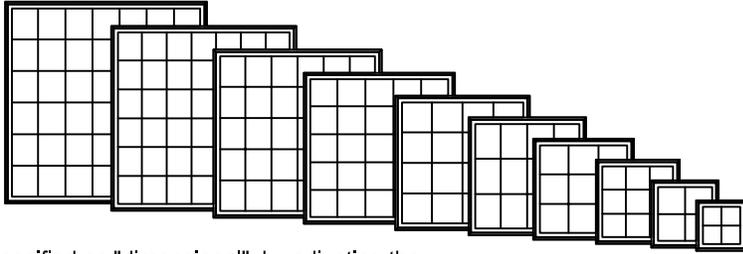

TABLE OF CONTENTS

Table of Contents.	2-1
General Information.	2-2
Grille & SDL Patterns.	2-3
Casement Handling & Operation.	2-4
Unit Sizing, Rough Opening & Masonry Openings	2-5
Trim Options	2-6
Jamb Options	2-8
Mullion Details & Specialty Trim	2-9
Glazing Options	2-12
Casement Elevation Notes	2-20
General Sector Top Information	2-21
Sector Top Casement Handling & Operation	2-22
Sector Top Casement Elevation Notes	2-23
General French Casement Information	2-24
French Casement Handling & Operation	2-25
French Casement Elevation Notes	2-26
Section Details: 6" Scale.	2-27
Bays & Bows Opening Specifications	2-45

GENERAL INFORMATION
CASEMENT



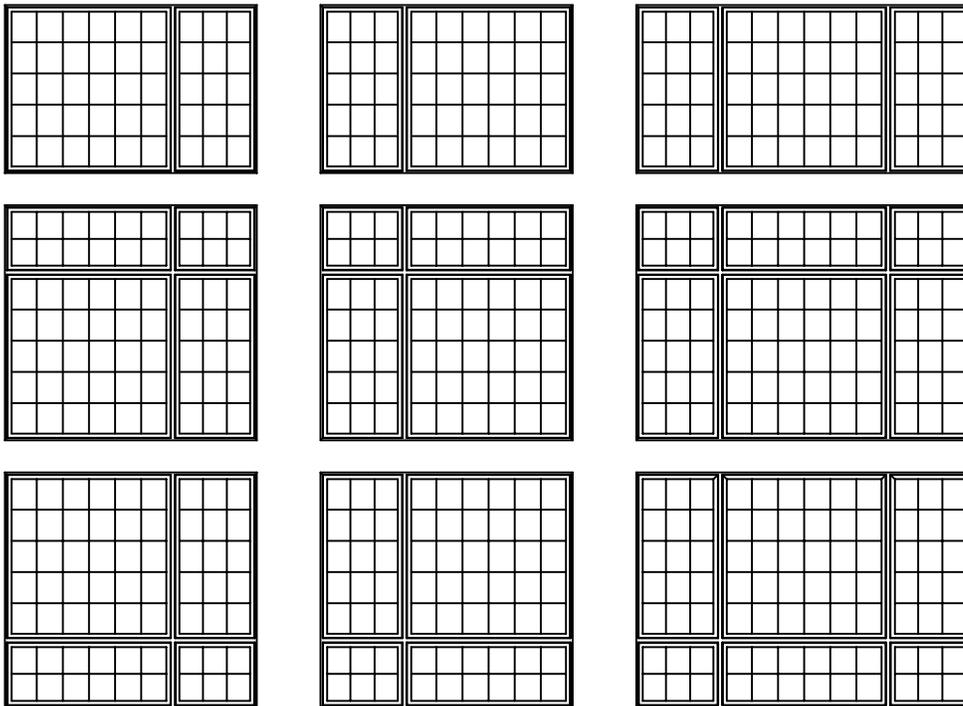
DIMENSIONAL WINDOWS

Wood casement windows may be specified as "dimensional", by adjusting the desired rough opening width or height in 1/16" increments from standard.

Wood casement windows are available with left or right hand operation, or stationary (non-venting). Operating mechanism includes corrosion resistant steel hinges and dual arm roto-type operator with hardened steel gears and operating arms. Sash locks are concealed unison type with an exposed locking lever and escutcheon plate. There are several interior hardware finish options. Refer to the Specifications for finish options.

MULTIPLE ASSEMBLIES

Wood casement windows may be mullered above, below, or beside other wood casement windows, or other wood window products.

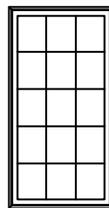


LITE CUT INFORMATION

Wood casement windows are available with removable grilles in 7/8", 1-1/8" and 1-3/8" widths, Airspace (between the panes) grilles, and Simulated Divided Lites. Standard lite cuts are rectangular, and conform to the layouts noted in the charts on the next page. To use the chart, refer to the appropriate table by the type of window and type of bars or grilles the section drawings illustrate. Then simply cross reference the frame Height and Width to determine the standard lite cut.

LITE CUT OPTIONS

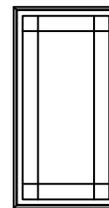
Special lite cut patterns can include a wide variety of straight line and radius patterns. The illustrations shown here represent just a few of the possibilities. Rectangular, horizontal, vertical and Prairie lite patterns are available in all standard size wood casement windows. Uneven, diamond, radius and Gothic lite cuts are available, subject to approval. Approvals are based on the ability to fulfill the design requirement while maintaining the construction integrity of the finished product.



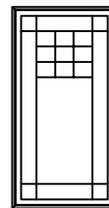
RECTANGULAR



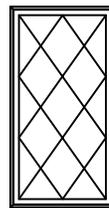
HORIZONTAL



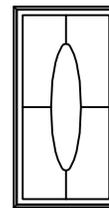
PRAIRIE



UNEVEN



DIAMOND



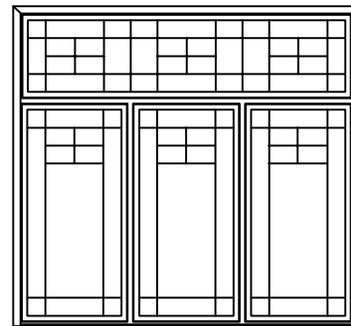
RADIUS



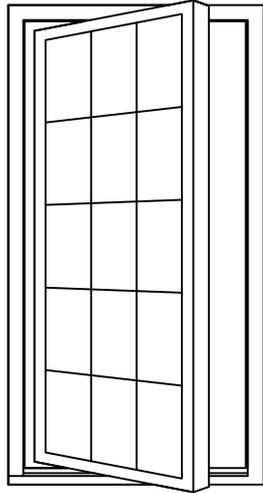
GOthic

BAR ALIGNMENT

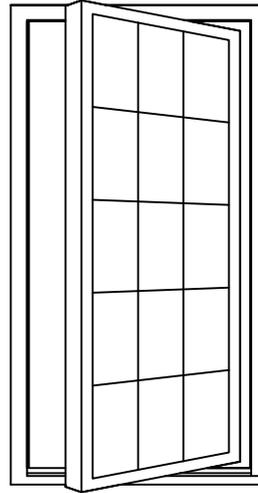
Alignment of divided lite muntin bars from one window to the next is often required by fine architectural design. Wood grilles, Grilles between the glass, and Simulated Divided Lites may be specified with muntin bars aligned.



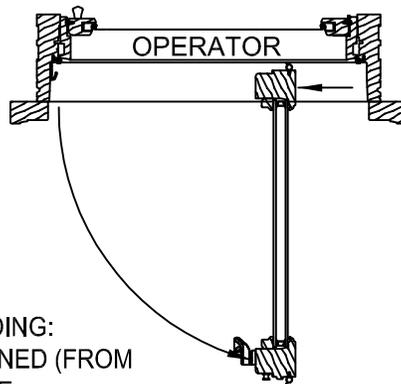
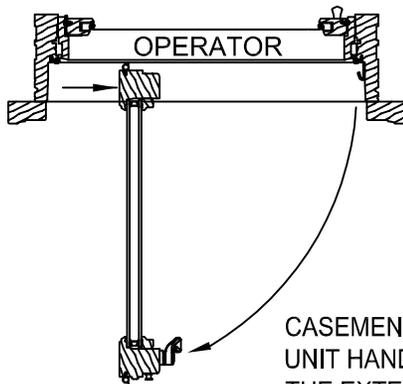
HANDING & OPERATION



LEFT
HAND

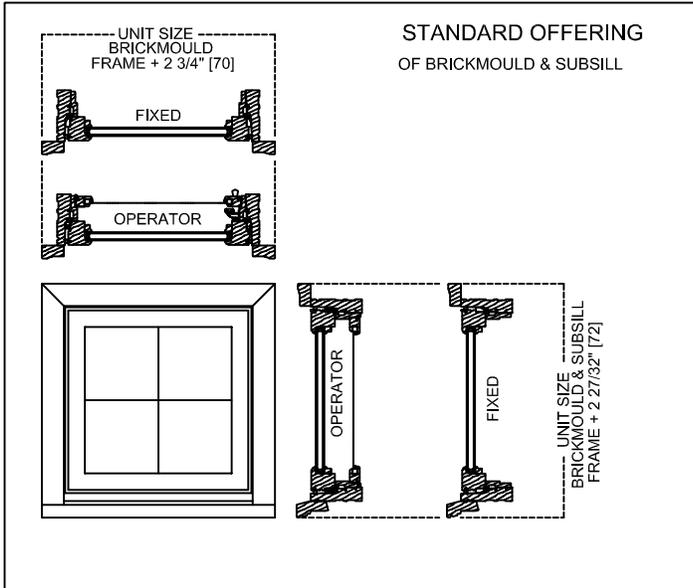


RIGHT
HAND



CASEMENT UNIT HANDING:
UNIT HANDING IS DEFINED (FROM
THE EXTERIOR) AS THE
DIRECTION THE SASH OPENS.

UNIT SIZING, ROUGH OPENINGS & MASONRY OPENINGS



GENERAL NOTES:

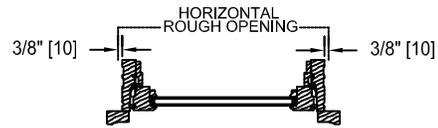
UNIT SIZE IS ALWAYS THE EXTREME SIZE OF THE WINDOW WITH OR WITHOUT TRIM AND DOES NOT INCLUDE NAIL FIN

MASONRY OPENING:

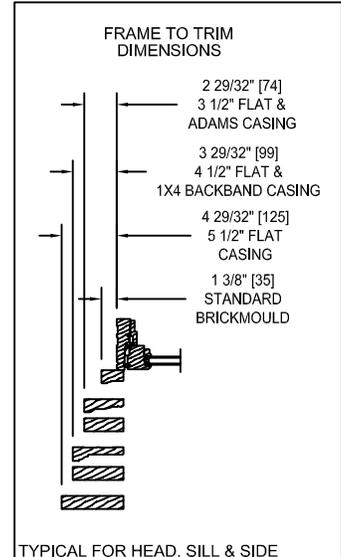
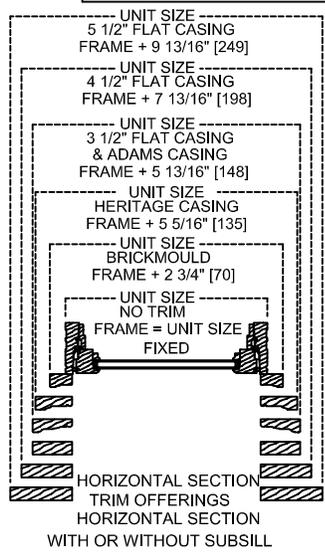
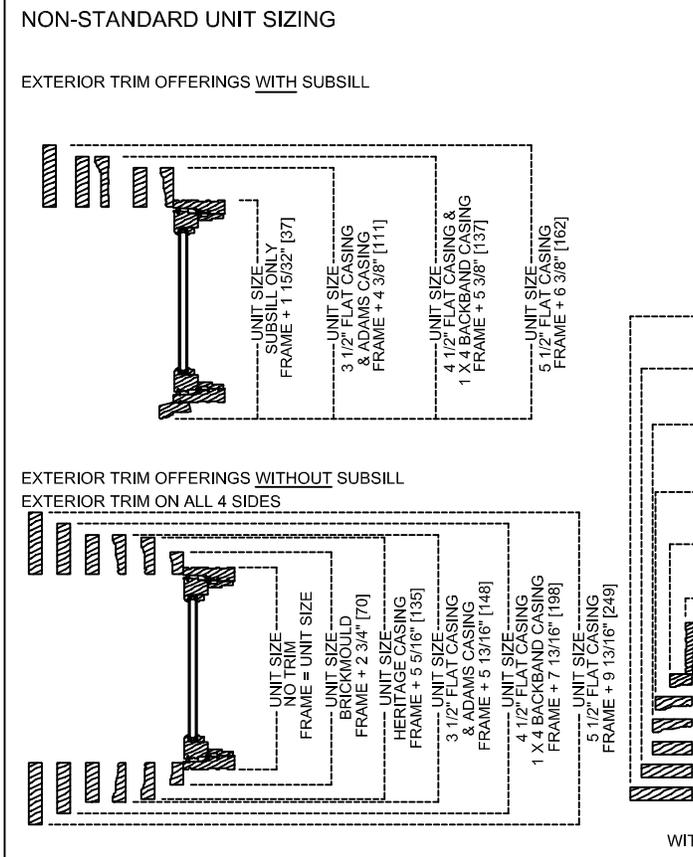
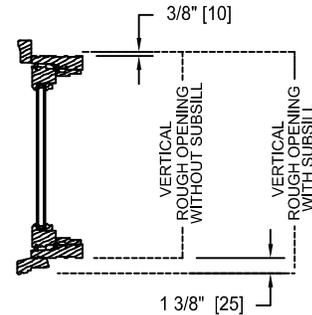
MASONRY OPENING IS ALWAYS 1/2" OVER (HEIGHT AND WIDTH) THE UNIT SIZE OR THE OUTSIDE EDGE OF THE TRIM OF THE WINDOW

ROUGH OPENING:

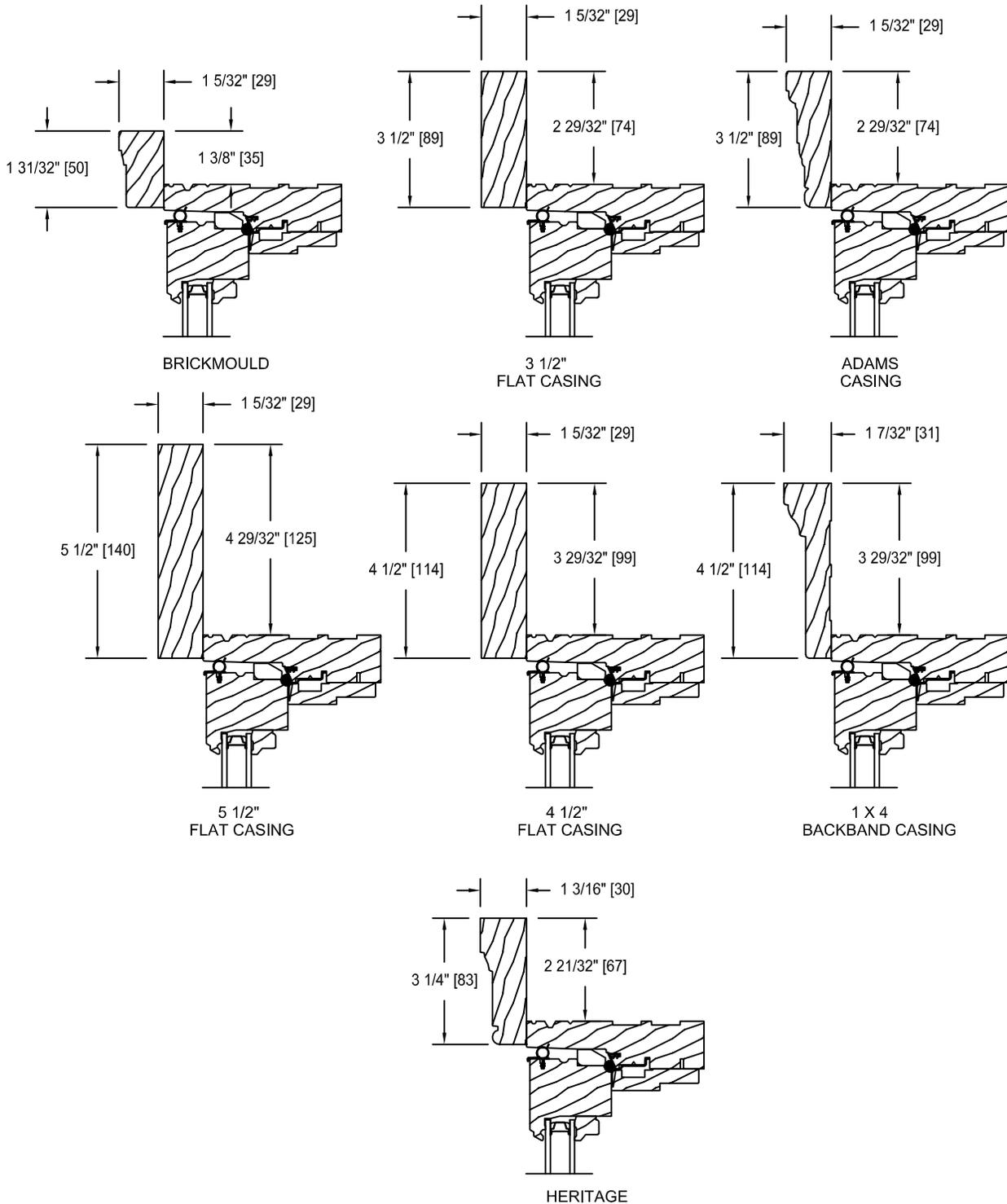
ROUGH OPENING IS ALWAYS 3/4" OVER FRAME SIZE OF THE WINDOW



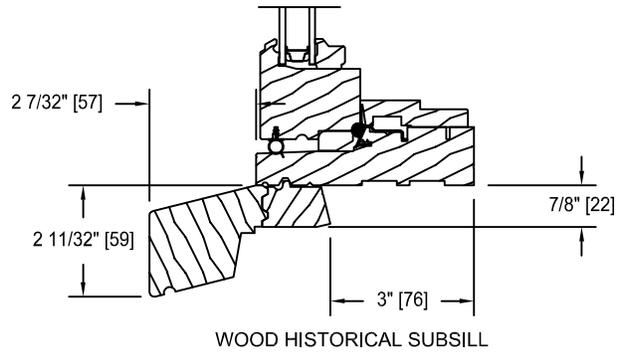
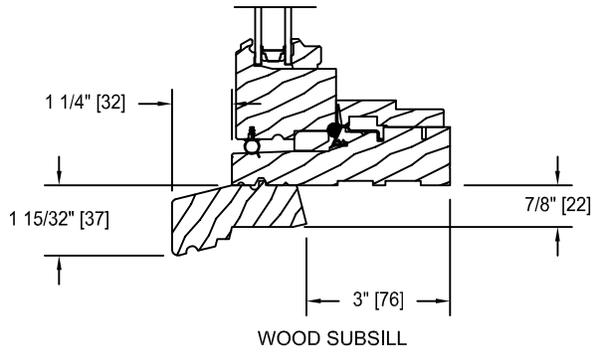
EXCEPTION: SEE DRAWING BELOW



TRIM OPTIONS
CASEMENT

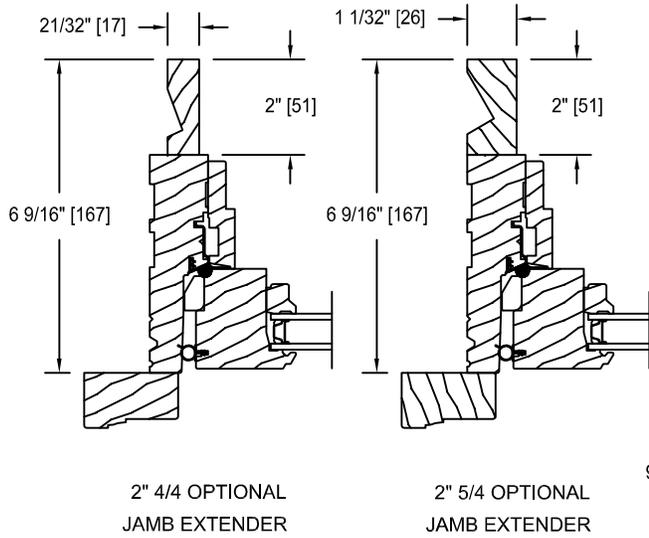


SILL OPTIONS

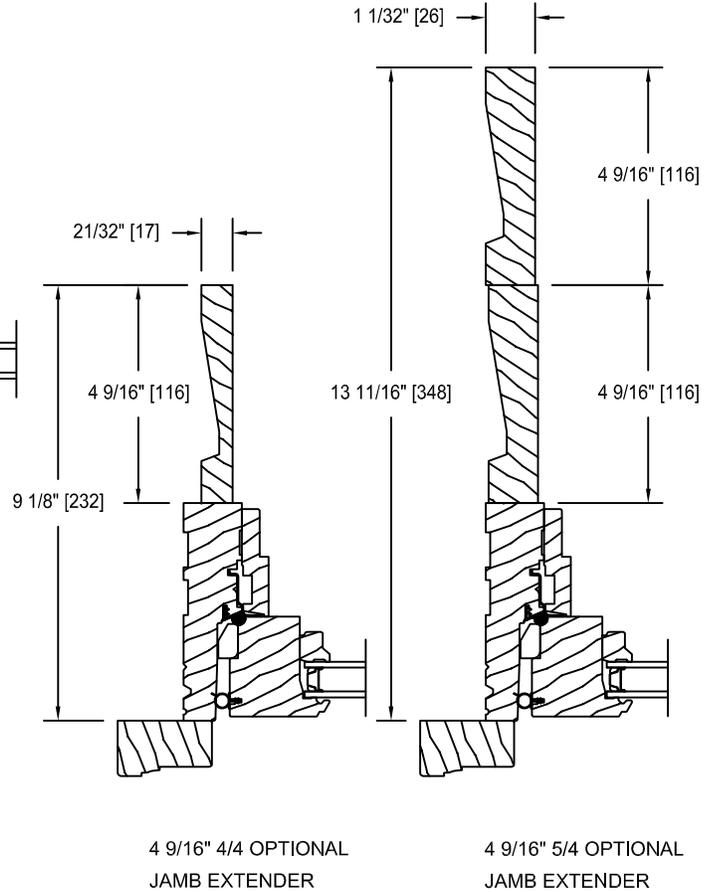


JAMB EXTENDER & STUCCO TRIM OPITONS

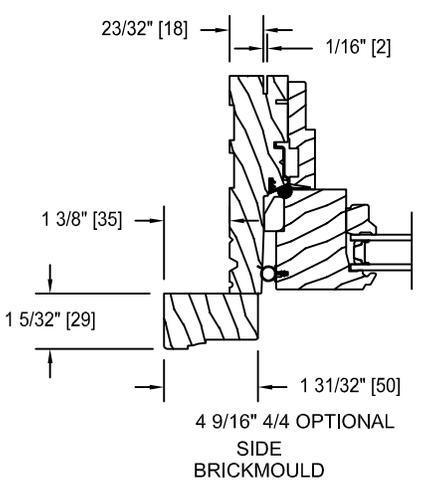
JAMB EXTENDER OPTIONS



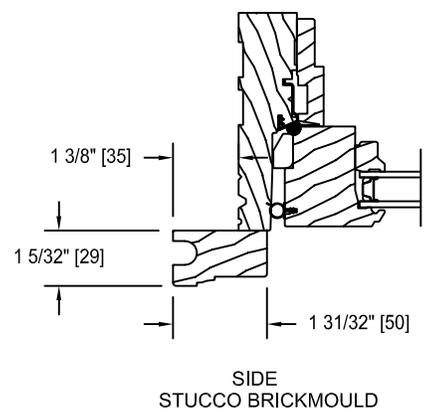
MAXIMUM JAMB WIDTHS



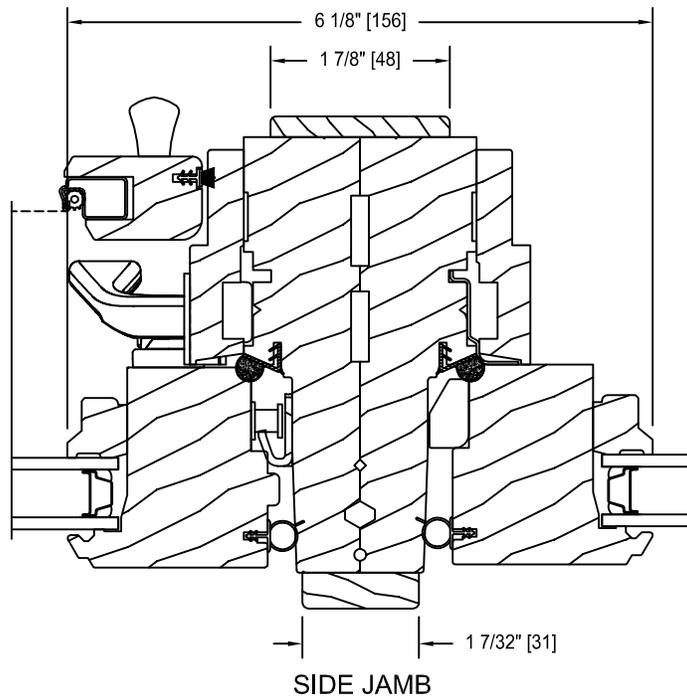
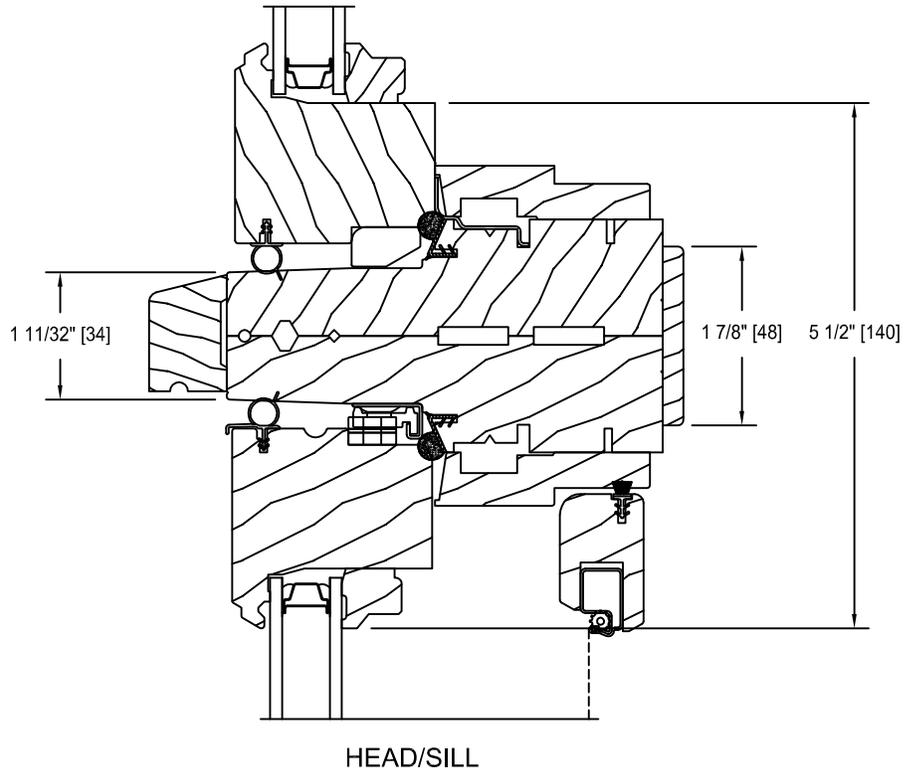
RETURN KERF OPTION



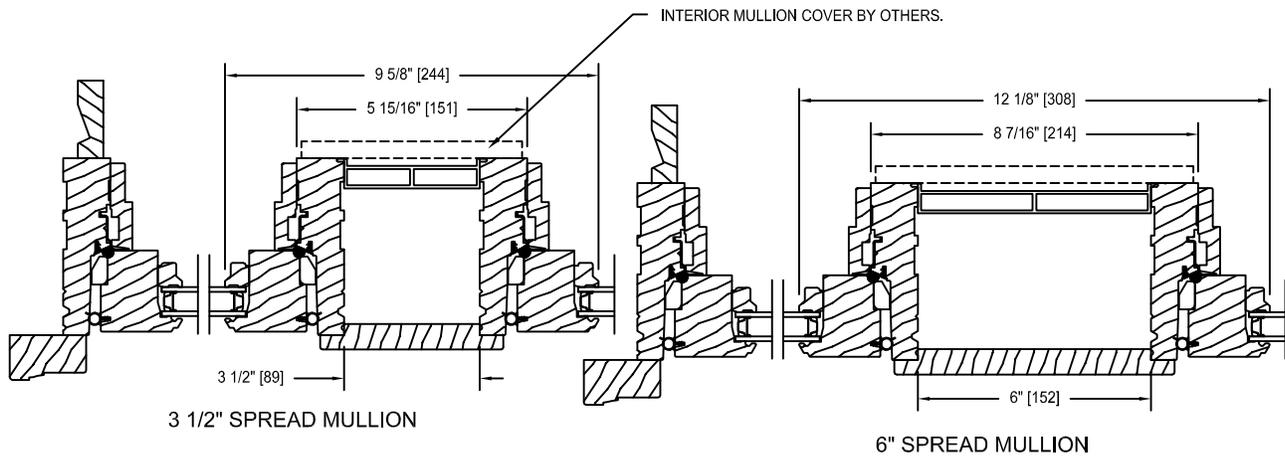
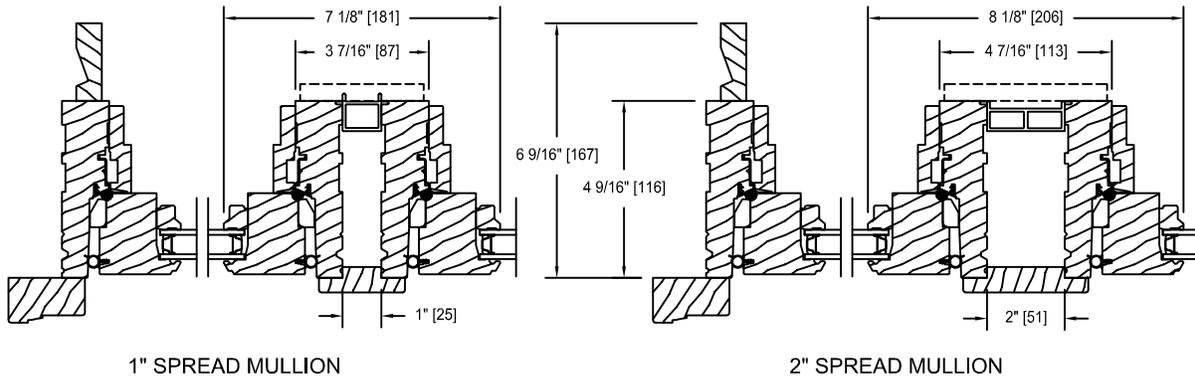
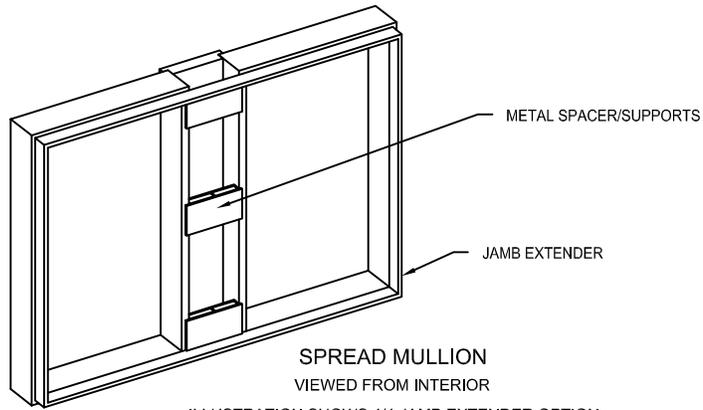
STUCCO TRIM OPTION



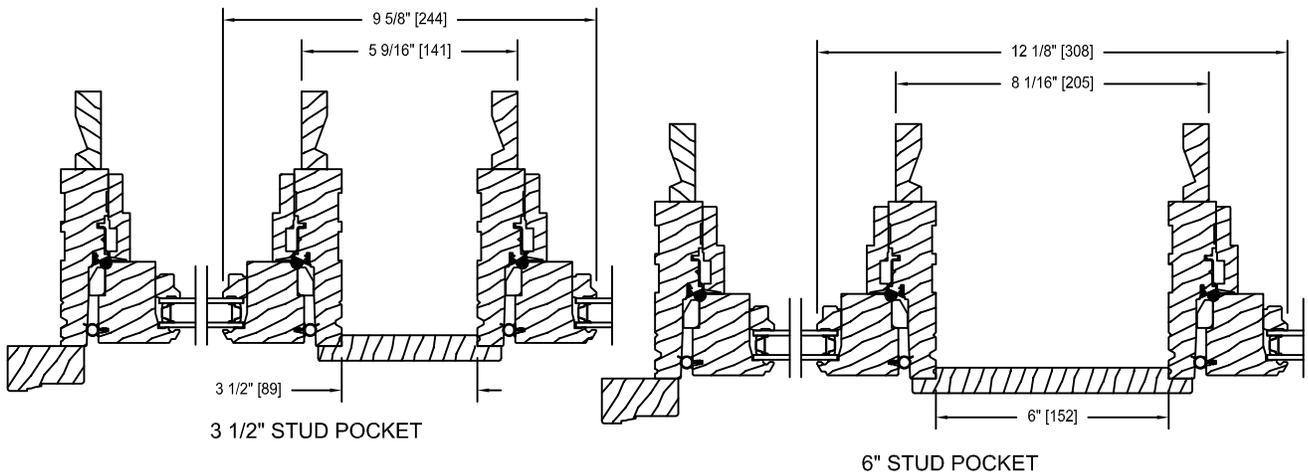
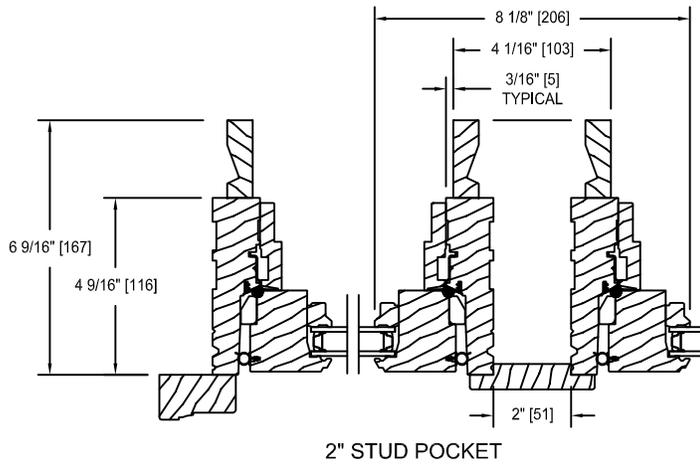
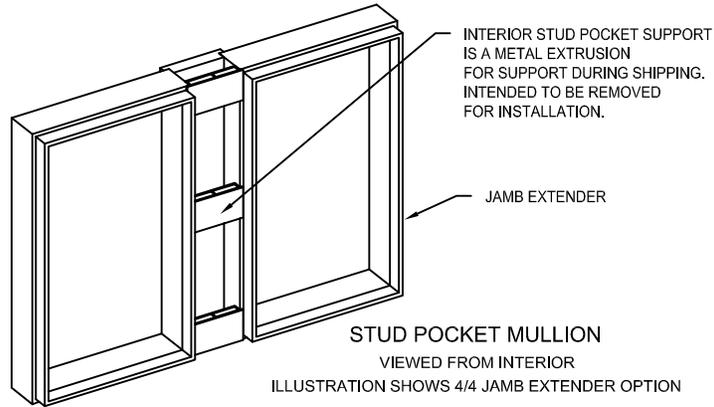
SPECIALTY TRIM & MULLION DETAILS



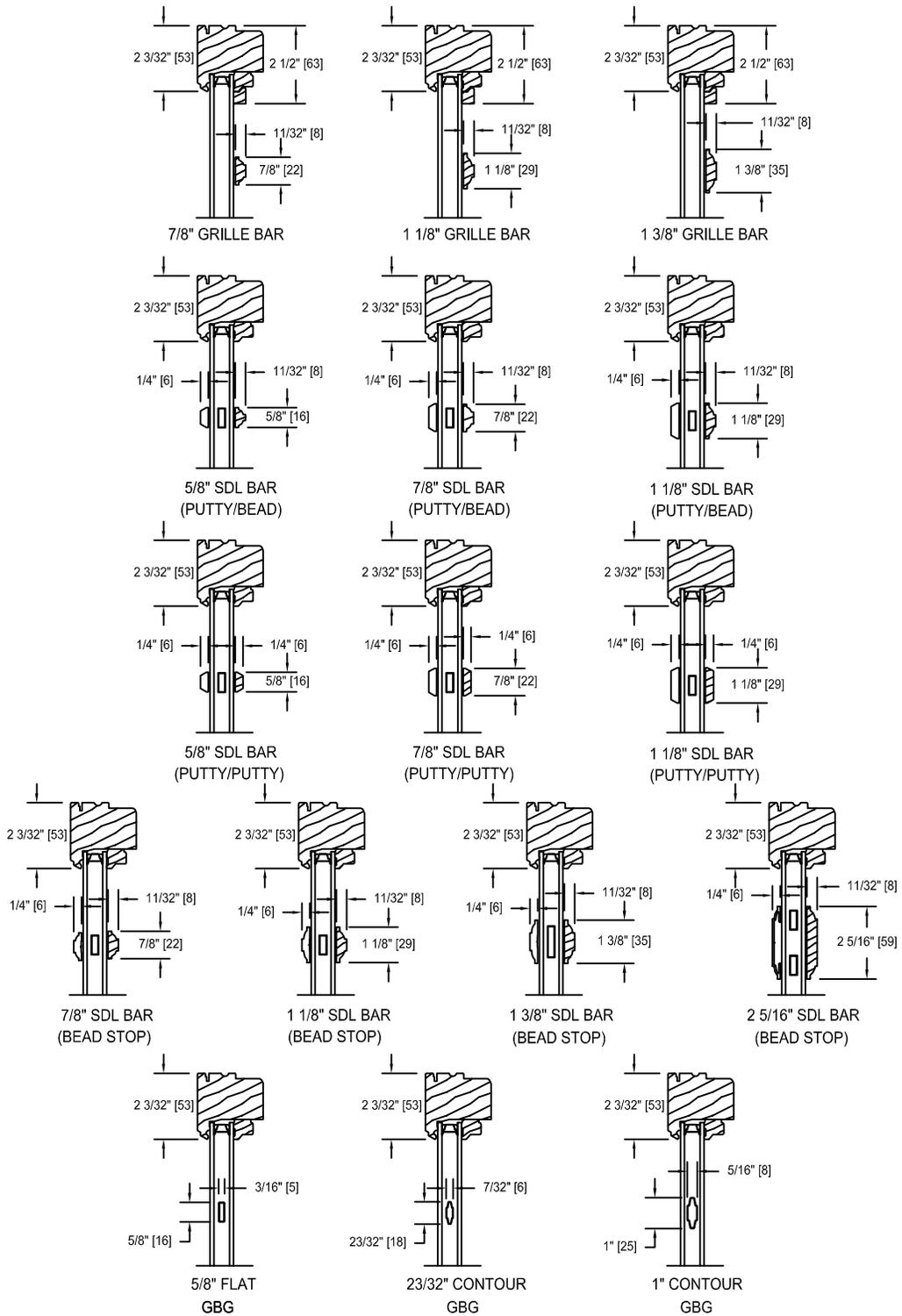
SPECIALTY TRIM & MULLION DETAILS



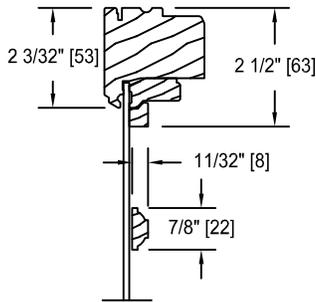
SPECIALTY TRIM & MULLION DETAILS



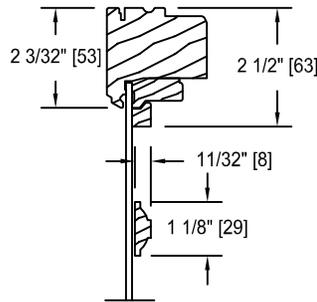
GLAZING OPTIONS
CASEMENT
INTERIOR GLAZED
INSULATED 3/4" [19] GLASS



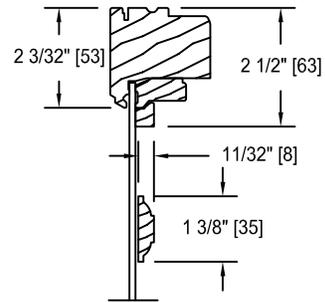
GLAZING OPTIONS
CASEMENT
INTERIOR GLAZED
INSULATED 1/8" [3] GLASS



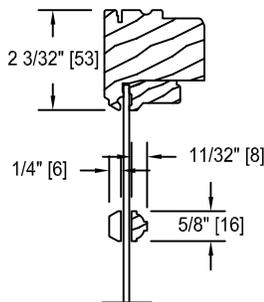
7/8" GRILLE BAR



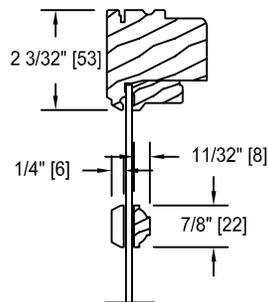
1 1/8" GRILLE BAR



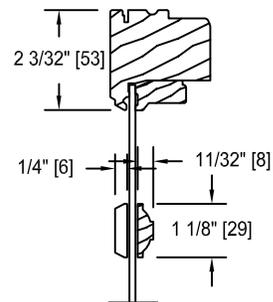
1 3/8" GRILLE BAR



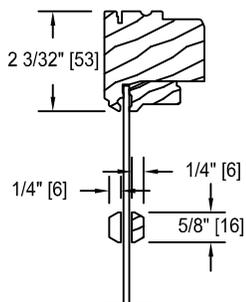
5/8" SDL
(PUTTY/BEAD)



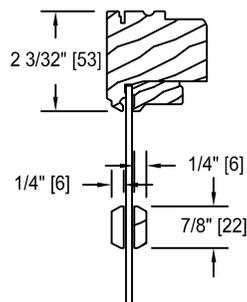
7/8" SDL
(PUTTY/BEAD)



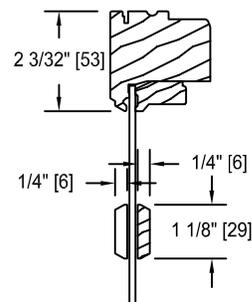
1 1/8" SDL
(PUTTY/BEAD)



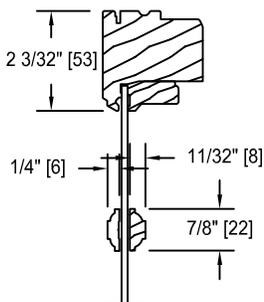
5/8" SDL
(PUTTY/PUTTY)



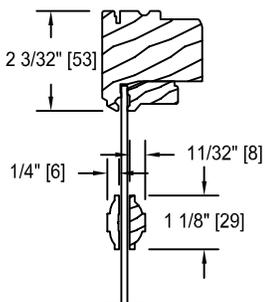
7/8" SDL
(PUTTY/PUTTY)



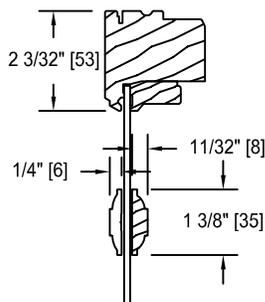
1 1/8" SDL
(PUTTY/PUTTY)



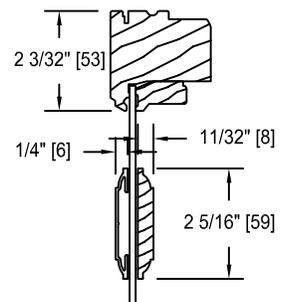
7/8" SDL
(BEAD STOP)



1 1/8" SDL
(BEAD STOP)

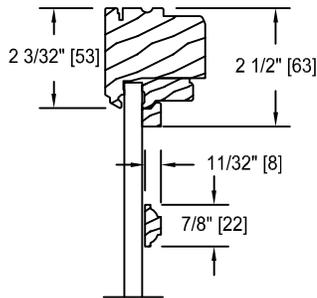


1 3/8" SDL
(BEAD STOP)

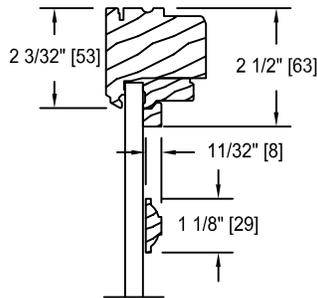


2 5/16" SDL BAR
(BEAD STOP)

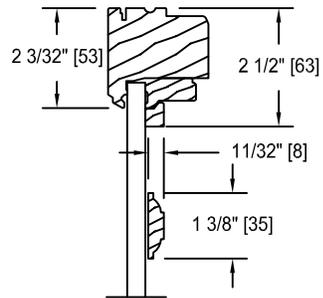
GLAZING OPTIONS
CASEMENT
INTERIOR GLAZED
IMPACT RESISTANT GLASS



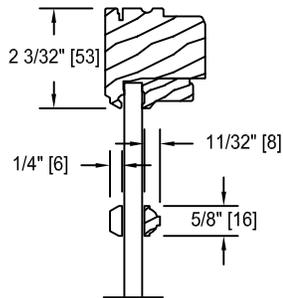
7/8" GRILLE BAR



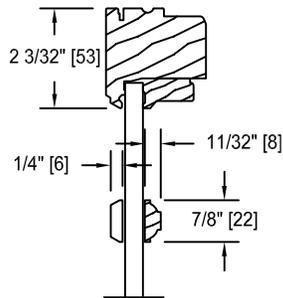
1 1/8" GRILLE BAR



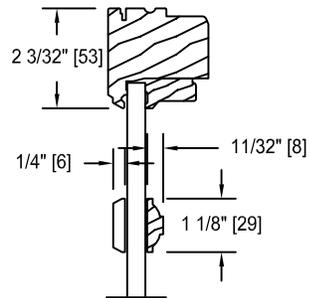
1 3/8" GRILLE BAR



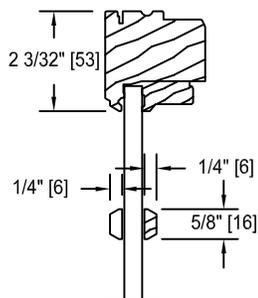
5/8" SDL
(PUTTY/BEAD)



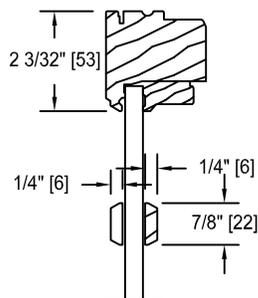
7/8" SDL
(PUTTY/BEAD)



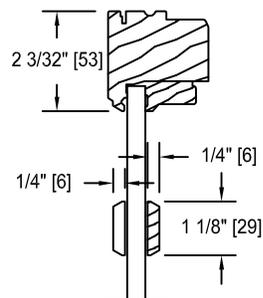
1 1/8" SDL
(PUTTY/BEAD)



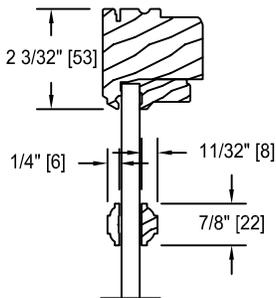
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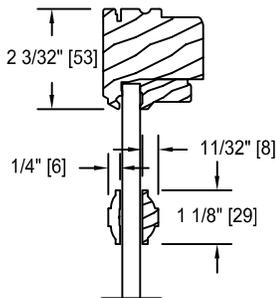
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(PUTTY/PUTTY)



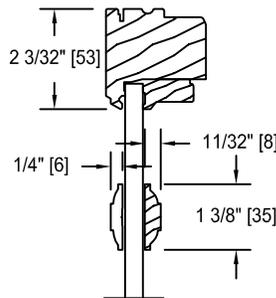
1 1/8" SDL
(PUTTY/PUTTY)



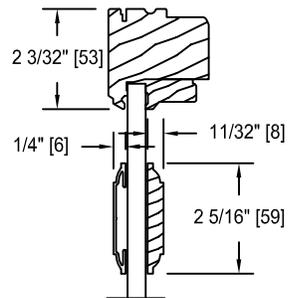
7/8" SDL
(BEAD STOP)



1 1/8" SDL
(BEAD STOP)

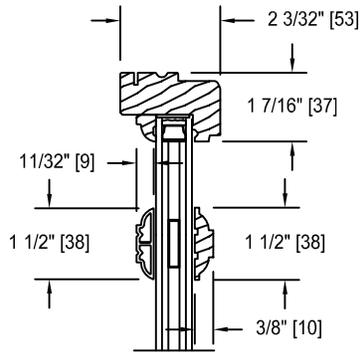


1 3/8" SDL
(BEAD STOP)

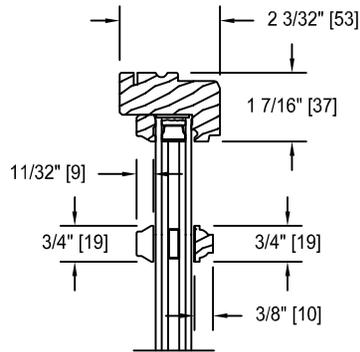


2 5/16" SDL BAR
(BEAD STOP)

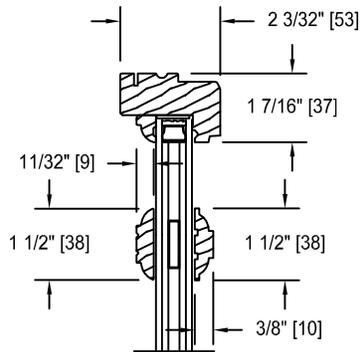
GLAZING OPTIONS
CASEMENT
EXTERIOR GLAZED



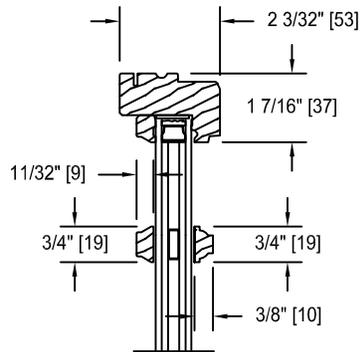
1 1/2" PDL
CLAD EXTERIOR BAR
3/4" [19] Glass



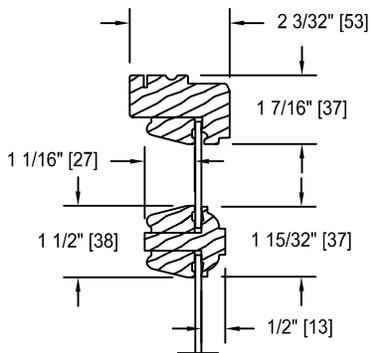
3/4" PDL
CLAD EXTERIOR BAR
3/4" [19] Glass



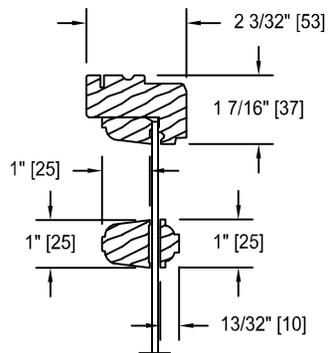
1 1/2" PDL
WOOD EXTERIOR BAR
3/4" [19] Glass



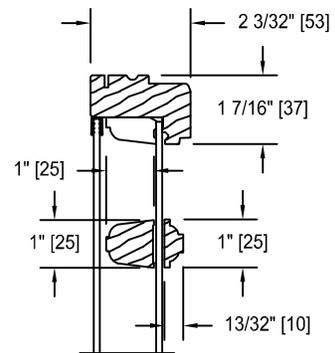
3/4" PDL
WOOD EXTERIOR BAR
3/4" [19] Glass



1 1/2" TDL
TRUE DIVIDED LITE
1/8" [3] Glass

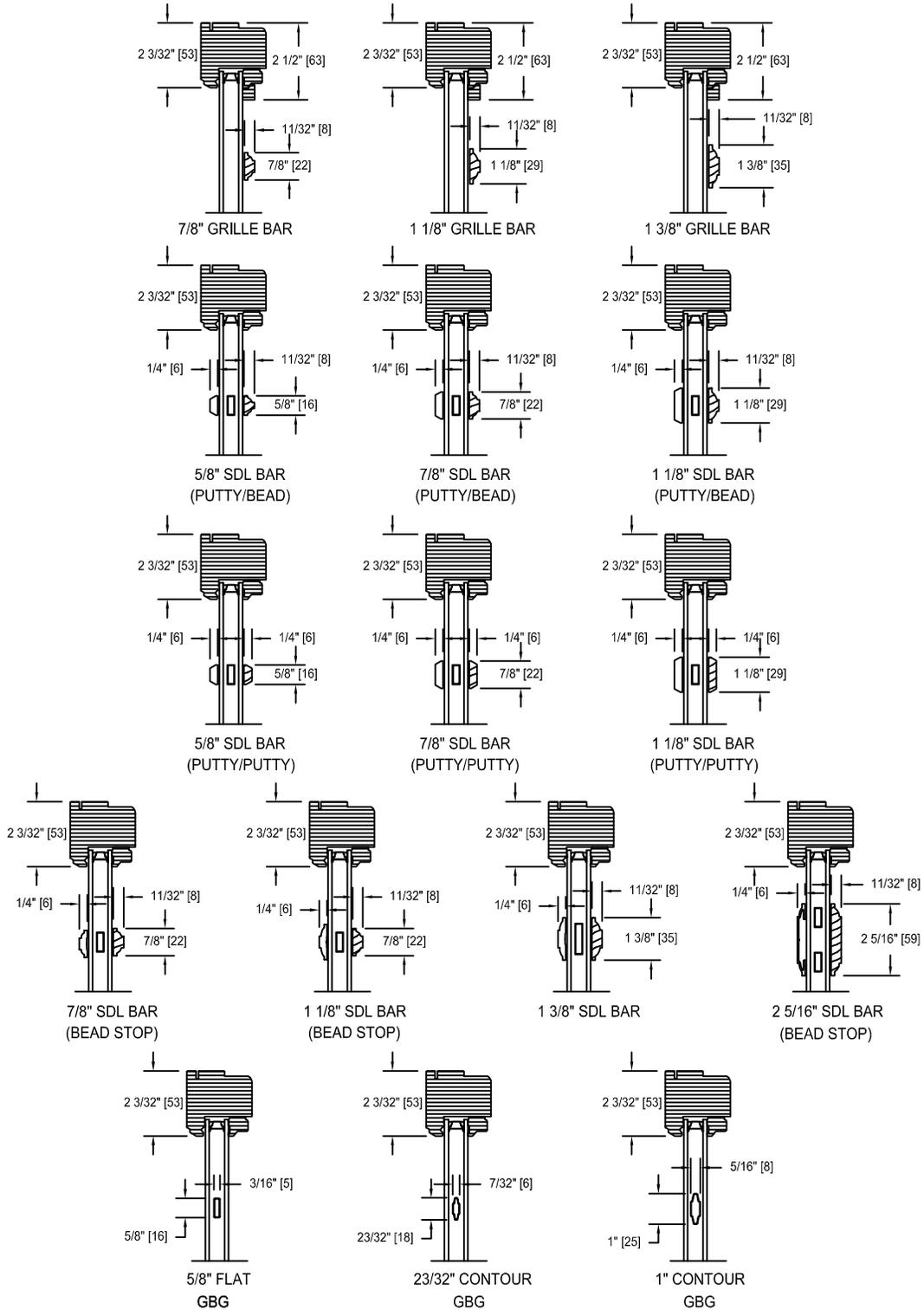


1" PNB
1/8" [3] Glass



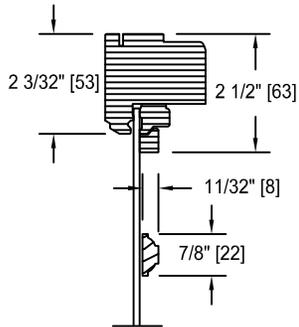
1" PNB
WITH ENERGY PANEL

GLAZING OPTIONS
SECTOR TOP CASEMENT
INTERIOR GLAZED
INSULATED 3/4" [24] GLASS

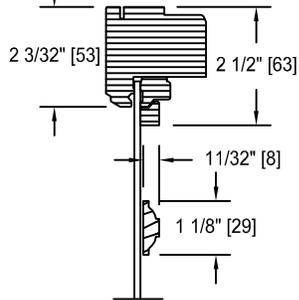


GLAZING OPTIONS
SECTOR TOP CASEMENT
INTERIOR GLAZED

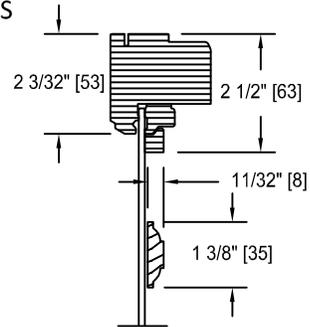
SINGLE GLAZED 1/8" [3] GLASS



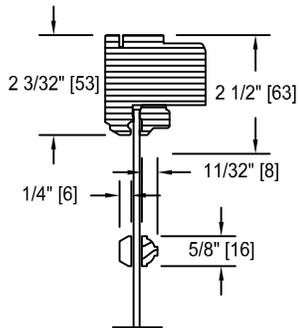
7/8" GRILLE BAR



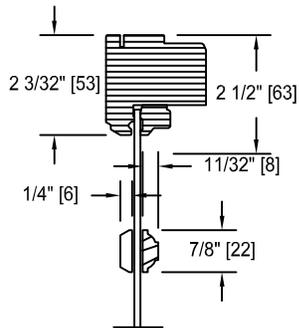
1 1/8" GRILLE BAR



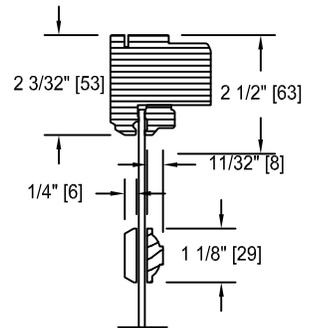
1 3/8" GRILLE BAR



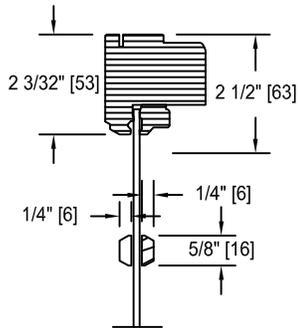
5/8" SDL
(PUTTY/BEAD)



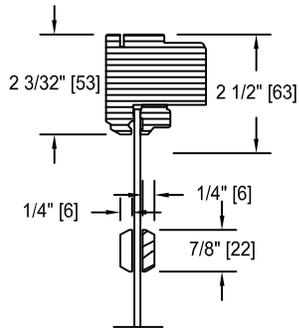
7/8" SDL
(PUTTY/BEAD)



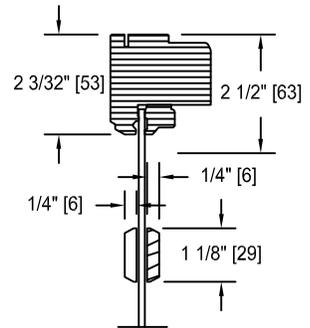
1 1/8" SDL
(PUTTY/BEAD)



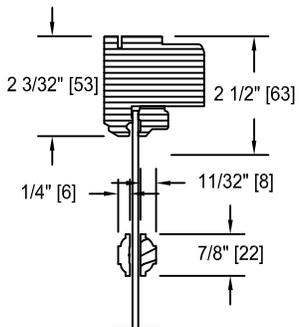
5/8" SDL
(PUTTY/PUTTY)



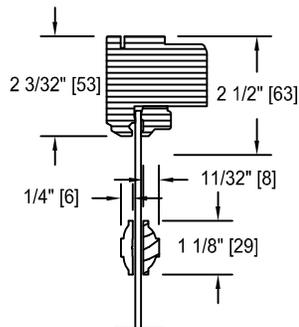
7/8" SDL
(PUTTY/PUTTY)



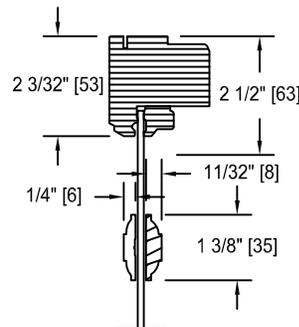
1 1/8" SDL
(PUTTY/PUTTY)



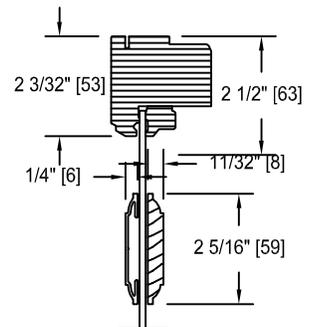
7/8" SDL
(BEAD STOP)



1 1/8" SDL
(BEAD STOP)

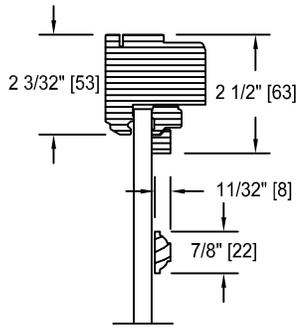


1 3/8" SDL
(BEAD STOP)

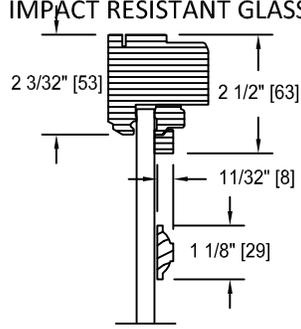


2 5/16" SDL BAR
(BEAD STOP)

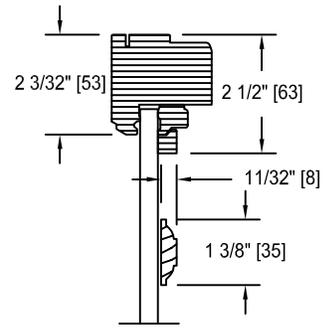
GLAZING OPTIONS
SECTOR TOP CASEMENT
INTERIOR GLAZED
IMPACT RESISTANT GLASS



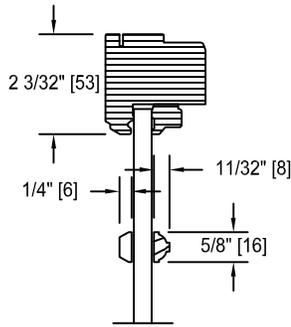
7/8" GRILLE BAR



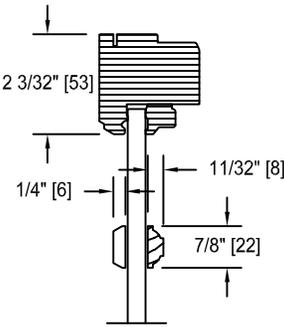
1 1/8" GRILLE BAR



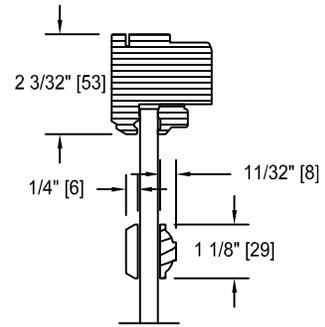
1 3/8" GRILLE BAR



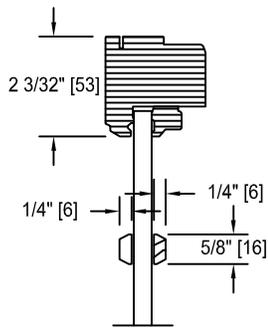
5/8" SDL
(PUTTY/BEAD)



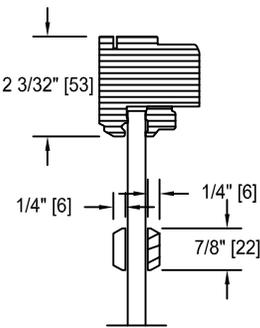
7/8" SDL
(PUTTY/BEAD)



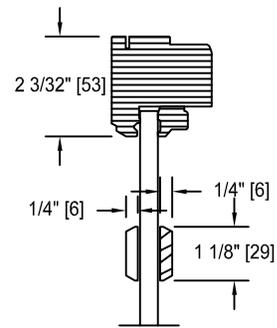
1 1/8" SDL
(PUTTY/BEAD)



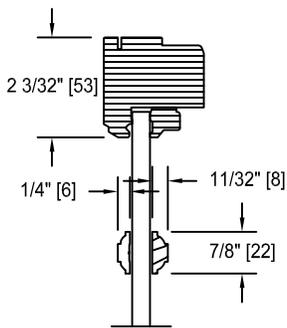
5/8" SDL
(PUTTY/PUTTY)



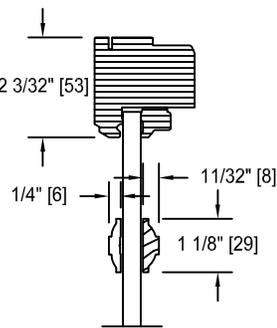
7/8" SDL
(PUTTY/PUTTY)



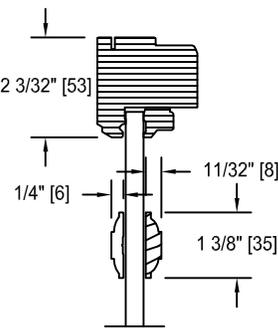
1 1/8" SDL
(PUTTY/PUTTY)



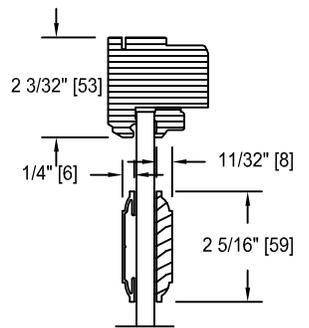
7/8" SDL
(BEAD STOP)



1 1/8" SDL
(BEAD STOP)

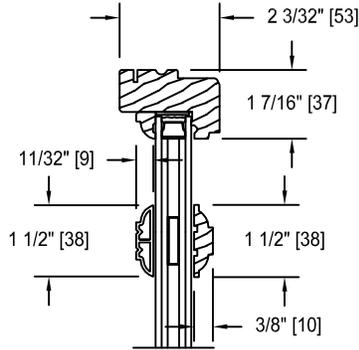


1 3/8" SDL
(BEAD STOP)

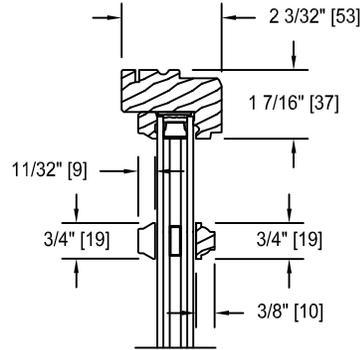


2 5/16" SDL BAR
(BEAD STOP)

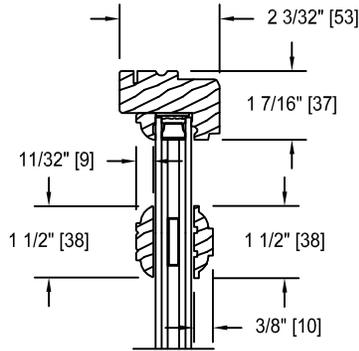
GLAZING OPTIONS
SECTOR TOP CASEMENT
EXTERIOR GLAZED



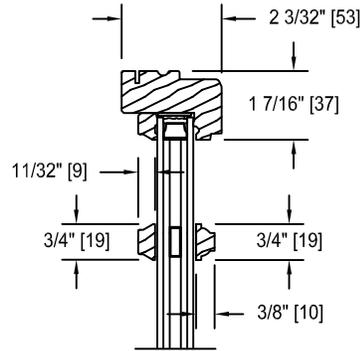
1 1/2" PDL
CLAD EXTERIOR BAR
3/4" [19] Glass



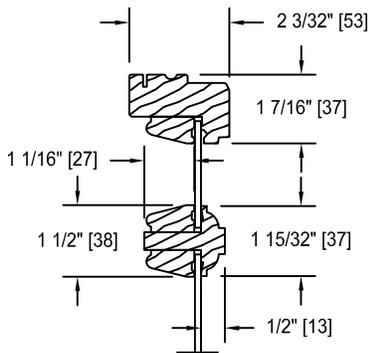
3/4" PDL
CLAD EXTERIOR BAR
3/4" [19] Glass



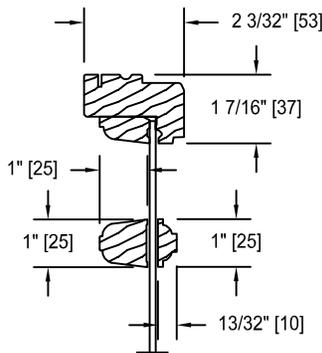
1 1/2" PDL
WOOD EXTERIOR BAR
3/4" [19] Glass



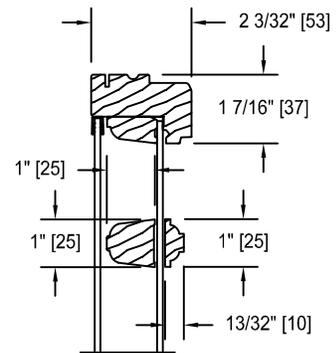
3/4" PDL
WOOD EXTERIOR BAR
3/4" [19] Glass



1 1/2" TDL
TRUE DIVIDED LITE
1/8" [3] Glass



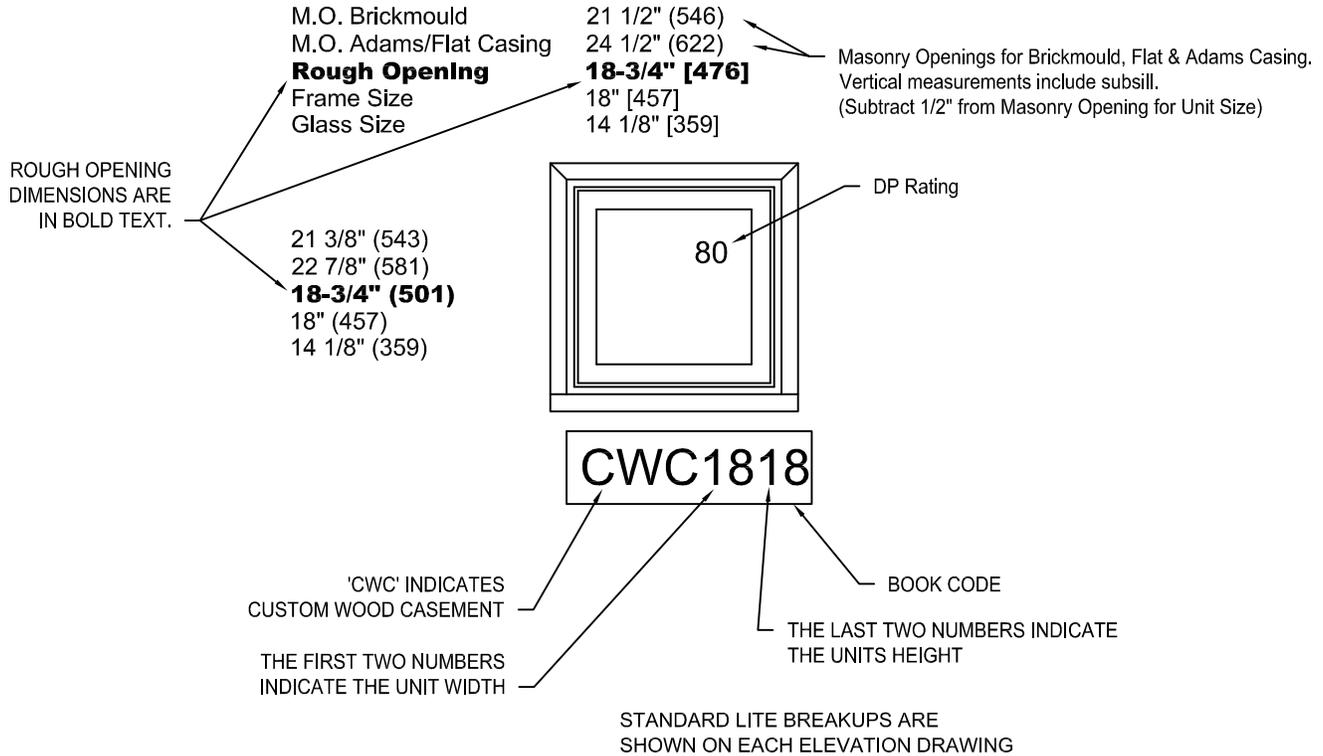
1" PNB
1/8" [3] Glass



1" PNB
WITH ENERGY PANEL

ELEVATION NOTES
CASEMENT

ELEVATION DRAWINGS UTILIZE A LIMITED NUMBER OF PROJECTED LINES TO PRODUCE A RUDIMENTARY DRAWING INTENDED TO BE USED IN A SMALL GRAPHICAL SCALE. ELEVATIONS ARE VIEWED PERPENDICULAR FROM THE EXTERIOR OF THE STRUCTURE. IF MORE DIMENSIONS ARE NEEDED, USE THE SECTION DRAWINGS FOR MORE COMPLETE DEPICTIONS.



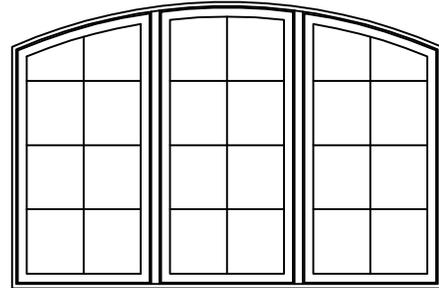
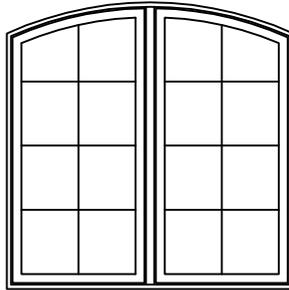
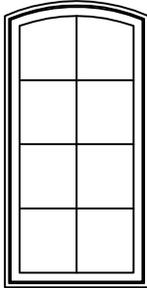
GENERAL CASEMENT NOTES

1. WOOD CASEMENT (WC) UNITS ARE AVAILABLE AS OPERATING OR FIXED UNITS.
2. 'WCP' IN A BOOK CODE DENOTES THE UNIT IS A WOOD CASEMENT PICTURE (FIXED) UNIT.
3. UNIT ELEVATIONS ARE SHOWN WITH BRICKMOULD AND SUBSILL.
4. ELEVATION DRAWINGS SHOW STANDARD LIGHT CUTS FOR 7/8" [22] OR 1 1/8" [29] GRILLE BARS OR SIMULATED DIVIDED LITE.
5. OPERATING UNITS ARE AVAILABLE AS LEFT OR RIGHT HAND OPERATION.
6. DIMENSIONAL VALUES IN BRACKETS ARE MILLIMETER CONVERSIONS.
7. ALL GLASS SIZES ARE NOMINAL.

ELEVATION SYMBOL LEGEND:

- E** BASIC UNIT CLEAR OPENING EXCEEDS 20" IN WIDTH, 24" IN HEIGHT & A MINIMUM OF 5.7 SQ. FT.
- E*** BASIC UNIT CLEAR OPENING REQUIRES EGRESS HINGES TO EXCEED 20" IN WIDTH, 24" IN HEIGHT & A MINIMUM OF 5.7 SQ. FT.
- E1** BASIC UNIT CLEAR OPENING EXCEEDS 20" IN WIDTH, 24" IN HEIGHT & A MINIMUM OF 5.0 SQ. FT.
- S** STATIONARY UNIT
- ##** NUMBER INDICATES DESIGN PRESSURE (DP) RATING WITH STANDARD GLAZING. OPERATING UNITS UTILIZE THE R65 LOCKING SYSTEM FOR DP RATINGS.

GENERAL INFORMATION
SECTOR TOP CASEMENTS



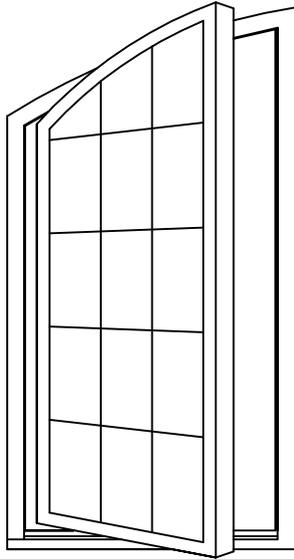
Sector wood casements are constructed the same as Custom wood casements.

Sector wood casement windows are available with left or right hand operation (hinged on the springline), or stationary (non-venting). Operating mechanism includes stainless steel, corrosion resistant, butt hinges and single arm roto-type operator with hardened steel gears and operating arm. Sash locks are concealed unison type with an exposed locking lever and escutcheon plate. There are several interior hardware finish options. Refer to the Specifications for finish options.

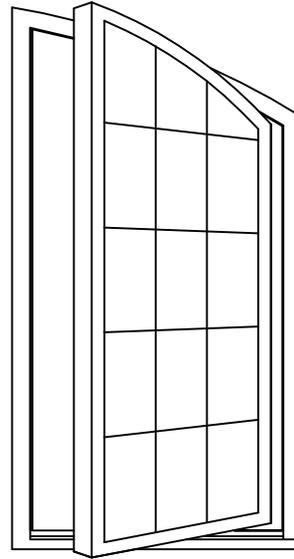
WOOD SECTOR TOP CASEMENTS utilize some of the same options as WOOD Custom CASEMENTS.

Note: Wood Book Coded Sector Tops use the same sash as the roll form clad sash, just without the roll form cladding.

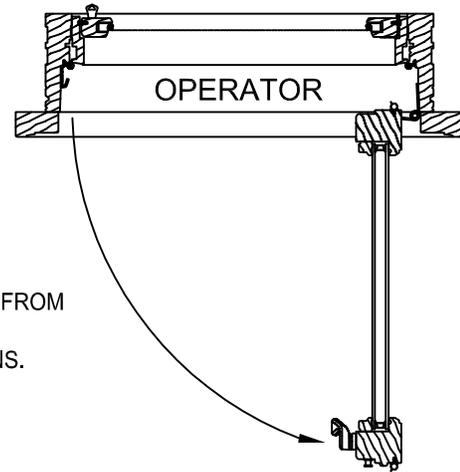
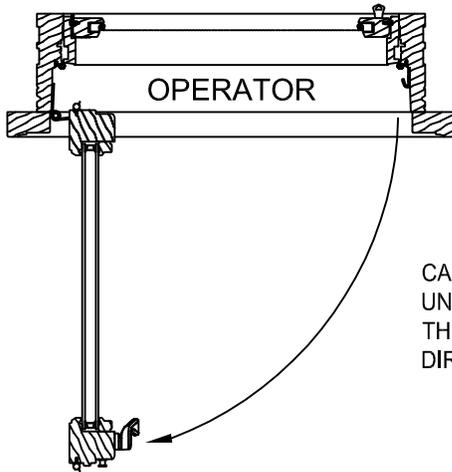
HANDING, OPERATION & LIMIT DEVICE
SECTOR TOP CASEMENTS



LEFT
HAND



RIGHT
HAND



CASEMENT UNIT HANDING:
UNIT HANDING IS DEFINED (FROM
THE EXTERIOR) AS THE
DIRECTION THE SASH OPENS.

UNIT HANDING INFORMATION

OPERATING SINGLE SECTOR UNITS - MAY BE HANDED 'LEFT' OR 'RIGHT'.

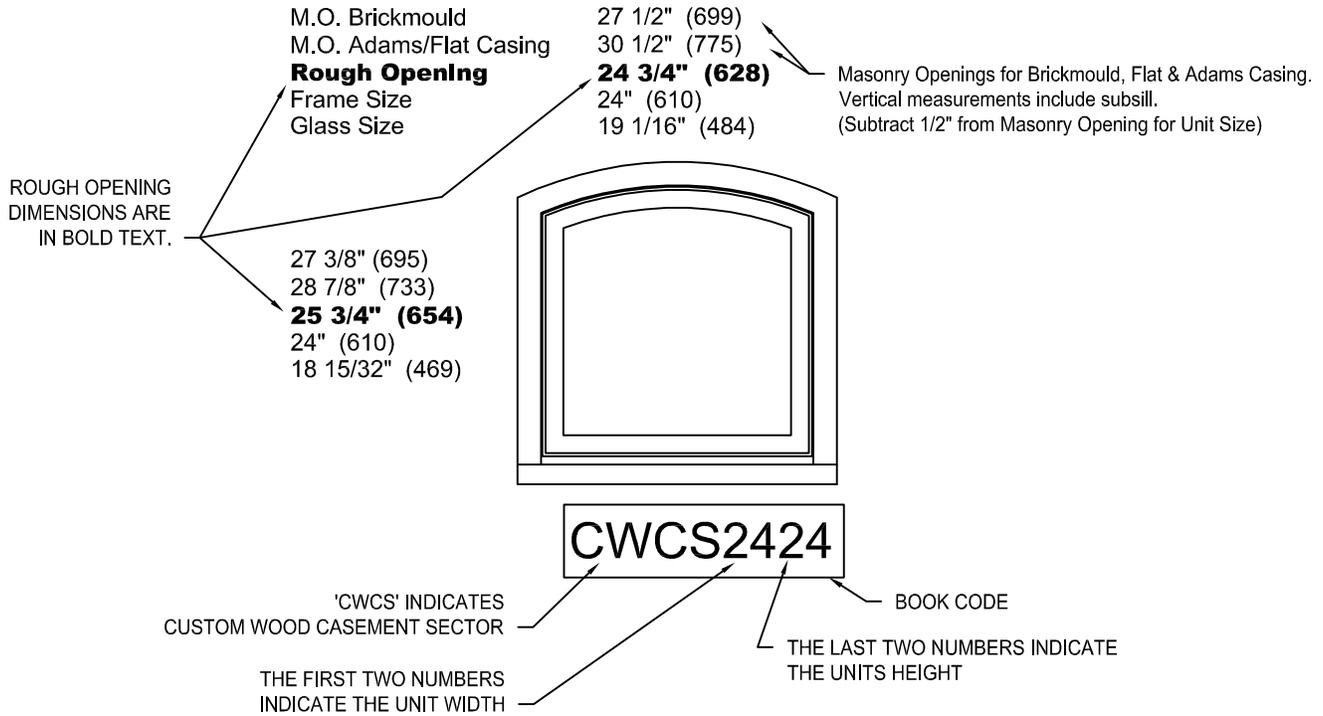
OPERATING TWIN SECTOR UNITS - THESE UNITS ARE HINGED ON THE SPRINGLINE SIDE. THE 'LEFT' SASH HAS 'LEFT' HAND OPERATION AND THE 'RIGHT' SASH HAS 'RIGHT' HAND OPERATION ONLY.

OPERATING TRIPLE SECTOR UNITS - ONLY THE FLANKING UNITS MAY BE OPERATORS WHICH ARE HINGED ON THE SPRINGLINE SIDE. THE TWO OPERATING SASH ARE HANDED THE SAME AS THE TWIN SECTOR.

WOOD BOOK CODED SECTOR TOPS UNITS - HAVE THE SAME SASH AS THE ROLL FORM CLAD SASH, JUST WITHOUT THE ROLL FORM CLADDING.

ELEVATION NOTES
SECTOR TOP CASEMENTS

ELEVATION DRAWINGS UTILIZE A LIMITED NUMBER OF PROJECTED LINES TO PRODUCE A RUDIMENTARY DRAWING INTENDED TO BE USED IN A SMALL GRAPHICAL SCALE. ELEVATIONS ARE VIEWED PERPENDICULAR FROM THE EXTERIOR OF THE STRUCTURE. IF MORE DIMENSIONS ARE NEEDED, USE THE SECTION DRAWINGS FOR MORE COMPLETE DEPICTIONS.



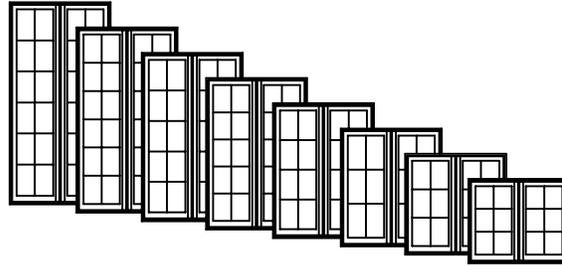
GENERAL RADIUS CASEMENT NOTES

1. UNIT ELEVATIONS ARE SHOWN WITH BRICKMOULD AND SUBSILL.
2. DIMENSIONAL VALUES IN BRACKETS ARE MILLIMETER CONVERSIONS.
3. ALL SECTOR UNITS ARE AVAILABLE AS OPERATING UNITS.
4. WOOD BOOK CODED SECTOR TOPS USE THE SAME SASH AS THE ROLL FORM CLAD SASH, JUST WITHOUT THE ROLL FORM CLADDING.

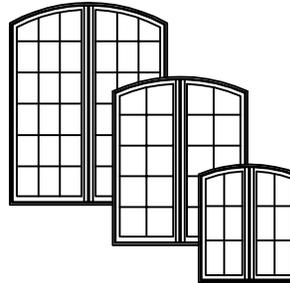
ELEVATION SYMBOL LEGEND:

- E** BASIC UNIT CLEAR OPENING EXCEEDS 20" IN WIDTH, 24" IN HEIGHT & A MINIMUM OF 5.7 SQ. FT.
- E*** BASIC UNIT CLEAR OPENING REQUIRES EGRESS HINGES TO EXCEED 20" IN WIDTH, 24" IN HEIGHT & A MINIMUM OF 5.7 SQ. FT.
- E1** BASIC UNIT CLEAR OPENING EXCEEDS 20" IN WIDTH, 24" IN HEIGHT & A MINIMUM OF 5.0 SQ. FT.
- S** STATIONARY UNIT
- ##** NUMBER INDICATES DESIGN PRESSURE (DP) RATING WITH STANDARD GLAZING. OPERATING UNITS UTILIZE THE R65 LOCKING SYSTEM FOR DP RATINGS.

GENERAL INFORMATION
FRENCH CASEMENTS



Straightline windows



Open bottom sector top windows

French wood casement windows are available as left sash active operation only, or stationary (non-venting). Operating mechanism includes corrosion resistant steel hinges and dual arm roto-type operators with hardened steel gears and operating arms. Sash locking system is a concealed cam and keeper type with an exposed locking lever at the sill operator cover. Refer to the Specifications for hardware finish options.

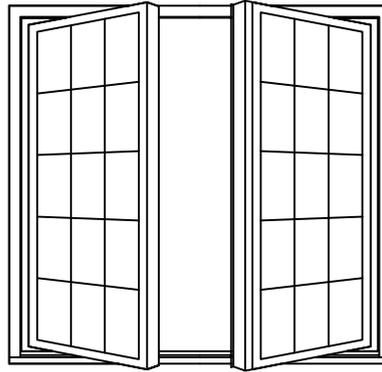
WOOD FRENCH CASEMENTS utilize some of the same options as WOOD Custom CASEMENTS & WOOD SECTOR TOP CASEMENTS.

Note: Wood Book Coded Sector Tops use the same sash as the roll form clad sash, just without the roll form cladding.

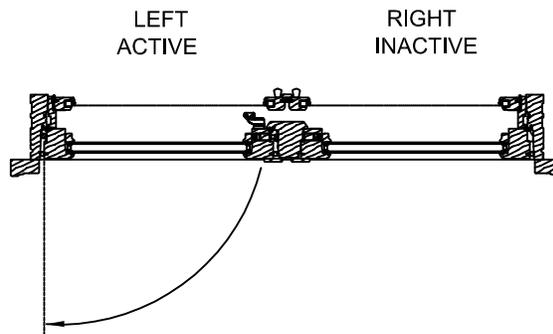
HANDING, OPERATION & LIMIT DEVICE
FRENCH CASEMENTS

ILLUSTRATIONS ARE NOT DRAWN TO SCALE

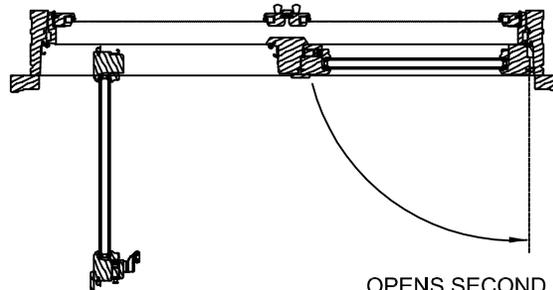
FRENCH CASEMENT HANDING:
FRENCH CASEMENT WINDOWS ARE HANDED WITH THE LEFT SASH AS THE ACTIVE SASH AND THE RIGHT SASH AS THE INACTIVE SASH.



FRENCH CASEMENT OPERATION:
FRENCH CASEMENT WINDOWS ARE OPERATED WITH THE LEFT SASH OPENED FIRST THEN THE RIGHT SASH OPENED SECOND. TO CLOSE THE WINDOW THE RIGHT SASH IS CLOSED FIRST WITH THE LEFT SASH CLOSING SECOND. THIS OPERATION IS VIEWED FROM THE EXTERIOR.
WOOD BOOK CODED SECTOR TOPS UNITS - HAVE THE SAME SASH AS THE ROLL FORM CLAD SASH, JUST WITHOUT THE ROLL FORM CLADDING.



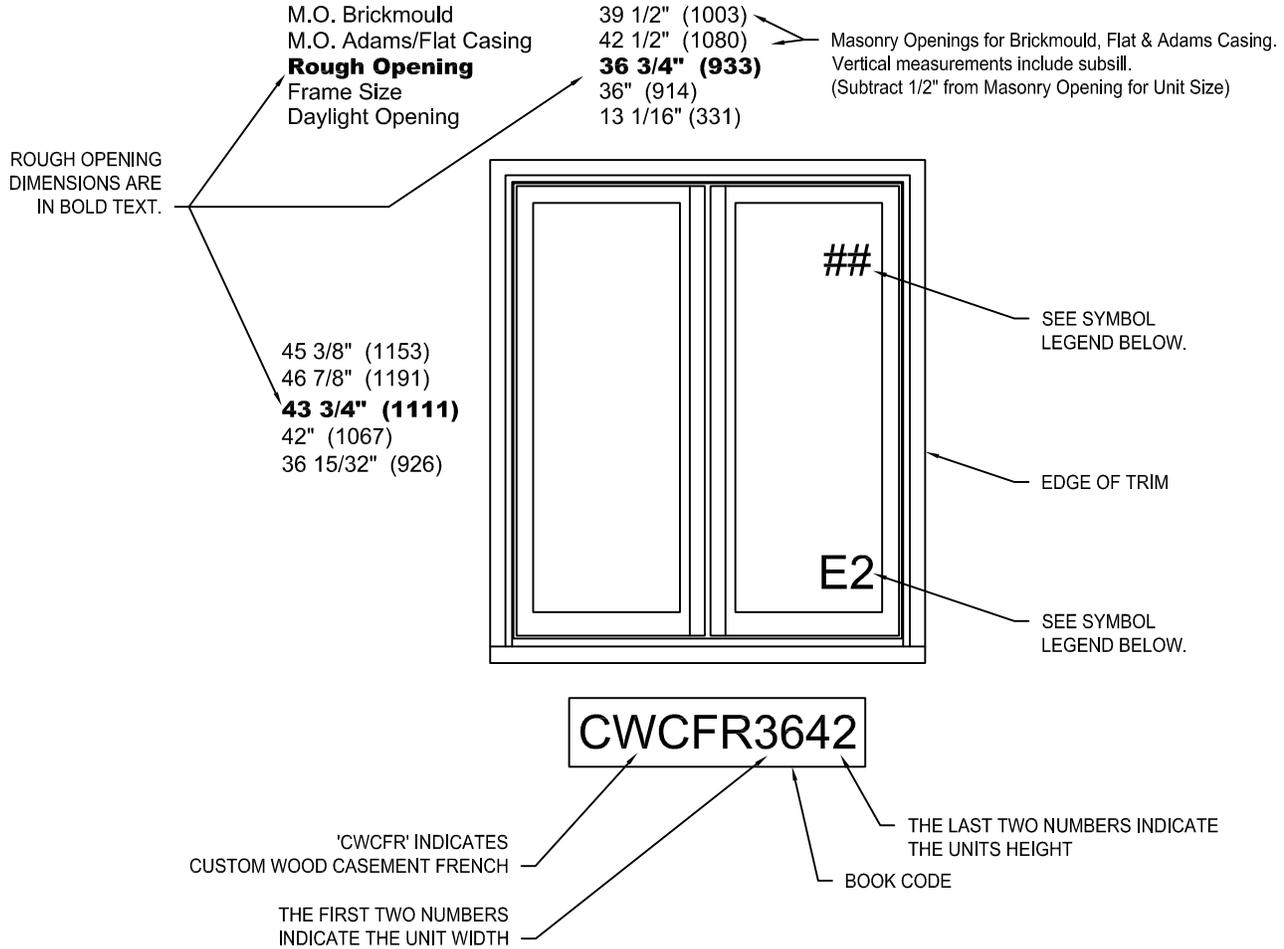
OPENS FIRST
CLOSSES SECOND



OPENS SECOND
CLOSSES FIRST

ELEVATION NOTES
FRENCH CASEMENTS

ELEVATION DRAWINGS UTILIZE A LIMITED NUMBER OF PROJECTED LINES TO PRODUCE A RUDIMENTARY DRAWING INTENDED TO BE USED IN A SMALL GRAPHICAL SCALE. ELEVATIONS ARE VIEWED PERPENDICULAR FROM THE EXTERIOR OF THE STRUCTURE. IF MORE DIMENSIONS ARE NEEDED, USE THE SECTION DRAWINGS FOR MORE COMPLETE DEPICTIONS.



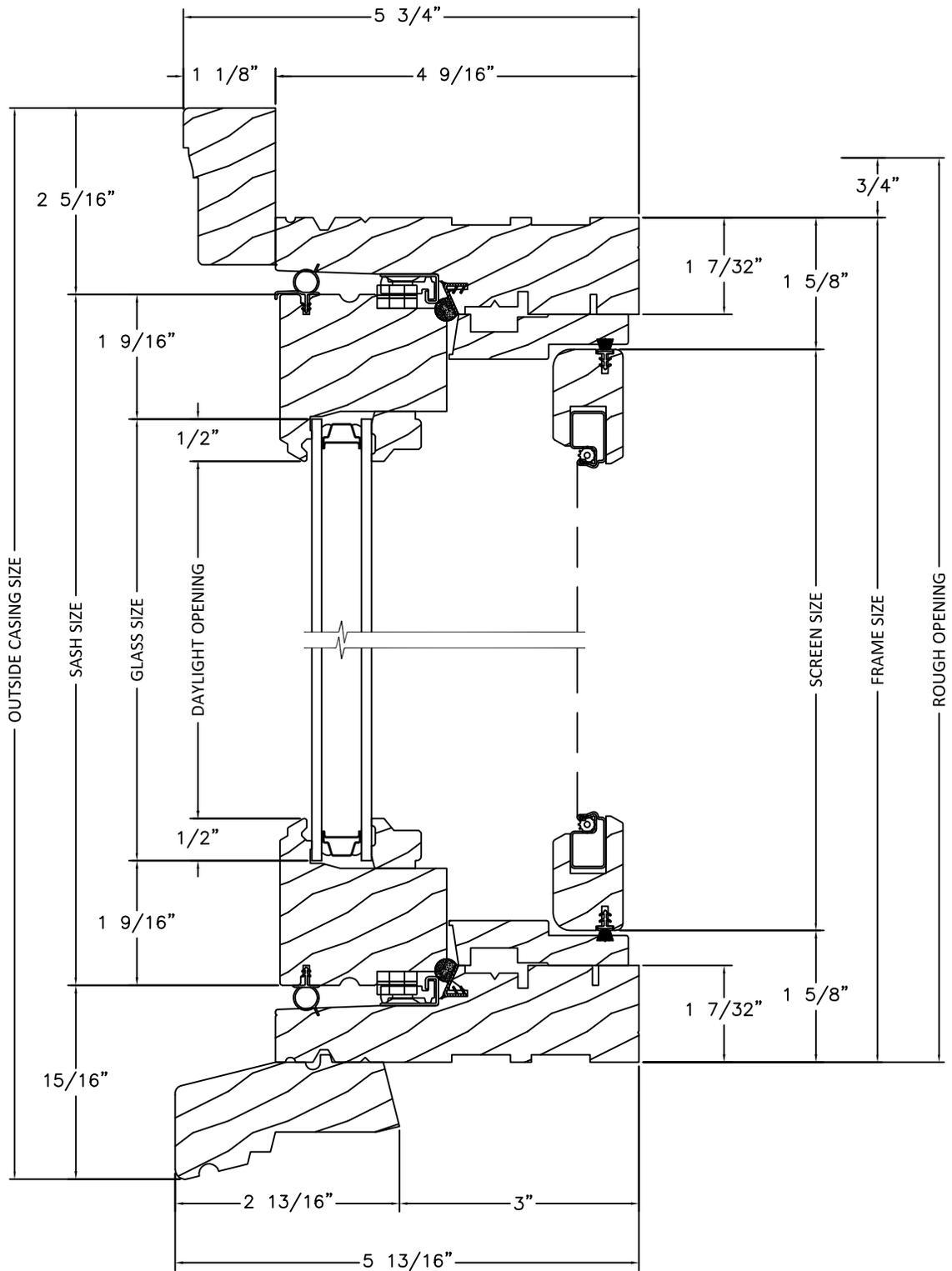
GENERAL CASEMENT NOTES

1. UNIT ELEVATIONS ARE SHOWN WITH BRICKMOULD AND SUBSILL.
2. DIMENSIONAL VALUES IN BRACKETS ARE MILLIMETER CONVERSIONS.
3. WOOD BOOK CODED SECTOR TOPS USE THE SAME SASH AS THE ROLL FORM CLAD SASH, JUST WITHOUT THE ROLL FORM CLADDING.

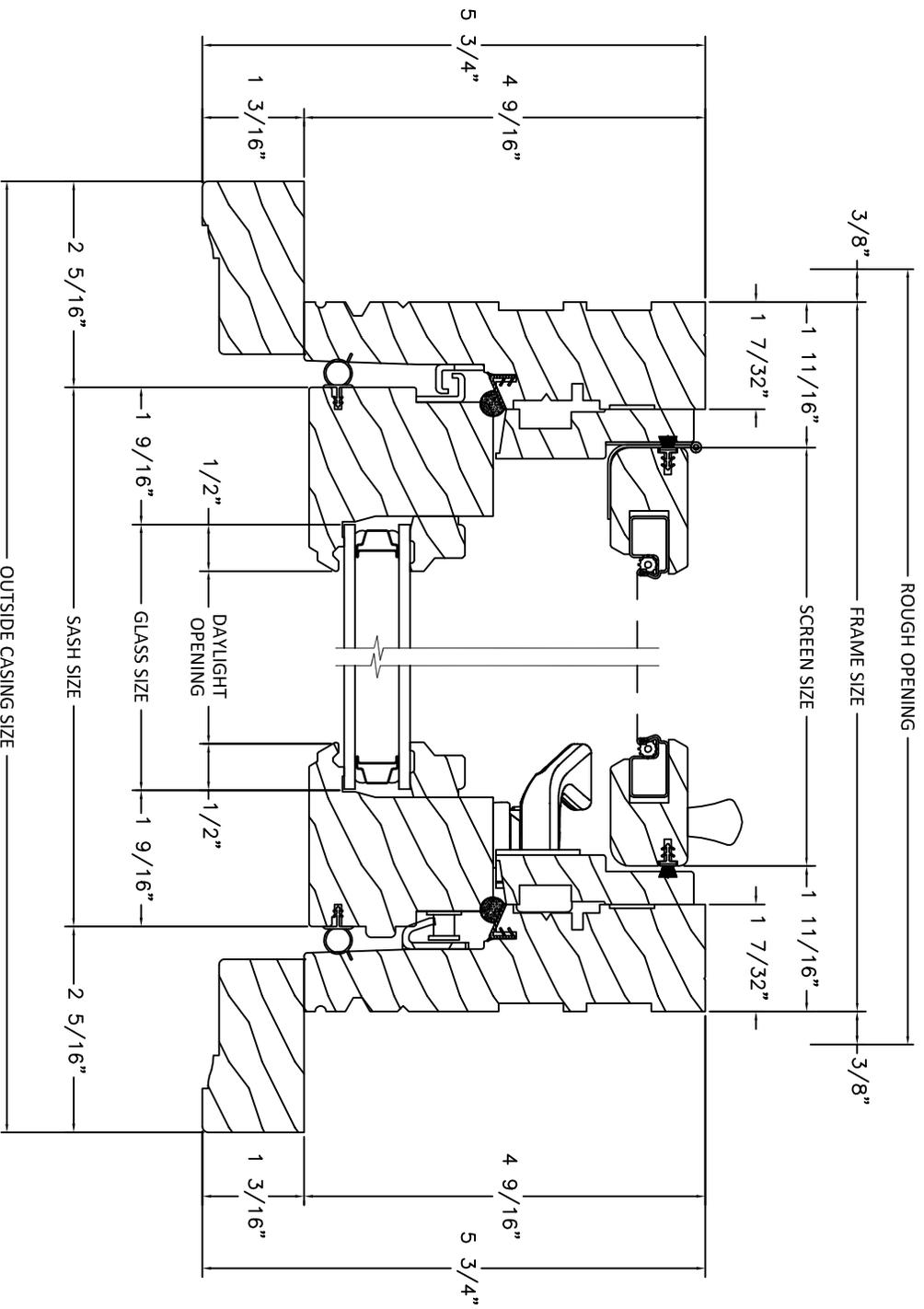
ELEVATION SYMBOL LEGEND:

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- E*** BASIC UNIT CLEAR OPENING REQUIRES EGRESS HINGES TO EXCEED 20" IN WIDTH, 24" IN HEIGHT & A MINIMUM OF 5.7 SQ. FT.
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- S** STATIONARY UNIT
- ##** NUMBER INDICATES DESIGN PRESSURE (DP) RATING WITH STANDARD GLAZING. OPERATING UNITS UTILIZE THE R65 LOCKING SYSTEM FOR DP RATINGS.

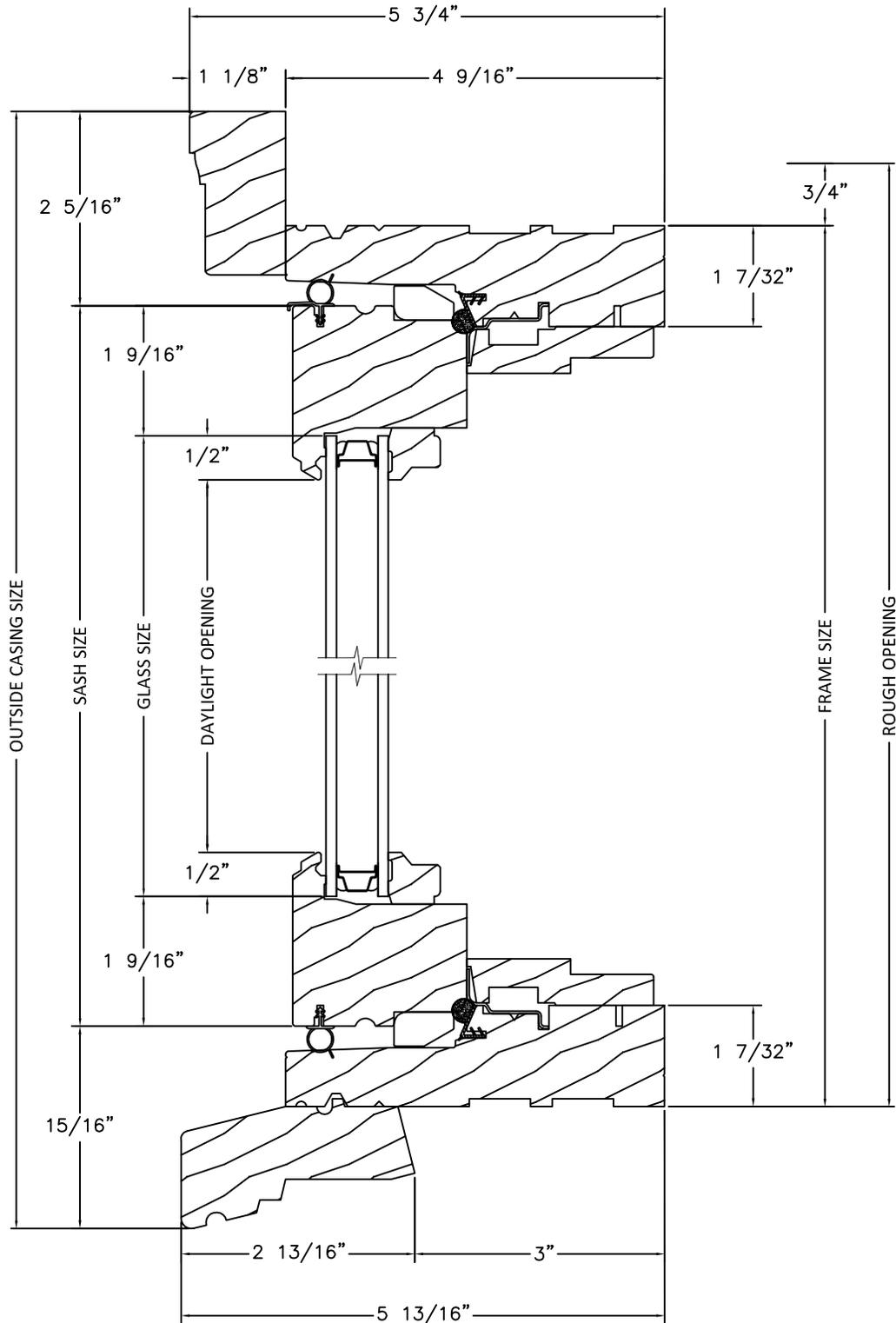
VERTICAL SECTION
OPERATING UNIT



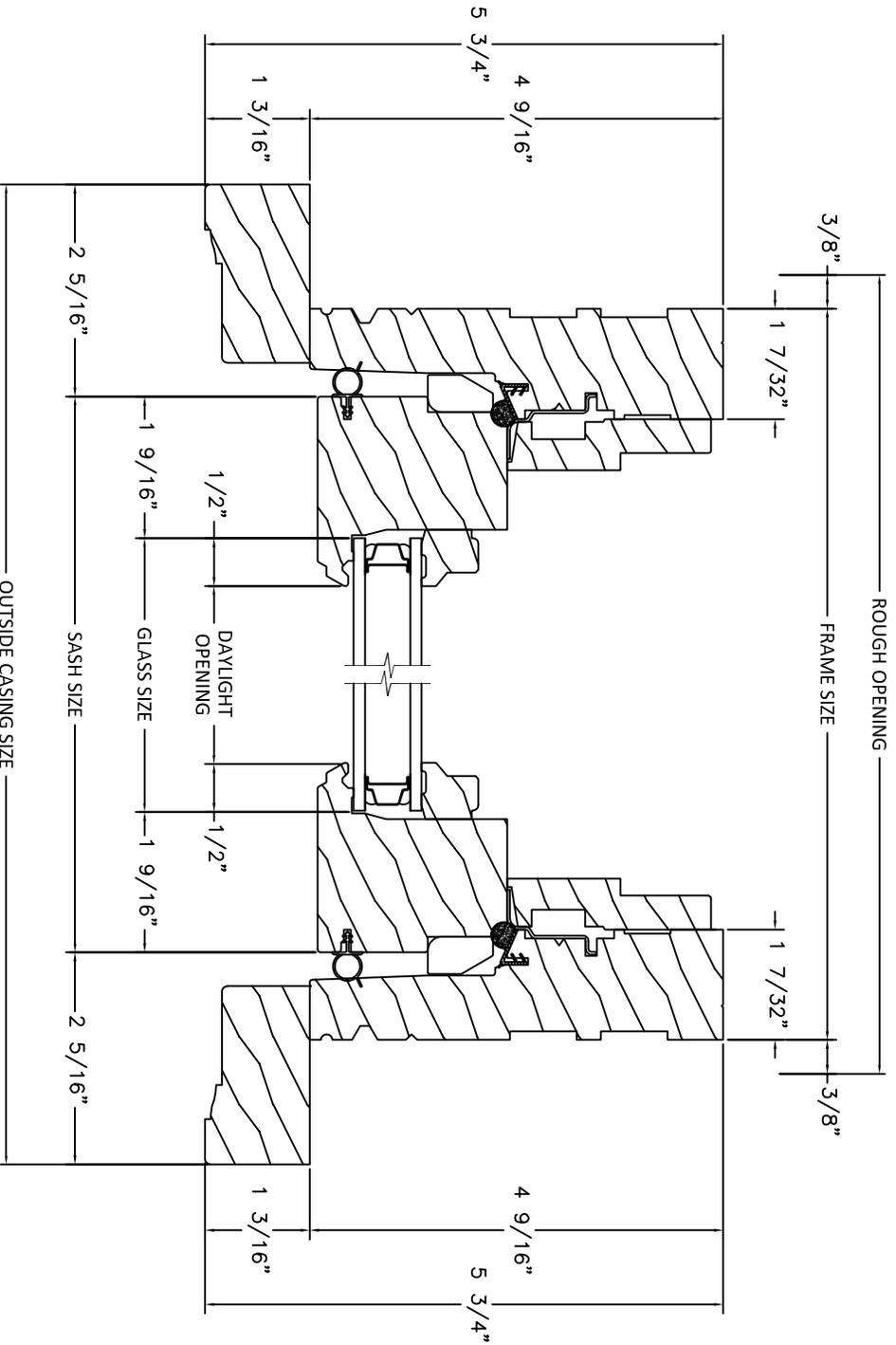
HORIZONTAL SECTION
OPERATING UNIT



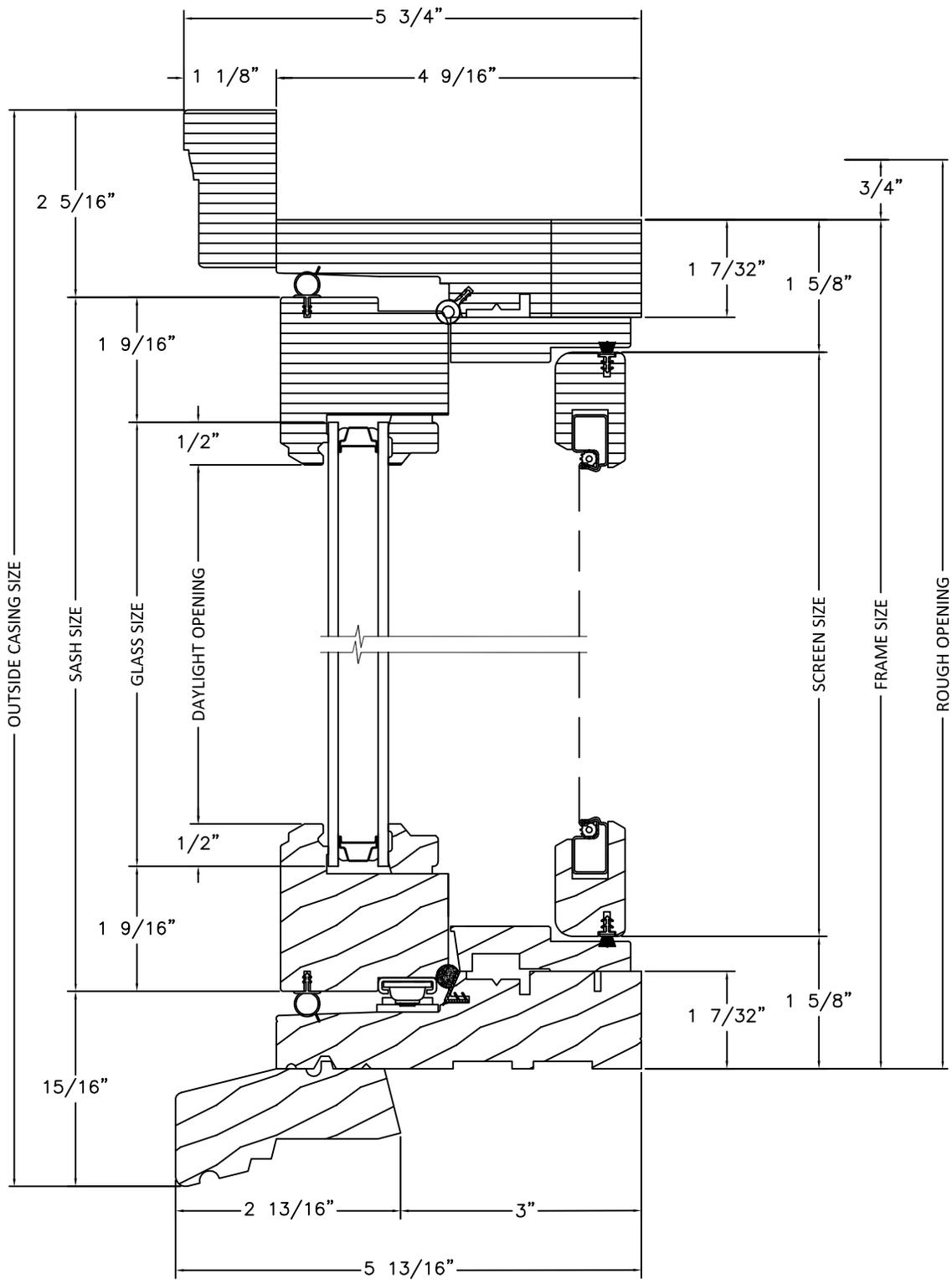
VERTICAL SECTION
PICTURE UNIT



HORIZONTAL SECTION
PICTURE UNIT

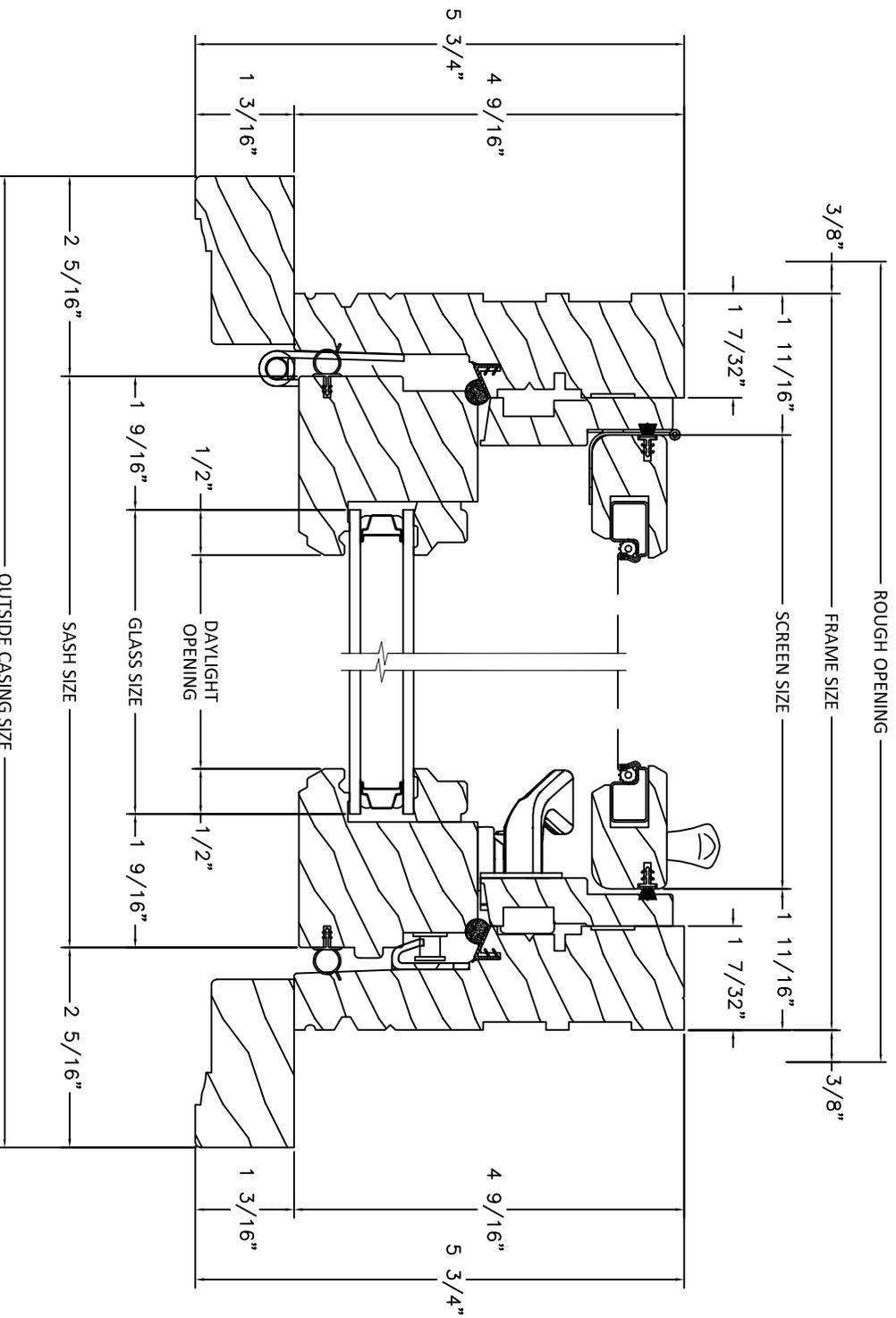


VERTICAL SECTION
RADIUS OPERATING UNIT

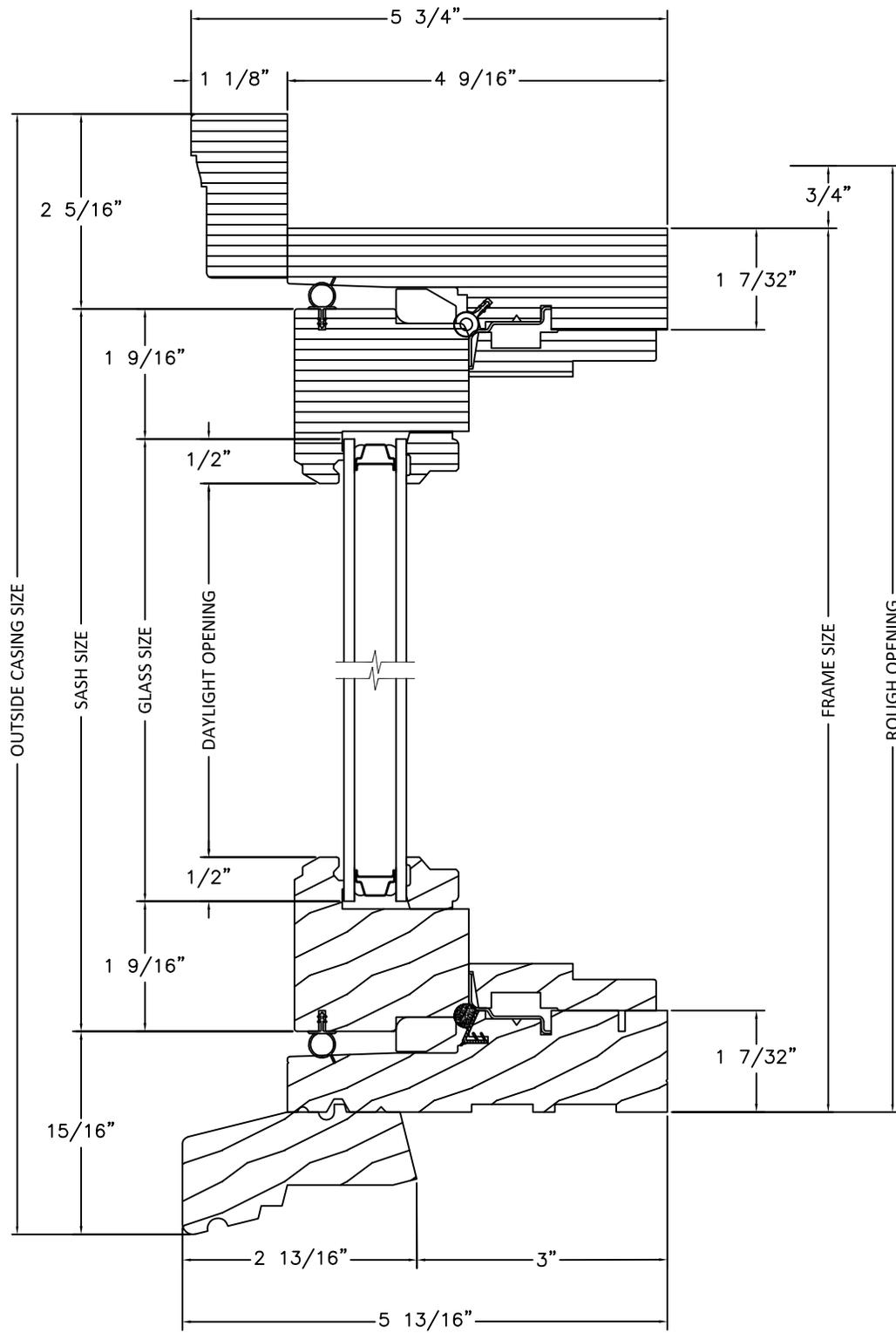


NOTE: OPTIONAL STAY BAR

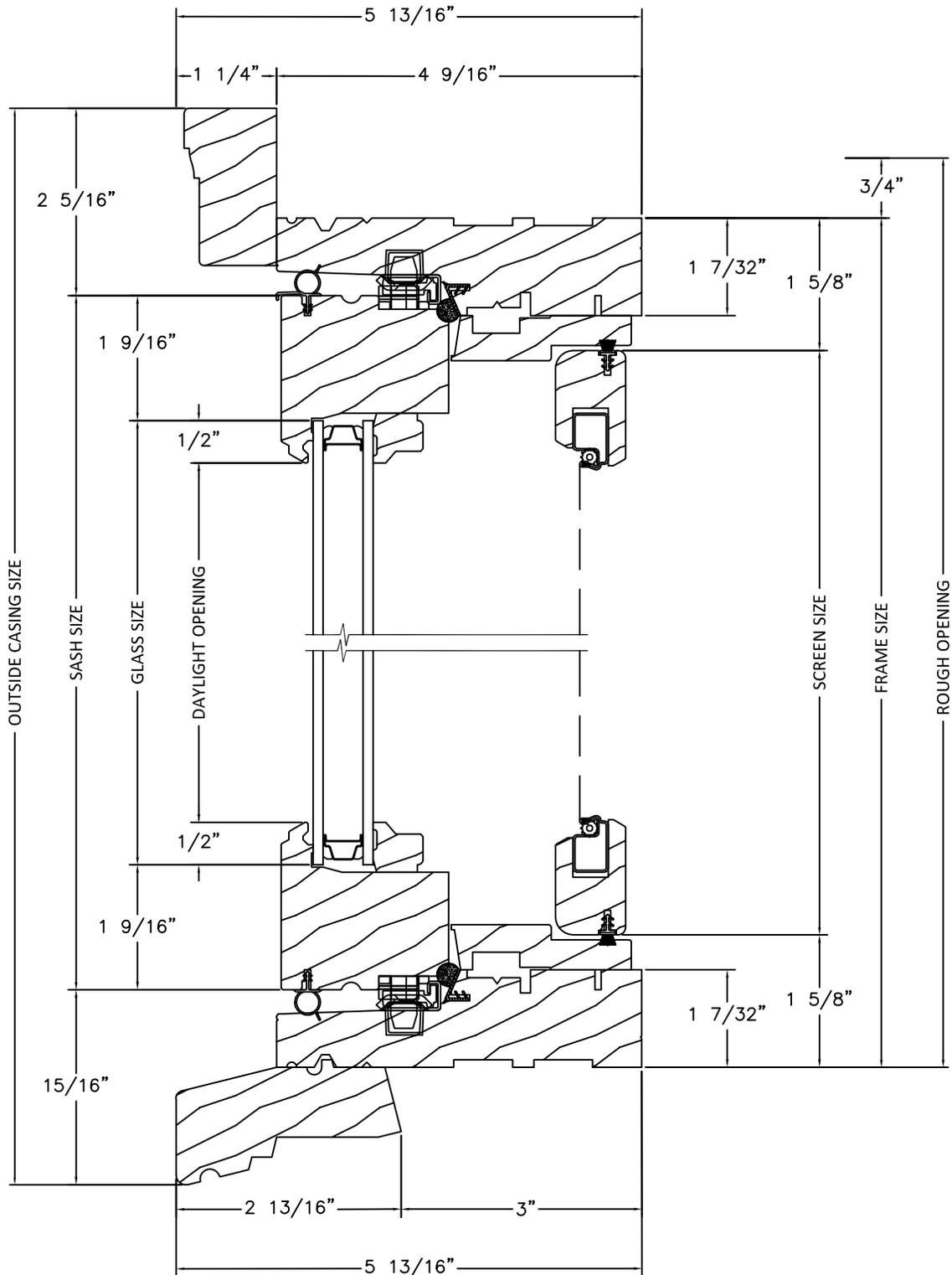
HORIZONTAL SECTION
RADIUS OPERATING UNIT



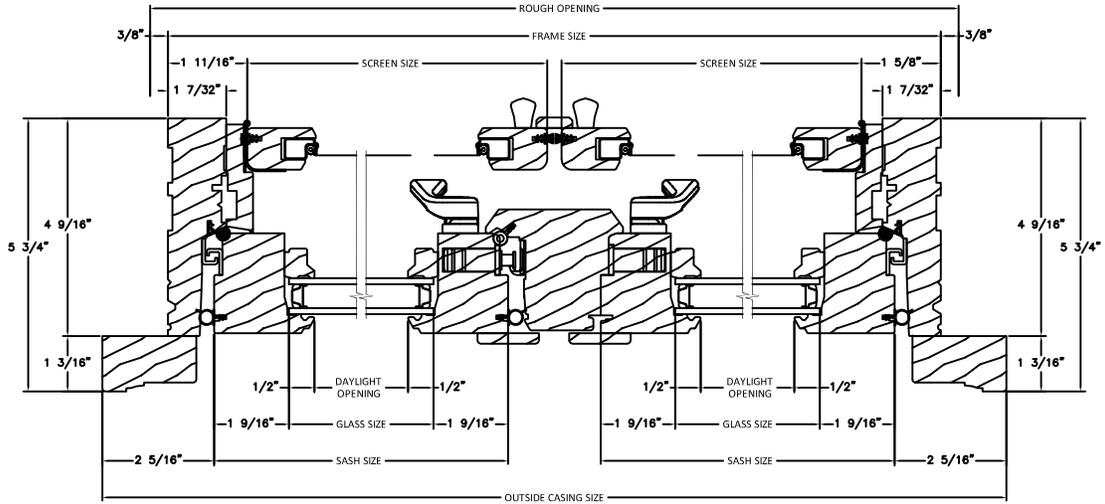
VERTICAL SECTION
RADIUS STATIONARY UNITS



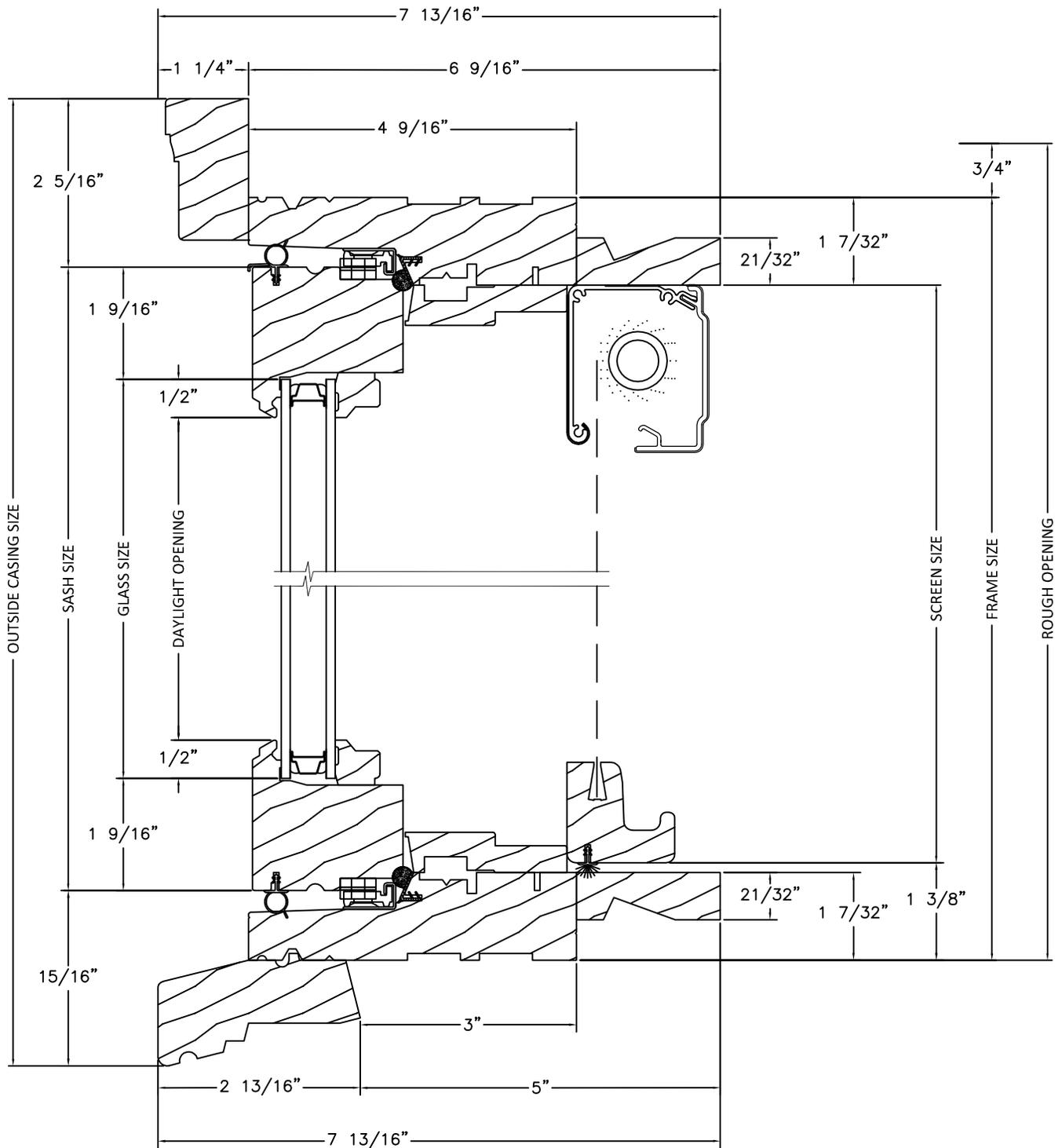
VERTICAL SECTION
FRENCH CASEMENT UNIT



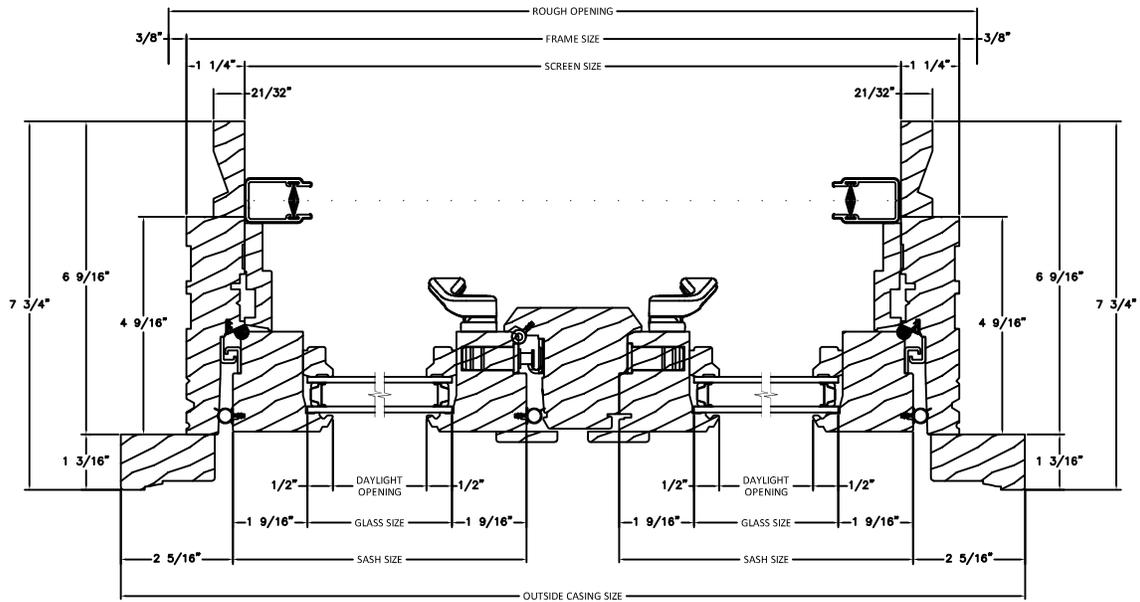
HORIZONTAL SECTION
FRENCH CASEMENT UNIT



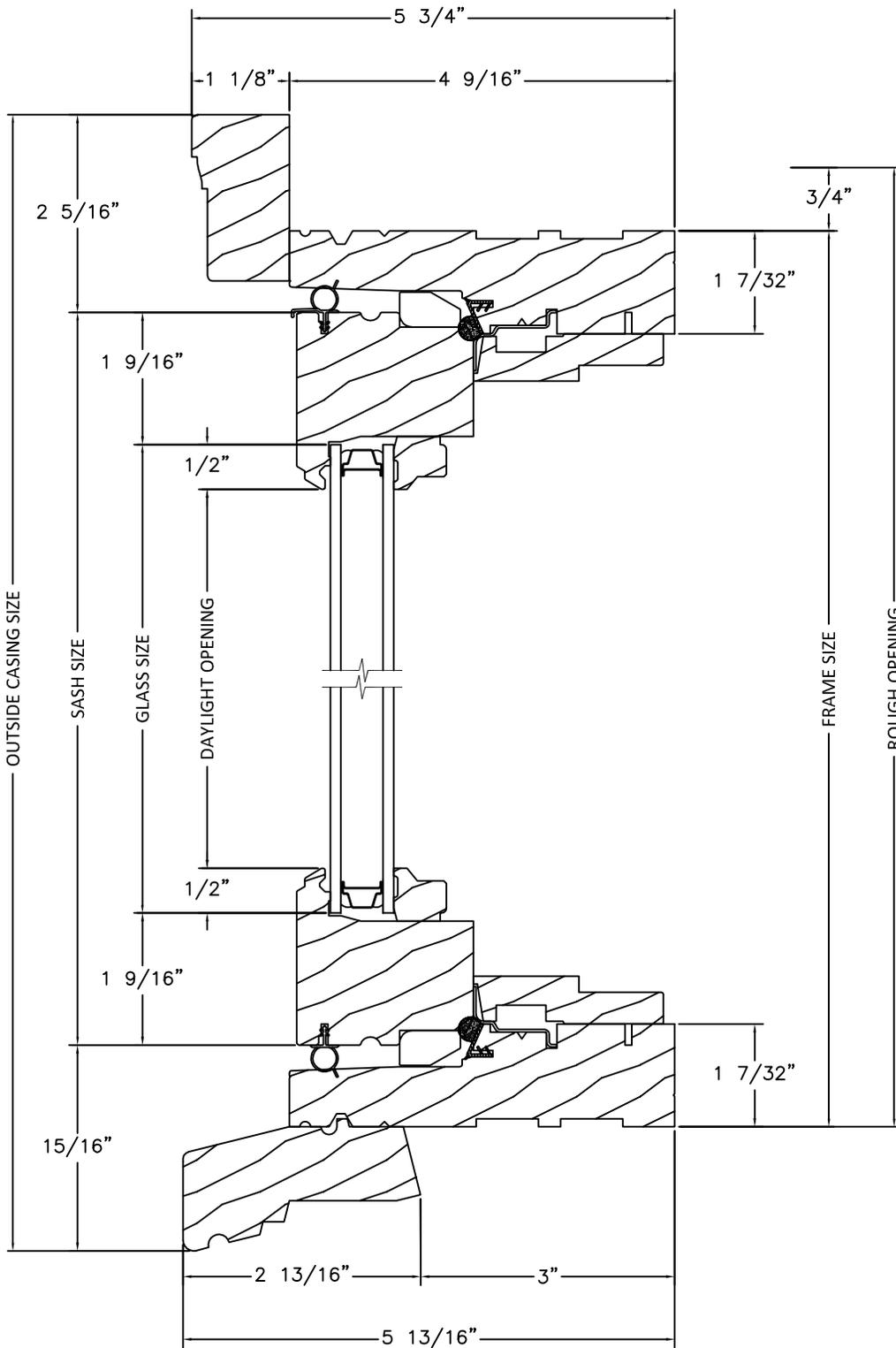
VERTICAL SECTION
FRENCH CASEMENT UNIT WITH PHANTOM SCREEN



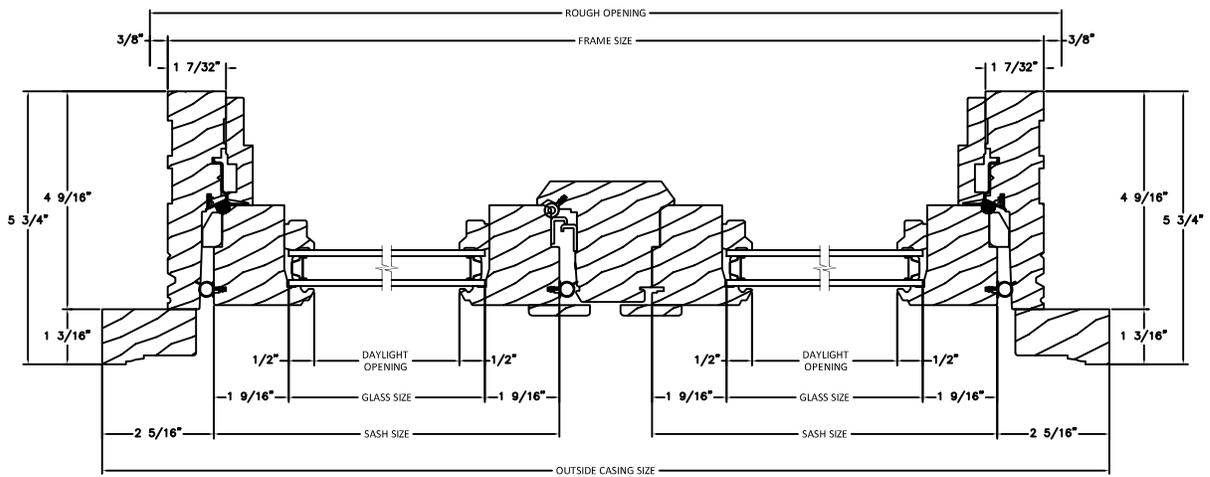
HORIZONTAL SECTION
FRENCH CASEMENT UNIT WITH PHANTOM SCREEN



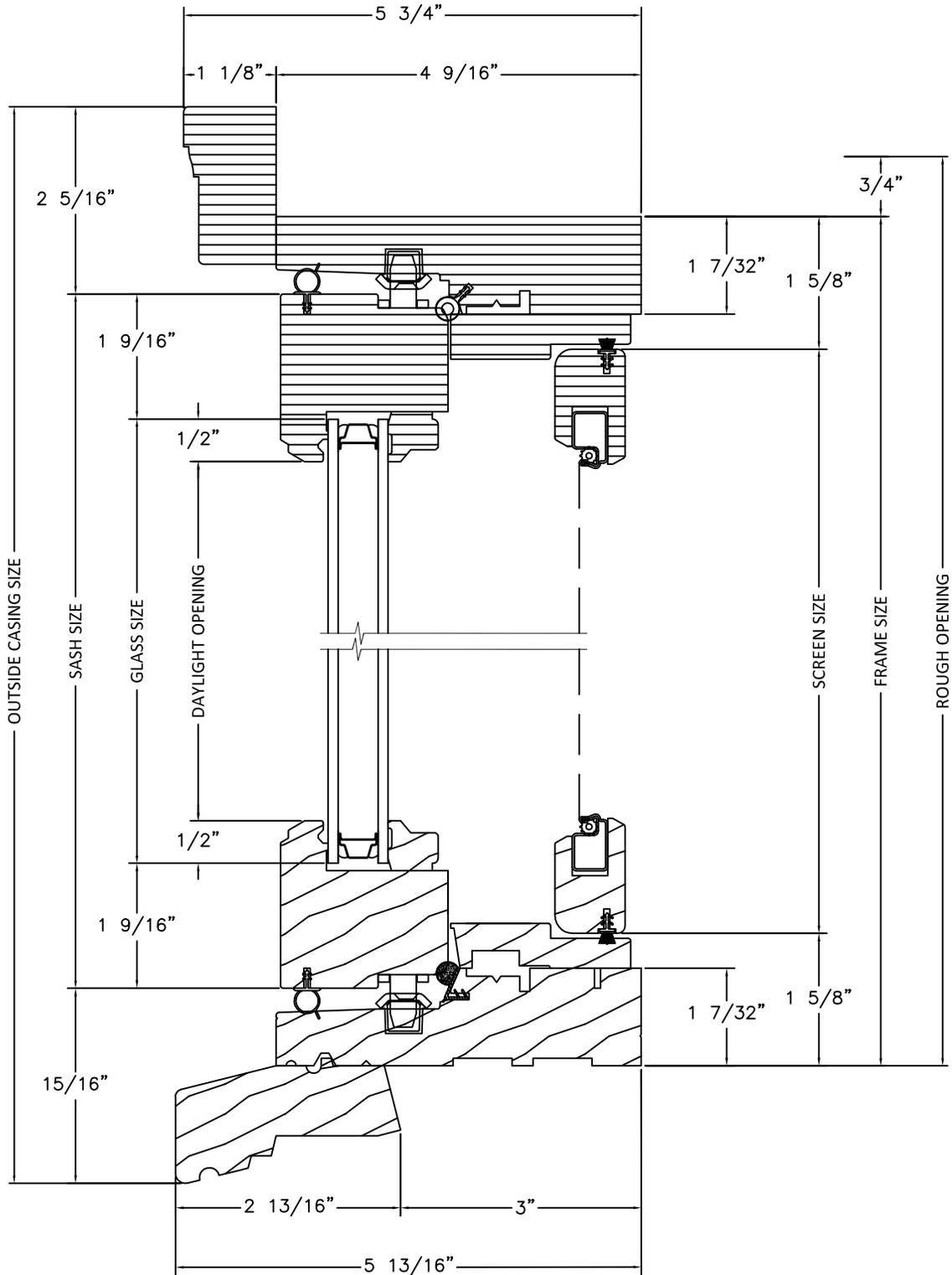
VERTICAL SECTION
FRENCH CASEMENT STATIONARY UNIT



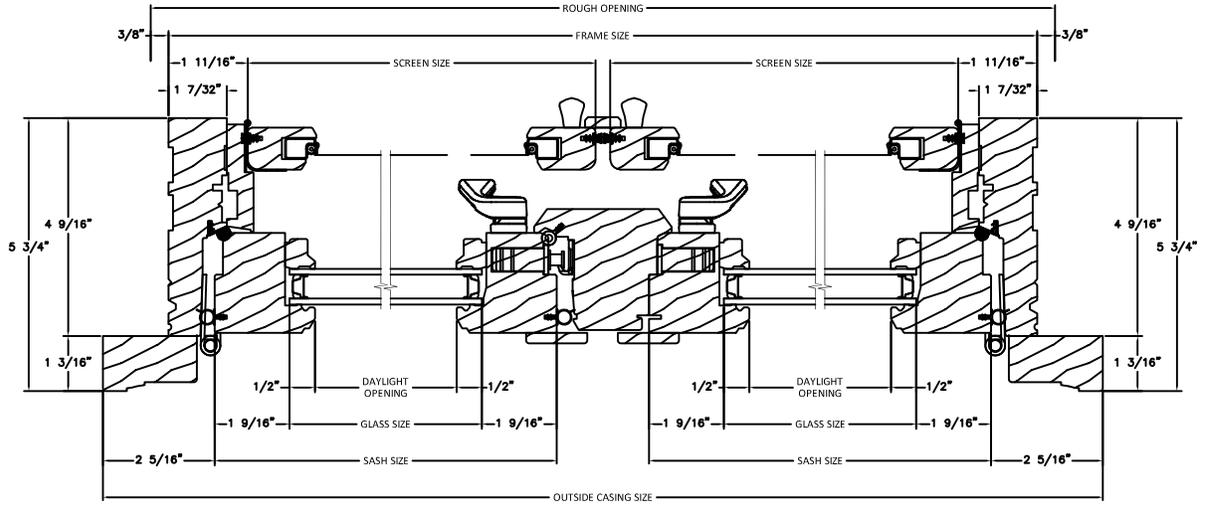
HORIZONTAL SECTION
FRENCH CASEMENT STATIONARY UNIT



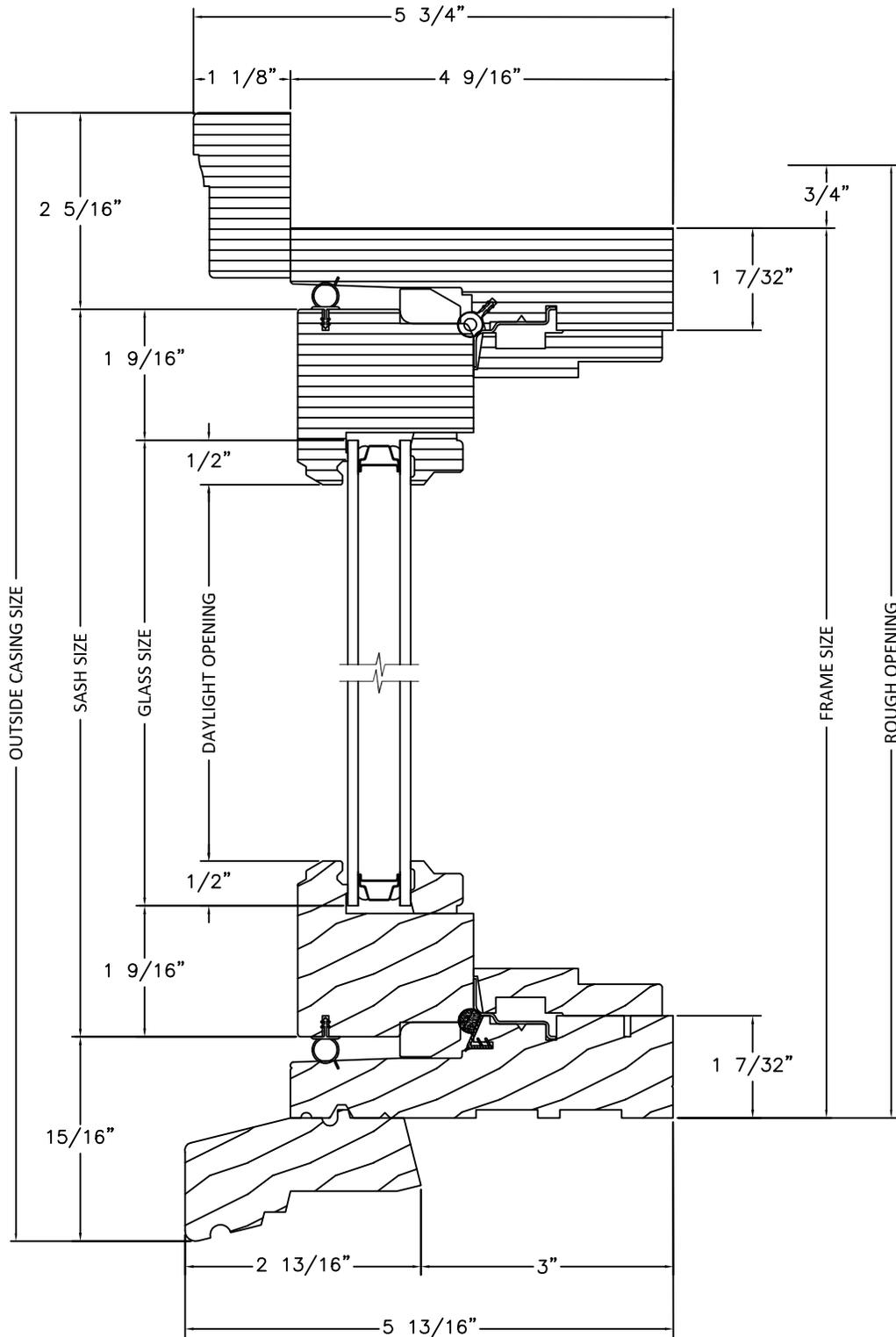
VERTICAL SECTION
FRENCH RADIUS OPERATING UNIT



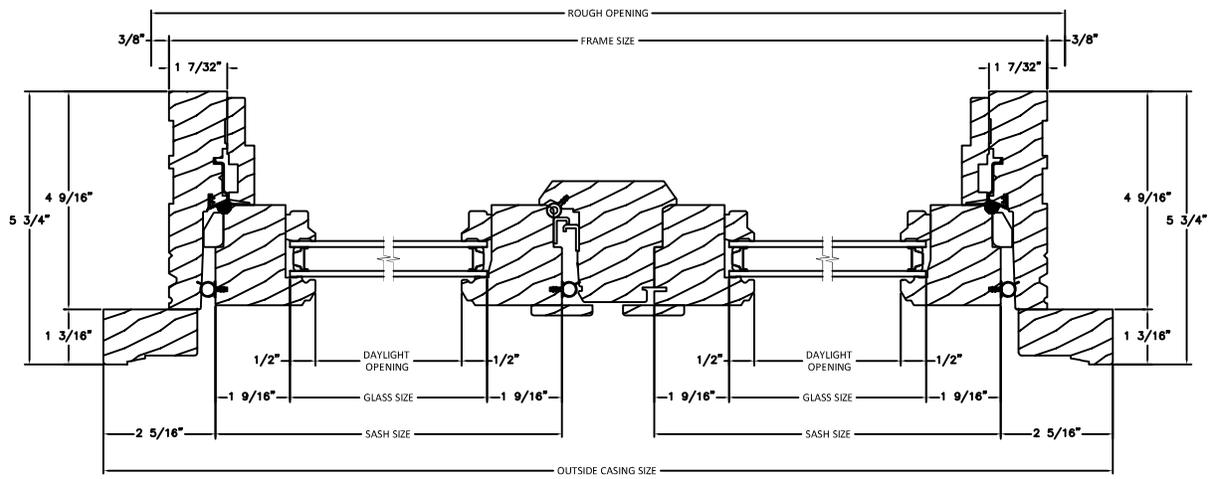
HORIZONTAL SECTION
FRENCH RADIUS OPERATING UNITS



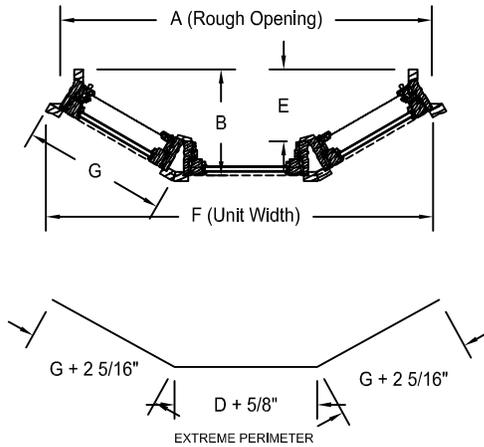
VERTICAL SECTION
FRENCH RADIUS STATIONARY UNITS



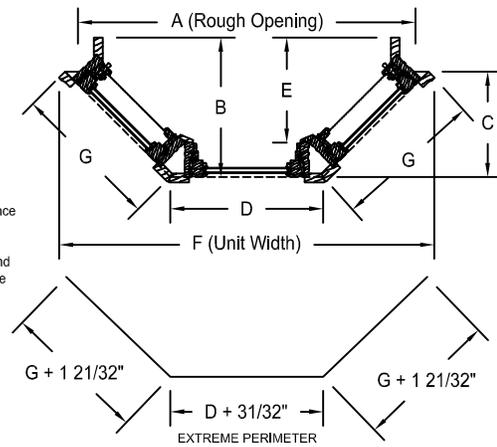
HORIZONTAL SECTION
FRENCH RADIUS STATIONARY UNIT



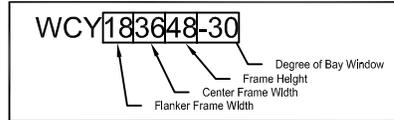
BAY WINDOW HORIZONTAL SPECIFICATION TABLES



EXTREME PERIMETER
Extreme Perimeter is the distance around the face of the bay, beginning at the exterior sheathing and continuing around the assembly along the extreme face of the brickmould.



BOOKCODE NOTE:



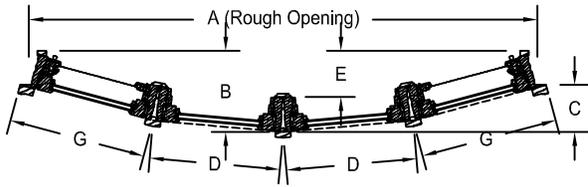
30° BAY									
Flanker Width	Center Width	A Rough Opening	F Unit Width	B Overall Projection*	C Projection Exterior Wall	E Sealing Depth*	D Outside Mull To Mull	G Outside Mull To Unit	
18	18	53 3/4	57 9/32	14 1/16	10 5/16	10 5/16	20 7/16	20 19/32	
18	36	71 3/4	75 9/32	14 1/16	10 5/16	10 5/16	38 7/16	20 19/32	
18	42	77 3/4	81 9/32	14 1/16	10 5/16	10 5/16	44 7/16	20 19/32	
18	48	83 3/4	87 9/32	14 1/16	10 5/16	10 5/16	50 7/16	20 19/32	
18	60	95 3/4	99 9/32	14 1/16	10 5/16	10 5/16	62 7/16	20 19/32	
18	72	107 3/4	111 9/32	14 1/16	10 5/16	10 5/16	74 7/16	20 19/32	
24	24	70 1/8	73 11/16	17 1/16	13 5/16	13 5/16	26 7/16	26 19/32	
24	36	82 1/8	85 11/16	17 1/16	13 5/16	13 5/16	38 7/16	26 19/32	
24	42	88 1/8	91 11/16	17 1/16	13 5/16	13 5/16	44 7/16	26 19/32	
24	48	94 1/8	97 11/16	17 1/16	13 5/16	13 5/16	50 7/16	26 19/32	
24	60	106 1/8	109 11/16	17 1/16	13 5/16	13 5/16	62 7/16	26 19/32	
24	72	118 1/8	121 11/16	17 1/16	13 5/16	13 5/16	74 7/16	26 19/32	
28	28	81 1/16	84 19/32	19 1/16	15 5/16	15 5/16	30 7/16	30 19/32	
28	36	89 1/16	92 19/32	19 1/16	15 5/16	15 5/16	38 7/16	30 19/32	
28	42	95 1/16	98 19/32	19 1/16	15 5/16	15 5/16	44 7/16	30 19/32	
28	48	101 1/16	104 19/32	19 1/16	15 5/16	15 5/16	50 7/16	30 19/32	
28	60	113 1/16	116 19/32	19 1/16	15 5/16	15 5/16	62 7/16	30 19/32	
28	72	125 1/16	128 19/32	19 1/16	15 5/16	15 5/16	74 7/16	30 19/32	

45° BAY									
Flanker Width	Center Width	A Rough Opening	F Unit Width	B Overall Projection*	C Projection Exterior Wall	E Sealing Depth*	D Outside Mull To Mull	G Outside Mull To Unit	
18	18	48 3/4	53 1/2	19 5/8	15 1/16	15 1/16	21 25/32	21 9/32	
18	36	66 3/4	71 1/2	19 5/8	15 1/16	15 1/16	39 25/32	21 9/32	
18	42	72 3/4	77 1/2	19 5/8	15 1/16	15 1/16	45 25/32	21 9/32	
18	48	78 3/4	83 1/2	19 5/8	15 1/16	15 1/16	51 25/32	21 9/32	
18	60	90 3/4	95 1/2	19 5/8	15 1/16	15 1/16	63 25/32	21 9/32	
18	72	102 3/4	107 1/2	19 5/8	15 1/16	15 1/16	75 25/32	21 9/32	
24	24	63 1/4	68	23 1/16	19 5/16	19 5/16	27 25/32	27 9/32	
24	36	75 1/4	80	23 1/16	19 5/16	19 5/16	39 25/32	27 9/32	
24	42	81 1/4	86	23 1/16	19 5/16	19 5/16	45 25/32	27 9/32	
24	48	87 1/4	92	23 1/16	19 5/16	19 5/16	51 25/32	27 9/32	
24	60	99 1/4	104	23 1/16	19 5/16	19 5/16	63 25/32	27 9/32	
24	72	111 1/4	116	23 1/16	19 5/16	19 5/16	75 25/32	27 9/32	
28	28	72 7/8	77 21/32	26 11/16	22 1/8	22 1/8	31 25/32	31 9/32	
28	36	80 7/8	85 21/32	26 11/16	22 1/8	22 1/8	39 25/32	31 9/32	
28	42	86 7/8	91 21/32	26 11/16	22 1/8	22 1/8	45 25/32	31 9/32	
28	48	92 7/8	97 21/32	26 11/16	22 1/8	22 1/8	51 25/32	31 9/32	
28	60	104 7/8	109 21/32	26 11/16	22 1/8	22 1/8	63 25/32	31 9/32	
28	72	116 7/8	121 21/32	26 11/16	22 1/8	22 1/8	75 25/32	31 9/32	

4 9/16 and 6 9/16 WALL APPLICATION

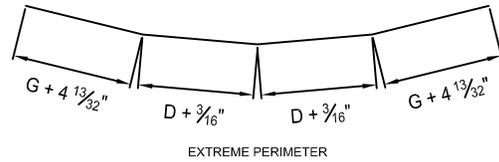
The tables above reflect a 4 9/16" wall application. To convert to 6 9/16" wall application add 2" to the figures in the columns which show an asterisk (*), B and E.

BOW WINDOW HORIZONTAL SPECIFICATION TABLES

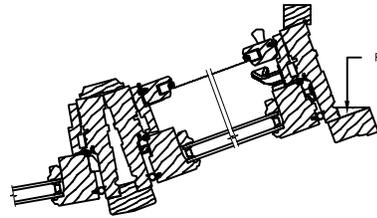
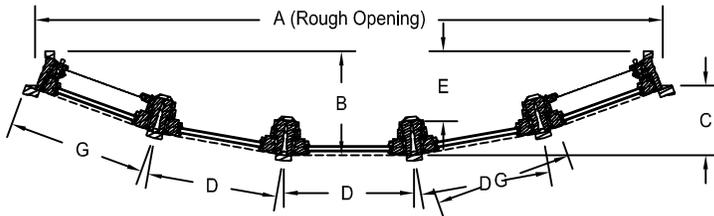


EXTREME PERIMETER
Extreme Perimeter is the distance around the face of the bow, beginning at the exterior sheathing and continuing around the assembly along the extreme face of the brickmould.

4 WIDE BOW									
Flanker Width	A	F	B*	C	E*	D	G	R	
	Rough Opening	Unit Width	Overall Projection	Projection Exterior Wall	Seating Depth	Outside Mull To Mull	Outside Mull To Unit	Radius	
18	73 9/16	76 15/64	11 21/64	6 49/64	6 49/64	18 13/16	19 25/32	107 15/16	
24	97 1/8	99 25/32	13 25/64	8 53/64	8 53/64	24 13/16	25 25/32	142 3/8	
28	112 13/16	115 15/32	14 25/32	10 7/32	10 7/32	28 13/16	29 25/32	165 5/16	

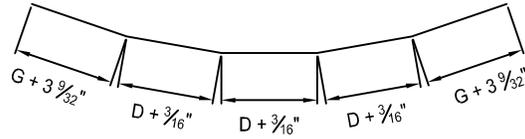


EXTREME PERIMETER

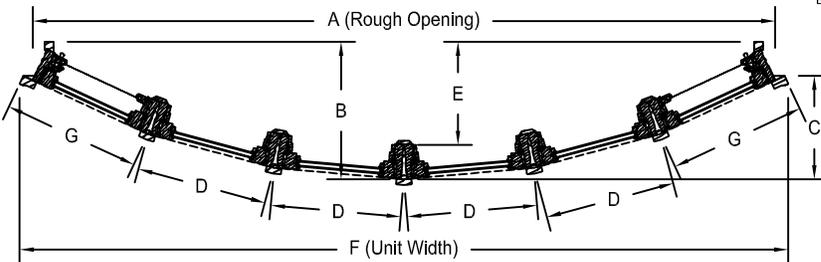


RADIUS NOTE: The Radius of a Bow Window Is referenced from the interior of the Brickmould.

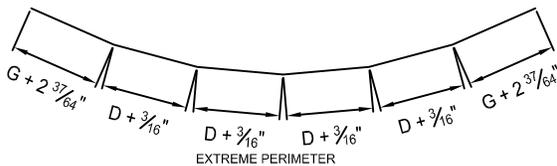
5 WIDE BOW									
Flanker Width	A	F	B*	C	E*	D	G	R	
	Rough Opening	Unit Width	Overall Projection	Projection Exterior Wall	Seating Depth	Outside Mull To Mull	Outside Mull To Unit	Radius	
18	90 7/8	93 25/32	14 19/32	10 1/32	10 1/32	18 13/16	19 25/32	107 15/16	
24	119 15/16	122 1/16	17 11/16	13 1/8	13 1/8	24 13/16	25 25/32	142 3/8	
28	139 5/16	142 17/64	19 3/4	15 3/16	15 3/16	28 13/16	29 25/32	165 5/16	



EXTREME PERIMETER



6 WIDE BOW									
Flanker Width	A	F	B*	C	E*	D	G	R	
	Rough Opening	Unit Width	Overall Projection	Projection Exterior Wall	Seating Depth	Outside Mull To Mull	Outside Mull To Unit	Radius	
18	107 3/8	110 39/64	19 27/64	14 55/64	14 55/64	18 13/16	19 25/32	107 15/16	
24	141 13/16	145 1/32	24 3/64	19 31/64	19 31/64	24 13/16	25 25/32	142 3/8	
28	164 3/4	167 31/32	27 7/64	22 35/64	22 35/64	28 13/16	29 25/32	165 5/16	



EXTREME PERIMETER

4 9/16 and 6 9/16 WALL APPLICATION
The tables above reflect a 4 9/16" wall application. To convert to 6 9/16" wall application add 2" to the figures in the columns which show an asterisk (*), B and E.

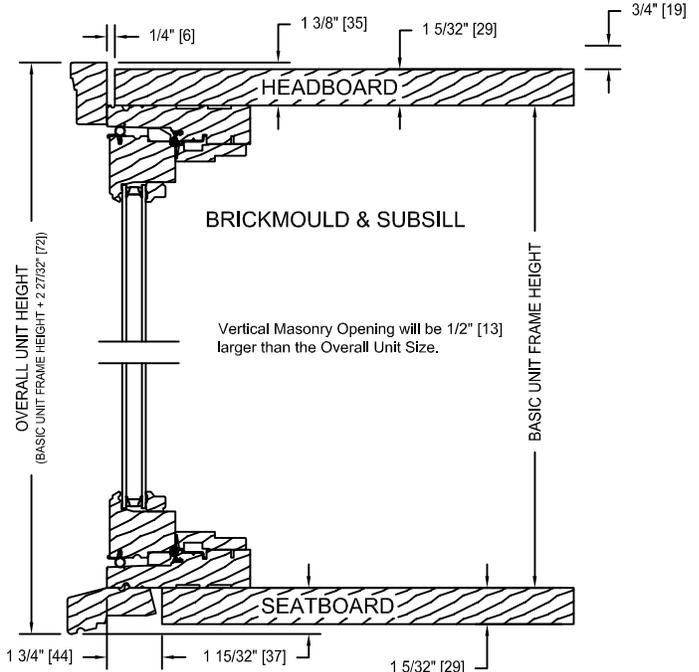
BAY & BOW WINDOW ROUGH OPENINGS

BAY & BOW WINDOW TRIM OPTIONS

The standard offering for wood bay & bow windows is 'frame only', brickmould and subsill, subsill only, and brickmould on all sides. Other trim options subject to approval. Rough & Masonry openings remain consistent with all trim options.

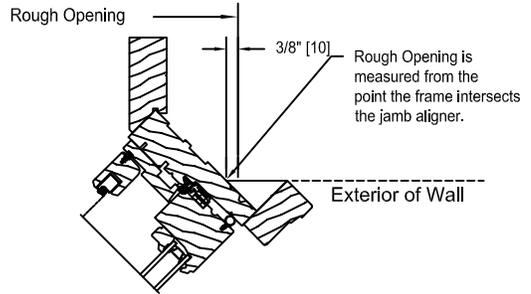
VERTICAL ROUGH OPENING

Rough Opening typical for all Units

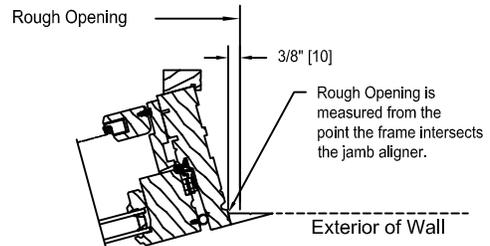


HORIZONTAL ROUGH OPENING

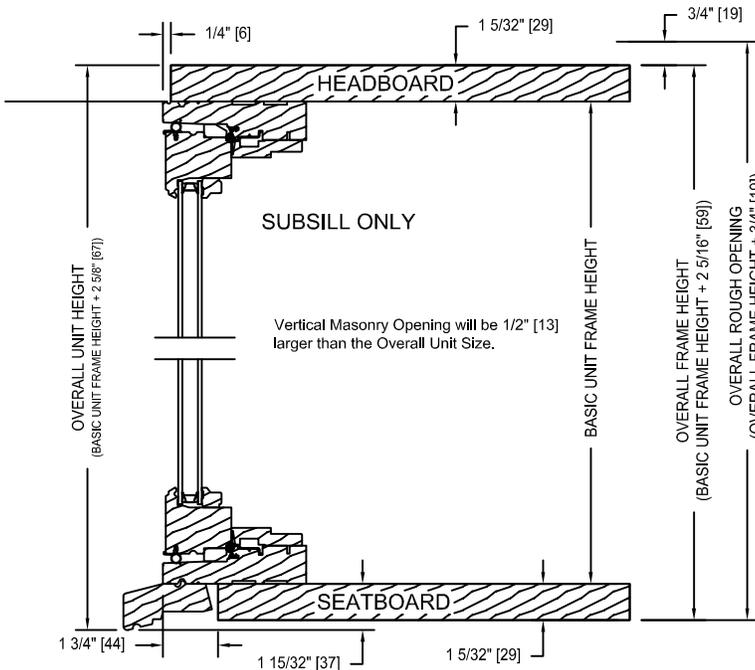
Rough Opening typical for all Units



30° & 45° BAYS
45° Bay Shown
with Brickmould

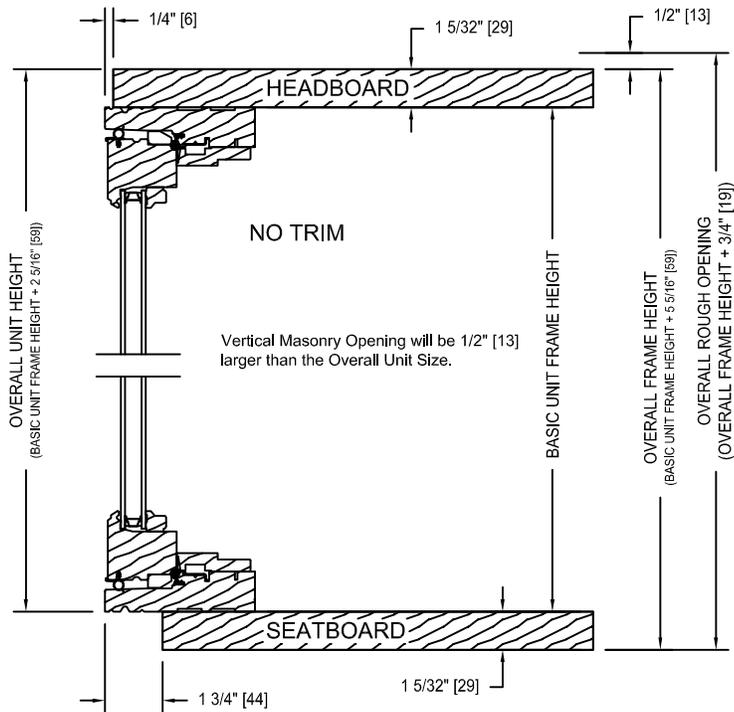


4, 5 & 6 WIDE BOWS
4 Wide Bow Shown
without trim

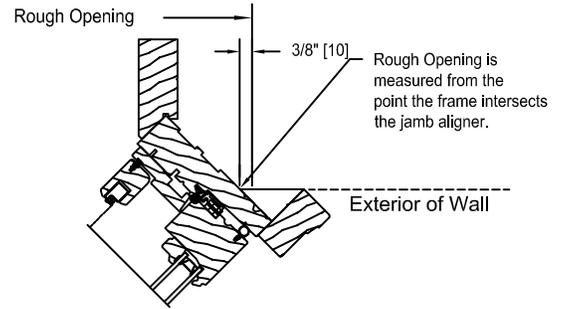


BAY & BOW WINDOW ROUGH OPENINGS

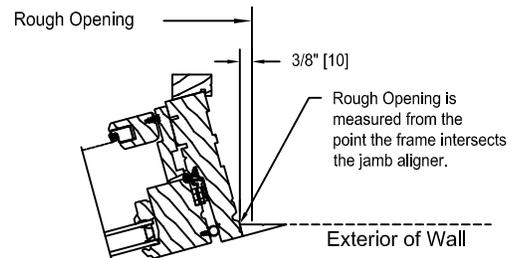
VERTICAL ROUGH OPENING
Rough Opening typical for all Units



HORIZONTAL ROUGH OPENING
Rough Opening typical for all Units



30° & 45° BAYS
45° Bay Shown
with Brickmould



4, 5 & 6 WIDE BOWS
4 Wide Bow Shown
without trim