

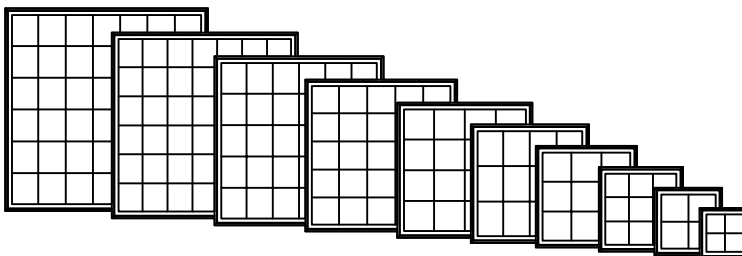
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GENERAL INFORMATION  
CASEMENT



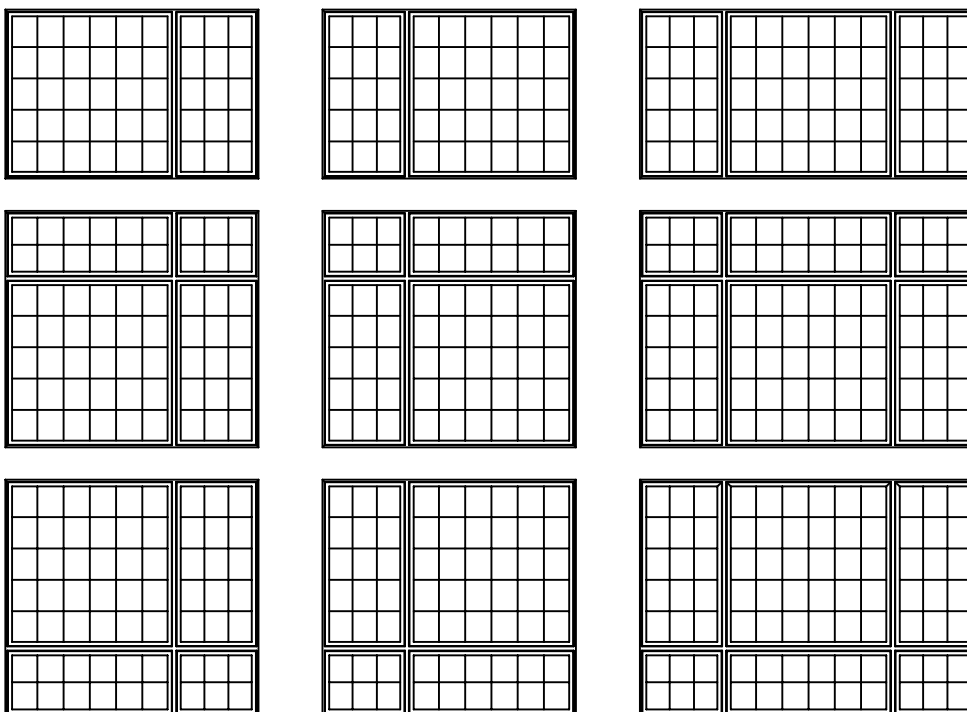
**DIMENSIONAL WINDOWS**

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 mullied above, below, or beside other wood casement windows, or other wood window products.

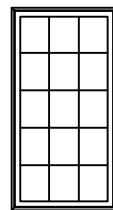


**LITE CUT INFORMATION**

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**

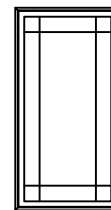
Special lite cut patterns can include a wide variety of straight line and radius patterns. The illustrations shown here represent just a few of the possibilities. Rectangular, horizontal, vertical and Prairie lite patterns are available in all standard size wood casement windows. Uneven, diamond, radius 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.



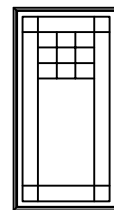
RECTANGULAR



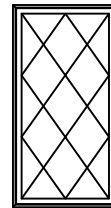
HORIZONTAL



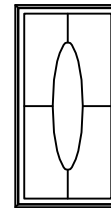
PRAIRIE



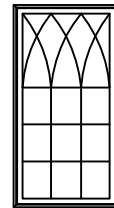
UNEVEN



DIAMOND



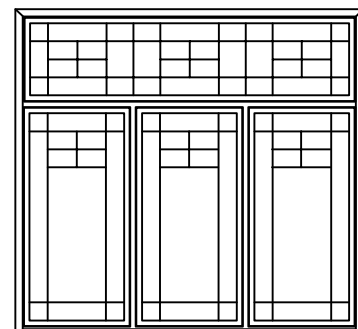
RADIUS



GOthic

**BAR ALIGNMENT**

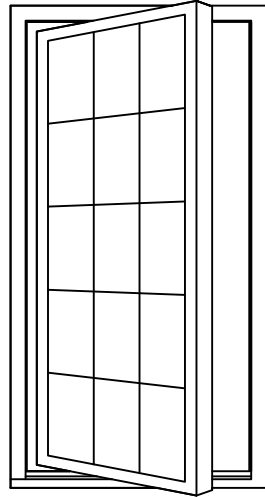
Alignment of divided lite muntin bars from one window to the next is often required by fine architectural design. Wood grilles, Grilles between the glass, and Simulated Divided Lites may be specified with muntin bars aligned.



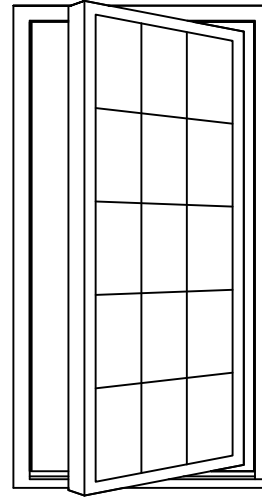
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HANDING & OPERATION

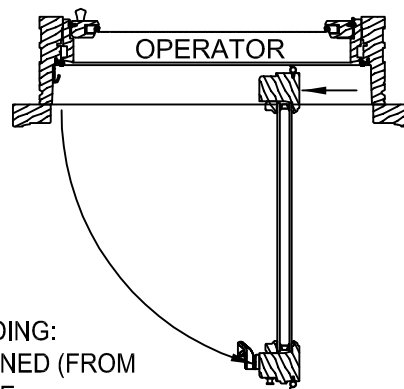
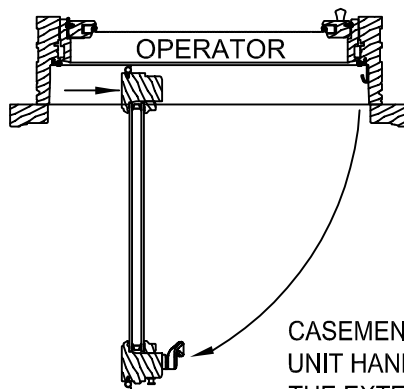
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LEFT  
HAND

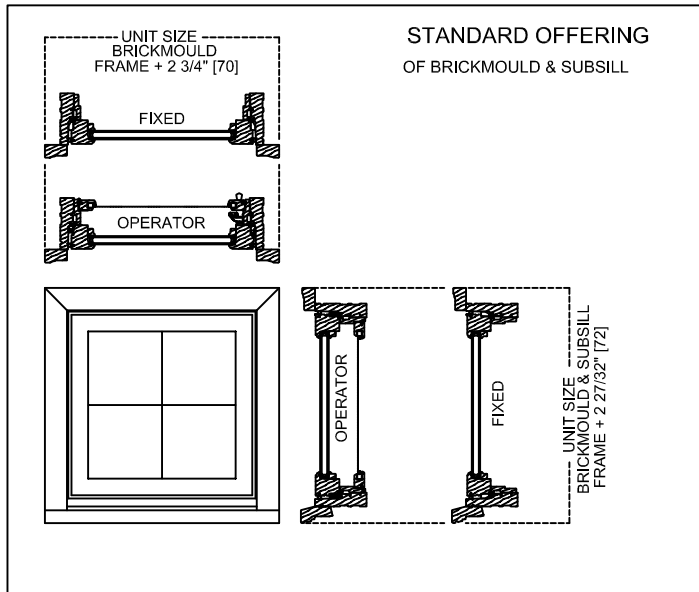


RIGHT  
HAND



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

### UNIT SIZING, ROUGH OPENINGS & MASONRY OPENINGS



#### GENERAL NOTES:

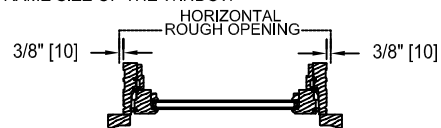
UNIT SIZE IS ALWAYS THE  
EXTREME SIZE OF THE WINDOW  
WITH OR WITHOUT TRIM AND  
DOES NOT INCLUDE NAIL FIN

#### MASONRY OPENING:

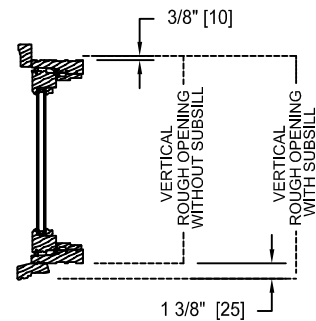
MASONRY OPENING IS ALWAYS 1/2" OVER (HEIGHT AND WIDTH)  
THE UNIT SIZE OR THE OUTSIDE EDGE OF THE TRIM  
OF THE WINDOW

#### ROUGH OPENING:

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

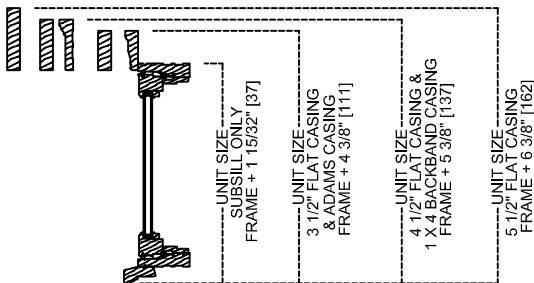


EXCEPTION: SEE DRAWING BELOW

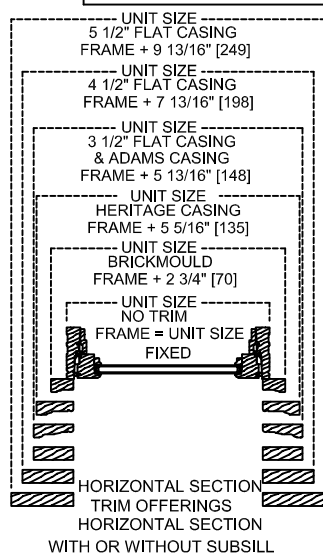
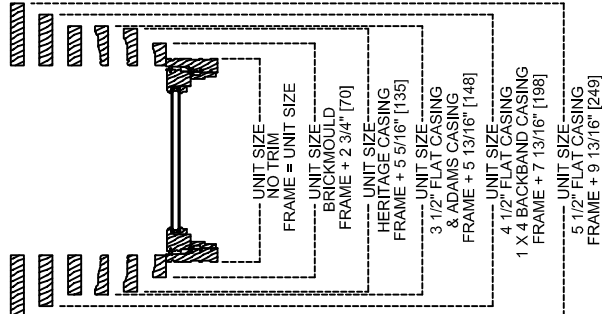


#### NON-STANDARD UNIT SIZING

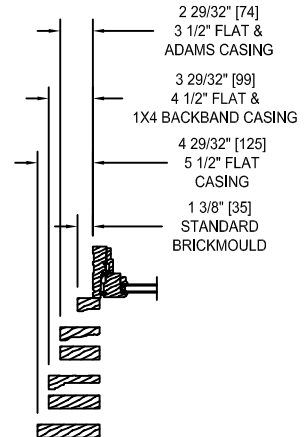
##### EXTERIOR TRIM OFFERINGS WITH SUBSILL



##### EXTERIOR TRIM OFFERINGS WITHOUT SUBSILL EXTERIOR TRIM ON ALL 4 SIDES

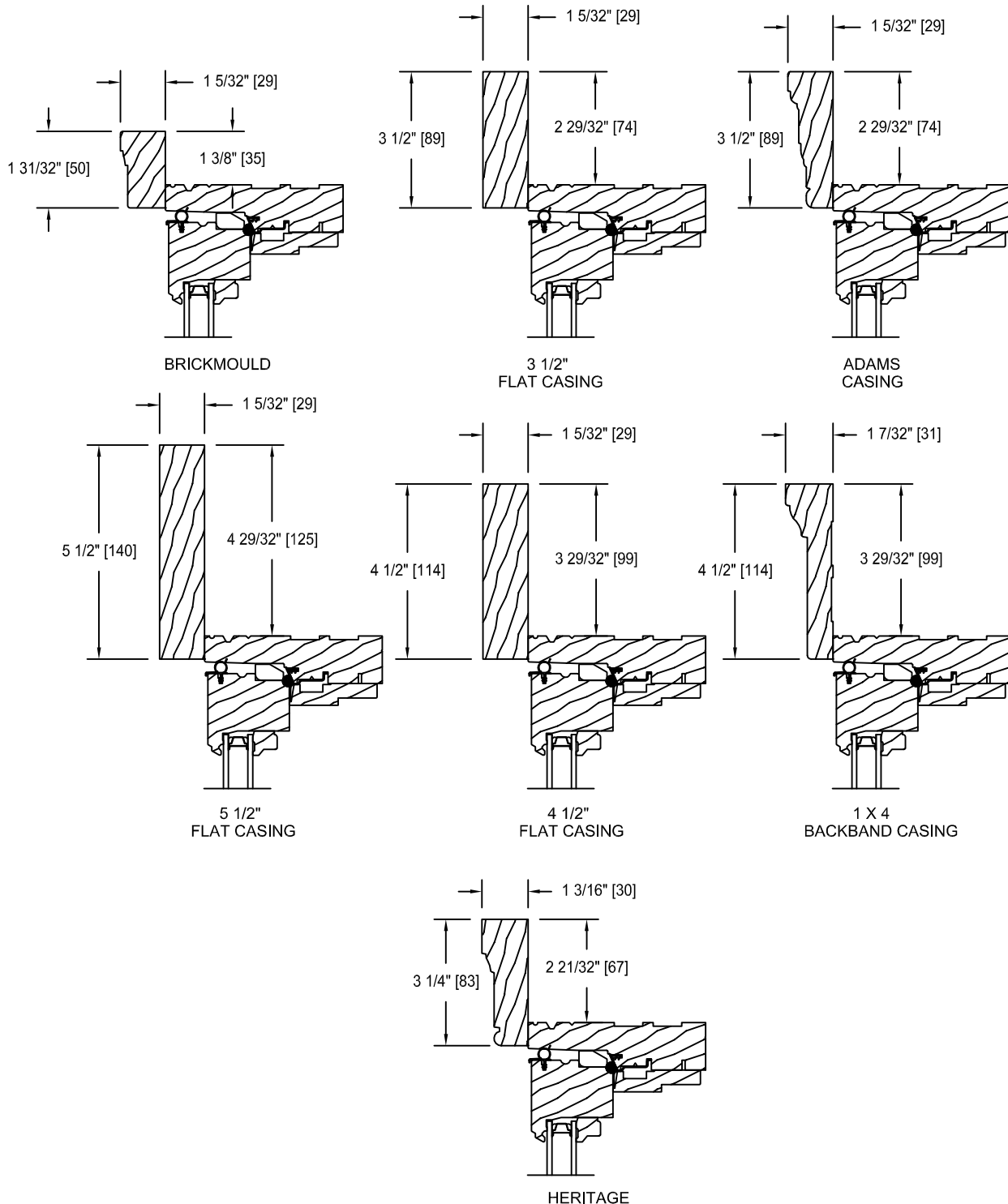


#### FRAME TO TRIM DIMENSIONS

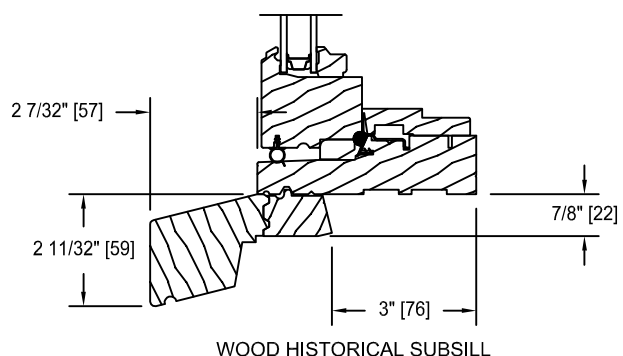
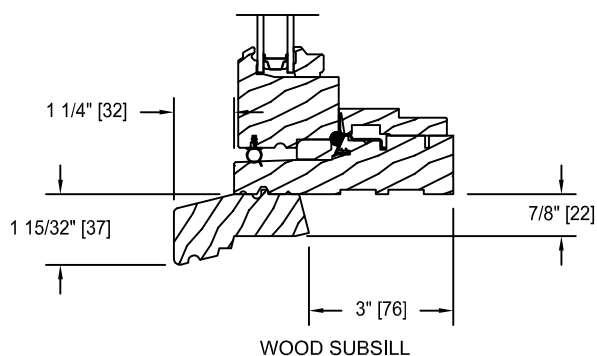


TYPICAL FOR HEAD, SILL & SIDE

TRIM OPTIONS  
CASEMENT

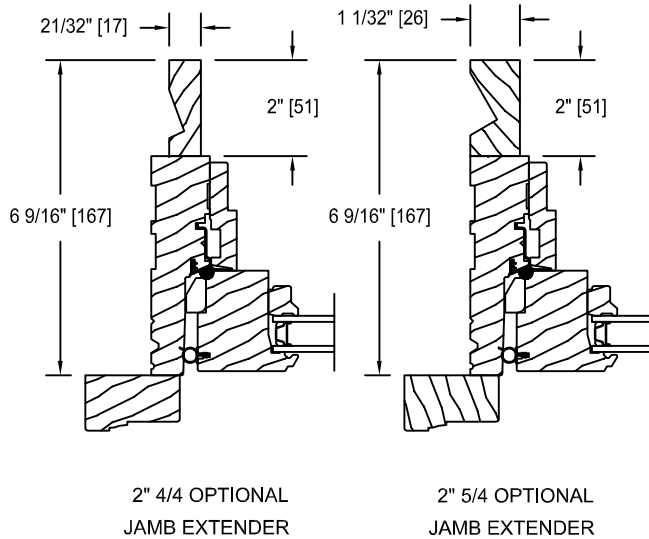


SILL OPTIONS

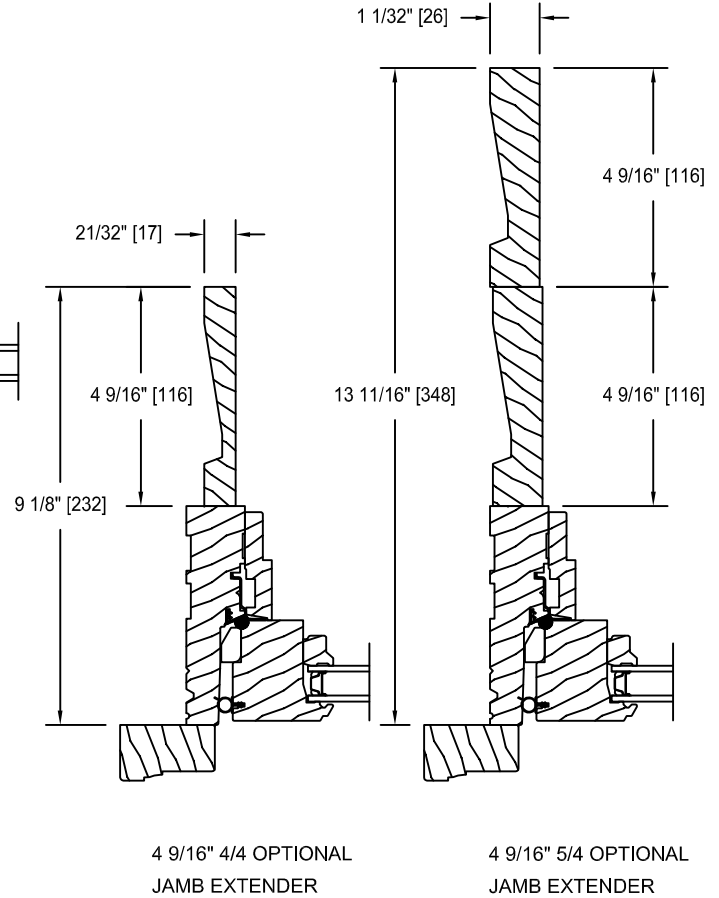


JAMB EXTENDER & STUCCO TRIM OPITONS

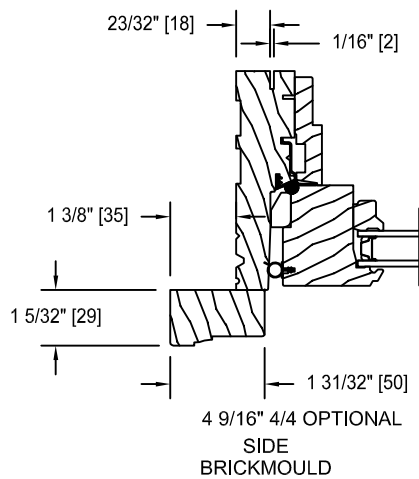
JAMB EXTENDER OPTIONS



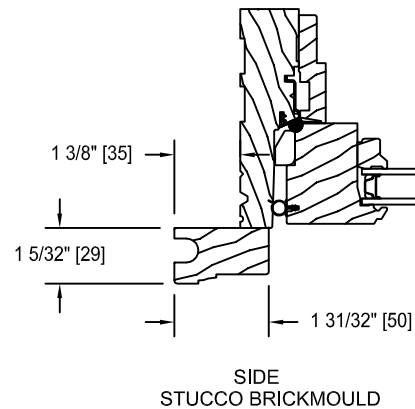
MAXIMUM JAMB WIDTHS



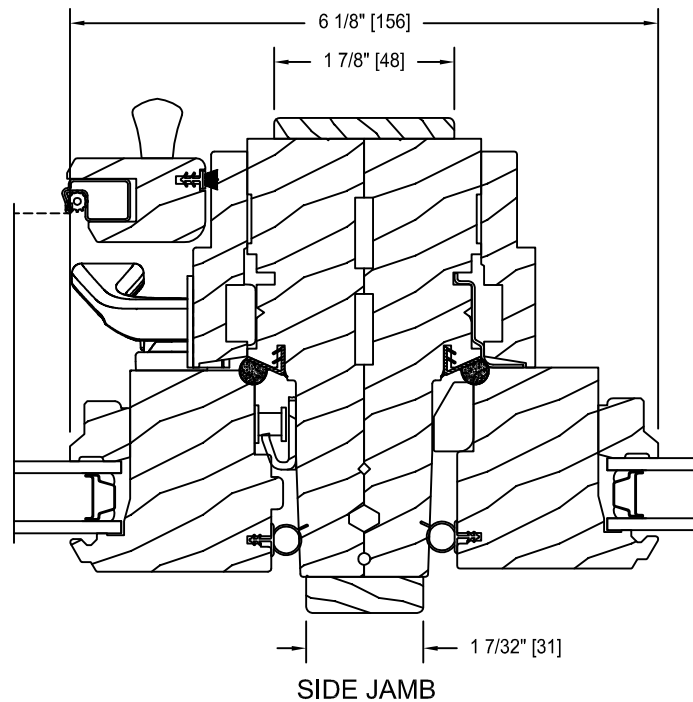
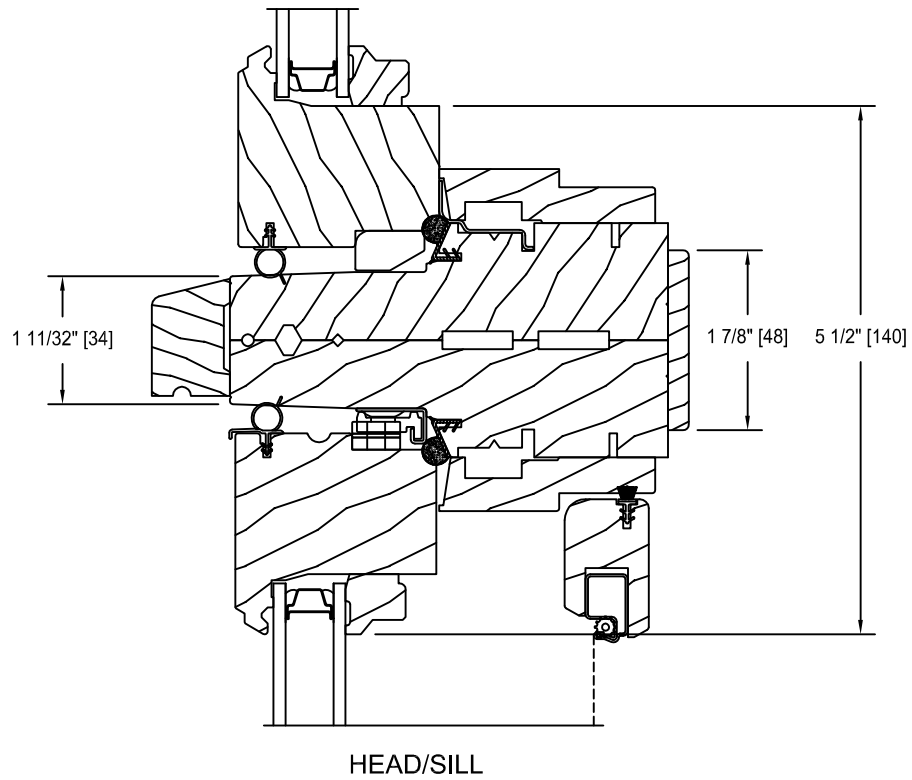
RETURN KERF OPTION



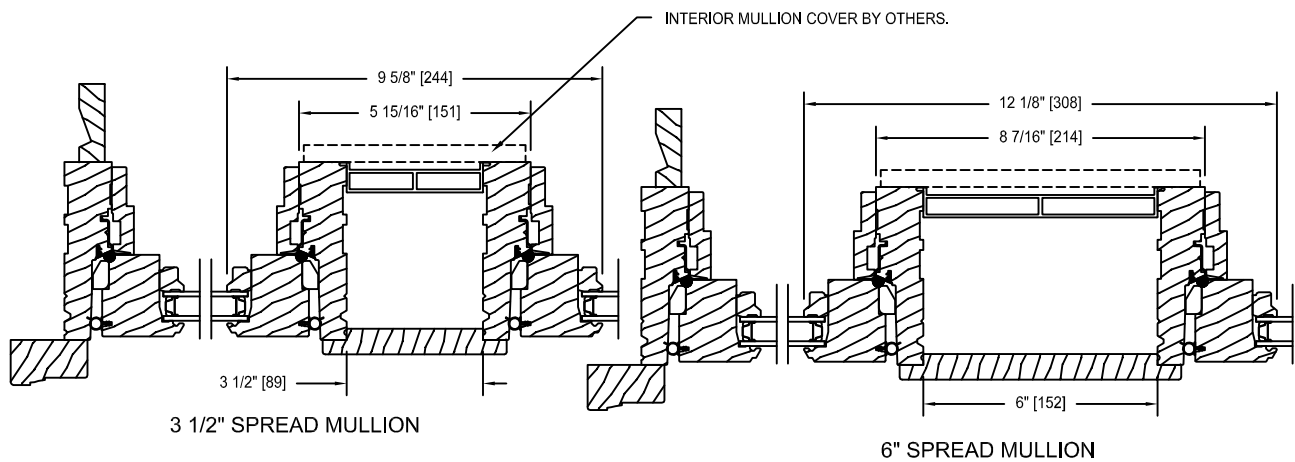
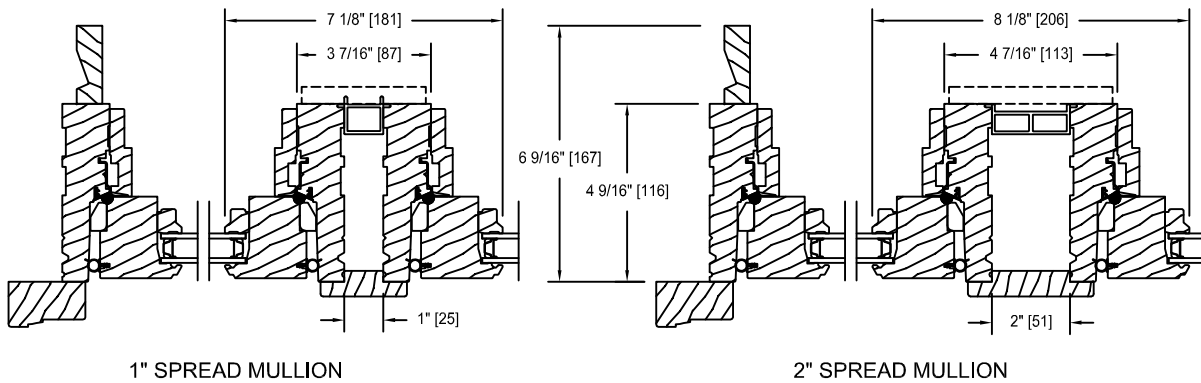
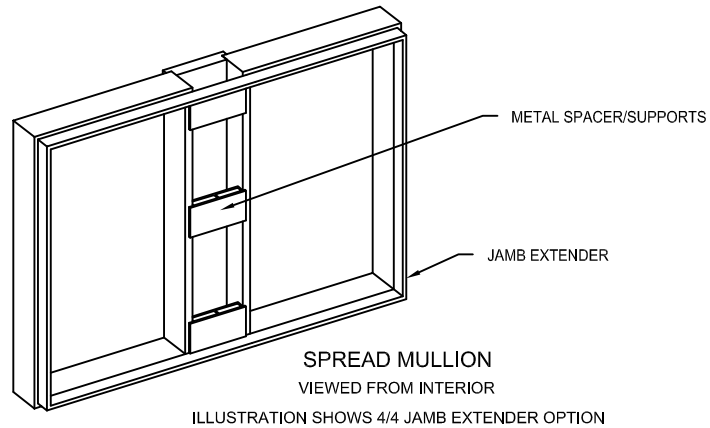
STUCCO TRIM OPTION



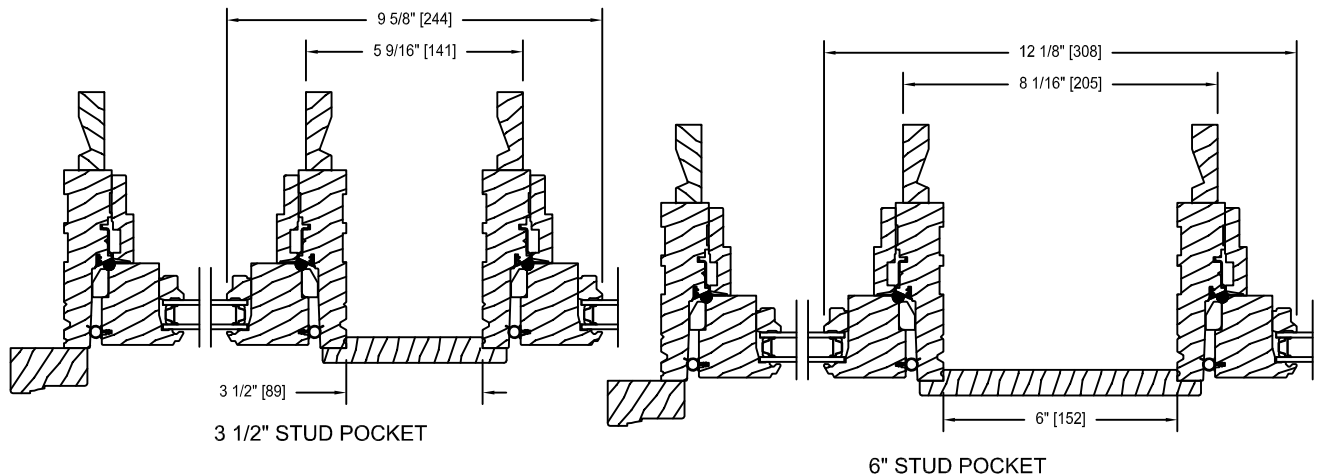
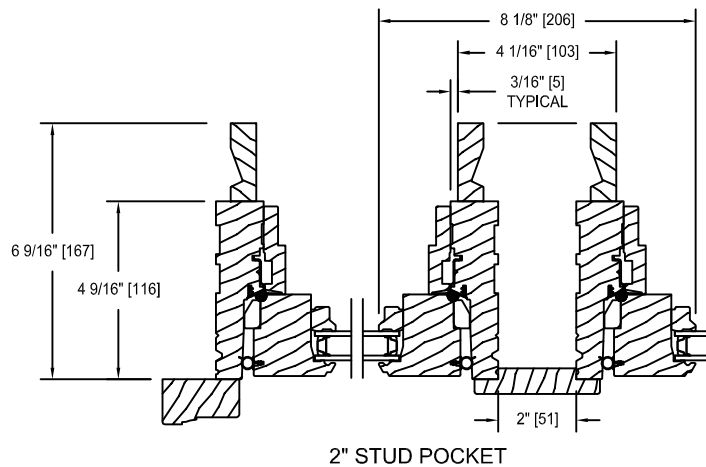
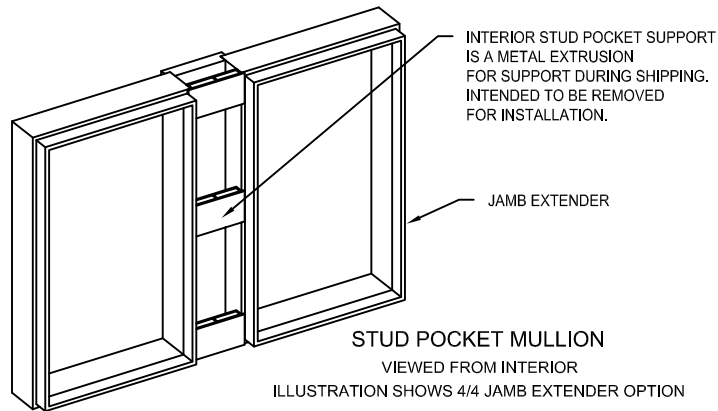




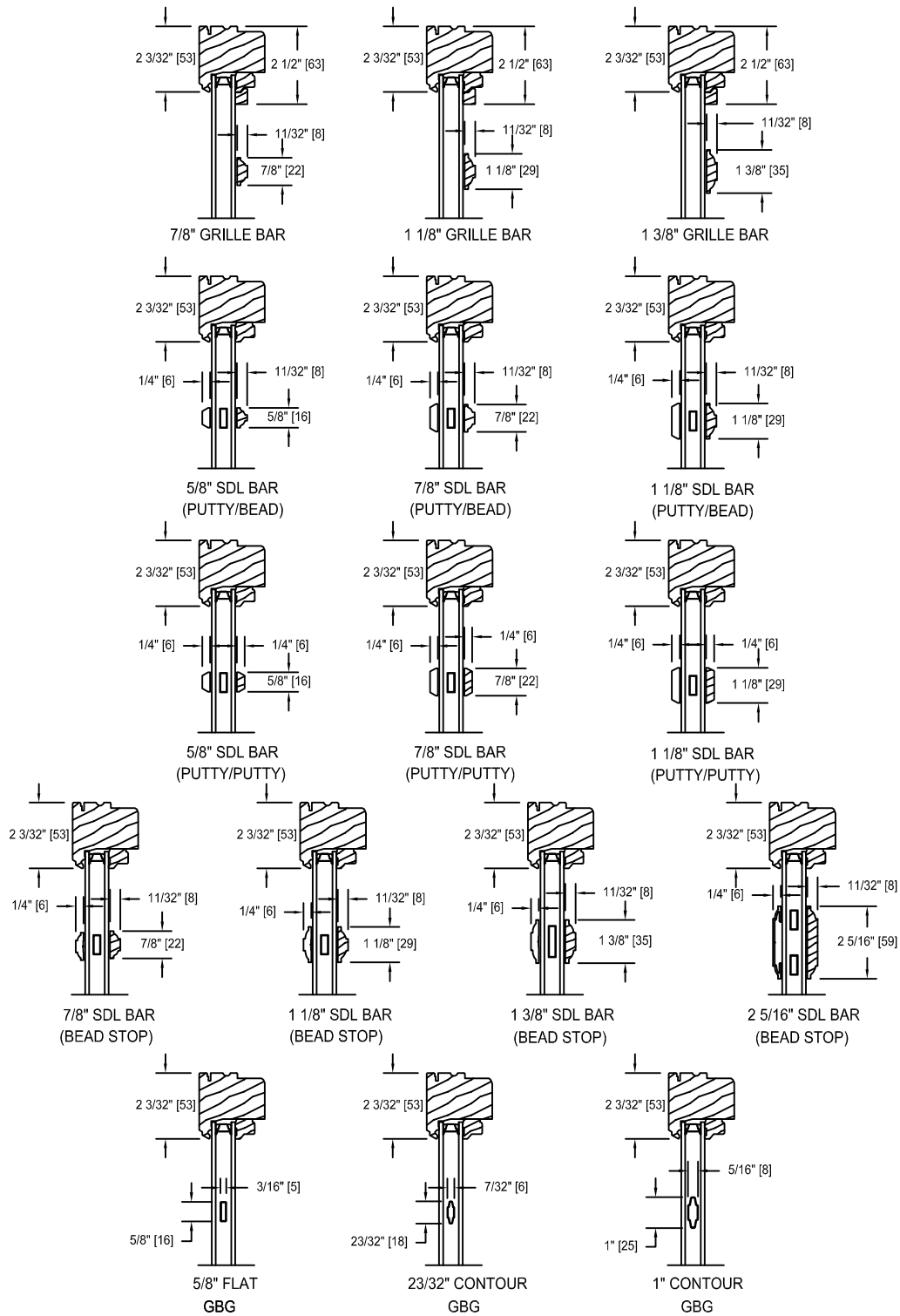
SPECIALTY TRIM & MULLION DETAILS



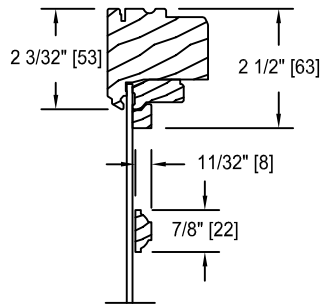
SPECIALTY TRIM & MULLION DETAILS



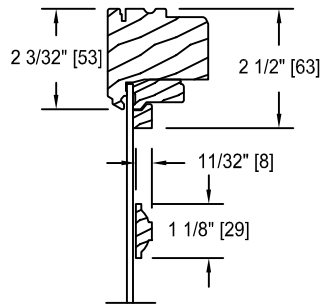
**GLAZING OPTIONS**  
**CASEMENT**  
**INTERIOR GLAZED**  
**INSULATED 3/4" [19] GLASS**



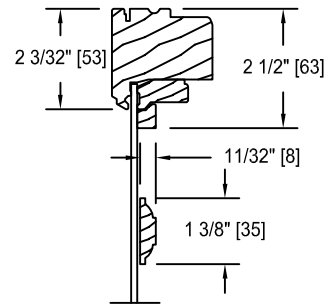
GLAZING OPTIONS  
CASEMENT  
INTERIOR GLAZED  
INSULATED 1/8" [3] GLASS



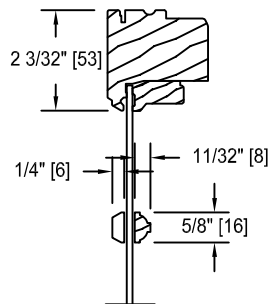
7/8" GRILLE BAR



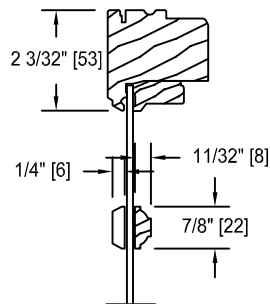
1 1/8" GRILLE BAR



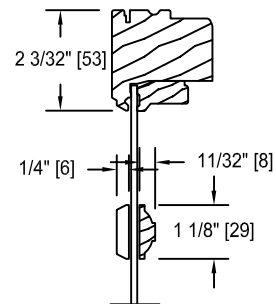
1 3/8" GRILLE BAR



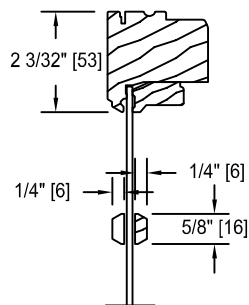
5/8" SDL  
(PUTTY/BEAD)



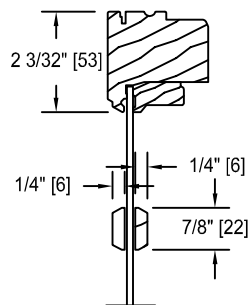
7/8" SDL  
(PUTTY/BEAD)



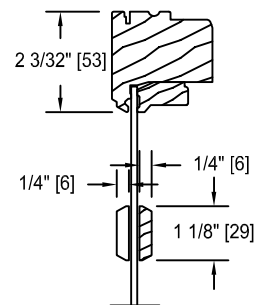
1 1/8" SDL  
(PUTTY/BEAD)



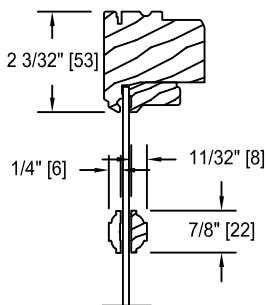
5/8" SDL  
(PUTTY/PUTTY)



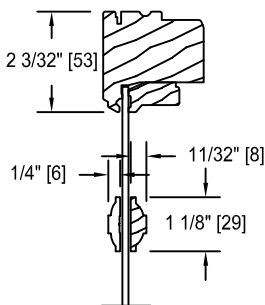
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(PUTTY/PUTTY)



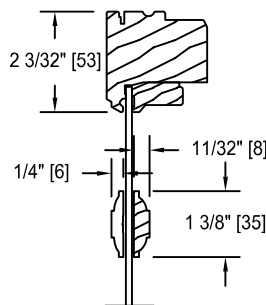
1 1/8" SDL  
(PUTTY/PUTTY)



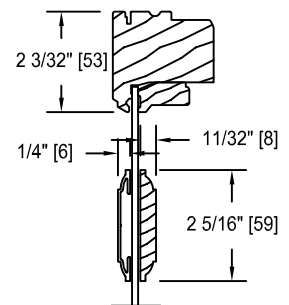
7/8" SDL  
(BEAD STOP)



1 1/8" SDL  
(BEAD STOP)

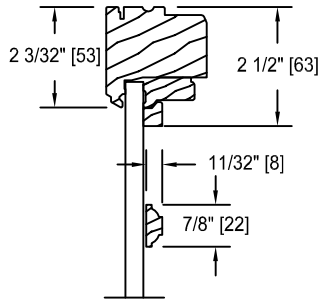


1 3/8" SDL  
(BEAD STOP)

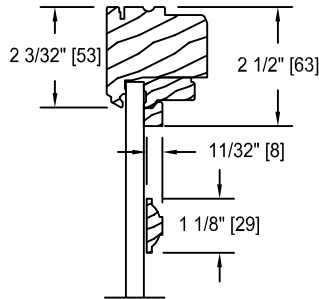


2 5/16" SDL BAR  
(BEAD STOP)

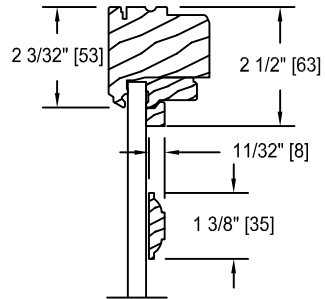
GLAZING OPTIONS  
CASEMENT  
INTERIOR GLAZED  
IMPACT RESISTANT GLASS



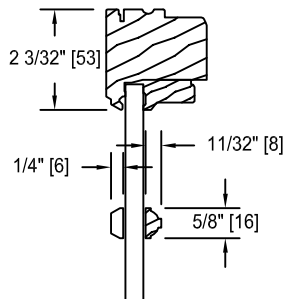
7/8" GRILLE BAR



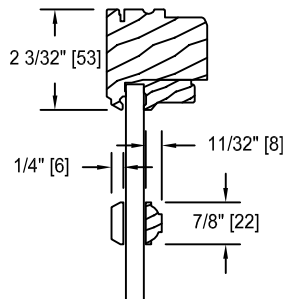
1 1/8" GRILLE BAR



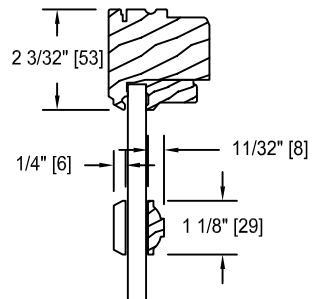
1 3/8" GRILLE BAR



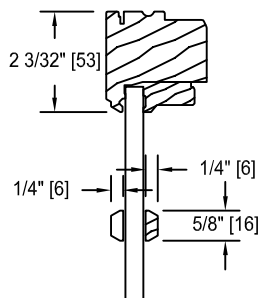
5/8" SDL  
(PUTTY/BEAD)



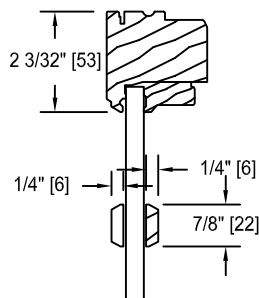
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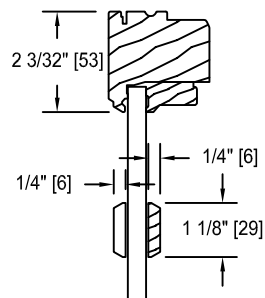
1 1/8" SDL  
(PUTTY/BEAD)



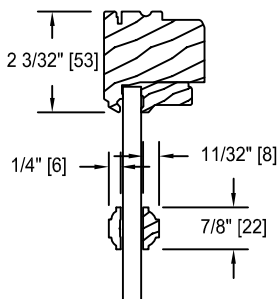
5/8" SDL  
(PUTTY/PUTTY)



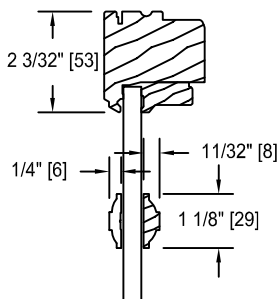
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(PUTTY/PUTTY)



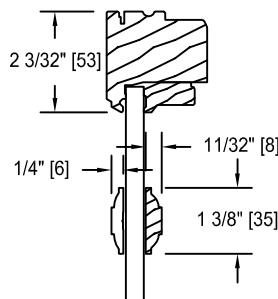
1 1/8" SDL  
(PUTTY/PUTTY)



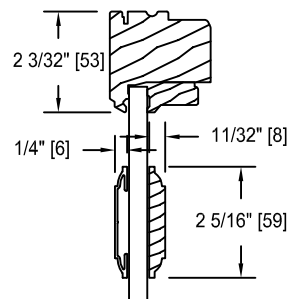
7/8" SDL  
(BEAD STOP)



1 1/8" SDL  
(BEAD STOP)

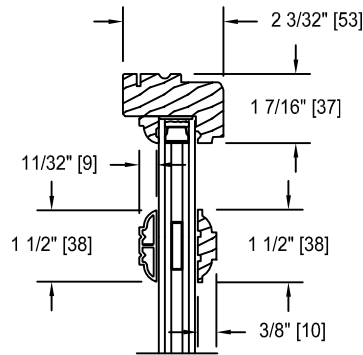


1 3/8" SDL  
(BEAD STOP)

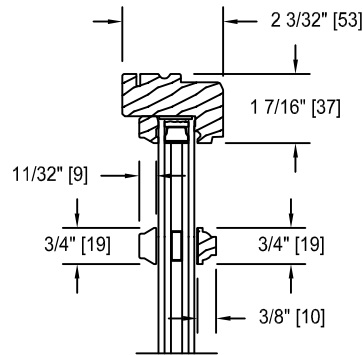


2 5/16" SDL BAR  
(BEAD STOP)

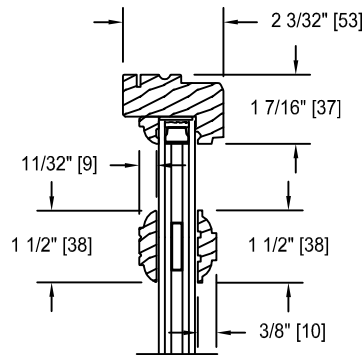
GLAZING OPTIONS  
CASEMENT  
EXTERIOR GLAZED



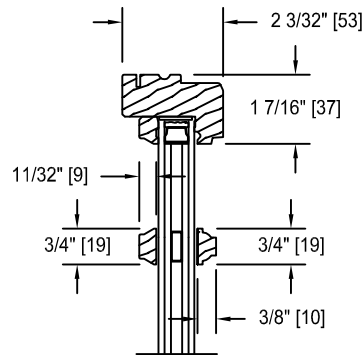
1 1/2" PDL  
CLAD EXTERIOR BAR  
3/4" [19] Glass



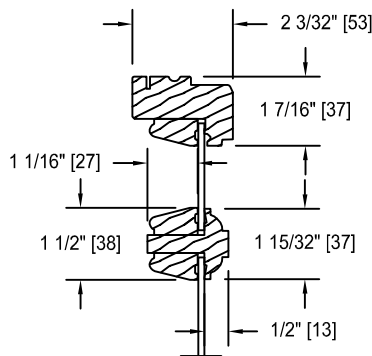
3/4" PDL  
CLAD EXTERIOR BAR  
3/4" [19] Glass



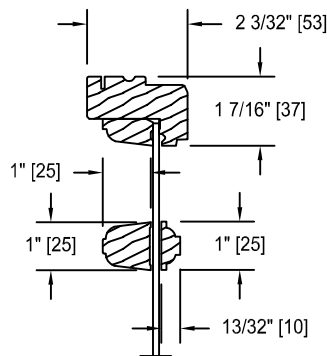
1 1/2" PDL  
WOOD EXTERIOR BAR  
3/4" [19] Glass



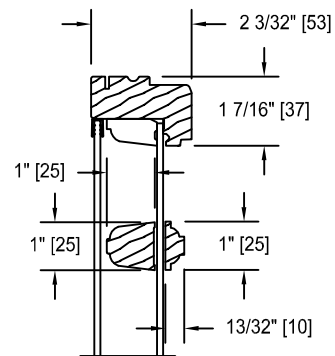
3/4" PDL  
WOOD EXTERIOR BAR  
3/4" [19] Glass



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

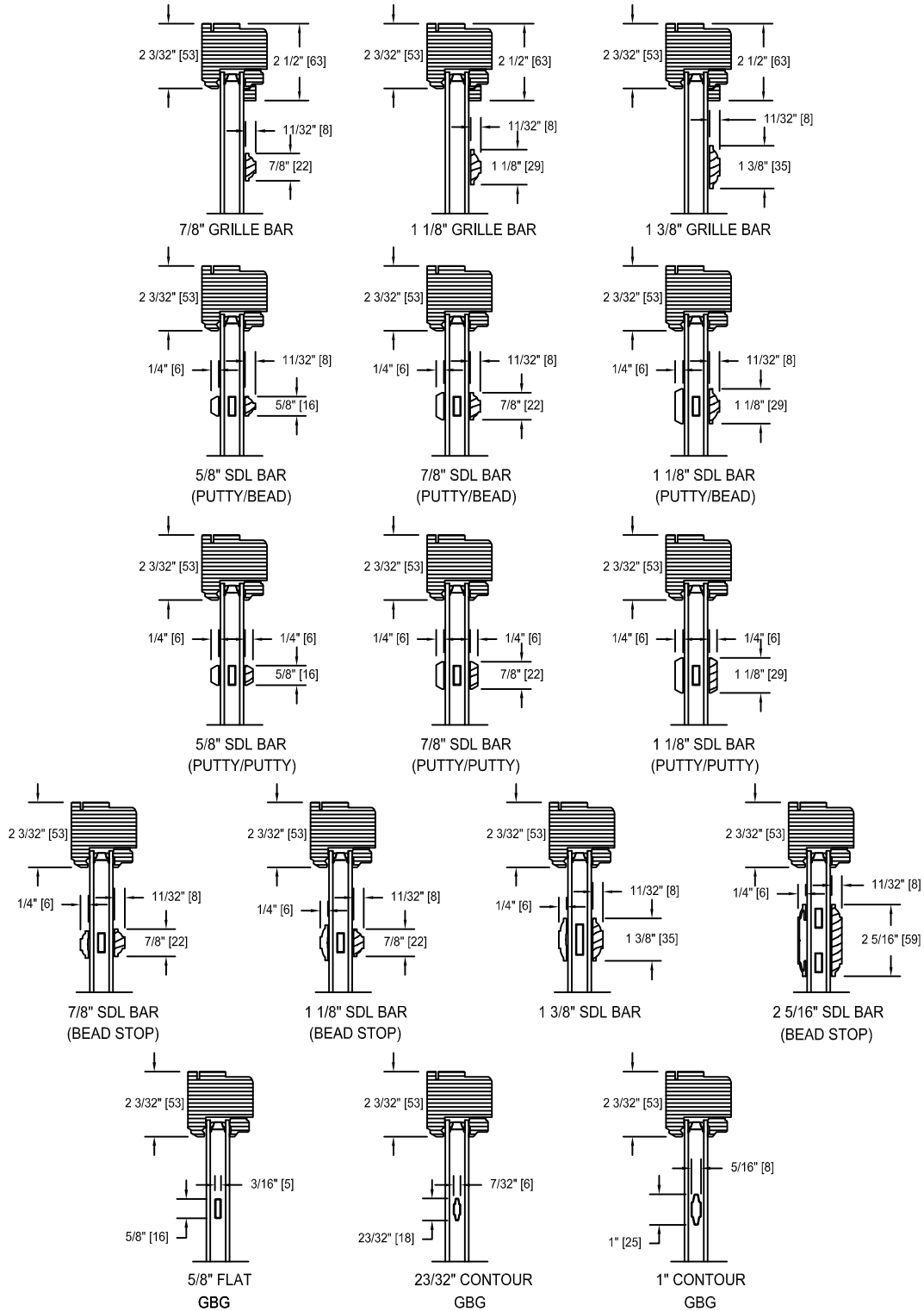


1" PNB  
1/8" [3] Glass



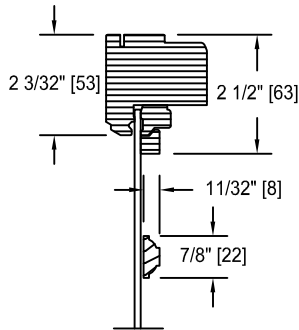
1" PNB  
WITH ENERGY PANEL

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

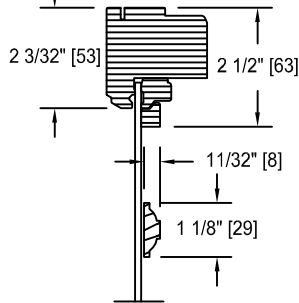




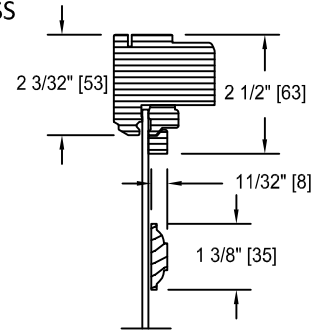
GLAZING OPTIONS  
SECTOR TOP CASEMENT  
INTERIOR GLAZED  
SINGLE GLAZED 1/8" [3] GLASS



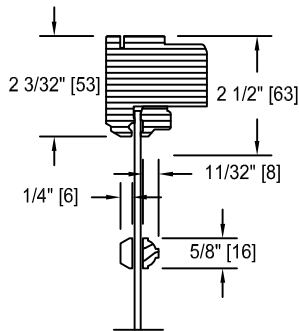
7/8" GRILLE BAR



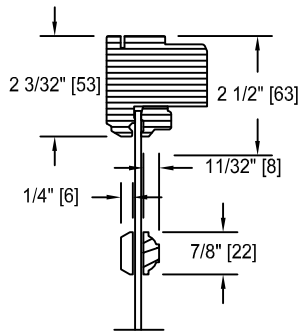
1 1/8" GRILLE BAR



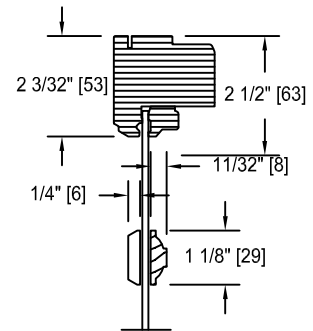
1 3/8" GRILLE BAR



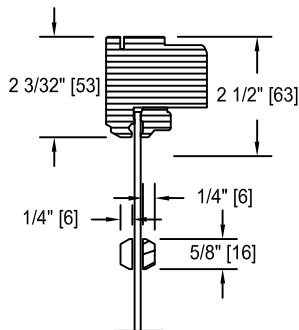
5/8" SDL  
(PUTTY/BEAD)



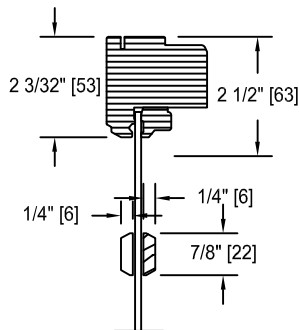
7/8" SDL  
(PUTTY/BEAD)



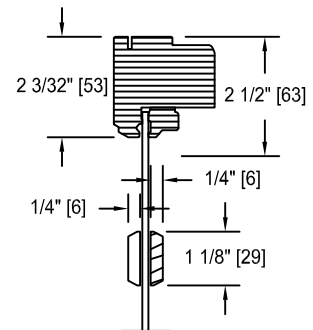
1 1/8" SDL  
(PUTTY/BEAD)



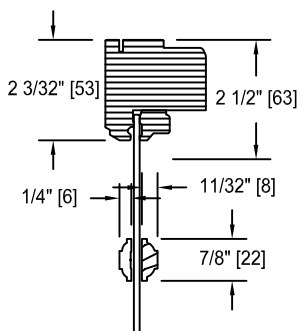
5/8" SDL  
(PUTTY/PUTTY)



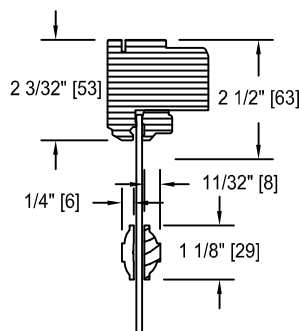
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(PUTTY/PUTTY)



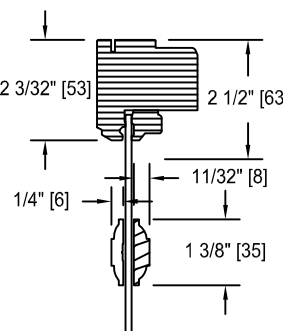
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(PUTTY/PUTTY)



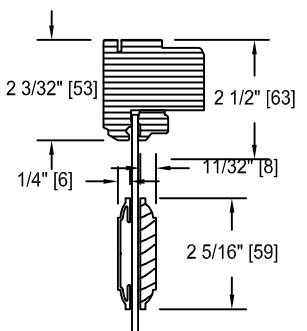
7/8" SDL  
(BEAD STOP)



1 1/8" SDL  
(BEAD STOP)

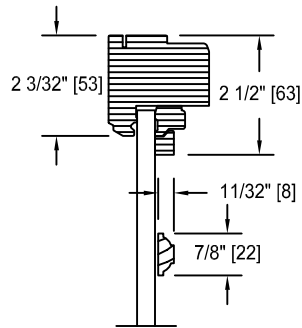


1 3/8" SDL  
(BEAD STOP)

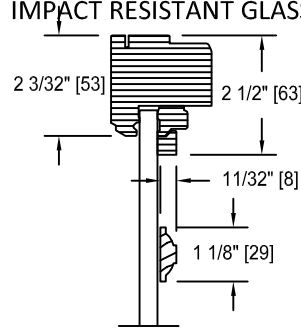


2 5/16" SDL BAR  
(BEAD STOP)

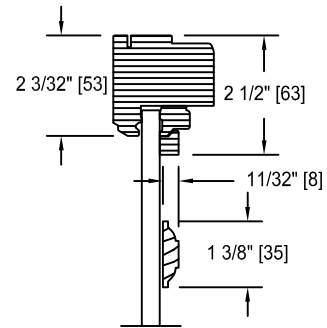
GLAZING OPTIONS  
SECTOR TOP CASEMENT  
INTERIOR GLAZED  
IMPACT RESISTANT GLASS



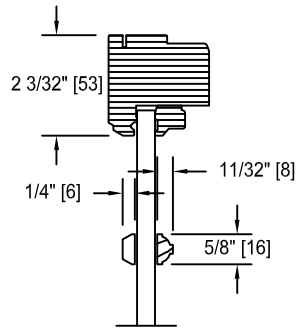
7/8" GRILLE BAR



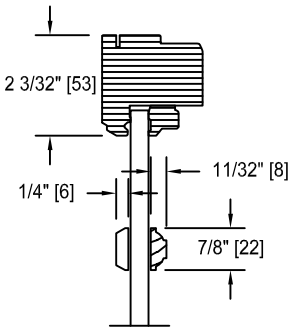
1 1/8" GRILLE BAR



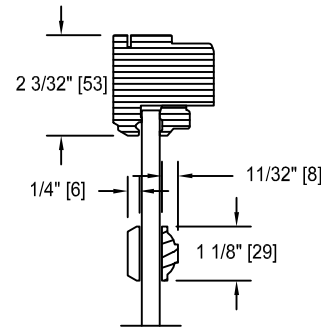
1 3/8" GRILLE BAR



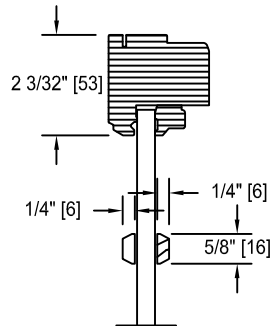
5/8" SDL  
(PUTTY/BEAD)



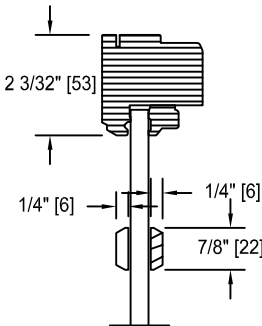
7/8" SDL  
(PUTTY/BEAD)



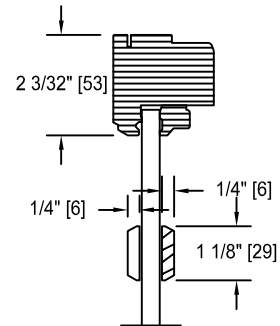
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(PUTTY/BEAD)



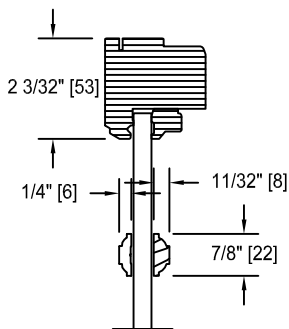
5/8" SDL  
(PUTTY/PUTTY)



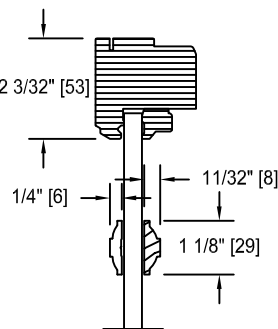
7/8" SDL  
(PUTTY/PUTTY)



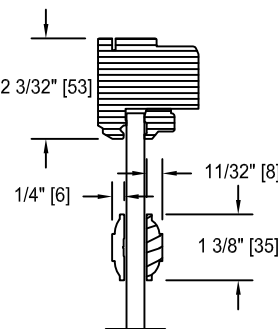
1 1/8" SDL  
(PUTTY/PUTTY)



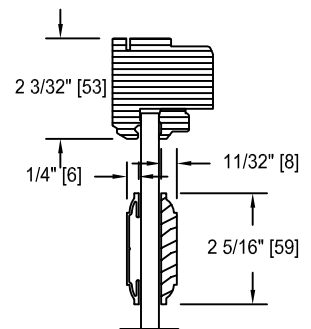
7/8" SDL  
(BEAD STOP)



1 1/8" SDL  
(BEAD STOP)

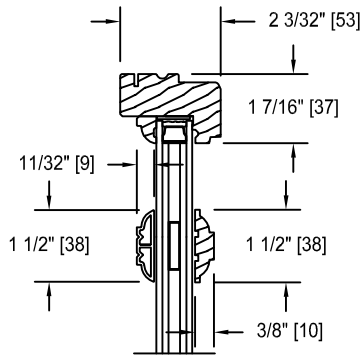


1 3/8" SDL  
(BEAD STOP)

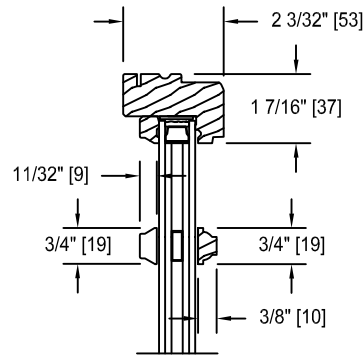


2 5/16" SDL BAR  
(BEAD STOP)

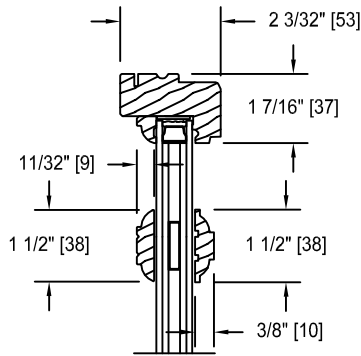
**GLAZING OPTIONS**  
**SECTOR TOP CASEMENT**  
**EXTERIOR GLAZED**



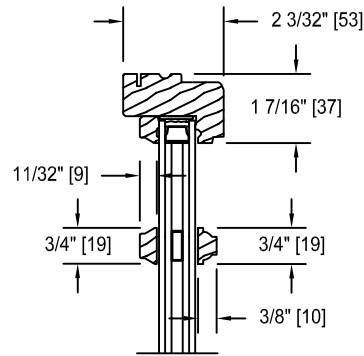
**1 1/2" PDL**  
**CLAD EXTERIOR BAR**  
**3/4" [19] Glass**



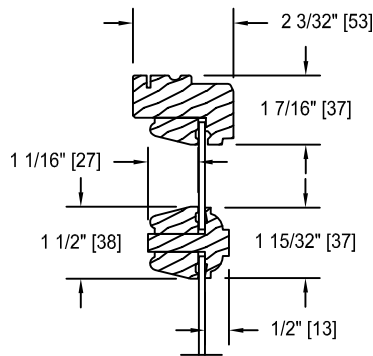
**3/4" PDL**  
**CLAD EXTERIOR BAR**  
**3/4" [19] Glass**



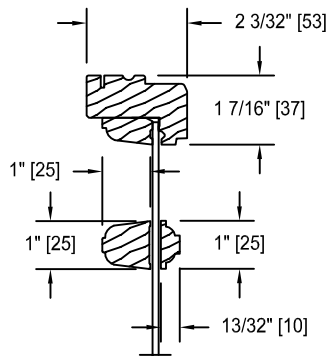
**1 1/2" PDL**  
**WOOD EXTERIOR BAR**  
**3/4" [19] Glass**



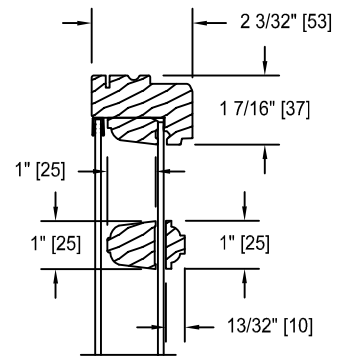
**3/4" PDL**  
**WOOD EXTERIOR BAR**  
**3/4" [19] Glass**



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



**1" PNB**  
**1/8" [3] Glass**

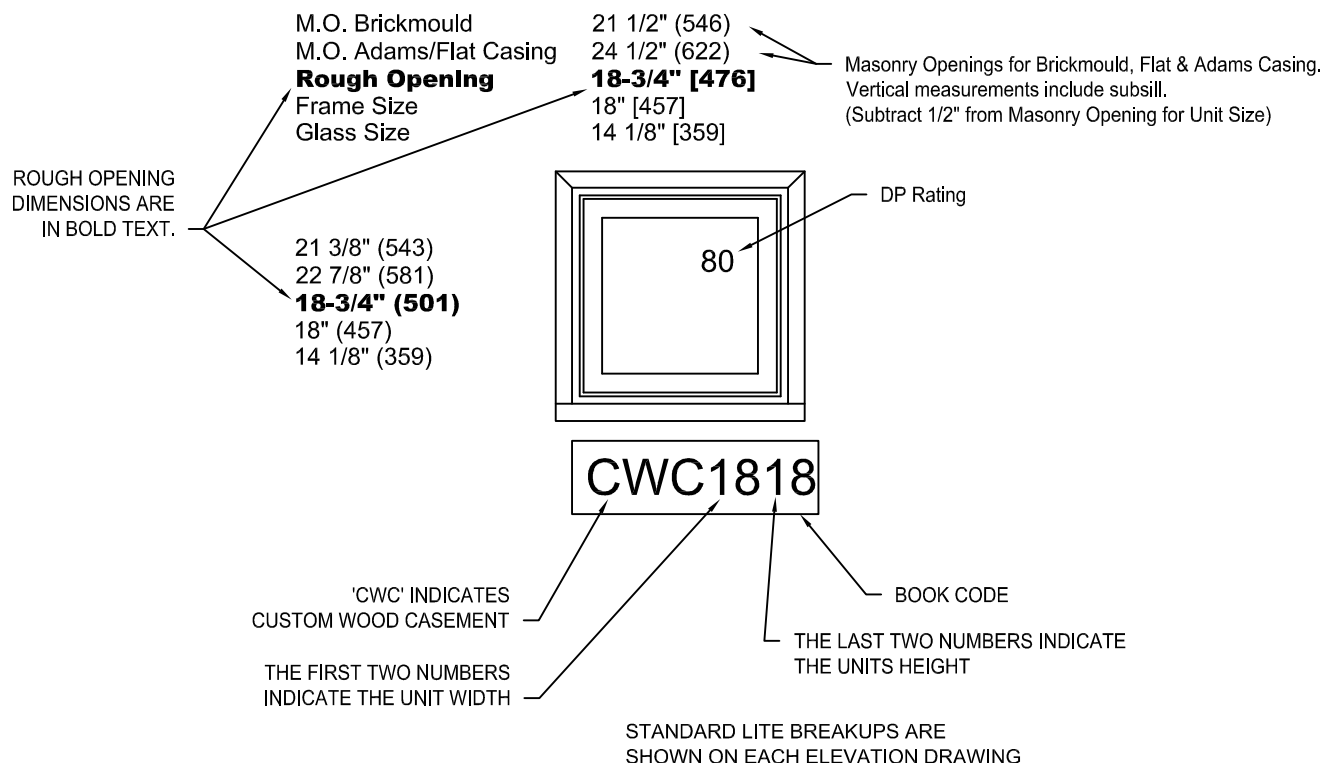


**1" PNB**  
**WITH ENERGY PANEL**

#### 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.

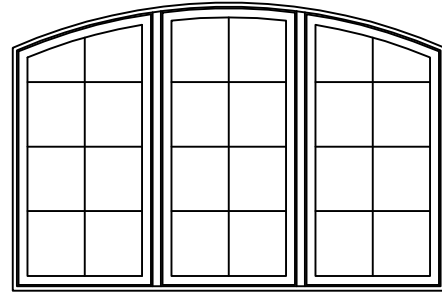
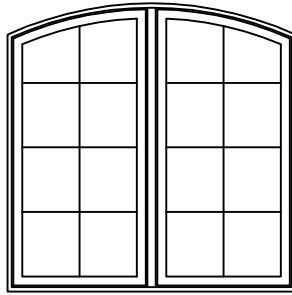
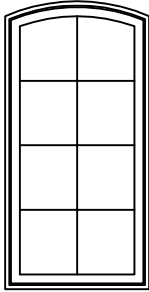
#### ELEVATION SYMBOL LEGEND:

- 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.

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GENERAL INFORMATION  
SECTOR TOP CASEMENTS

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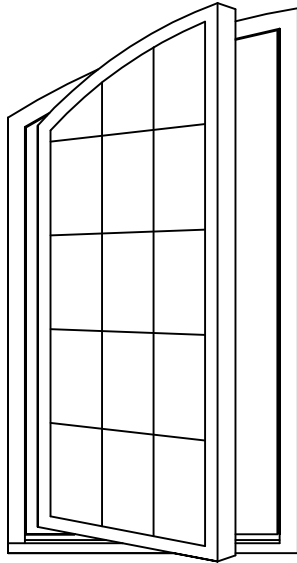
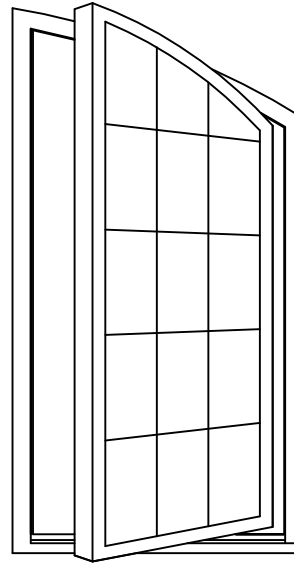
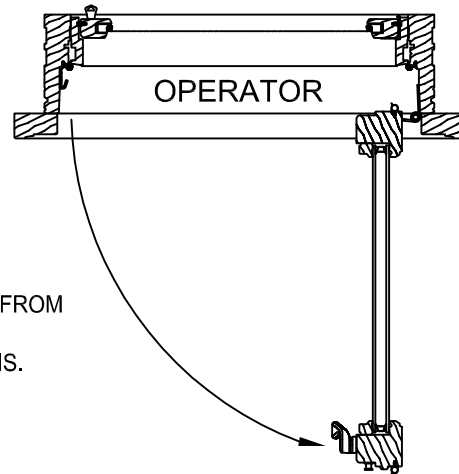
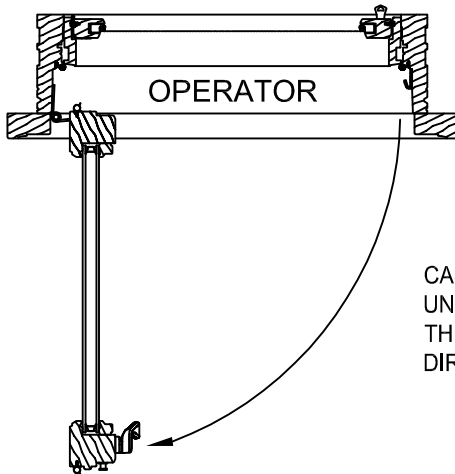


Sector wood casements are constructed the same as Custom wood casements.

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 CASEMENTSLEFT  
HANDRIGHT  
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'.

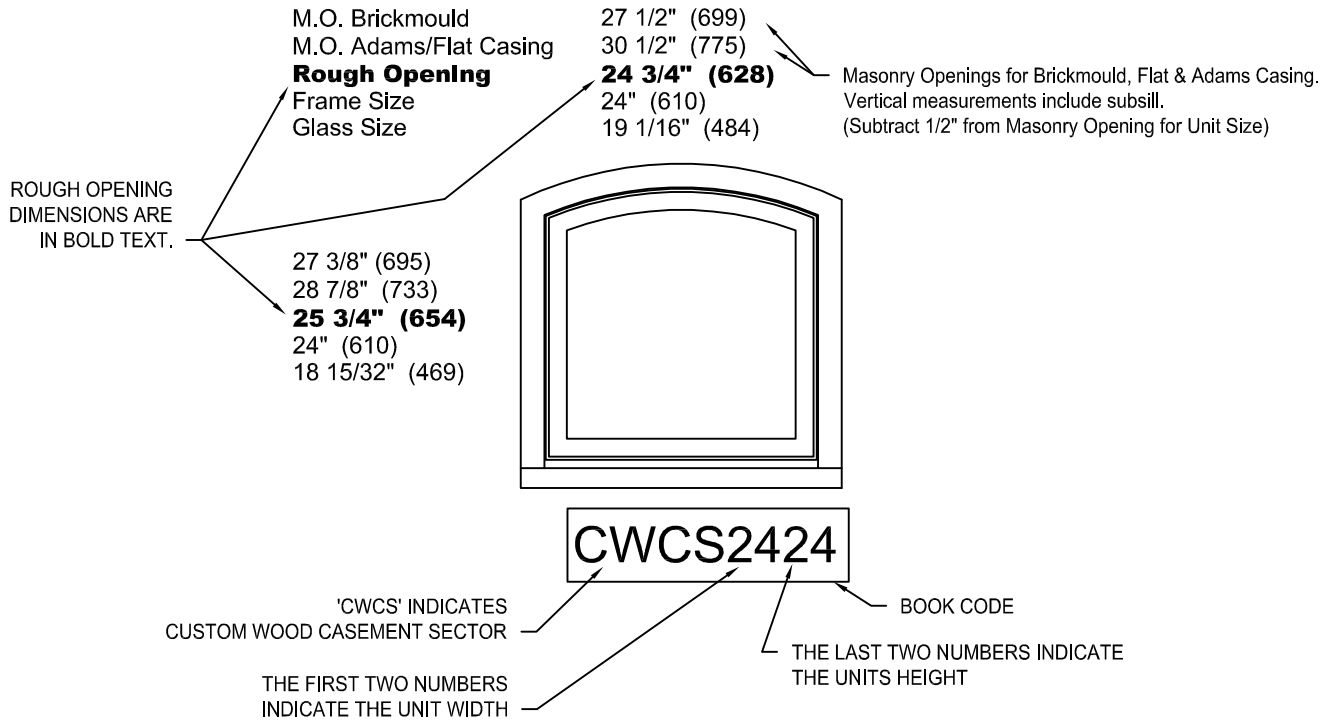
**OPERATING TWIN SECTOR UNITS** - THESE UNITS ARE HINGED ON THE SPRINGLINE SIDE. THE 'LEFT' SASH HAS 'LEFT' HAND OPERATION AND THE 'RIGHT' SASH HAS 'RIGHT' HAND OPERATION ONLY.

**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.

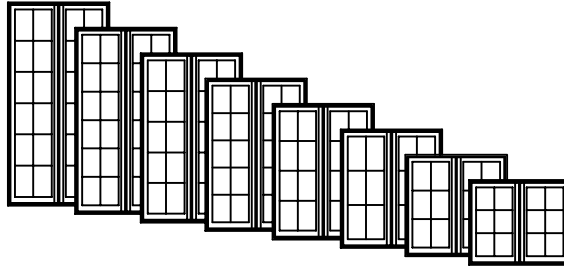


GENERAL RADIUS CASEMENT NOTES

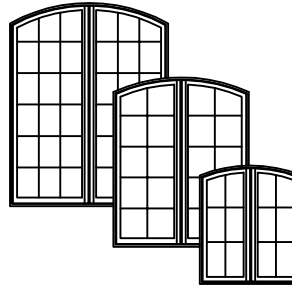
1. UNIT ELEVATIONS ARE SHOWN WITH BRICKMOULD AND SUBSILL.
2. DIMENSIONAL VALUES IN BRACKETS ARE MILLIMETER CONVERSIONS.
3. ALL SECTOR UNITS ARE AVAILABLE AS OPERATING UNITS.
4. WOOD BOOK CODED SECTOR TOPS USE THE SAME SASH AS THE ROLL FORM CLAD SASH, JUST WITHOUT THE ROLL FORM CLADDING.

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.

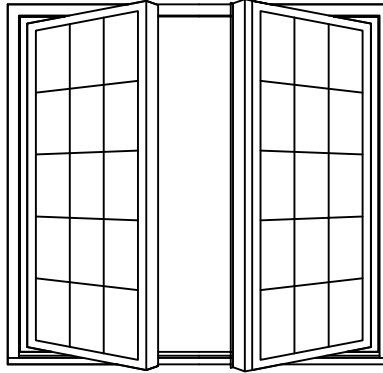
Note: Wood Book Coded Sector Tops use the same sash as the roll form clad sash, just without the roll form cladding.



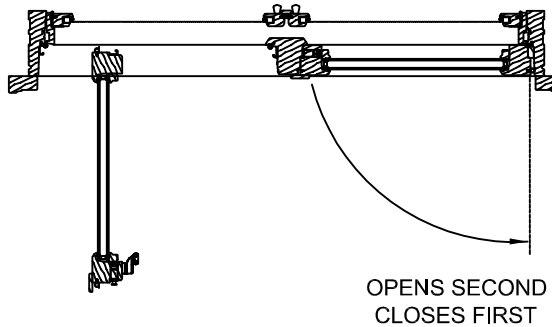
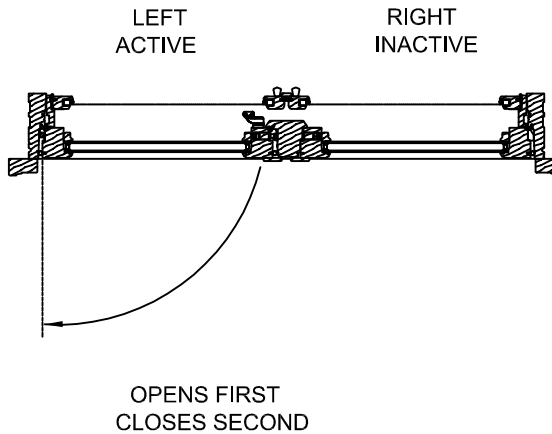
HANDING, OPERATION & LIMIT DEVICE  
FRENCH CASEMENTS

ILLUSTRATIONS ARE NOT DRAWN TO SCALE

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

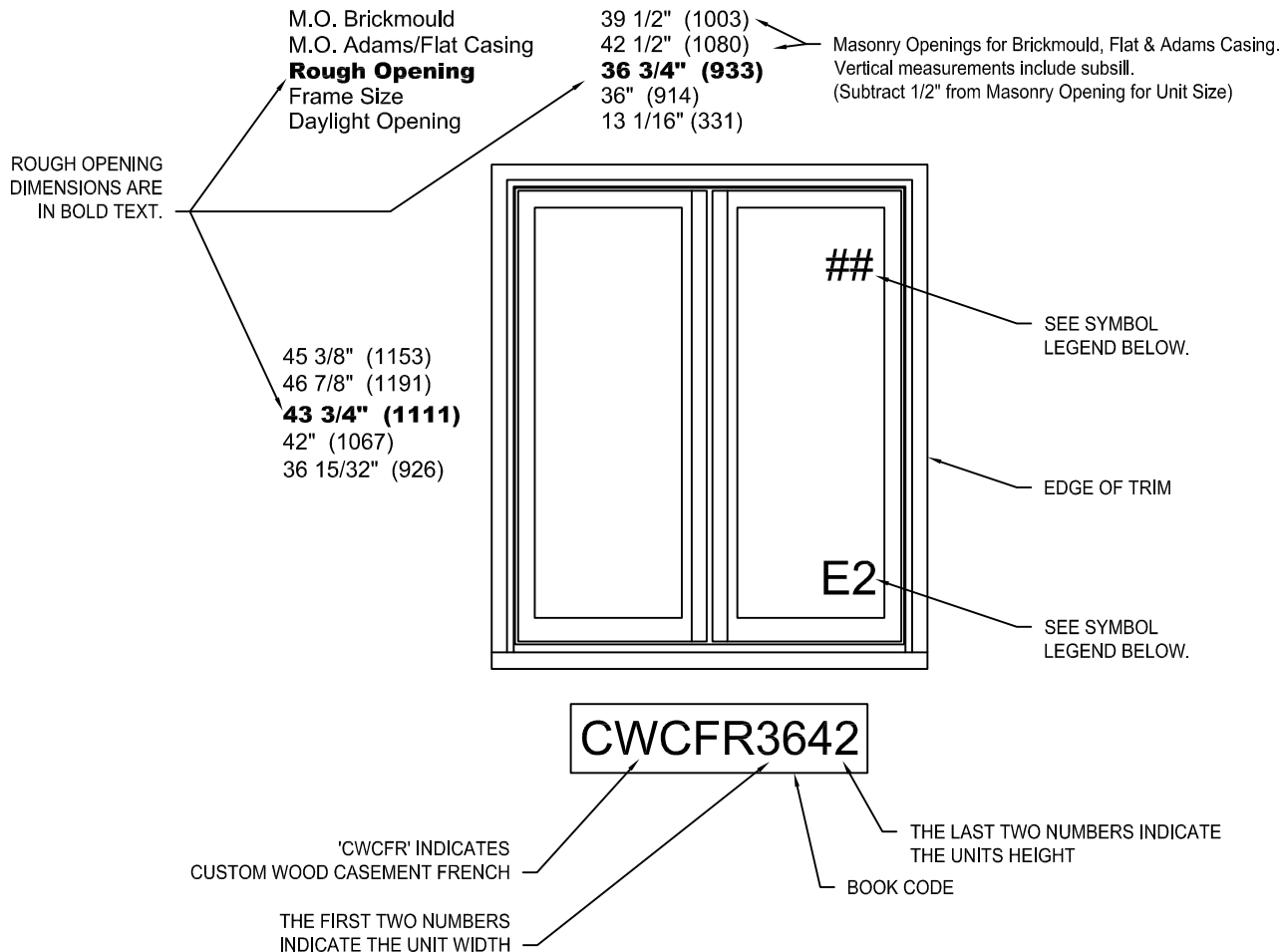


**FRENCH CASEMENT OPERATION:**  
FRENCH CASEMENT WINDOWS ARE  
OPERATED WITH THE LEFT SASH  
OPENED FIRST THEN THE RIGHT  
SASH OPENED SECOND. TO CLOSE  
THE WINDOW THE RIGHT SASH IS  
CLOSED FIRST WITH THE LEFT SASH  
CLOSING SECOND. THIS OPERATION  
IS VIEWED FROM THE EXTERIOR.  
**WOOD BOOK CODED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



### 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.



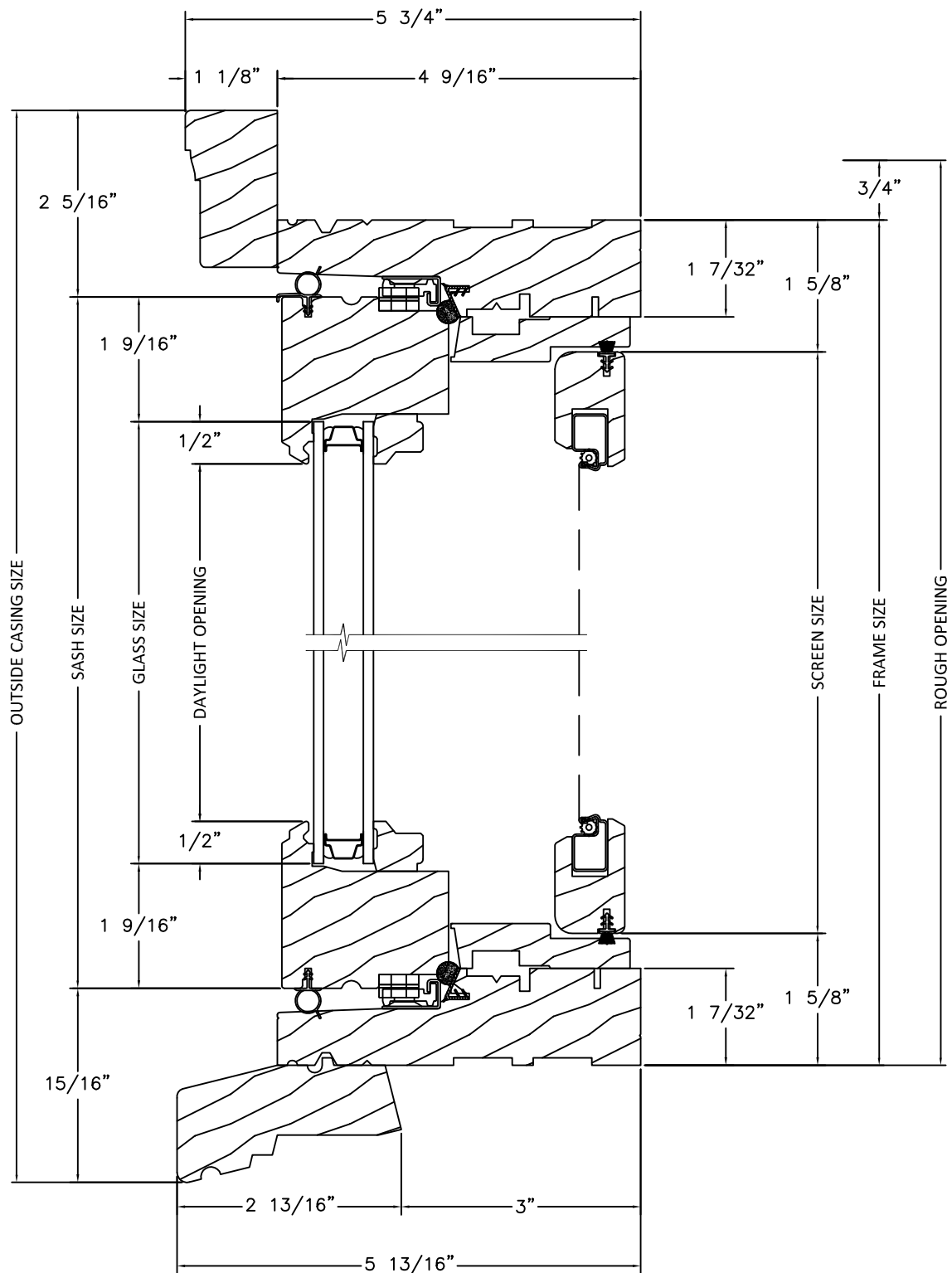
#### GENERAL CASEMENT NOTES

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.

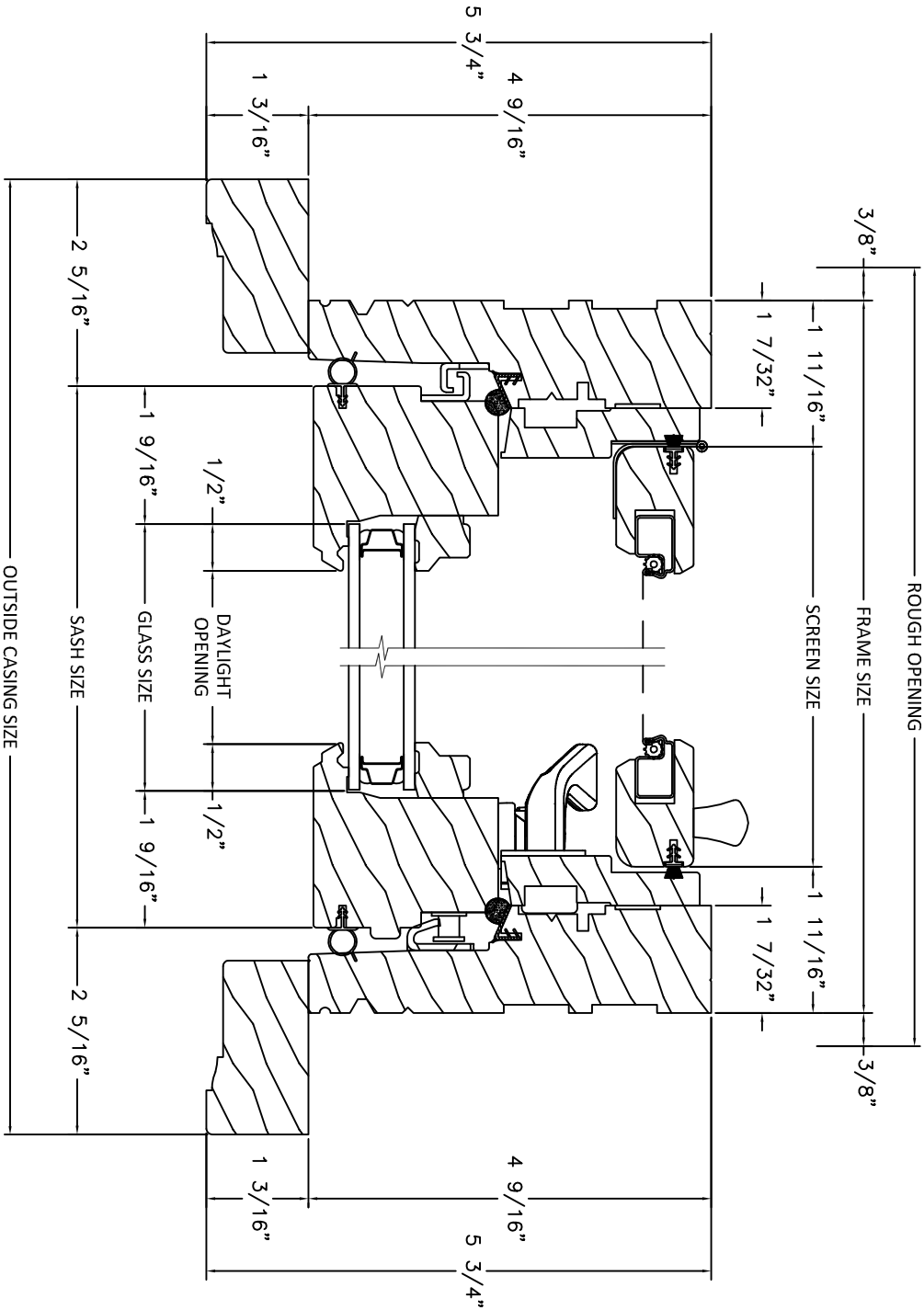
#### ELEVATION SYMBOL LEGEND:

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- S** STATIONARY UNIT
- ##** NUMBER INDICATES DESIGN PRESSURE (DP) RATING WITH STANDARD GLAZING. OPERATING UNITS UTILIZE THE R65 LOCKING SYSTEM FOR DP RATINGS.

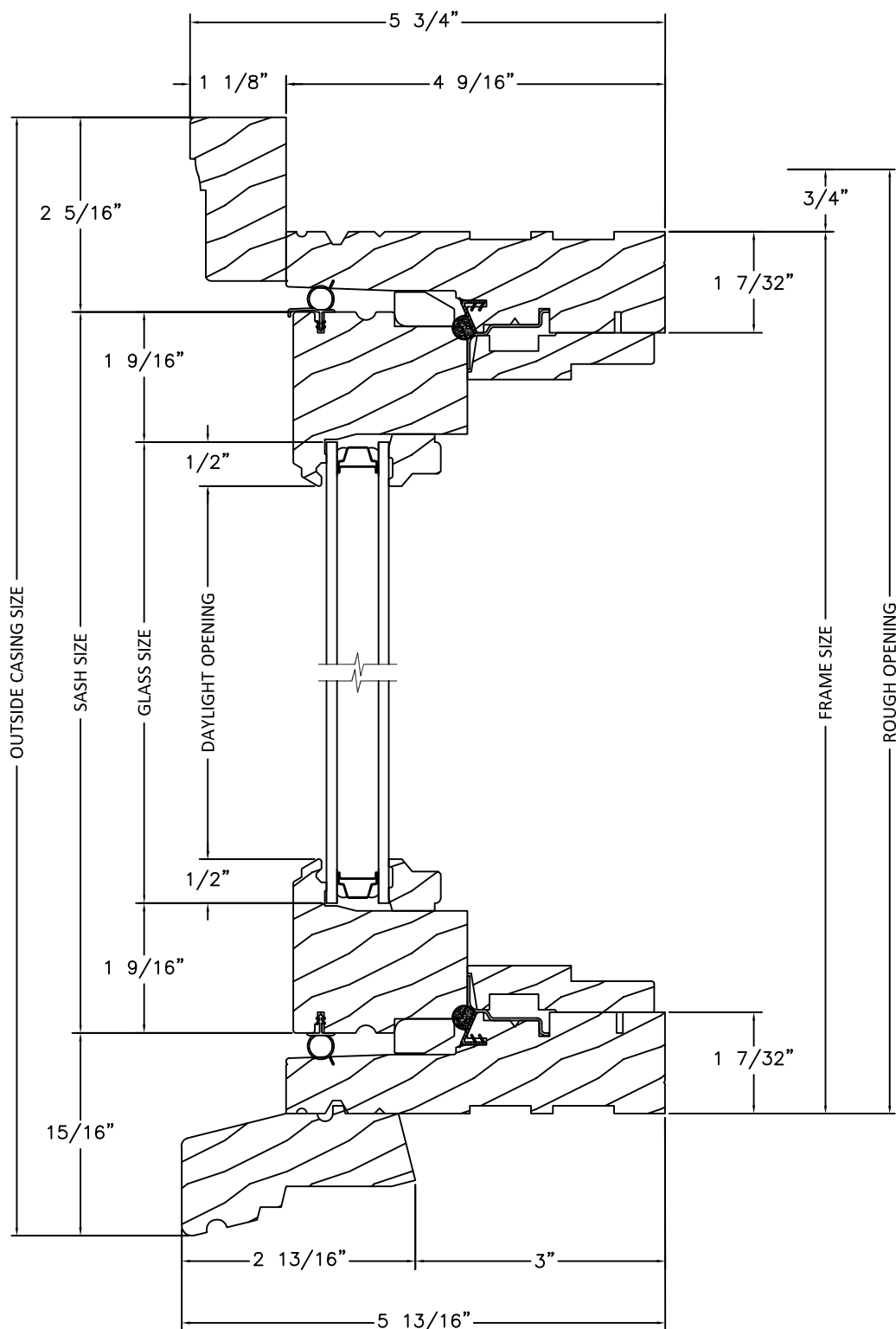
VERTICAL SECTION  
OPERATING UNIT



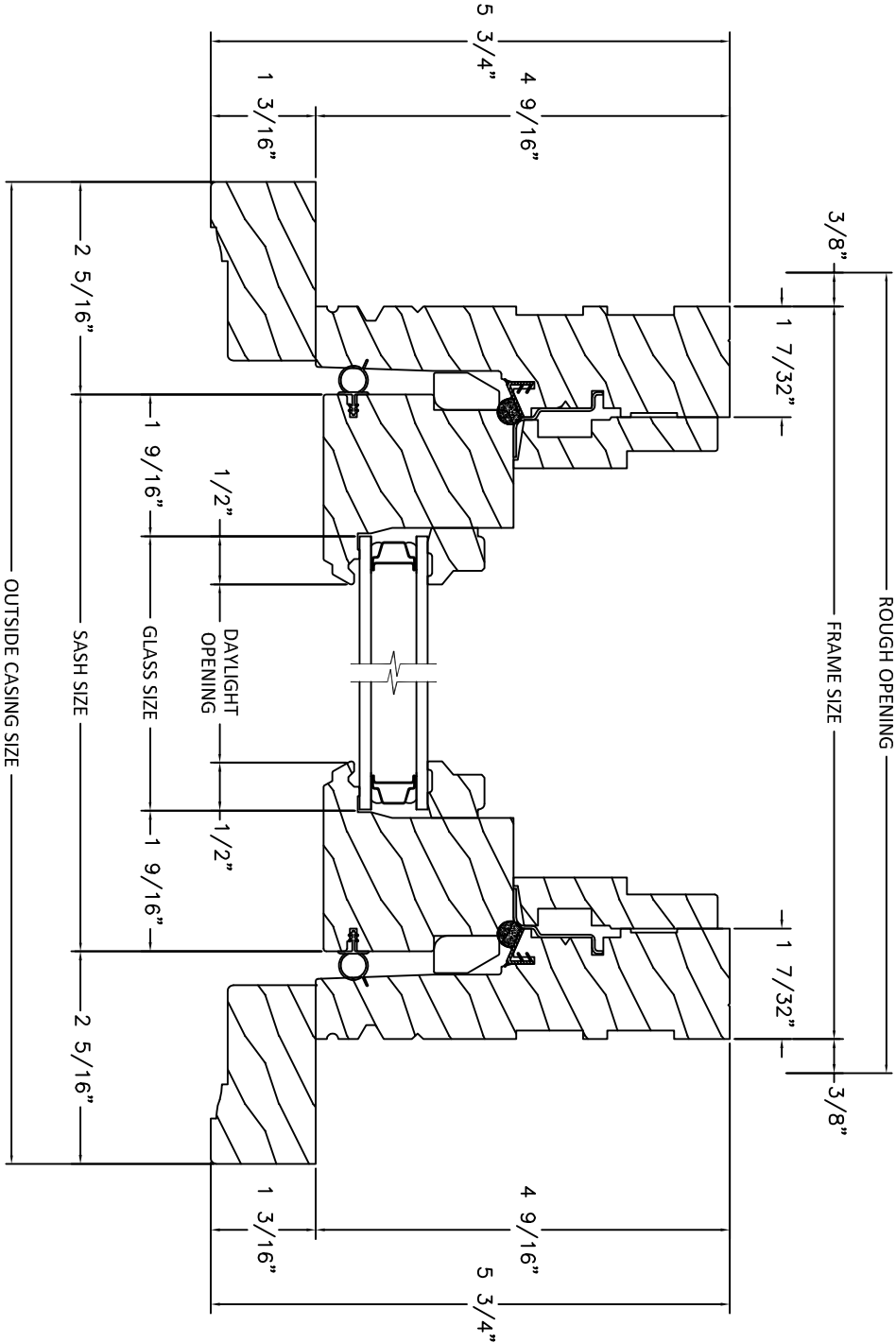
**HORIZONTAL SECTION**  
**OPERATING UNIT**



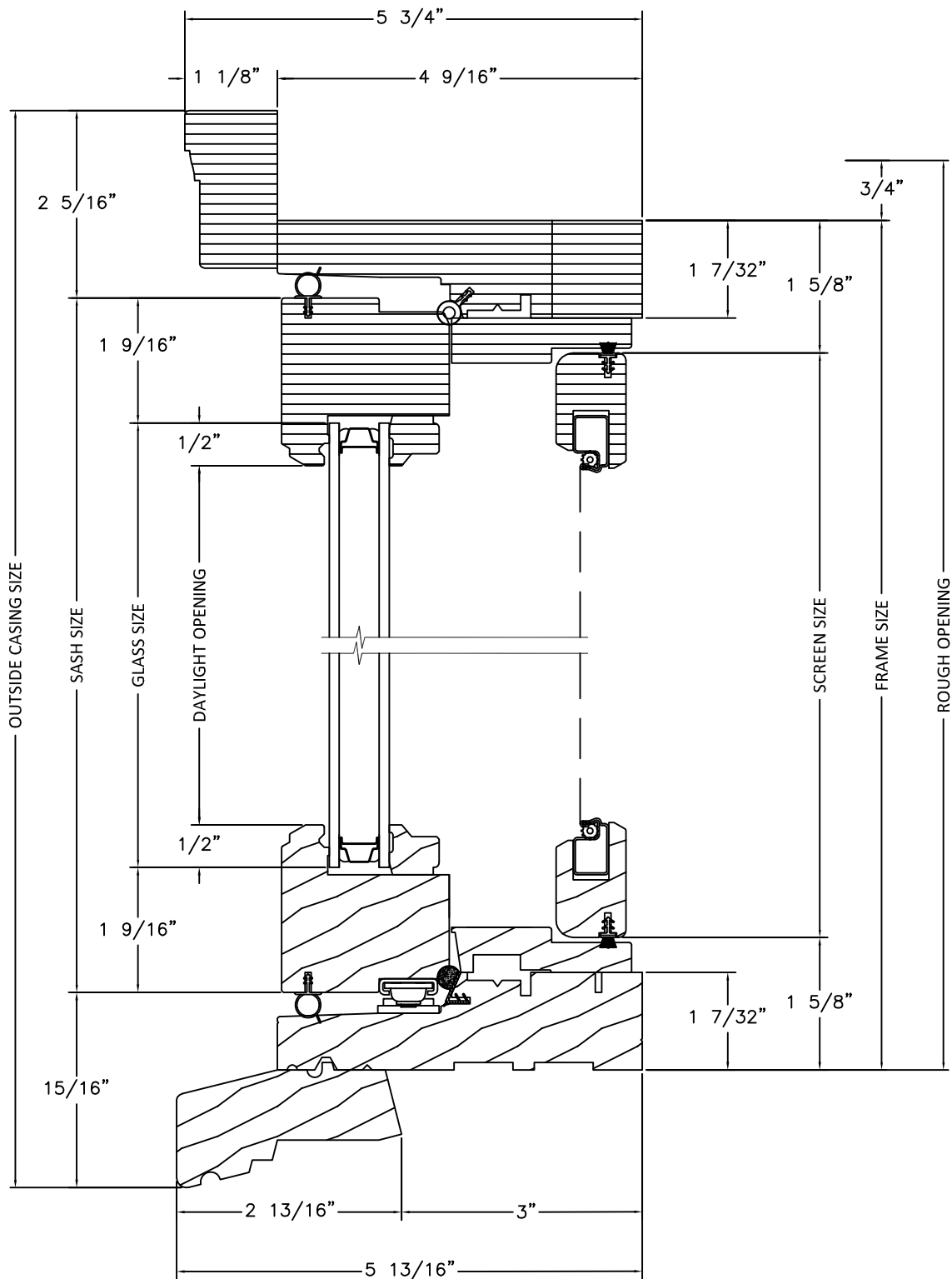
VERTICAL SECTION  
PICTURE UNIT



**HORIZONTAL SECTION**  
PICTURE UNIT



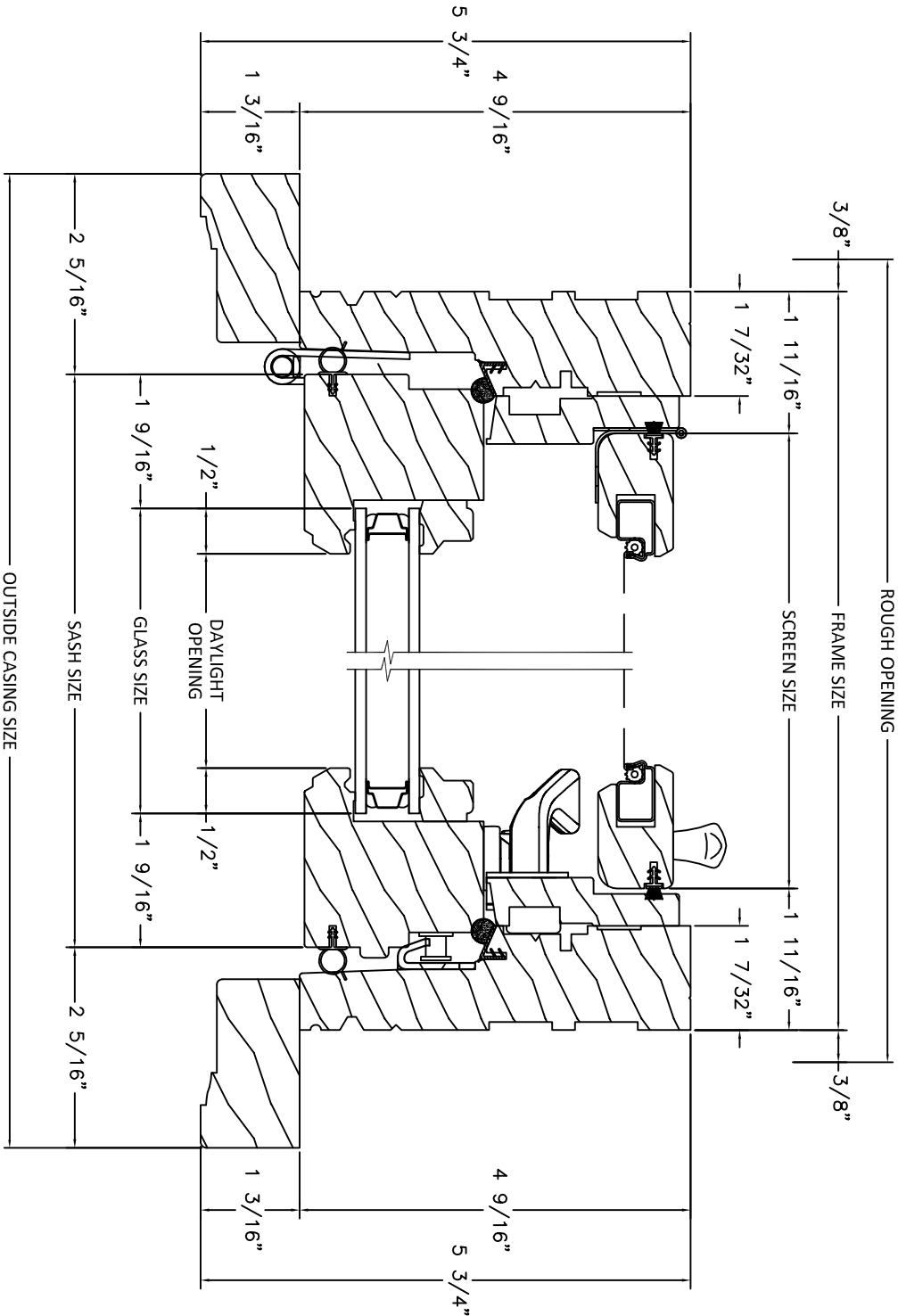
VERTICAL SECTION  
RADIUS OPERATING UNIT



NOTE: OPTIONAL STAY BAR

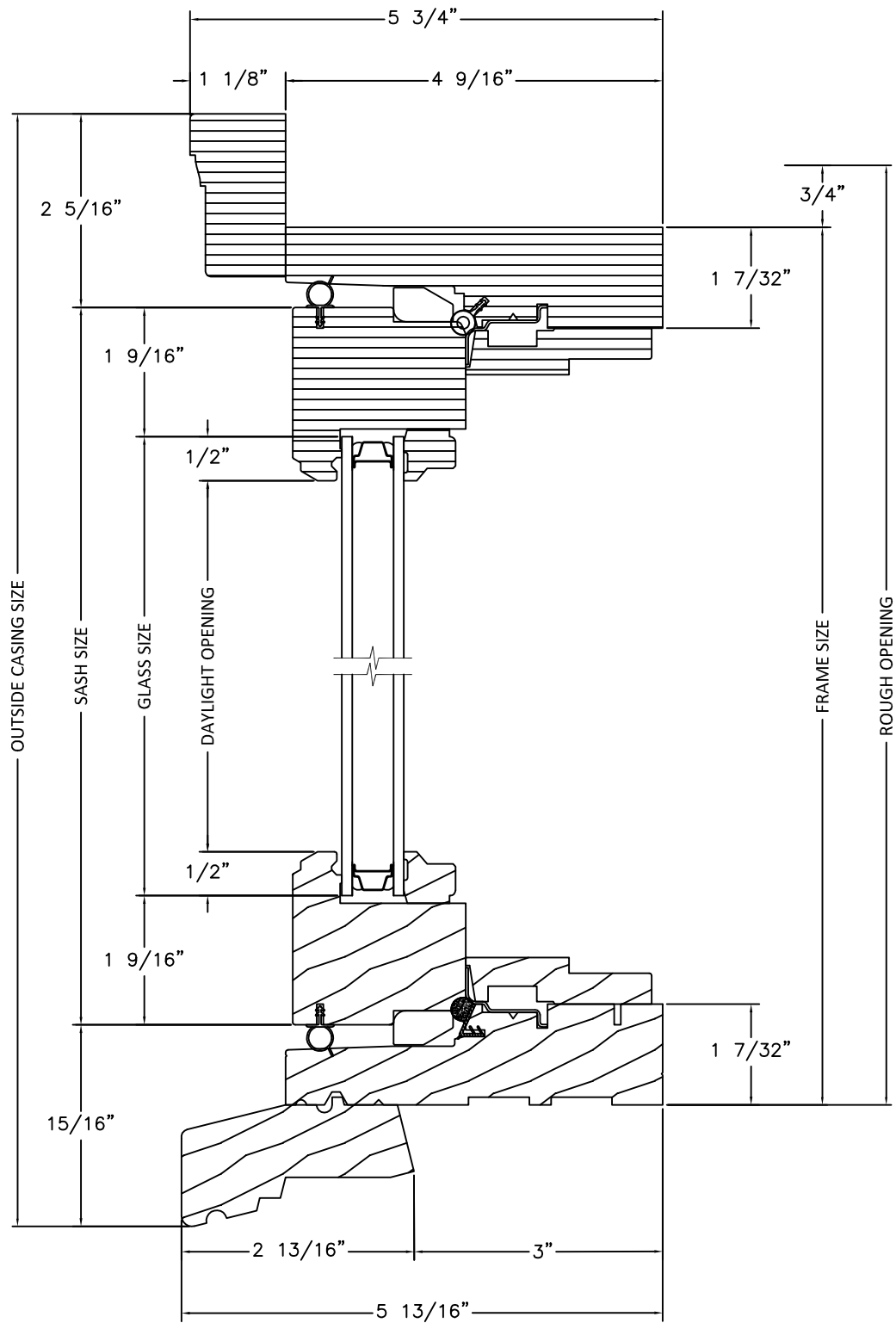
**CUSTOM WOOD WINDOWS**  
CUSTOM PUSHOUT CASEMENT

**HORIZONTAL SECTION**  
RADIUS OPERATING UNIT



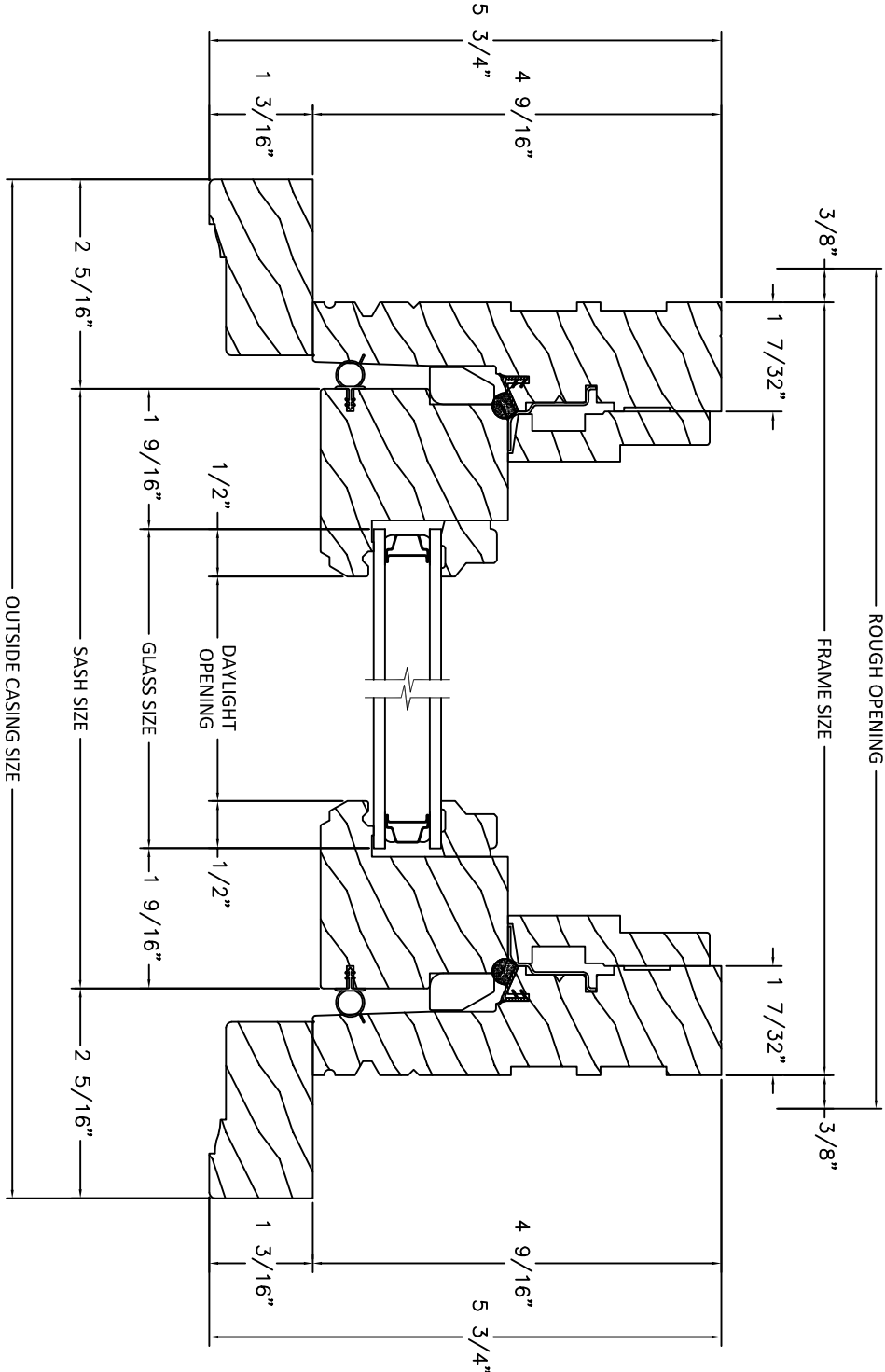


VERTICAL SECTION  
RADIUS STATIONARY UNITS

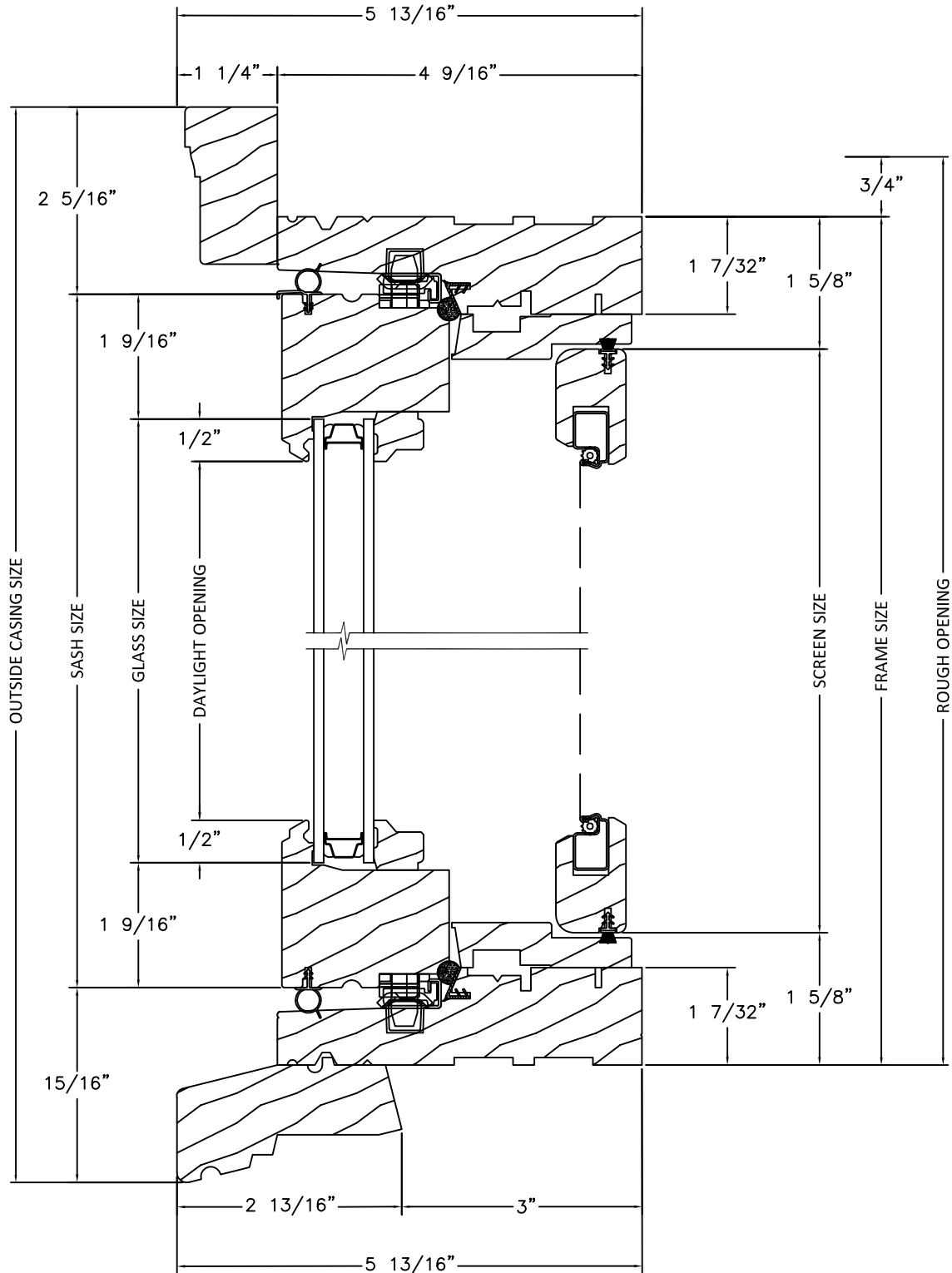


**CUSTOM WOOD WINDOWS**  
CUSTOM PUSHOUT CASEMENT

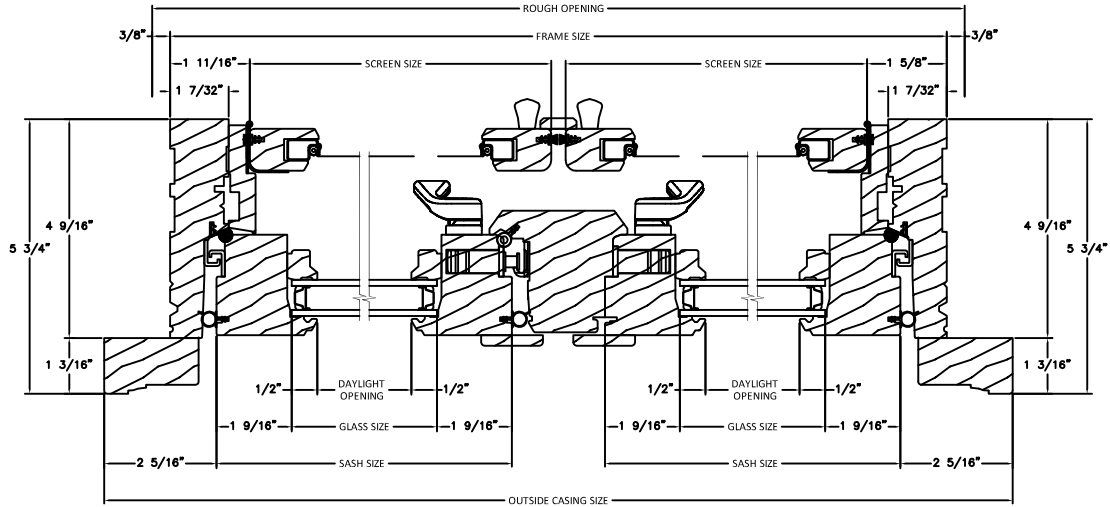
**HORIZONTAL SECTION**  
RADIUS STATIONARY UNIT



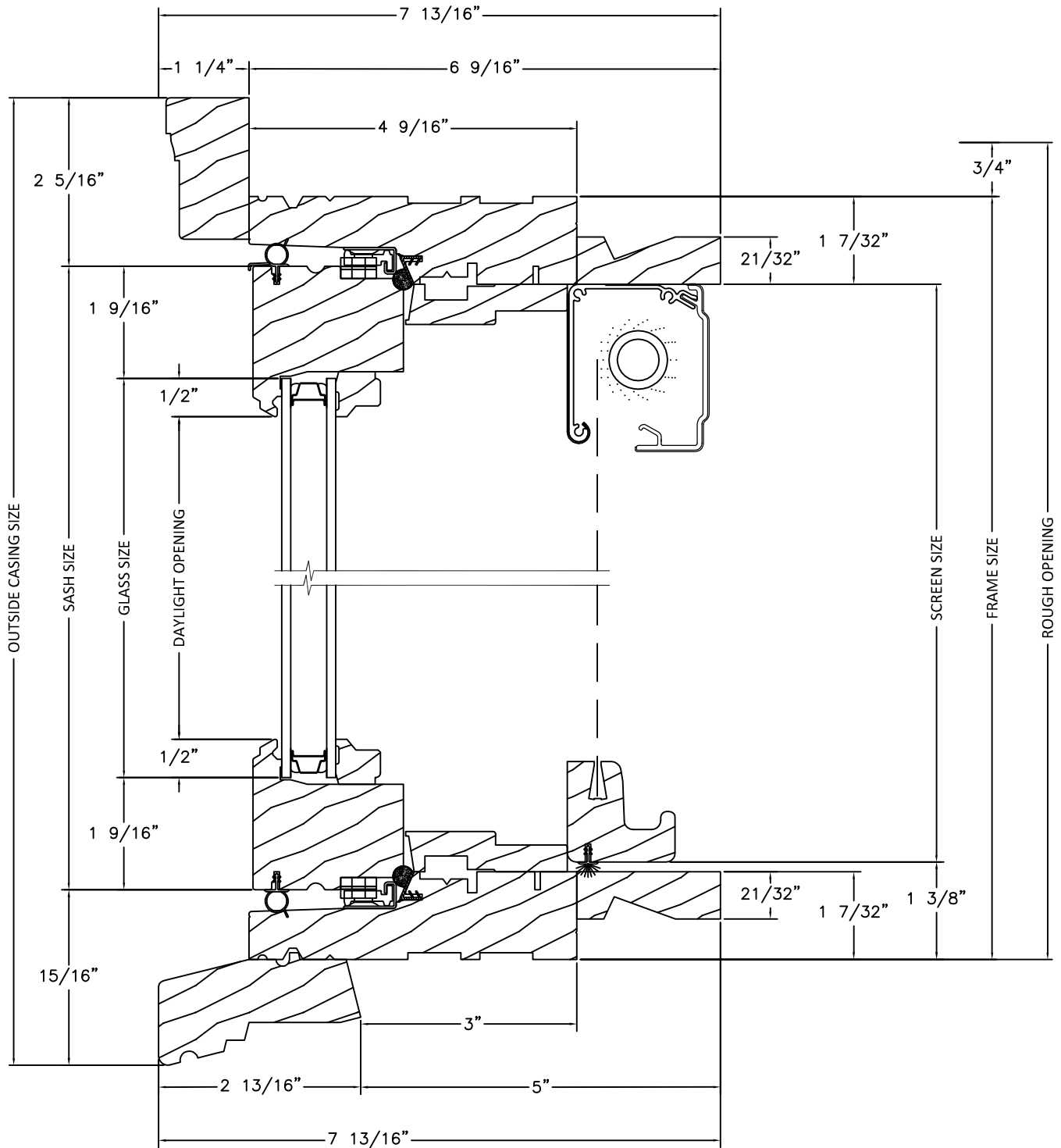
VERTICAL SECTION  
FRENCH CASEMENT UNIT



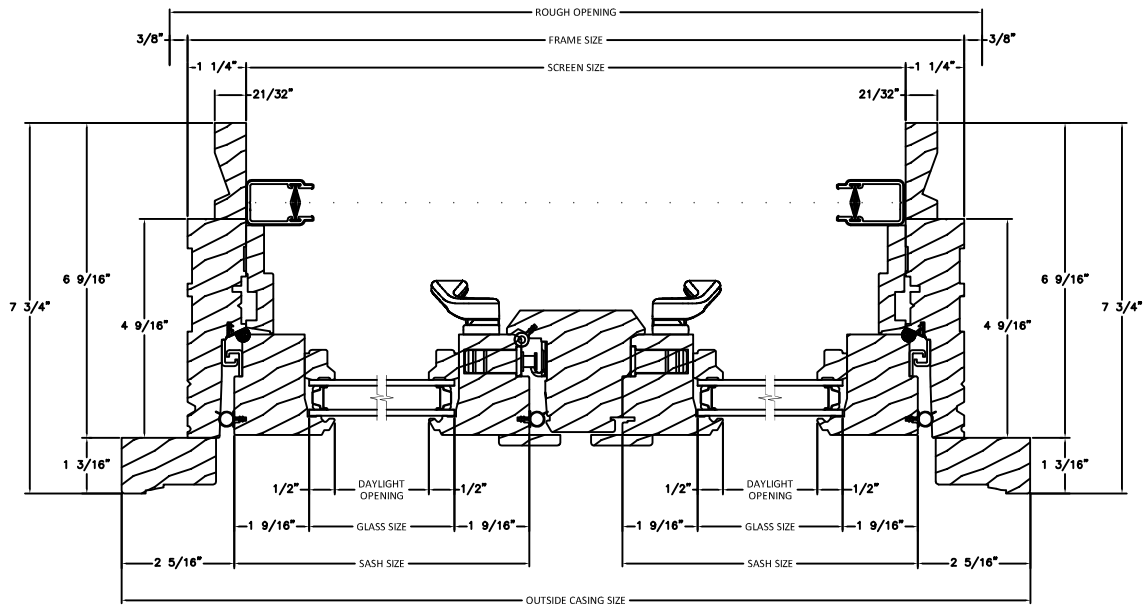
HORIZONTAL SECTION  
FRENCH CASEMENT UNIT



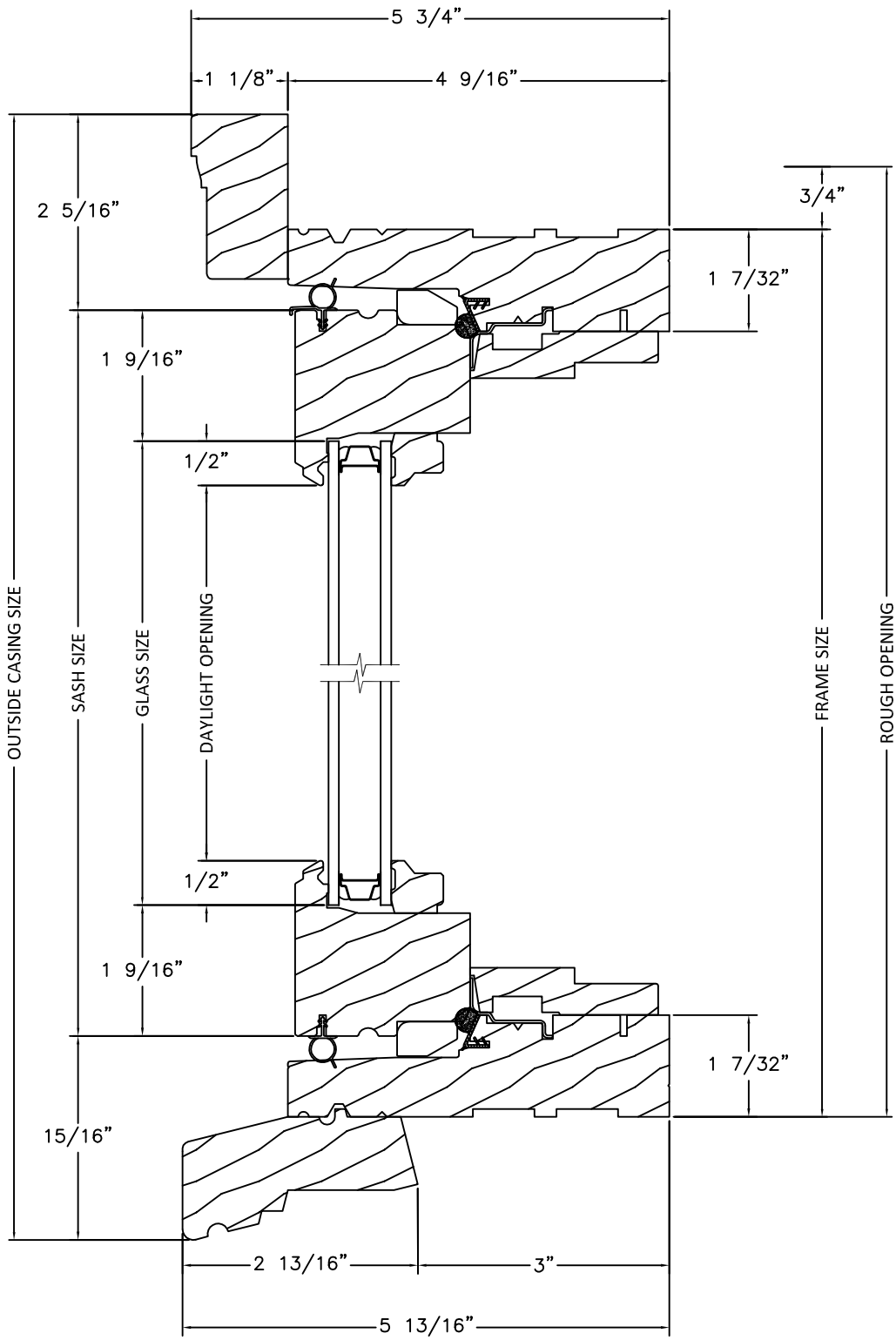
VERTICAL SECTION  
FRENCH CASEMENT UNIT WITH PHANTOM SCREEN



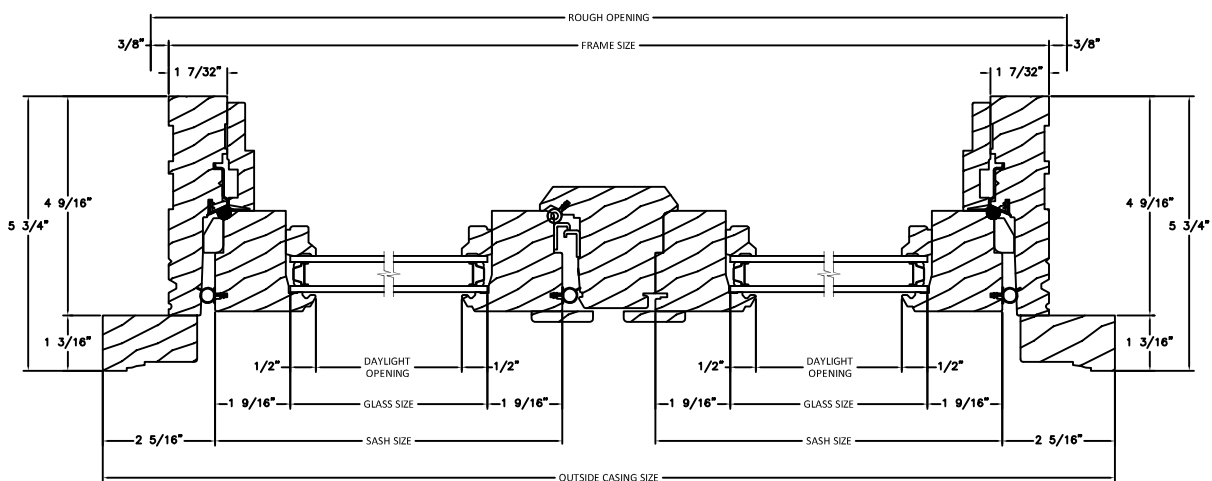
HORIZONTAL SECTION  
FRENCH CASEMENT UNIT WITH PHANTOM SCREEN



VERTICAL SECTION  
FRENCH CASEMENT STATIONARY UNIT

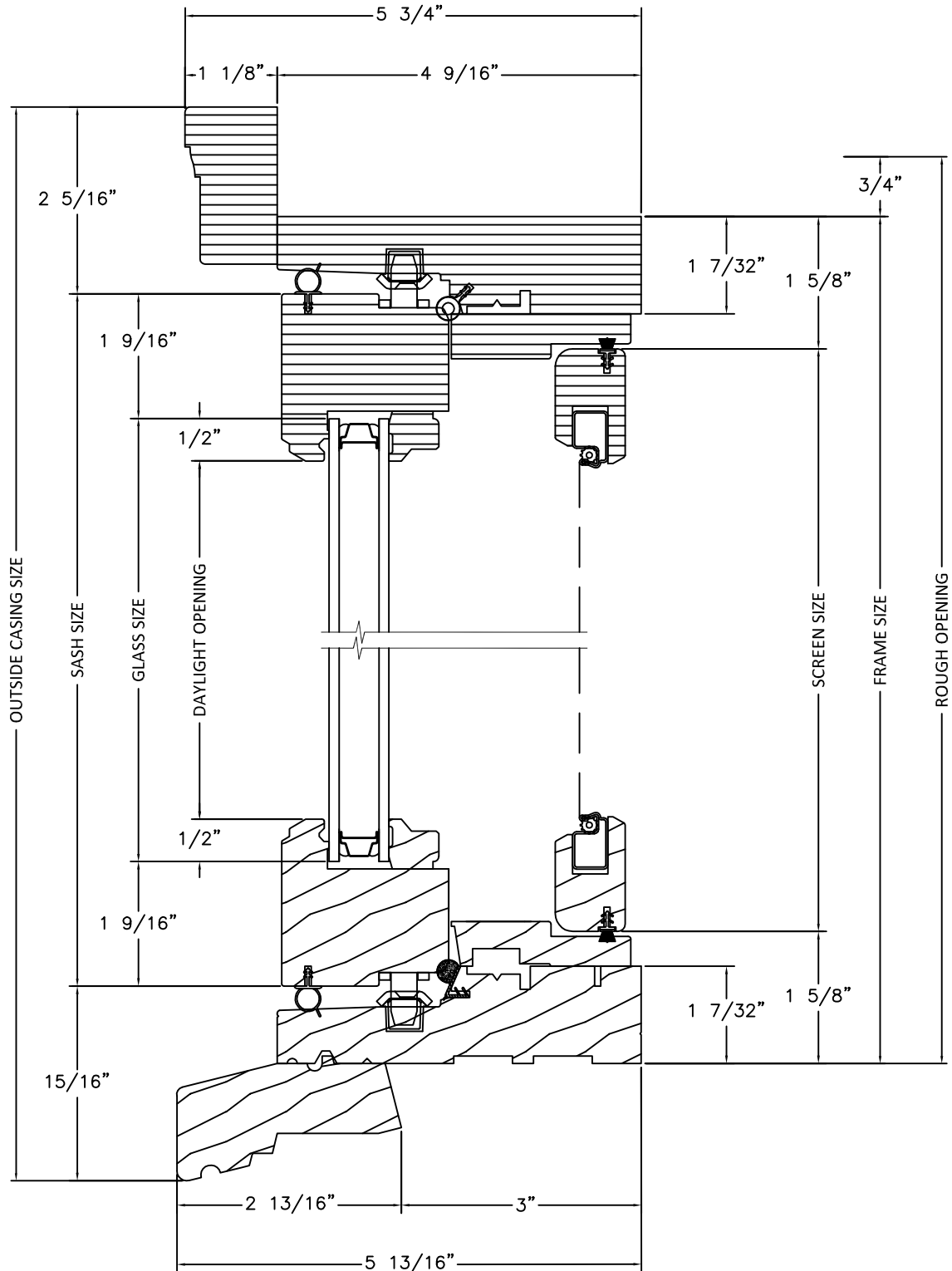


HORIZONTAL SECTION  
FRENCH CASEMENT STATIONARY UNIT

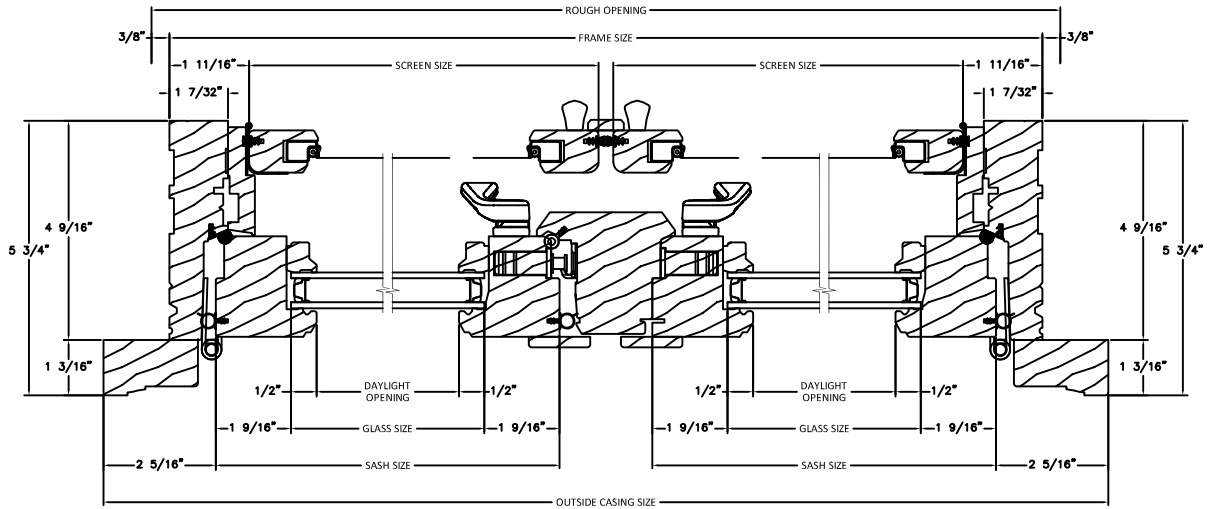




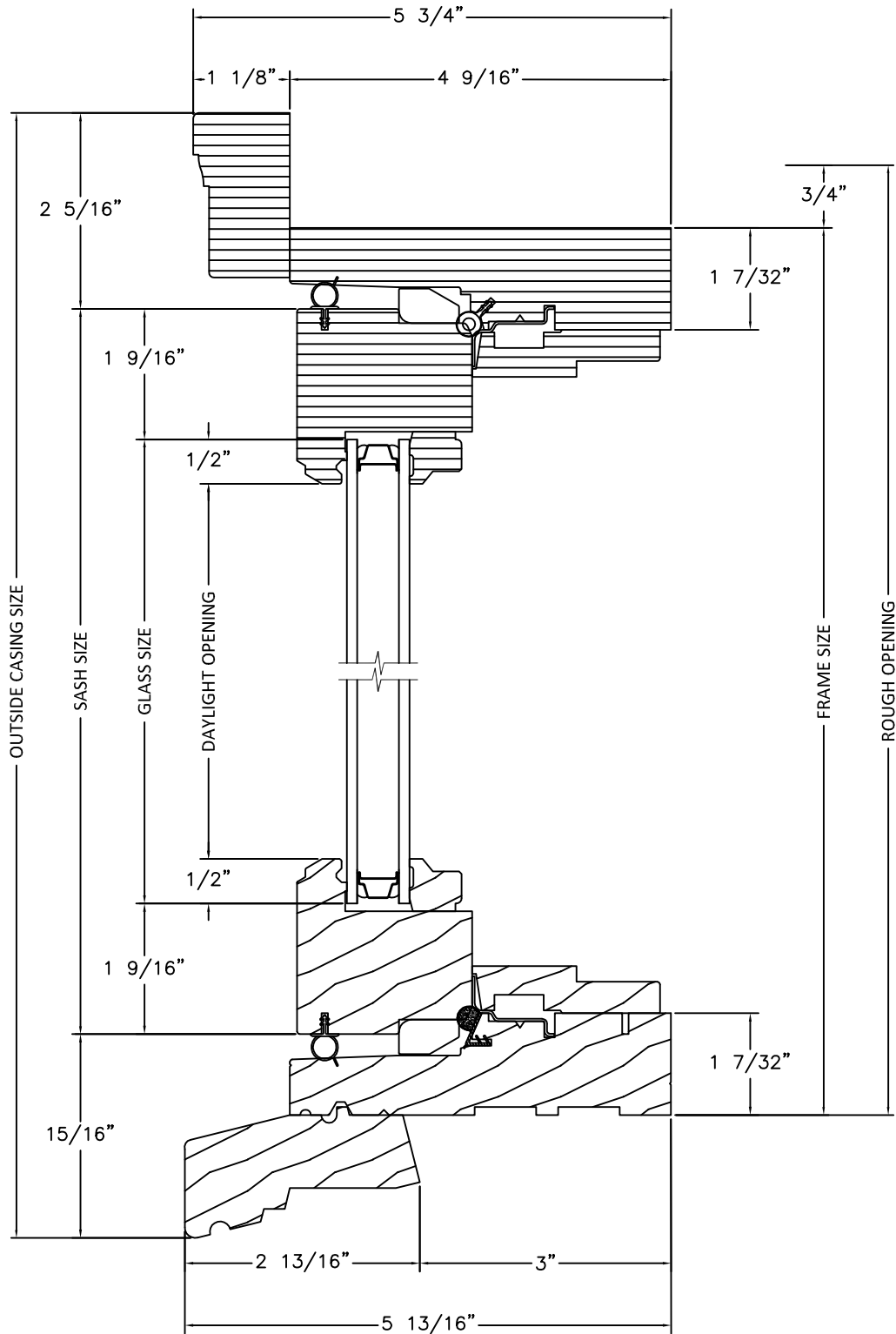
VERTICAL SECTION  
FRENCH RADIUS OPERATING UNIT



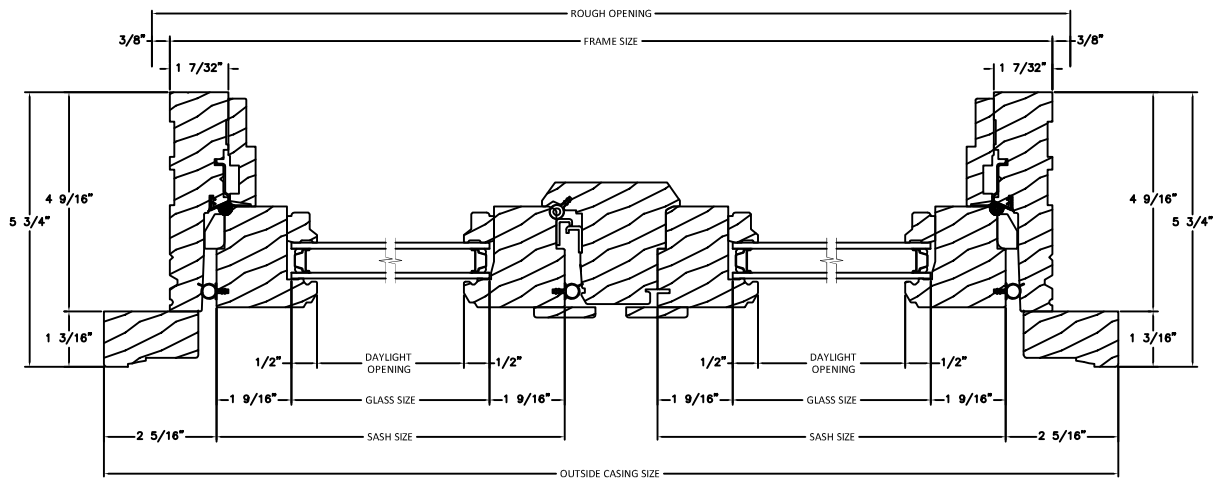
HORIZONTAL SECTION  
FRENCH RADIUS OPERATING UNITS



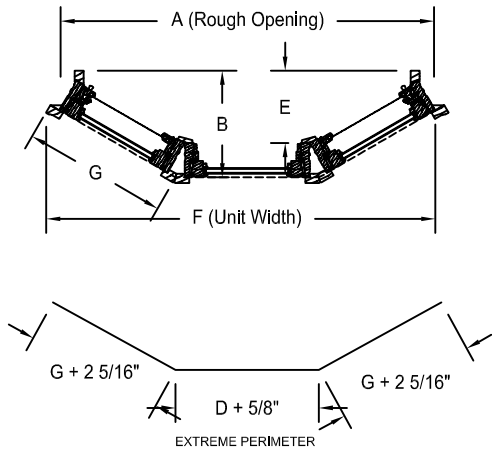
VERTICAL SECTION  
FRENCH RADIUS STATIONARY UNITS



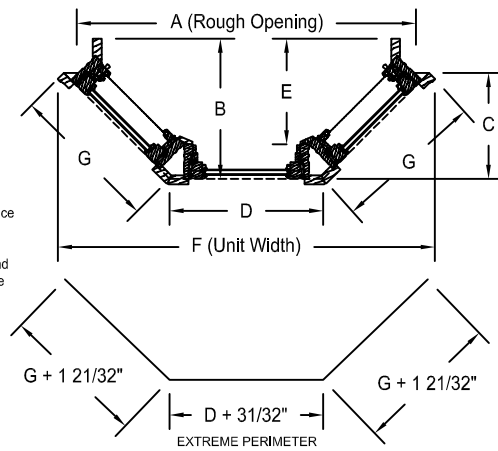
HORIZONTAL SECTION  
FRENCH RADIUS STATIONARY UNIT



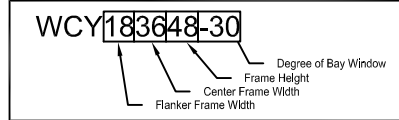
#### BAY WINDOW HORIZONTAL SPECIFICATION TABLES



**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	

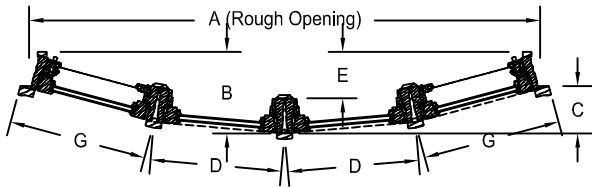
24	24	63 1/4	68	23 1/16	19 5/16	19 5/16	27 25/32	27 9/32	
24	36	75 1/4	80	23 1/16	19 5/16	19 5/16	39 25/32	27 9/32	
24	42	81 1/4	86	23 1/16	19 5/16	19 5/16	45 25/32	27 9/32	
24	48	87 1/4	92	23 1/16	19 5/16	19 5/16	51 25/32	27 9/32	
24	60	99 1/4	104	23 1/16	19 5/16	19 5/16	63 25/32	27 9/32	
24	72	111 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

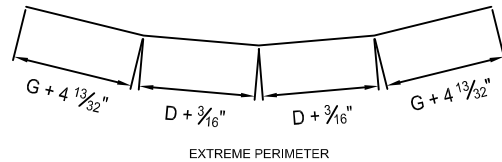
The tables above reflect a 4 9/16" wall application. To convert to 6 9/16" wall application add 2" to the figures in the columns which show an asterisk (\*), B and E.

#### BOW WINDOW HORIZONTAL SPECIFICATION TABLES

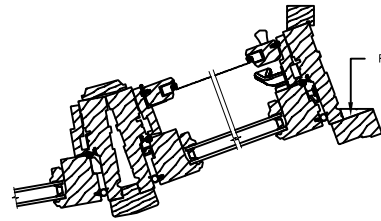
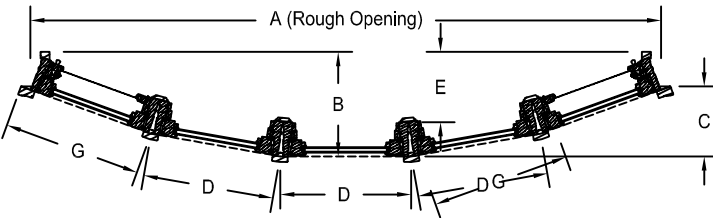


**EXTREME PERIMETER**  
Extreme Perimeter is the distance around the face of the bow, beginning at the exterior sheathing and continuing around the assembly along the extreme face of the brickmould.

4 WIDE BOW									
Flanker Width	A Rough Opening	F Unit Width	B Overall Projection	C Projection Exterior Wall	E Seating Depth	D Outside Mull To Mull	G Outside Mull To Unit	R 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	

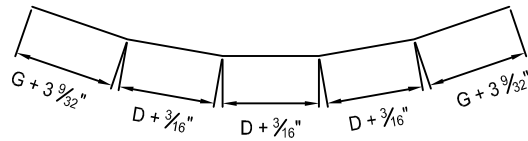


EXTREME PERIMETER

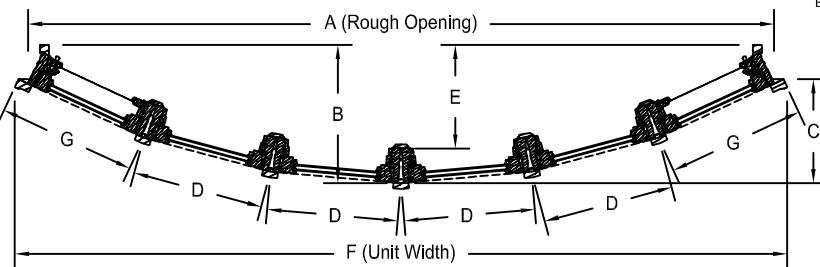


**RADIUS NOTE:** The Radius of a Bow Window is referenced from the interior of the Brickmould.

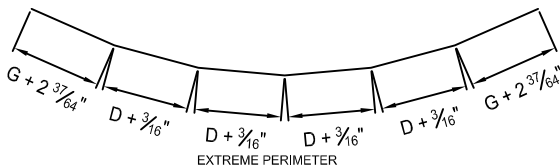
5 WIDE BOW									
Flanker Width	A Rough Opening	F Unit Width	B Overall Projection	C Projection Exterior Wall	E Seating Depth	D Outside Mull To Mull	G Outside Mull To Unit	R Radius	
18	90 7/8	93 25/32	14 19/32	10 1/32	10 1/32	18 13/16	19 25/32	107 15/16	
24	119 15/16	122 1/16	17 11/16	13 1/8	13 1/8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

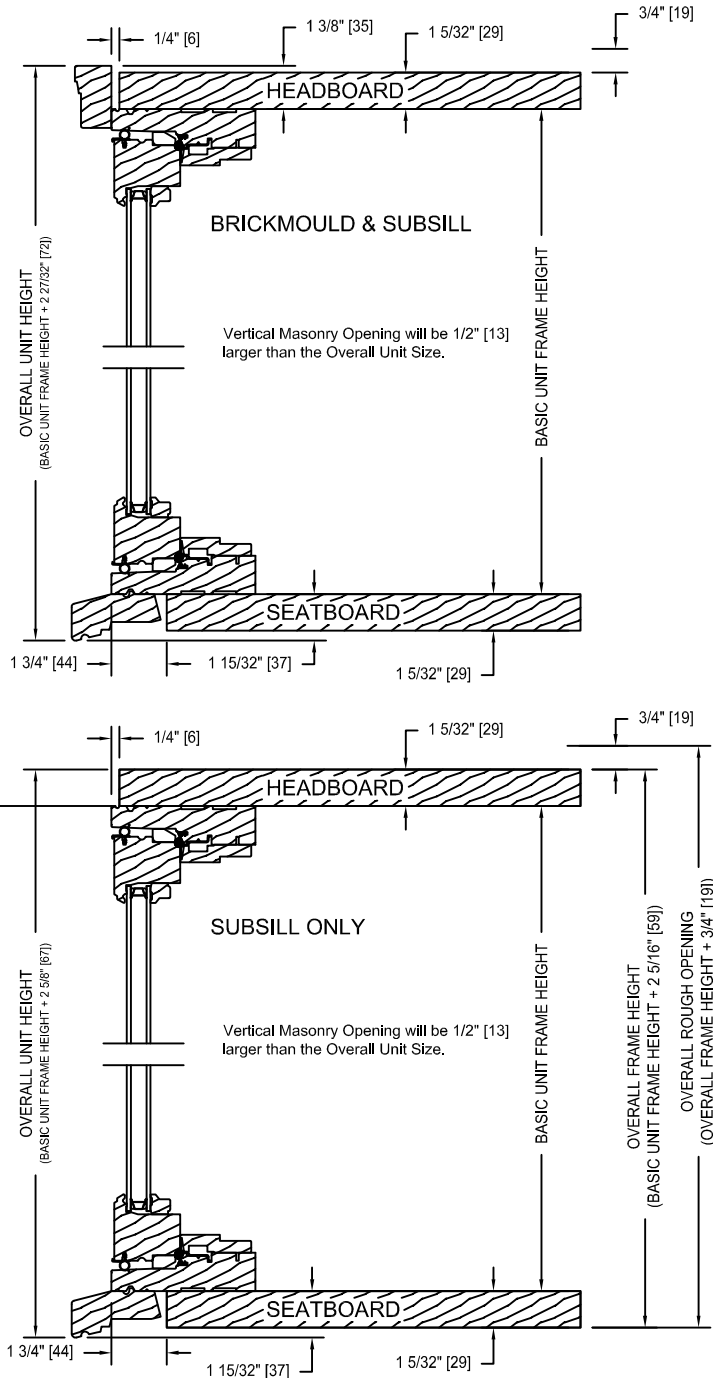
#### BAY & BOW WINDOW ROUGH OPENINGS

##### 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.

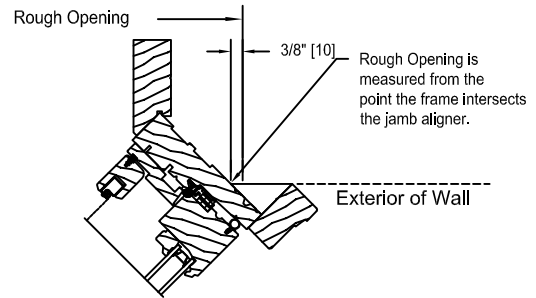
##### VERTICAL ROUGH OPENING

Rough Opening typical for all Units



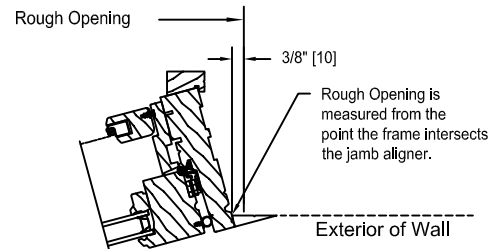
##### HORIZONTAL ROUGH OPENING

Rough Opening typical for all Units



##### 30° & 45° BAYS

45° Bay Shown with Brickmould



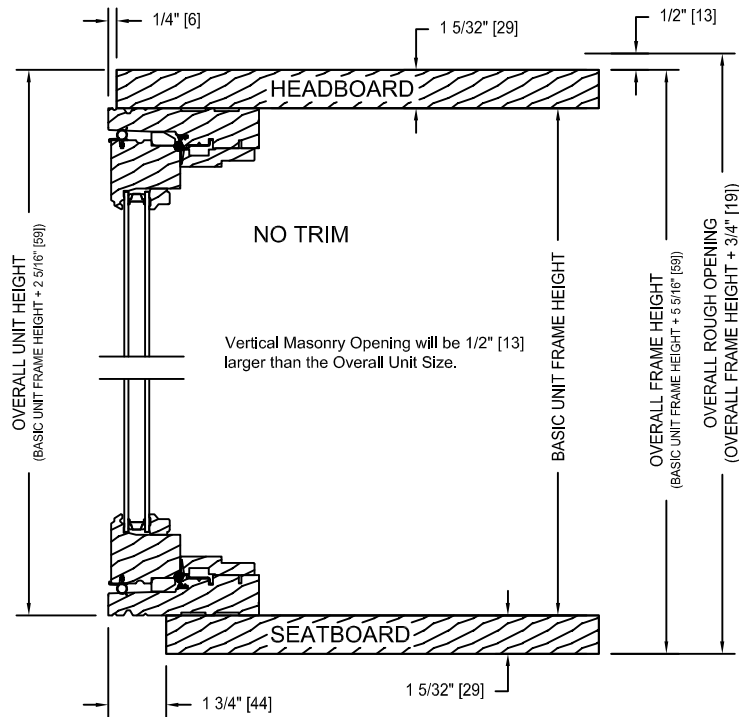
##### 4, 5 & 6 WIDE BOWS

4 Wide Bow Shown without trim

**BAY & BOW WINDOW ROUGH OPENINGS**

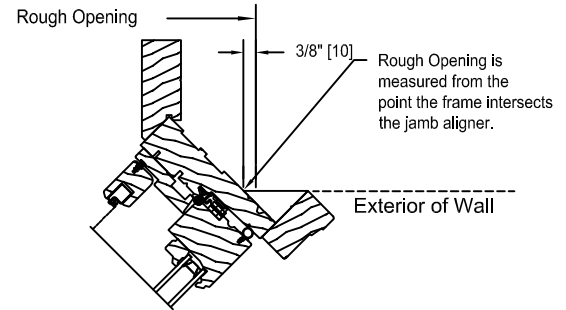
**VERTICAL ROUGH OPENING**

Rough Opening typical for all Units

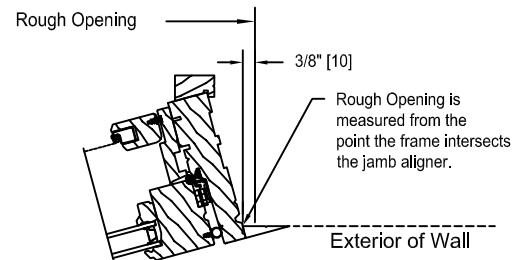


**HORIZONTAL ROUGH OPENING**

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