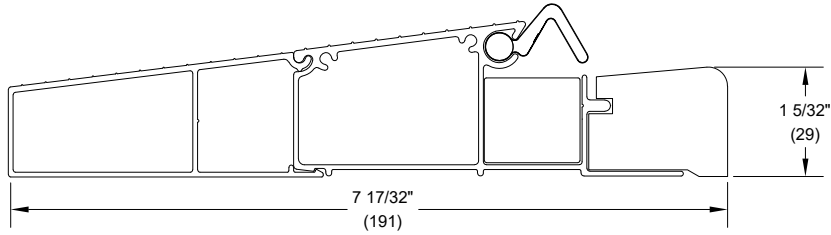
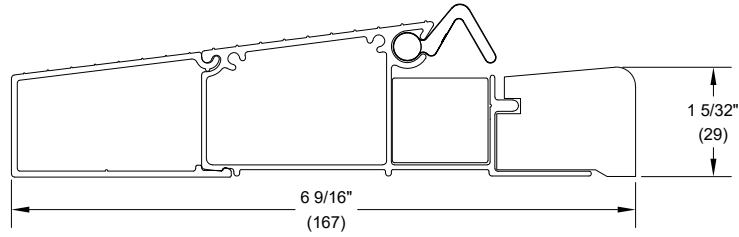
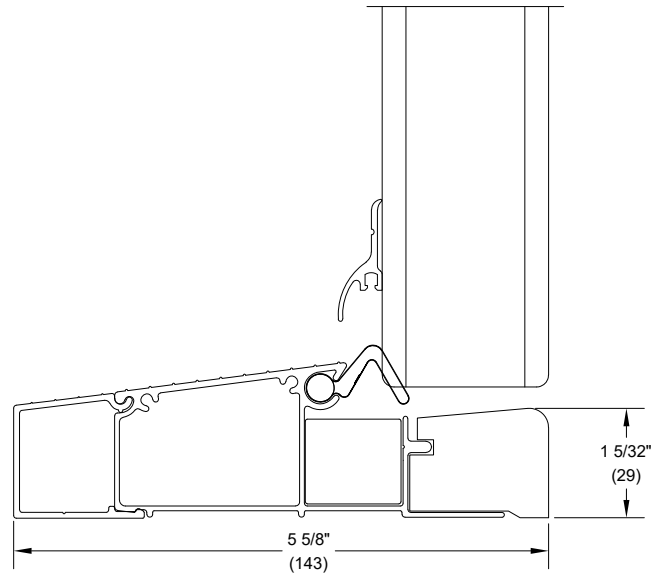


SILL OPTIONS - OAK ADJUSTABLE



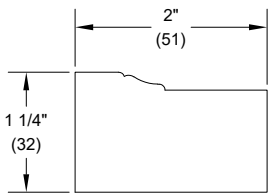
SILL OPTIONS - ADA



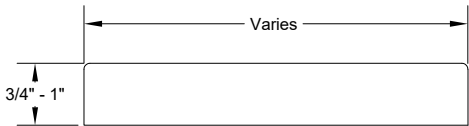


ACCESSORIES

Casings

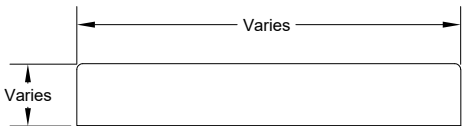


Brick Mould Casing



S4S Casing

Mull Cover



Mull Cover

Sash Stops



Square



Traditional



Metal Pemko 3452



Wood

Door Bottom



Door Bottom

Dentil Shelf Options

