

TABLE OF CONTENTS

Specifications	17-2
Quick Spec Guide	17-3
Elevations: 1/4" Scale	17-4
Full Round Units	17-7
Octagon Units	17-8
Casement Half Round Units	17-9
Casement Quarter Round Units	17-10
Double-Hung Half Round Units	17-11
Double-Hung Quarter Round Units	17-12
In-Swing Patio Door Half Round Units	17-13
Out-Swing Patio Door Half Round Units.	17-14
Glazing Options	17-15
Trim Options	17-21
Jamb Options	17-22
Mullion Details	17-23
Stop Options	17-28
Grille & SDL Options.	17-29
Unit Sizing, Rough Openings & Masonry Openings	17-34
Section Details: 6" Scale	17-35

PRODUCT SPECIFICATIONS**EXTERIOR FINISH**

The standard exterior is factory-applied latex primer with an option for unfinished (stain grade) natural pine exterior available.

AURALAST® WOOD

AuraLast® wood is fundamentally different from wood treated in traditional millwork preservation processes in that it uses a proprietary vacuum/pressure process to provide protection throughout the wood parts used to make windows and doors. AuraLast® wood is distinguished from wood using traditional preservation methods by its unique ability to achieve greater penetration of the active ingredients into the wood parts, with a minimum treatment penetration of 92%.

INTERIOR FINISH

Interior surfaces are unfinished clear pine ready for on-site finishing. Optional prefinished pine interiors include four acrylic colors (Moderate White, Extra White, Natural Choice, Pure White), five stains (Wheat, Cherry, Fruitwood, Cordovan, Cider) and a clear lacquer topcoat. Primed interior is also available.

FRAME

Frame is assembled from select kiln-dried pine AuraLast® wood on all exterior parts. Standard jamb width is 4-9/16".

GLAZING

Insulating glass is constructed from two panes of glass, utilizing a continuous roll formed stainless steel spacer with dual seal sealant. Radius insulating glass is construction of panes of glass utilizing an anodized rectangular spacer. The glass is mounted into the sash using a silicone-glazing compound and secured with interior applied profiled wood stops. All insulating glass units comply with the performance requirements of IGCC in accordance with either ASTM E774 or E2190.

GLAZING OPTIONS

Insulating glass available in Low-E with Argon, Low-E, Low-E 366, Clear, Neat Glass, Seedy Reamy, tinted, reflective, or obscure, tempered or other specialty glass as specified. Preserve® film is a 0.003" thick polyethylene film with a low tack acrylic adhesive applied to the glass for protection during shipping and installation. Installations at 4,000 foot elevations and higher require a capillary tube to equalize environmental stress (otherwise known as High Altitude glazing). High Altitude glazing does not allow the use of Argon as listed under glazing options.

GRILLES

SDL (Simulated Divided Lites) - extruded pre-primed aluminum muntins permanently applied to the exterior of the insulating glass unit (not available on textured glass) in 5/8", 7/8", 1-1/8", or 1-3/8" widths. Profiles are bead stop in all widths, and a putty profile in 5/8", 7/8", and 1-1/8" widths only. SDL is standard with a light bronze internal shadow bar to give a true divided lite appearance. As an option, SDL may be ordered with a silver shadow bar. Clear wood interior muntin bars match the exterior muntin width and are permanently bonded to the interior of the glass. Also available is a 2-5/16" SDL bar, which simulates a double-hung checkrail.

Full-Surround Removable Wood Grilles - Rectangular, unfinished interior clear pine wood grilles in 7/8", 1-1/8", and 1-3/8" are available in patterns selected by the owner.

GBG (Grilles between the Glass) - 5/8" (15.9mm) flat and 23/32" or 1" contour mounted between the glass panes suspended within the air cavity.

EXTERIOR TRIM

Brickmould standard with optional 3-1/2", 4-1/2", 5-1/2" flat trim, 3-1/2" Adams and 1 x 4 Backband trim. Optional mull covers to accommodate 1" (spread only), 2", 3-1/2" and 6" spread and stud pocket mull.

EXTENSION JAMBS

Extensions are applied to the interior on all four sides of the frame in wall depths up to 9-1/8" for 4/4 and up to 13-11/16" for 5/4, factory applied.

INSTALLATION

Installation per JELD-WEN Installation Method for Wood Windows. See www.jeld-wen.com/resources for instructions.

PERFORMANCE

NFRC Certified - (rated and labeled in accordance with NFRC 100 and 200 procedures)

**ANSI/AAMA/NWWDA/101/I.S.2-97
AMMA/WDMA/CSA 101/I.S.2/A440-05
WDMA Hallmark Certified**

See www.jeld-wen.com for architectural and performance information.

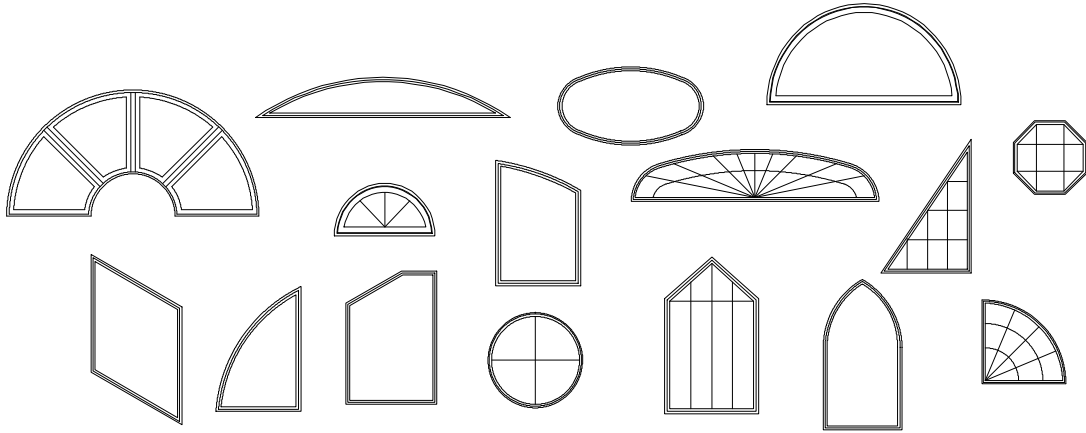
QUICK SPEC GUIDE

SPECIFICATION	STANDARD FEATURES	OPTIONAL FEATURES <i>Some options may require additional lead times. Consult your JELD-WEN Sales Representative.</i>		
EXTERIOR FINISH	<ul style="list-style-type: none"> • Primed 	<ul style="list-style-type: none"> • Natural • Vertical Grain Douglas Fir • Mahogany 		
EXTERIOR TRIM	<ul style="list-style-type: none"> • Brickmould & Subsill 	<ul style="list-style-type: none"> • Adams Casing • 3-1/2" Flat Casing • 4-1/2" Flat Casing • 5-1/2" Flat Casing • 1x4 Backband • Extended Sill Nose 		
INTERIOR WOOD	<ul style="list-style-type: none"> • Western Pine 			
INTERIOR FINISH	<ul style="list-style-type: none"> • Natural 	<ul style="list-style-type: none"> • Priming Available <p>Pre-finished Interior Options are:</p> <ul style="list-style-type: none"> • Paint - Pure White, Extra White, Natural Choice, Moderate White • Stain - Wheat, Fruitwood, Cherry, Cordovan, Cider • Clear Lacquer 		
SIZE	<ul style="list-style-type: none"> • Standard sizes available in Full Rounds, Octagons, Casement Half Rounds, Casement Quarter Rounds, Double-Hung Half Rounds, Twin Double-Hung Half Rounds, Double-Hung Quarter Rounds, In-Swing and Out-Swing Patio Door Half Rounds in both true size and replacement sizes. 	<ul style="list-style-type: none"> • Custom sizes and shapes from 4" to 131-5/8" • Smallest frame angle is 11 degrees • Smallest frame radius is 9" • Smallest full round is 18" diameter 		
GLAZING	<ul style="list-style-type: none"> • Low-E Insulating Glass (with Argon) • Low-E 366 • Preserve® Protective Film 	<table border="0"> <tr> <td> <ul style="list-style-type: none"> • Clear • Obscure • Tints: Bronze, Gray, Green • Reflective • Glue Chip • Safety Laminate in Clear, Bronze or Gray </td> <td> <ul style="list-style-type: none"> • Neat Glass • Seedy Reamy • Rain • Narrow Reed • Sandblasted • Tempered • Impact Resistant </td> </tr> </table> <ul style="list-style-type: none"> • High Altitude (Breather Tube, no Argon) 	<ul style="list-style-type: none"> • Clear • Obscure • Tints: Bronze, Gray, Green • Reflective • Glue Chip • Safety Laminate in Clear, Bronze or Gray 	<ul style="list-style-type: none"> • Neat Glass • Seedy Reamy • Rain • Narrow Reed • Sandblasted • Tempered • Impact Resistant
<ul style="list-style-type: none"> • Clear • Obscure • Tints: Bronze, Gray, Green • Reflective • Glue Chip • Safety Laminate in Clear, Bronze or Gray 	<ul style="list-style-type: none"> • Neat Glass • Seedy Reamy • Rain • Narrow Reed • Sandblasted • Tempered • Impact Resistant 			
GRILLES		<p>SDL Bead Profile:</p> <ul style="list-style-type: none"> • 5/8", 7/8", 1-1/8", 1-3/8", 2-5/16" with Light Bronze Shadow Bar • 5/8", 7/8", 1-1/8", 1-3/8", 2-5/16" with Silver Shadow Bar <p>SDL Putty Profile:</p> <ul style="list-style-type: none"> • 5/8", 7/8" and 1-1/8" with Light Bronze Shadow Bar • 5/8", 7/8" and 1-1/8" with Silver Shadow Bar <p>GBG (Grilles between the Glass):</p> <ul style="list-style-type: none"> • 5/8" Flat, 23/32" Contour, 1" Contour <p>Full-Surround:</p> <ul style="list-style-type: none"> • 7/8", 1-1/8", 1-3/8" 		
JAMB	<ul style="list-style-type: none"> • Applied, 5/4 • 4-9/16" 	<ul style="list-style-type: none"> • Up to 9-1/8" 4/4 • Up to 13-11/16" 5/4 		

GENERAL INFORMATION

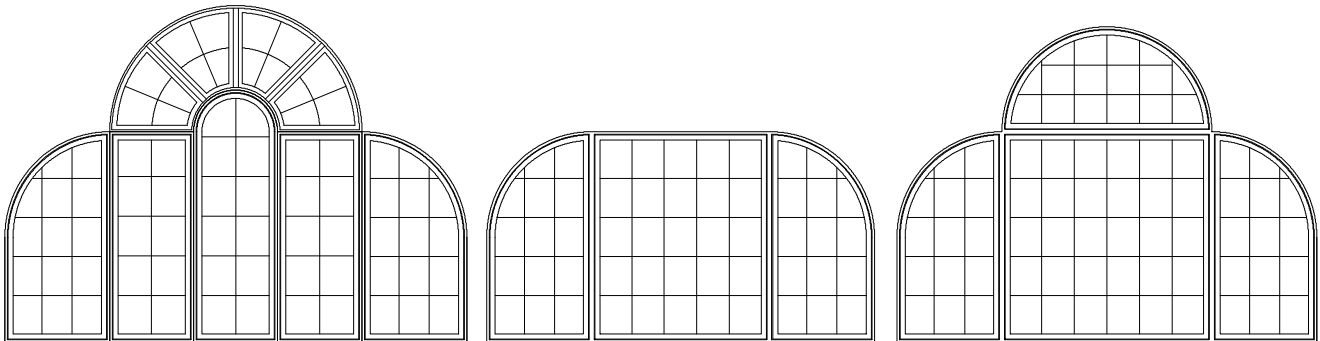
STANDARD SIZES & DESIGNS

Wood geometric windows are produced one-at-a-time to customer order, and are available in a nearly infinite range of sizes and shapes. Specified sizes, angles, and radii can be attained in finished units, to meet the most demanding architectural requirements.



MULTIPLE ASSEMBLIES

Wood direct-set geometric windows may be mullied above, below, or beside other wood geometric windows, or other wood window or patio door products. Factory assembled mulls are limited in height (100"), width (150"), and a total area (75 square feet).

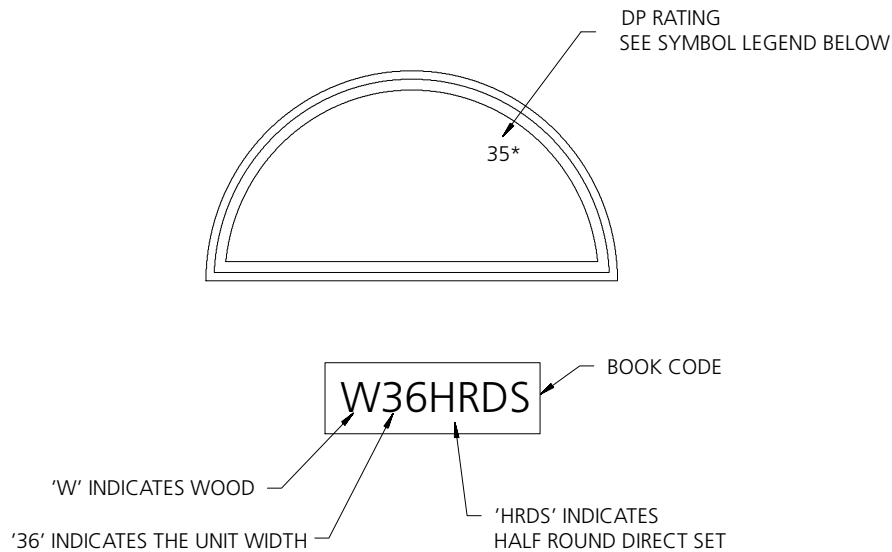


ELEVATION NOTES

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.

BOOK CODE DEFINITIONS

- | | | |
|-----|-------------|--|
| 1. | WXXHRDS | WOOD HALF ROUND DIRECT-SET |
| 2. | WDHRXXHRDS | WOOD DOUBLE-HUNG HALF ROUND DIRECT-SET |
| 3. | WIPDXXHRDS | WOOD IN-SWING PATIO DOOR HALF ROUND DIRECT-SET |
| 4. | WIPDTXXHRDS | WOOD IN-SWING PATIO DOOR TRUE HALF ROUND DIRECT-SET |
| 5. | WOPDXXHRDS | WOOD OUT-SWING PATIO DOOR HALF ROUND DIRECT-SET |
| 6. | WOPDTXXHRDS | WOOD OUT-SWING PATIO DOOR TRUE HALF ROUND DIRECT-SET |
| 7. | WXXQRDS | WOOD QUARTER ROUND DIRECT-SET |
| 8. | WXXFRDS | WOOD FULL ROUND DIRECT-SET |
| 9. | WOCTXXDS | WOOD OCTAGON DIRECT-SET |
| 10. | WDHRXXQRDS | WOOD DOUBLE-HUNG QUARTER ROUND DIRECT-SET |



GENERAL NOTES

1. UNIT ELEVATIONS ARE SHOWN WITHOUT EXTERIOR TRIM. MASONRY OPENING & ROUGH OPENING ARE EQUAL. UNIT SIZE AND FRAME SIZE ARE EQUAL.
2. ALL UNITS SHOWN ARE AVAILABLE AS FIXED ONLY.
3. TO DETERMINE DAYLIGHT OPENING DEDUCT 3-7/16" [87] FROM FRAME SIZE
4. UNITS ARE SHOWN AS ONE LITES. SEE THE STANDARD LITE CUT PAGES FOR INFORMATION ON AVAILABLE LITE CUT CONFIGURATIONS.
5. GLASS SIZES ARE NOMINAL.
6. VALUES IN BRACKETS ARE MILLIMETER CONVERSIONS.

ELEVATION SYMBOL LEGEND:

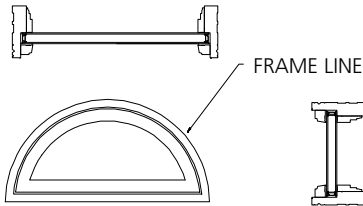
- ##* NUMBER INDICATES DESIGN PRESSURE (DP) RATING WITH STANDARD GLAZING.

ELEVATION NOTES

GEOMETRIC ELEVATIONS:

THE POSSIBLE SHAPES AND CONFIGURATIONS OF GEOMETRIC WINDOWS ARE TOO NUMEROUS TO OFFER IN A DRAWING FORMAT. CREATE THE OUTSIDE FRAME LINES OF THE GEOMETRIC SHAPE DESIRED. REFER TO SECTION DETAILS AND DIMENSIONS TO FIND THE APPROPRIATE OFFSET DIMENSIONS FOR FRAME FEATURES AND DAYLIGHT OPENING. THE FOLLOWING INFORMATION DETAILS THE CREATION OF TRIM AND SUBSILL FOR GEOMETRIC ELEVATIONS.

STANDARD ELEVATIONS



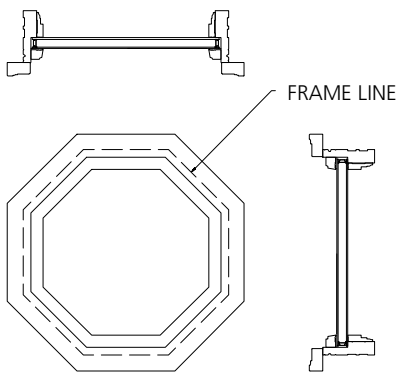
STANDARD GEOMETRIC ELEVATIONS

Geometric elevations are drawn as 'Frame Only' (without trim) to simplify mulling and multiple assemblies. Trim and subsill applications can easily be offset from frame lines to create the desired trim and finish.

MULLING WOOD UNITS

Wood elevations from other product lines have brickmould shown as the standard offering. Refer to the Section Details & Dimensions page of that product type to determine the offset from brickmould to frame. This will show the outside frame line hidden by the brickmould.

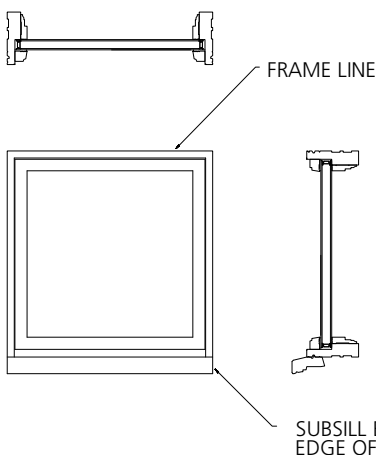
TRIM - ALL SIDES



TRIM - ALL SIDES

Applying trim to all 4 sides of an elevation is an offset from the frame. See Unit Sizing, Rough Openings & Masonry Openings page for offset dimensions of various trim options.

SUBSILL

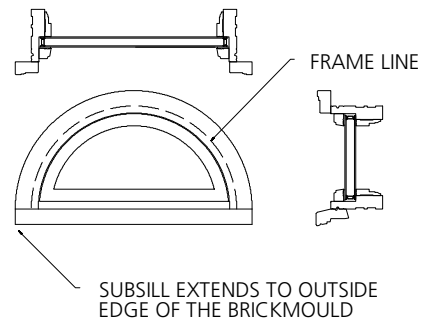


SUBSILL

Subsill is applied to the bottom of straight line portions of the window. The subsill is continuous to the outside dimensions of the units frame or trim. The application of subsill will affect the rough opening by adding 1" to the rough opening height. See Unit Sizing, Rough Opening & Masonry Openings page for more information.

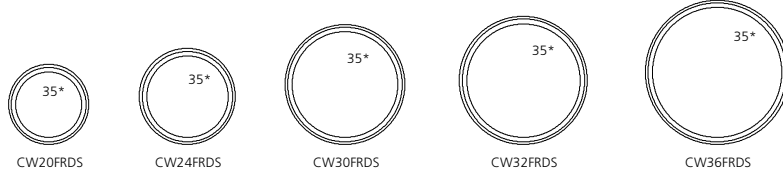
SUBSILL RESTRICTIONS

Subsill may not be applied to octagon, full round, oval, inverted half round and inverted quarter round units.

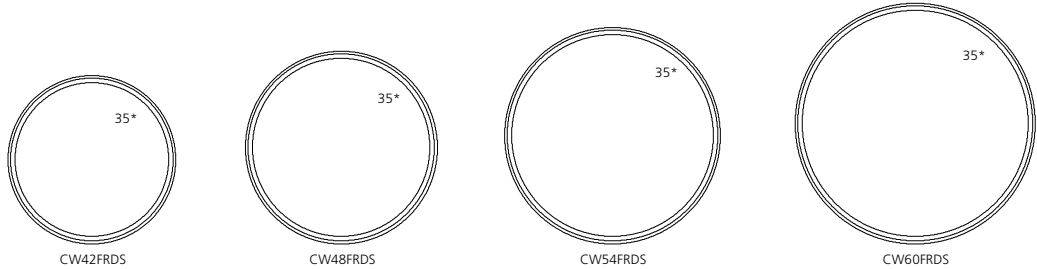


FULL ROUND UNITS

M.O. BRICKMOULD	23 1/4"(591)	27 1/4"(692)	33 1/4"(845)	35 1/4"(895)	39 1/4"(997)
M.O. ADAMS/FLAT CASING	26 5/16"(668)	30 5/16"(770)	36 5/16"(922)	38 5/16"(973)	42 5/16"(1074)
ROUGH OPENING	20 3/4"(527)	24 3/4"(629)	30 3/4"(781)	32 3/4"(832)	36 3/4"(933)
FRAME SIZE	20"(508)	24"(610)	30"(762)	32"(813)	36"(914)
DAYLIGHT OPENING	16 3/8"(416)	20 3/8"(518)	26 3/8"(670)	28 3/8"(721)	32 3/8"(822)



M.O. BRICKMOULD	45 1/4"(1149)	51 1/4"(1302)	57 1/4"(1454)	63 1/4"(1607)
M.O. ADAMS/FLAT CASING	48 5/16"(1227)	54 5/16"(1379)	60 5/16"(1532)	66 5/16"(1684)
ROUGH OPENING	42 3/4"(1086)	48 3/4"(1238)	54 3/4"(1391)	60 3/4"(1537)
FRAME SIZE	42"(1067)	48"(1219)	54"(1372)	60"(1524)
DAYLIGHT OPENING	38 3/8"(975)	44 3/8"(1127)	50 3/8"(1280)	54 3/8"(1381)



ELEVATION SYMBOL LEGEND:

M.O. = MASONRY OPENING
VALUES IN () ARE IN MILLIMETER CONVERSIONS.
##* NUMBER INDICATES DESIGN PRESSURE (DP) RATING WITH STANDARD GLAZING.

Note: Elevations shown DO NOT have exterior trim. Subtract 1/2" (12.7) from M.O. (Masonry Opening) for Unit Sizes. Masonry Openings above include Sill Nose, see Trim Options page for Sill Nose specifications. For other Trim Options refer to the Unit Sizing, Rough Opening & Masonry Openings page.

SCALE: 1/4" = 1'

OCTAGON UNITS

M.O. BRICKMOULD
M.O. ADAMS/FLAT CASING
ROUGH OPENING
FRAME SIZE
DAYLIGHT OPENING

23 1/4" (591)
26 5/16" (668)
20 3/4" (527)
20" (508)
16 3/8" (416)

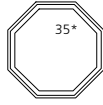
27 1/4" (692)
30 5/16" (770)
24 3/4" (629)
24" (610)
20 3/8" (518)

33 1/4" (845)
36 5/16" (922)
30 3/4" (781)
30" (762)
26 3/8" (670)

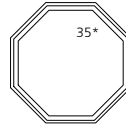
35 1/4" (895)
38 5/16" (973)
32 3/4" (832)
32" (813)
28 3/8" (721)



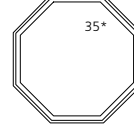
CWOCT20DS



CWOCT24DS



CWOCT30DS



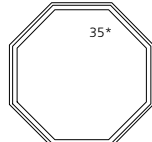
CWOCT32DS

M.O. BRICKMOULD
M.O. ADAMS/FLAT CASING
ROUGH OPENING
FRAME SIZE
DAYLIGHT OPENING

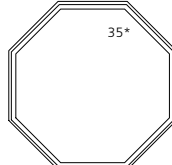
39 1/4" (997)
42 5/16" (1074)
36 3/4" (933)
36" (914)
32 3/8" (822)

45 1/4" (1149)
48 5/16" (1227)
42 3/4" (1086)
42" (1067)
38 3/8" (975)

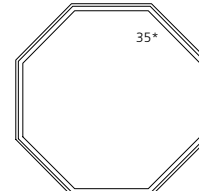
51 1/4" (1302)
54 5/16" (1379)
48 3/4" (1238)
48" (1219)
44 3/8" (1127)



CWOCT36DS



CWOCT42DS



CWOCT48DS

ELEVATION SYMBOL LEGEND:

M.O. = MASONRY OPENING

VALUES IN () ARE IN MILLIMETER CONVERSIONS.

##* NUMBER INDICATES DESIGN PRESSURE (DP) RATING WITH STANDARD GLAZING.

Note: Elevations shown DO NOT have exterior trim. Subtract 1/2" (12.7) from M.O. (Masonry Opening) for Unit Sizes. Masonry Openings above include Sill Nose, see Trim Options page for Sill Nose specifications. For other Trim Options refer to the Unit Sizing, Rough Opening & Masonry Openings page.

CASEMENT HALF ROUND UNITS

M.O. BRICKMOUND
M.O. ADAMS/FLAT CASING
ROUGH OPENING
FRAME SIZE
DAYLIGHT OPENING

21 1/4" (540)
24 5/16" (617)
18 3/4" (476)
18" (457)
14 25/64" (366)

23 1/4" (591)
26 5/16" (668)
20 3/4" (527)
20" (508)
16 25/64" (416)

27 1/4" (692)
30 5/16" (770)
24 3/4" (629)
24" (610)
20 25/64" (518)

31 1/4" (794)
34 5/16" (871)
28 3/4" (730)
28" (711)
24 25/64" (619)

33 1/4" (845)
36 5/16" (922)
30 3/4" (781)
30" (762)
26 25/64" (670)

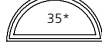
12 5/16" (313)
13 7/8" (352)
10 3/4" (273)
9" (229)
5 3/4" (146)



CW18HRDS



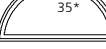
CW20HRDS



CW24HRDS



CW28HRDS



CW30HRDS

M.O. BRICKMOUND
M.O. ADAMS/FLAT CASING
ROUGH OPENING
FRAME SIZE
DAYLIGHT OPENING

35 1/4" (895)
38 5/16" (973)
32 3/4" (832)
32" (813)
28 25/64" (721)

39 1/4" (997)
42 5/16" (1074)
36 3/4" (933)
36" (914)
32 25/64" (823)

45 1/4" (1149)
48 5/16" (1227)
42 3/4" (1086)
42" (1067)
38 25/64" (975)

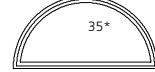
51 1/4" (1302)
54 5/16" (1379)
48 3/4" (1238)
48" (1219)
44 25/64" (1128)

19 5/16" (491)
20 7/8" (530)
17 3/4" (451)
16" (406)
12 3/4" (323)



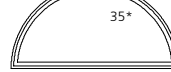
CW32HRDS

21 5/16" (541)
22 7/8" (581)
19 3/4" (502)
18" (457)
14 3/4" (375)



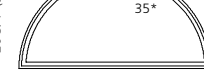
CW36HRDS

24 5/16" (618)
25 7/8" (657)
22 3/4" (578)
21" (533)
17 3/4" (451)



CW42HRDS

27 5/16" (694)
28 7/8" (733)
25 3/4" (654)
24" (610)
20 3/4" (527)



CW48HRDS

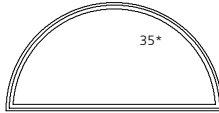
M.O. BRICKMOUND
M.O. ADAMS/FLAT CASING
ROUGH OPENING
FRAME SIZE
DAYLIGHT OPENING

57 1/4" (1454)
60 5/16" (1532)
54 3/4" (1391)
54" (1372)
50 25/64" (1280)

59 1/4" (1505)
62 5/16" (1582)
56 3/4" (1441)
56" (1422)
52 25/64" (1331)

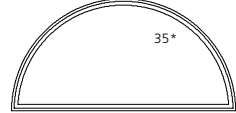
63 1/4" (1607)
66 5/16" (1684)
60 3/4" (1543)
60" (1524)
56 25/64" (1432)

30 5/16" (770)
31 7/8" (810)
28 3/4" (730)
27" (686)
23 3/4" (603)



CW54HRDS

31 5/16" (795)
32 7/8" (835)
29 3/4" (756)
28" (711)
24 3/4" (629)



CW56HRDS

33 5/16" (846)
34 7/8" (886)
31 3/4" (806)
30" (762)
26 3/4" (679)



CW60HRDS

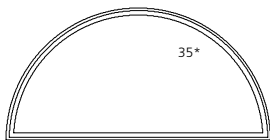
M.O. BRICKMOUND
M.O. ADAMS/FLAT CASING
ROUGH OPENING
FRAME SIZE
DAYLIGHT OPENING

69 1/4" (1759)
72 5/16" (1836)
66 3/4" (1695)
66" (1676)
62 25/64" (1585)

75 1/4" (1911)
78 5/16" (1989)
72 3/4" (1848)
72" (1829)
68 25/64" (1737)

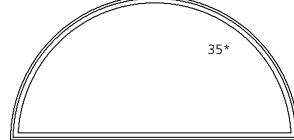
87 1/4" (2216)
90 5/16" (2294)
84 3/4" (2153)
84" (2134)
80 25/64" (2042)

36 5/16" (922)
37 7/8" (962)
34 3/4" (883)
33" (838)
29 3/4" (756)



CW66HRDS

39 5/16" (999)
40 7/8" (1038)
37 3/4" (959)
36" (914)
32 3/4" (832)



CW72HRDS

45 5/16" (1151)
46 7/8" (1191)
43 3/4" (1111)
42" (1067)
38 3/4" (984)



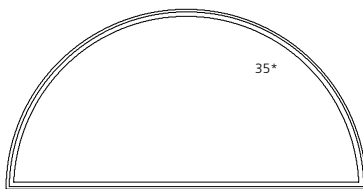
CW84HRDS

M.O. BRICKMOUND
M.O. ADAMS/FLAT CASING
ROUGH OPENING
FRAME SIZE
DAYLIGHT OPENING

93 1/4" (2369)
96 5/16" (2446)
90 3/4" (2305)
90" (2286)
86 25/64" (2194)

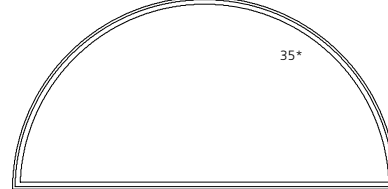
99 1/4" (2521)
102 5/16" (2598)
96 3/4" (2457)
96" (2438)
92 25/64" (2347)

48 5/16" (1227)
49 7/8" (1267)
46 3/4" (1187)
45" (1143)
41 3/4" (1060)



CW90HRDS

51 5/16" (1303)
52 7/8" (1343)
49 3/4" (1264)
48" (1219)
44 3/4" (1137)



CW96HRDS

ELEVATION SYMBOL LEGEND:

M.O. = MASONRY OPENING

VALUES IN () ARE IN MILLIMETER CONVERSIONS.

##* NUMBER INDICATES DESIGN PRESSURE (DP) RATING WITH STANDARD GLAZING.

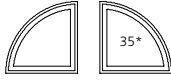
Note: Elevations shown DO NOT have exterior trim. Subtract 1/2" (12.7) from M.O. (Masonry Opening) for Unit Sizes. Masonry Openings above include Sill Nose, see Trim Options page for Sill Nose specifications. For other Trim Options refer to the Unit Sizing, Rough Opening & Masonry Openings page.

SCALE: 1/4" = 1'

CASEMENT QUARTER ROUND UNITS

M.O. BRICKMOULD 21 1/4"(540)
M.O. ADAMS/FLAT CASING 24 5/16"(617)
ROUGH OPENING 18 3/4"(476)
FRAME SIZE 18"(457)
DAYLIGHT OPENING 14 17/64"(362)

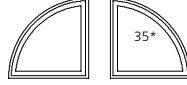
21 5/16"(541)
22 7/8"(581)
19 3/4"(502)
18"(457)
14 17/64"(362)



CW18QRDS

23 1/4"(591)
26 5/16"(668)
20 3/4"(527)
20"(508)
16 17/64"(413)

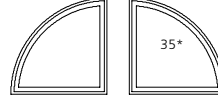
23 5/16"(592)
24 7/8"(632)
21 3/4"(552)
20"(508)
16 17/64"(413)



CW20QRDS

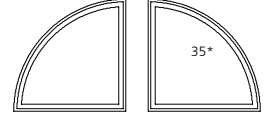
27 1/4"(692)
30 5/16"(770)
24 3/4"(629)
24"(610)
20 17/64"(515)

27 5/16"(694)
28 7/8"(733)
25 3/4"(654)
24"(610)
20 17/64"(515)



CW24QRDS

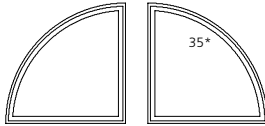
31 5/16"(795)
32 7/8"(835)
29 3/4"(756)
28"(711)
24 17/64"(616)



CW28QRDS

M.O. BRICKMOULD 33 1/4"(845)
M.O. ADAMS/FLAT CASING 36 5/16"(922)
ROUGH OPENING 30 3/4"(781)
FRAME SIZE 30"(762)
DAYLIGHT OPENING 26 17/64"(667)

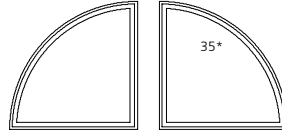
33 5/16"(846)
34 7/8"(886)
31 3/4"(806)
30"(762)
26 17/64"(667)



CW30QRDS

35 1/4"(895)
38 5/16"(973)
32 3/4"(832)
32"(813)
28 17/64"(718)

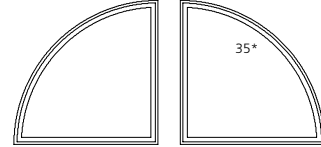
35 5/16"(897)
36 7/8"(937)
33 3/4"(857)
32"(813)
28 17/64"(718)



CW32QRDS

39 1/4"(997)
42 5/16"(1074)
36 3/4"(933)
36"(914)
32 17/64"(820)

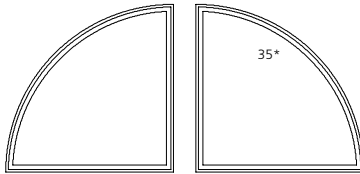
39 5/16"(999)
40 7/8"(1038)
37 3/4"(959)
36"(914)
32 17/64"(820)



CW36QRDS

M.O. BRICKMOULD 45 1/4"(1149)
M.O. ADAMS/FLAT CASING 48 5/16"(1227)
ROUGH OPENING 42 3/4"(1086)
FRAME SIZE 42"(1067)
DAYLIGHT OPENING 38 17/64"(972)

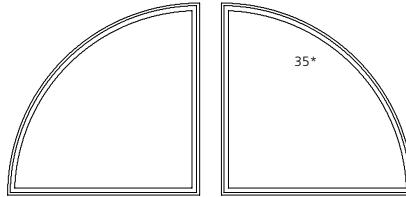
45 5/16"(1151)
46 7/8"(1191)
43 3/4"(1111)
42"(1067)
38 17/64"(972)



CW42QRDS

51 1/4"(1302)
54 5/16"(1379)
48 3/4"(1238)
48"(1219)
44 17/64"(1124)

51 5/16"(1303)
52 7/8"(1343)
49 3/4"(1264)
48"(1219)
44 17/64"(1124)



CW48QRDS

ELEVATION SYMBOL LEGEND:

M.O. = MASONRY OPENING

VALUES IN () ARE IN MILLIMETER CONVERSIONS.

NUMBER INDICATES DESIGN PRESSURE (DP) RATING WITH STANDARD GLAZING.

Note: Elevations shown DO NOT have exterior trim. Subtract 1/2" (12.7) from M.O. (Masonry Opening) for Unit Sizes. Masonry Openings above include Sill Nose, see Trim Options page for Sill Nose specifications. For other Trim Options refer to the Unit Sizing, Rough Opening & Masonry Openings page.

SCALE: 1/4" = 1'

DOUBLE-HUNG HALF ROUND UNITS

<p>M.O. BRICKMOULD M.O. ADAMS/FLAT CASING ROUGH OPENING FRAME SIZE DAYLIGHT OPENING</p>	<p>24 5/8" (625) 27 11/16" (703) 22 1/8" (562) 21 3/8" (543) 17 53/64" (453)</p>	<p>28 5/8" (727) 31 11/16" (805) 26 1/8" (664) 25 3/8" (645) 21 53/64" (554)</p>	<p>32 5/8" (829) 35 11/16" (906) 30 1/8" (765) 29 3/8" (746) 25 53/64" (656)</p>	<p>36 5/8" (930) 39 11/16" (1008) 34 1/8" (867) 33 3/8" (848) 29 53/64" (758)</p>	<p>40 5/8" (1032) 43 11/16" (1109) 38 1/8" (968) 37 3/8" (949) 33 53/64" (859)</p>
<p>14" (356) 15 9/16" (395) 12 7/16" (316) 10 11/16" (271) 7 7/16" (189)</p>	<p>16" (406) 17 9/16" (446) 14 7/16" (367) 12 11/16" (322) 9 7/16" (240)</p>	<p>18" (457) 19 9/16" (497) 16 7/16" (417) 14 11/16" (373) 11 7/16" (290)</p>	<p>20" (508) 21 9/16" (548) 18 7/16" (468) 16 11/16" (424) 13 7/16" (341)</p>	<p>22" (559) 23 9/16" (598) 20 7/16" (519) 18 11/16" (475) 15 7/16" (392)</p>	
	CWD21HRDS	CWD25HRDS	CWD29HRDS	CWD33HRDS	CWD37HRDS
<p>M.O. BRICKMOULD M.O. ADAMS/FLAT CASING ROUGH OPENING FRAME SIZE DAYLIGHT OPENING</p>	<p>44 5/8" (1133) 47 11/16" (1211) 42 1/8" (1070) 41 3/8" (1051) 37 53/64" (961)</p>	<p>48 5/8" (1235) 51 11/16" (1313) 46 1/8" (1172) 45 3/8" (1153) 41 53/64" (1062)</p>	<p>46" (1168) 49 1/16" (1246) 43 1/2" (1105) 42 3/4" (1086) 39 23/64" (1000)</p>	<p>54" (1372) 57 1/16" (1449) 51 1/2" (1308) 50 3/4" (1289) 47 23/64" (1203)</p>	
<p>24" (610) 25 9/16" (649) 22 7/16" (570) 20 11/16" (525) 17 7/16" (443)</p>	<p>26" (660) 27 9/16" (700) 24 7/16" (621) 22 11/16" (576) 19 7/16" (494)</p>	<p>24 11/16" (627) 26 1/4" (667) 23 1/8" (587) 21 3/8" (543) 18 1/8" (460)</p>	<p>28 11/16" (729) 30 1/4" (768) 27 1/8" (688) 25 3/8" (645) 22 1/8" (562)</p>		
	CWD41HRDS	CWD45HRDS	CWD21-2HRDS	CWD25-2HRDS	
<p>M.O. BRICKMOULD M.O. ADAMS/FLAT CASING ROUGH OPENING FRAME SIZE DAYLIGHT OPENING</p>	<p>62" (1575) 65 1/16" (1652) 59 1/2" (1511) 58 3/4" (1492) 55 23/64" (1406)</p>	<p>70" (1778) 73 1/16" (1855) 67 1/2" (1715) 66 3/4" (1695) 63 23/64" (1609)</p>	<p>78" (1981) 81 1/16" (2059) 75 1/2" (1918) 74 3/4" (1899) 71 23/64" (1813)</p>		
<p>32 11/16" (830) 34 1/4" (870) 31 1/8" (791) 29 3/8" (746) 26 1/8" (664)</p>	<p>36 11/16" (932) 38 1/4" (972) 35 1/8" (892) 33 3/8" (848) 30 1/8" (765)</p>	<p>40 11/16" (1033) 42 1/4" (1073) 39 1/8" (994) 37 3/8" (949) 34 1/8" (867)</p>			
	CWD29-2HRDS	CWD33-2HRDS	CWD37-2HRDS		
<p>M.O. BRICKMOULD M.O. ADAMS/FLAT CASING ROUGH OPENING FRAME SIZE DAYLIGHT OPENING</p>	<p>86" (2184) 89 1/16" (2262) 83 1/2" (2121) 82 3/4" (2102) 79 23/64" (2016)</p>	<p>94" (2388) 97 1/16" (2465) 91 1/2" (2324) 90 3/4" (2305) 87 23/64" (2219)</p>			
<p>44 11/16" (1135) 46 1/4" (1175) 43 1/8" (1095) 41 3/8" (1051) 38 1/8" (968)</p>	<p>48 11/16" (1237) 50 1/4" (1276) 47 1/8" (1197) 45 3/8" (1153) 42 1/8" (1070)</p>				
	CWD41-2HRDS	CWD45-2HRDS			

ELEVATION SYMBOL LEGEND:
M.O. = MASONRY OPENING
 VALUES IN () ARE IN MILLIMETER CONVERSIONS.
##* NUMBER INDICATES DESIGN PRESSURE (DP) RATING WITH STANDARD GLAZING.

Note: Elevations shown DO NOT have exterior trim. Subtract 1/2" (12.7) from M.O. (Masonry Opening) for Unit Sizes. Masonry Openings above include Sill Nose, see Trim Options page for Sill Nose specifications. For other Trim Options refer to the Unit Sizing, Rough Opening & Masonry Openings page.

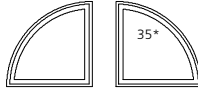
SCALE: 1/4" = 1'

DOUBLE-HUNG QUARTER ROUND UNITS

M.O. BRICKMOUND
M.O. ADAMS/FLAT CASING
ROUGH OPENING
FRAME SIZE
DAYLIGHT OPENING

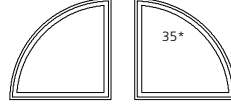
24 5/8" (625)
27 11/16" (703)
22 1/8" (562)
21 3/8" (543)
17 43/64" (449)

24 11/64" (627)
26 1/4" (667)
23 1/8" (587)
21 3/8" (543)
17 43/64" (449)



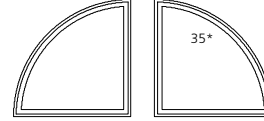
CWD21QRDS

28 11/64" (729)
30 1/4" (768)
27 1/8" (689)
25 3/8" (645)
21 43/64" (550)



CWD25QRDS

32 11/64" (830)
34 1/4" (870)
31 1/8" (791)
29 3/8" (746)
25 43/64" (652)

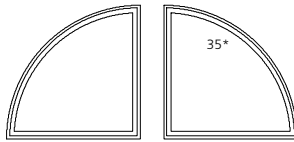


CWD29QRDS

M.O. BRICKMOUND
M.O. ADAMS/FLAT CASING
ROUGH OPENING
FRAME SIZE
DAYLIGHT OPENING

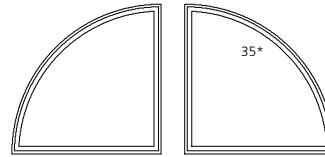
36 5/8" (930)
39 11/16" (1008)
34 1/8" (867)
33 3/8" (848)
29 43/64" (754)

36 11/64" (932)
38 1/4" (972)
35 1/8" (892)
33 3/8" (848)
29 43/64" (754)



CWD33QRDS

40 11/64" (1033)
42 1/4" (1073)
39 1/8" (994)
37 3/8" (949)
33 43/64" (855)

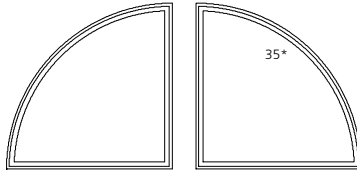


CWD37QRDS

M.O. BRICKMOUND
M.O. ADAMS/FLAT CASING
ROUGH OPENING
FRAME SIZE
DAYLIGHT OPENING

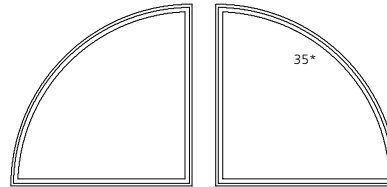
44 5/8" (1133)
47 11/16" (1211)
42 1/8" (1070)
41 3/8" (1051)
37 43/64" (957)

44 11/64" (1135)
46 1/4" (1175)
43 1/8" (1095)
41 3/8" (1051)
37 43/64" (957)



CWD41QRDS

48 11/64" (1237)
50 1/4" (1276)
47 1/8" (1197)
45 3/8" (1153)
41 43/64" (1058)



CWD47QRDS













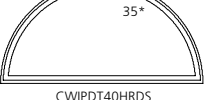



ELEVATION SYMBOL LEGEND:

M.O. = MASONRY OPENING
VALUES IN () ARE IN MILLIMETER CONVERSIONS.
##* NUMBER INDICATES DESIGN PRESSURE (DP) RATING WITH STANDARD GLAZING.

Note: Elevations shown DO NOT have exterior trim. Subtract 1/2" (12.7) from M.O. (Masonry Opening) for Unit Sizes. Masonry Openings above include Sill Nose, see Trim Options page for Sill Nose specifications. For other Trim Options refer to the Unit Sizing, Rough Opening & Masonry Openings page.

SCALE: 1/4" = 1'

IN-SWING PATIO DOOR HALF ROUND UNITS

M.O. BRICKMOULD M.O. ADAMS/FLAT CASING ROUGH OPENING FRAME SIZE DAYLIGHT OPENING	26 11/16" (678) 29 3/4" (755) 24 3/16" (614) 23 7/16" (595) 19 31/64" (495)	32 11/16" (830) 35 3/4" (908) 30 3/16" (767) 29 7/16" (748) 25 31/64" (648)	34 11/16" (881) 37 3/4" (959) 32 3/16" (818) 31 7/16" (799) 27 31/64" (698)	38 11/16" (983) 41 3/4" (1060) 36 3/16" (919) 35 7/16" (900) 31 31/64" (800)	49 7/8" (1267) 52 15/16" (1344) 47 3/8" (1203) 46 5/8" (1184) 42 27/32" (1088)	15 1/16" (382) 16 5/8" (421) 13 1/2" (343) 11 3/4" (298) 8 3/32" (206)		18 1/16" (458) 19 5/8" (498) 16 1/2" (419) 14 3/4" (374) 11 3/32" (282)		19 1/16" (483) 20 5/8" (523) 17 1/2" (445) 15 3/4" (399) 12 3/32" (307)		21 1/16" (533) 24 5/8" (610) 19 1/2" (495) 17 3/4" (450) 14 3/32" (358)		26 5/8" (676) 28 3/16" (716) 23 1/16" (587) 23 5/16" (592) 19 11/16" (500)	
M.O. BRICKMOULD M.O. ADAMS/FLAT CASING ROUGH OPENING FRAME SIZE DAYLIGHT OPENING	61 7/8" (1572) 64 15/16" (1649) 59 3/8" (1508) 58 5/8" (1489) 54 27/32" (1393)	65 7/8" (1673) 68 15/16" (1751) 63 3/8" (1610) 62 5/8" (1591) 58 27/32" (1495)	73 7/8" (1876) 76 15/16" (1954) 71 3/8" (1813) 70 5/8" (1794) 66 27/32" (1698)	32 5/8" (829) 34 3/16" (868) 31 1/16" (789) 29 5/16" (745) 25 11/16" (652)		34 5/8" (879) 36 3/16" (919) 33 1/16" (840) 31 5/16" (795) 27 11/16" (703)		38 5/8" (981) 40 3/16" (1021) 37 1/16" (941) 35 5/16" (897) 31 11/16" (805)							
M.O. BRICKMOULD M.O. ADAMS/FLAT CASING ROUGH OPENING FRAME SIZE DAYLIGHT OPENING	28 11/16" (729) 31 3/4" (806) 26 3/16" (665) 25 7/16" (646) 21 31/64" (546)	36 11/16" (932) 39 3/4" (1009) 34 3/16" (868) 33 7/16" (849) 29 31/64" (749)	40 11/16" (1033) 43 3/4" (1111) 38 3/16" (970) 37 7/16" (951) 33 31/64" (850)	46 11/16" (1186) 49 3/4" (1263) 44 3/16" (1122) 43 7/16" (1103) 39 31/64" (1003)	16 1/16" (407) 17 5/8" (447) 14 1/2" (368) 12 3/4" (323) 9 3/32" (231)		20 1/16" (509) 21 5/8" (548) 18 1/2" (470) 16 3/4" (425) 13 3/32" (333)		22 1/16" (560) 23 5/8" (599) 20 1/2" (521) 18 3/4" (475) 15 3/32" (383)		25 1/16" (636) 26 5/8" (675) 23 1/2" (597) 21 3/4" (552) 18 3/32" (460)				
M.O. BRICKMOULD M.O. ADAMS/FLAT CASING ROUGH OPENING FRAME SIZE DAYLIGHT OPENING	53 7/8" (1368) 56 15/16" (1446) 51 3/8" (1305) 50 5/8" (1286) 46 27/32" (1190)	69 7/8" (1775) 72 15/16" (1852) 67 3/8" (1711) 66 5/8" (1692) 62 27/32" (1596)	77 7/8" (1978) 80 15/16" (2055) 75 3/8" (1915) 74 5/8" (1895) 70 27/32" (1799)	28 5/8" (725) 31 3/16" (803) 27 1/16" (687) 25 5/16" (643) 21 11/16" (551)		36 5/8" (930) 38 3/16" (970) 35 1/16" (891) 33 5/16" (846) 29 11/16" (754)		40 5/8" (1032) 42 3/16" (1072) 39 1/16" (992) 37 5/16" (948) 33 11/16" (856)							
M.O. BRICKMOULD M.O. ADAMS/FLAT CASING ROUGH OPENING FRAME SIZE DAYLIGHT OPENING	89 7/8" (2283) 92 15/16" (2360) 87 3/8" (2219) 86 5/8" (2200) 82 27/32" (2104)	46 5/8" (1184) 48 3/16" (1224) 45 1/16" (1145) 43 5/16" (1100) 39 11/16" (1008)													

ELEVATION SYMBOL LEGEND:

M.O. = MASONRY OPENING
 VALUES IN () ARE IN MILLIMETER CONVERSIONS.
 ### NUMBER INDICATES DESIGN PRESSURE (DP) RATING WITH STANDARD GLAZING.

Note: Elevations shown DO NOT have exterior trim. Subtract 1/2" (12.7) from M.O. (Masonry Opening) for Unit Sizes. Masonry Openings above include Sill Nose, see Trim Options page for Sill Nose specifications. For other Trim Options refer to the Unit Sizing, Rough Opening & Masonry Openings page.

SCALE: 1/4" = 1'

OUT-SWING PATIO DOOR HALF ROUND UNITS

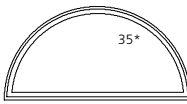
**M.O. BRICKMOULD
M.O. ADAMS/FLAT CASING
ROUGH OPENING
FRAME SIZE
DAYLIGHT OPENING**

49 7/8" (1267)
52 15/16" (1344)
47 3/8" (1203)
46 5/8" (1184)
42 27/32" (1088)

61 7/8" (1572)
64 15/16" (1649)
59 3/8" (1508)
58 5/8" (1489)
54 27/32" (1393)

65 7/8" (1673)
68 15/16" (1751)
63 3/8" (1610)
62 5/8" (1591)
58 27/32" (1495)

26 5/8" (676)
28 3/16" (716)
24 1/16" (611)
23 5/16" (592)
19 11/16" (500)



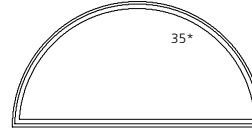
CWOPD40HRDS

32 5/8" (829)
34 3/16" (868)
30 7/16" (764)
29 3/16" (745)
25 11/16" (652)



CWOPD50HRDS

34 5/8" (879)
36 3/16" (919)
32 1/16" (814)
31 5/16" (795)
27 11/16" (703)

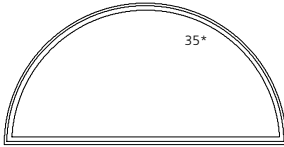


CWOPD54HRDS

**M.O. BRICKMOULD
M.O. ADAMS/FLAT CASING
ROUGH OPENING
FRAME SIZE
DAYLIGHT OPENING**

73 7/8" (1876)
76 15/16" (1954)
71 3/8" (1813)
70 5/8" (1794)
66 27/32" (1698)

38 5/8" (981)
40 3/16" (1021)
36 1/16" (916)
35 5/16" (897)
31 11/16" (805)



CWOPD60HRDS

**M.O. BRICKMOULD
M.O. ADAMS/FLAT CASING
ROUGH OPENING
FRAME SIZE
DAYLIGHT OPENING**

28 11/16" (729)
31 3/4" (806)
26 3/16" (665)
25 7/16" (646)
21 31/64" (546)

36 11/16" (932)
39 3/4" (1009)
34 3/16" (868)
33 7/16" (849)
29 31/64" (749)

40 11/16" (1033)
43 3/4" (1111)
38 3/16" (970)
37 7/16" (951)
33 31/64" (850)

46 11/16" (1186)
49 3/4" (1263)
44 3/16" (1122)
43 7/16" (1103)
39 31/64" (1003)

16 1/16" (407)
17 5/8" (447)
14 1/2" (368)
12 3/4" (323)
9 3/32" (231)



CWOPDT20HRDS

20 1/16" (509)
21 5/8" (548)
18 1/2" (470)
16 3/4" (425)
13 3/32" (333)



CWOPDT28HRDS

22 1/16" (560)
23 5/8" (599)
20 1/2" (521)
18 3/4" (475)
15 3/32" (383)



CWOPDT30HRDS

25 1/16" (636)
26 5/8" (675)
23 1/2" (587)
21 3/4" (552)
18 3/32" (460)



CWOPDT36HRDS

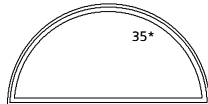
**M.O. BRICKMOULD
M.O. ADAMS/FLAT CASING
ROUGH OPENING
FRAME SIZE
DAYLIGHT OPENING**

53 7/8" (1368)
56 15/16" (1446)
51 3/8" (1305)
50 5/8" (1286)
46 27/32" (1190)

69 7/8" (1775)
72 15/16" (1852)
67 3/8" (1711)
66 5/8" (1692)
62 27/32" (1596)

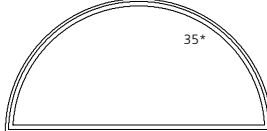
77 7/8" (1978)
80 15/16" (2055)
75 3/8" (1915)
74 5/8" (1895)
70 27/32" (1799)

28 5/8" (725)
31 3/16" (803)
26 1/16" (662)
25 5/16" (643)
21 11/16" (551)



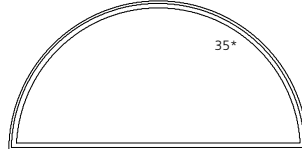
CWOPDT40HRDS

36 5/8" (930)
38 3/16" (970)
34 1/16" (865)
33 5/16" (846)
29 11/16" (754)



CWOPDT54HRDS

40 5/8" (1032)
42 3/16" (1072)
38 1/16" (967)
37 5/16" (948)
33 11/16" (856)

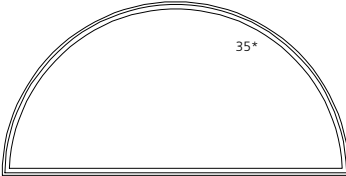


CWOPDT60HRDS

**M.O. BRICKMOULD
M.O. ADAMS/FLAT CASING
ROUGH OPENING
FRAME SIZE
DAYLIGHT OPENING**

89 7/8" (2283)
92 15/16" (2360)
87 3/8" (2219)
86 5/8" (2200)
82 27/32" (2104)

46 5/8" (1184)
48 3/16" (1224)
44 1/16" (1119)
43 5/16" (1100)
39 11/16" (1008)



CWOPDT70HRDS

ELEVATION SYMBOL LEGEND:

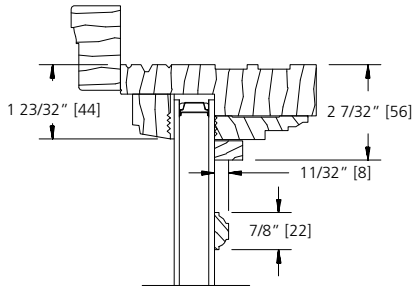
M.O. = MASONRY OPENING
VALUES IN () ARE IN MILLIMETER CONVERSIONS.
NUMBER INDICATES DESIGN PRESSURE (DP) RATING WITH STANDARD GLAZING.

Note: Elevations shown DO NOT have exterior trim. Subtract 1/2" (12.7) from M.O. (Masonry Opening) for Unit Sizes. Masonry Openings above include Sill Nose, see Trim Options page for Sill Nose specifications. For other Trim Options refer to the Unit Sizing, Rough Opening & Masonry Openings page.

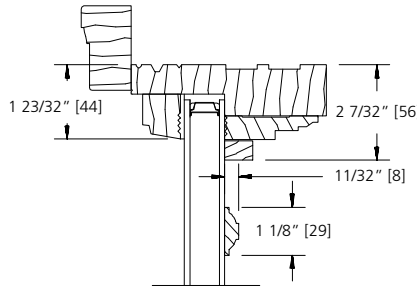
SCALE: 1/4" = 1'

GLAZING OPTIONS

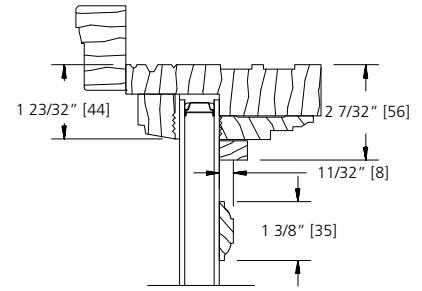
INTERIOR GLAZED
INSULATED 15/16" [24] GLASS



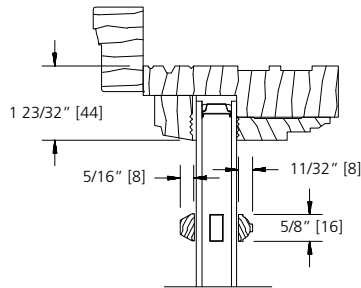
7/8" GRILLE BAR



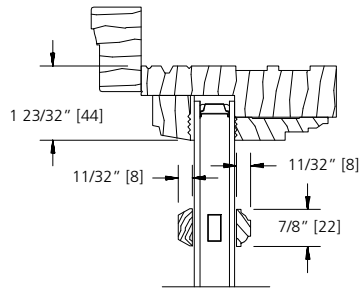
1 1/8" GRILLE BAR



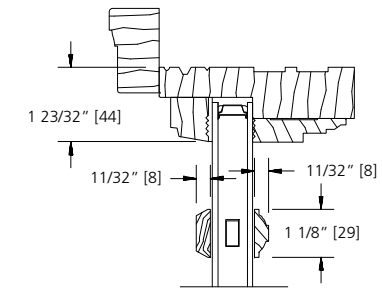
1 3/8" GRILLE BAR



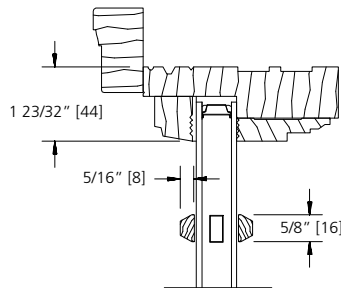
**5/8" SDL BAR
(PUTTY/BEAD)**



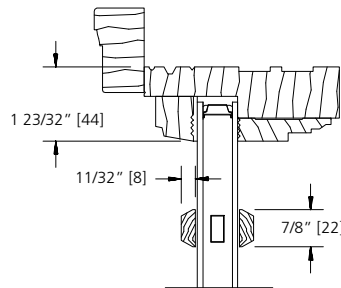
**7/8" SDL BAR
(PUTTY/BEAD)**



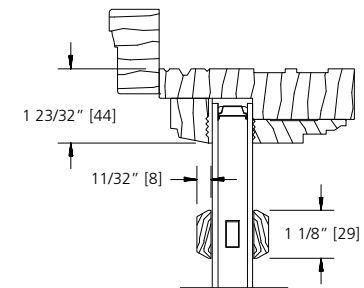
**1 1/8" SDL BAR
(PUTTY/BEAD)**



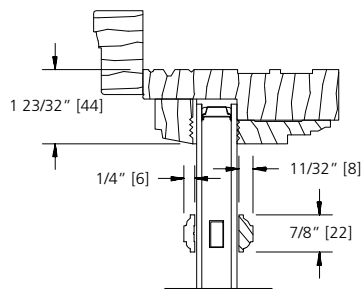
**5/8" SDL BAR
(PUTTY/PUTTY)**



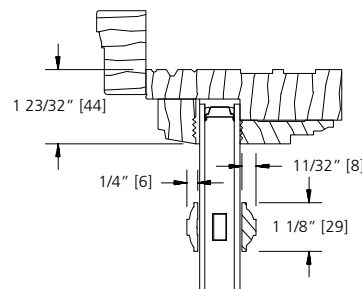
**7/8" SDL BAR
(PUTTY/PUTTY)**



**1 1/8" SDL BAR
(PUTTY/PUTTY)**



**7/8" SDL BAR
(BEAD STOP)**



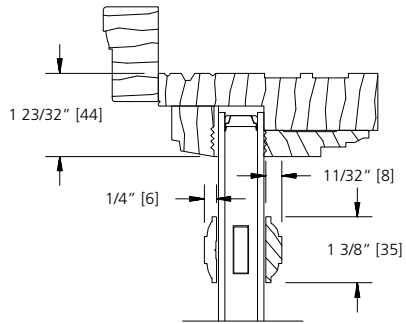
**1 1/8" SDL BAR
(BEAD STOP)**

Continued on next page

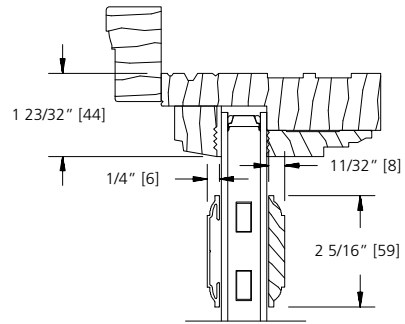
SCALE: 3" = 1'

GLAZING OPTIONS

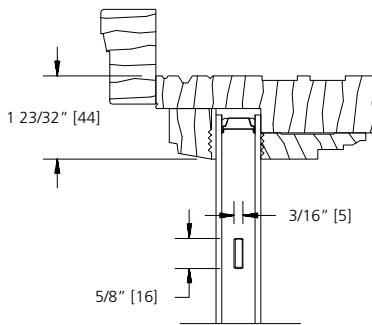
INTERIOR GLAZED
INSULATED 15/16" [24] GLASS



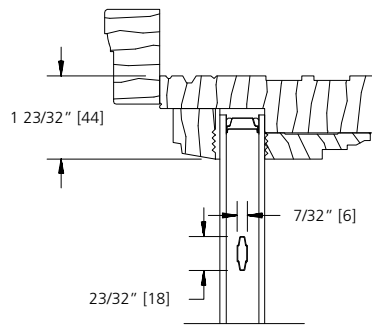
**1 3/8" SDL BAR
(BEAD STOP)**



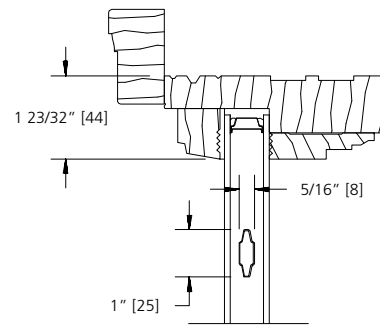
**2 5/16" SDL BAR
(BEAD STOP)**



**5/8" FLAT
AIRSPACE GRILLE**



**23/32" CONTOUR
AIRSPACE GRILLE**

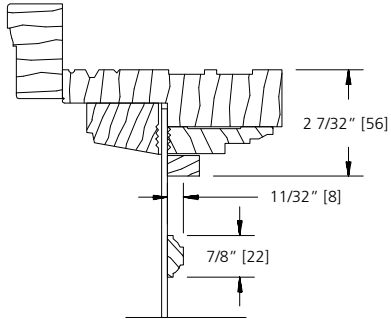


**1" CONTOUR
AIRSPACE GRILLE**

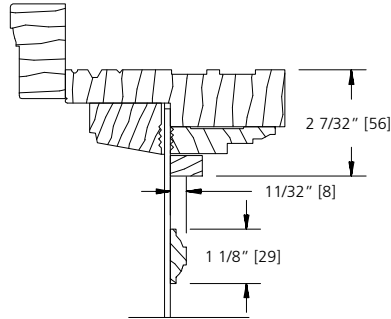
SCALE: 3" = 1'

GLAZING OPTIONS

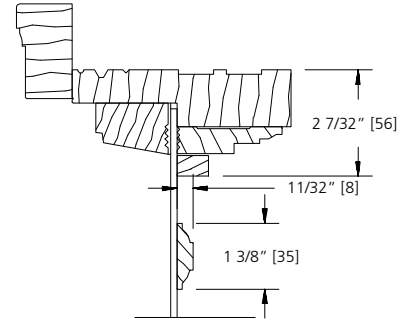
INTERIOR GLAZED
SINGLE GLAZED 1/8" [3] GLASS



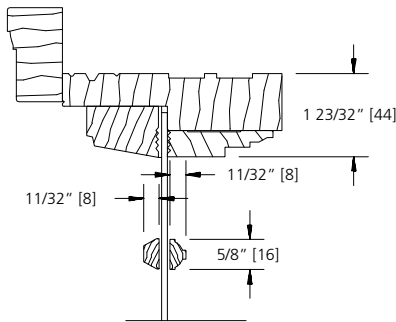
7/8" GRILLE BAR



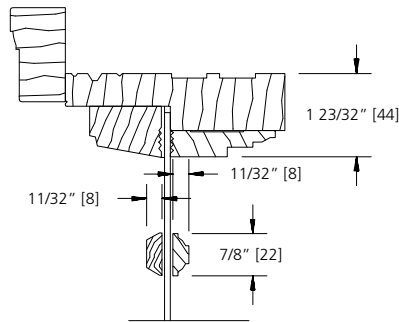
1 1/8" GRILLE BAR



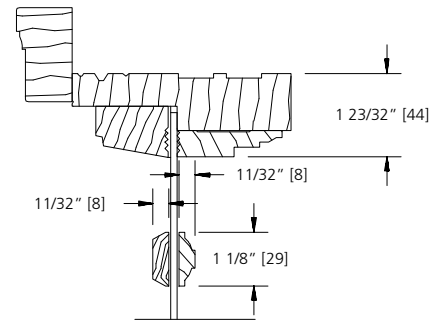
1 3/8" GRILLE BAR



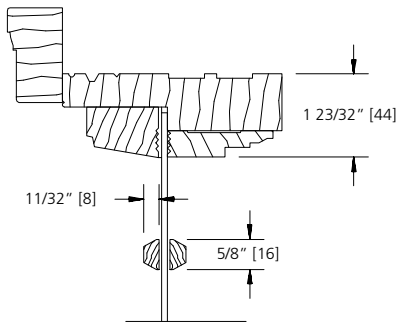
**5/8" SDL BAR
(PUTTY/BEAD)**



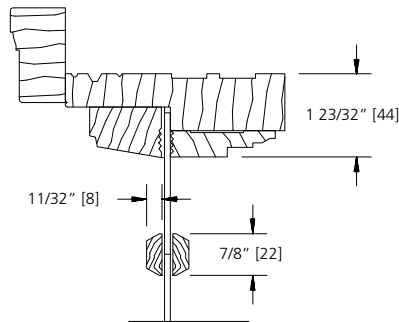
**7/8" SDL BAR
(PUTTY/BEAD)**



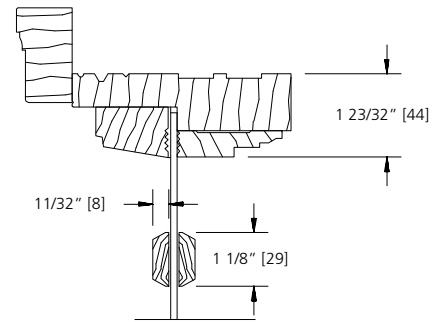
**1 1/8" SDL BAR
(PUTTY/BEAD)**



**5/8" SDL BAR
(PUTTY/PUTTY)**



**7/8" SDL BAR
(PUTTY/PUTTY)**



**1 1/8" SDL BAR
(PUTTY/PUTTY)**

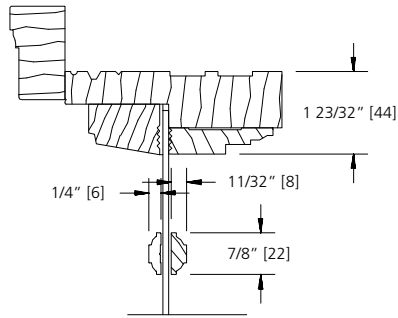
Continued on next page

SCALE: 3" = 1'

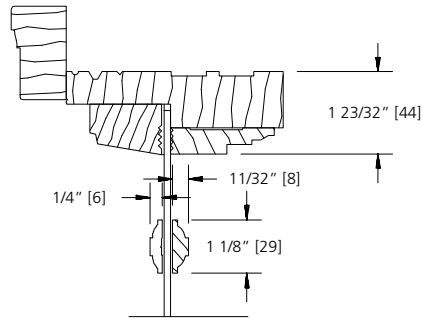
GLAZING OPTIONS

INTERIOR GLAZED

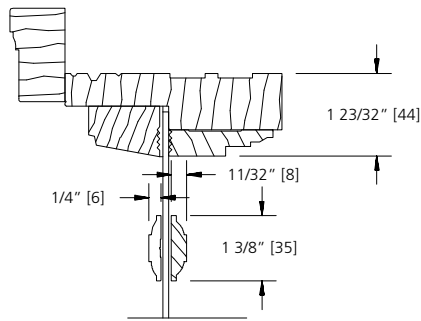
SINGLE GLAZED 1/8" [3] GLASS



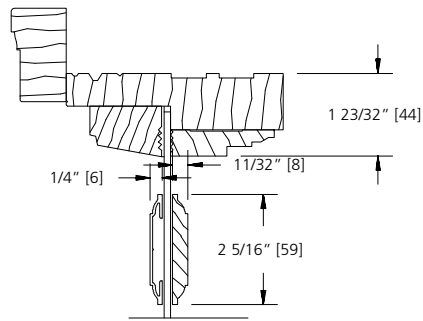
**7/8" SDL BAR
(BEAD STOP)**



**1 1/8" SDL BAR
(BEAD STOP)**



**1 3/8" SDL BAR
(BEAD STOP)**

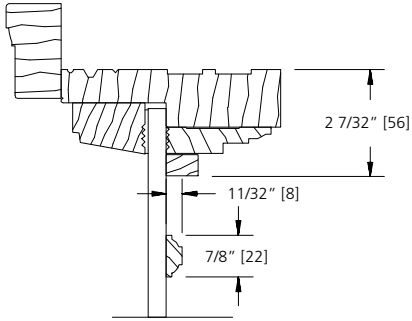


**2 5/16" SDL BAR
(BEAD STOP)**

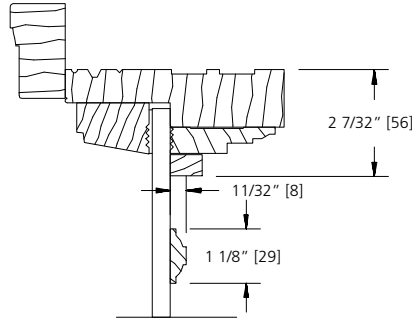
SCALE: 3" = 1'

GLAZING OPTIONS

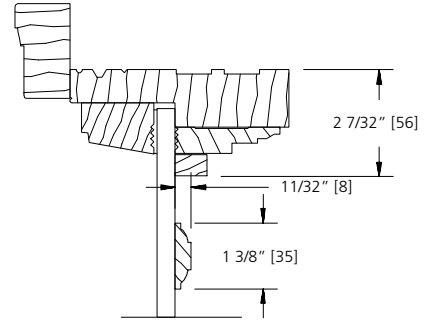
INTERIOR GLAZED
IMPACT RESISTANT GLASS



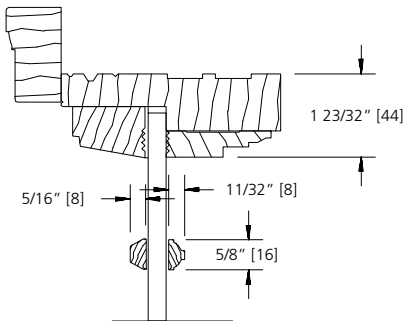
7/8" GRILLE BAR



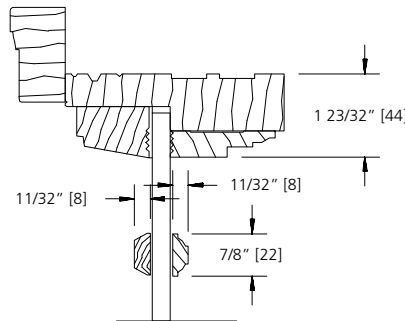
1 1/8" GRILLE BAR



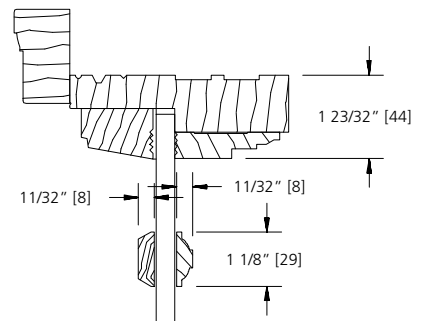
1 3/8" GRILLE BAR



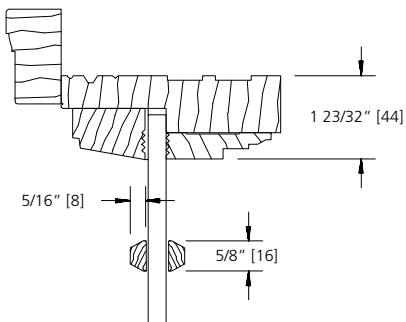
5/8" SDL BAR
(PUTTY/BEAD)



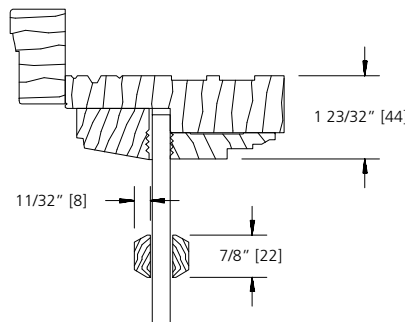
7/8" SDL BAR
(PUTTY/BEAD)



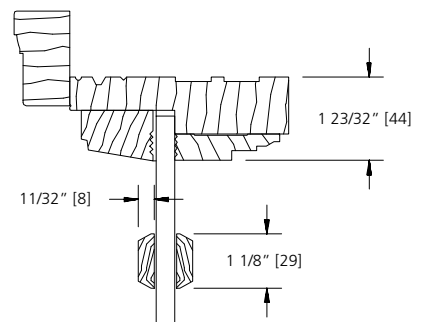
1 1/8" SDL BAR
(PUTTY/BEAD)



5/8" SDL BAR
(PUTTY/PUTTY)



7/8" SDL BAR
(PUTTY/PUTTY)



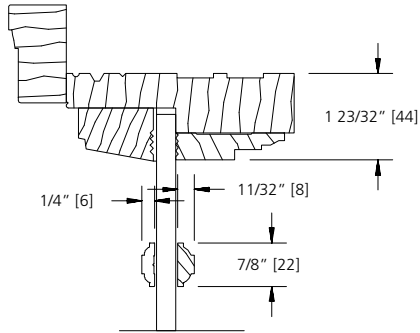
1 1/8" SDL BAR
(PUTTY/PUTTY)

Continued on next page

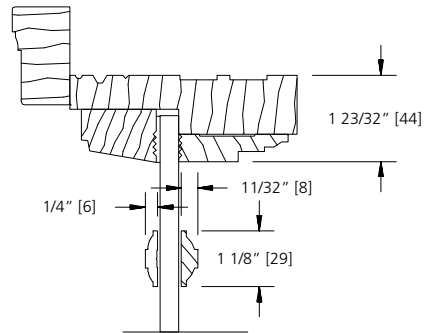
SCALE: 3" = 1'

GLAZING OPTIONS

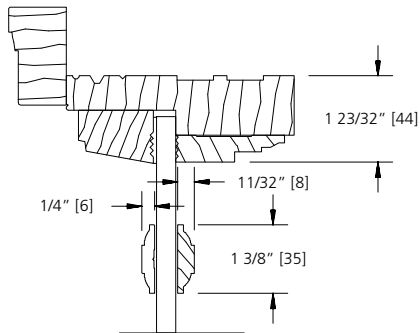
**INTERIOR GLAZED
IMPACT RESISTANT GLASS**



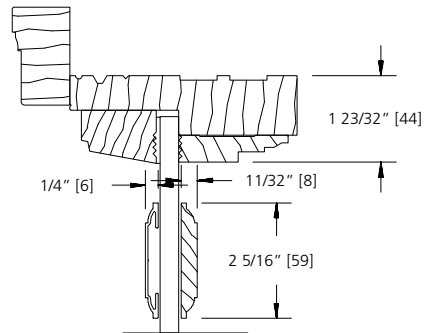
**7/8" SDL BAR
(BEAD STOP)**



**1 1/8" SDL BAR
(BEAD STOP)**



**1 3/8" SDL BAR
(BEAD STOP)**

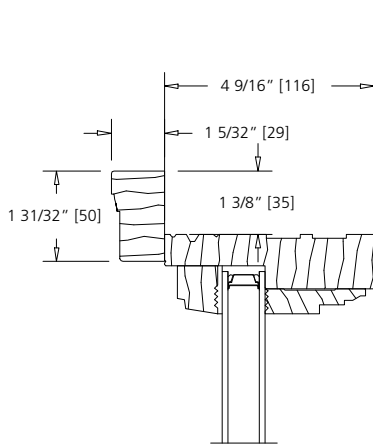


**2 5/16" SDL BAR
(BEAD STOP)**

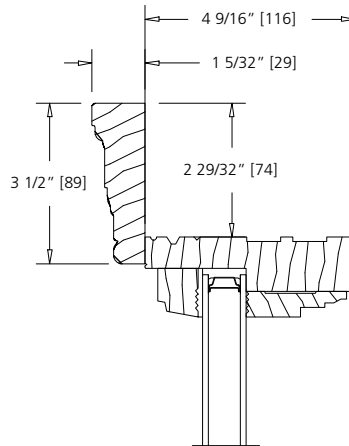
SCALE: 3" = 1'

TRIM OPTIONS

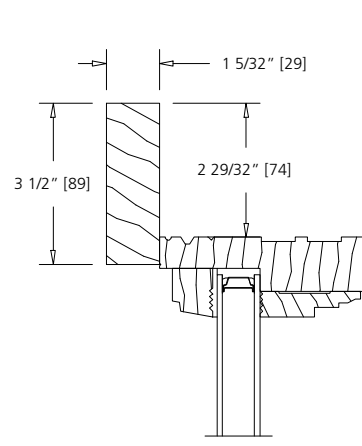
WOOD EXTERIOR TRIM



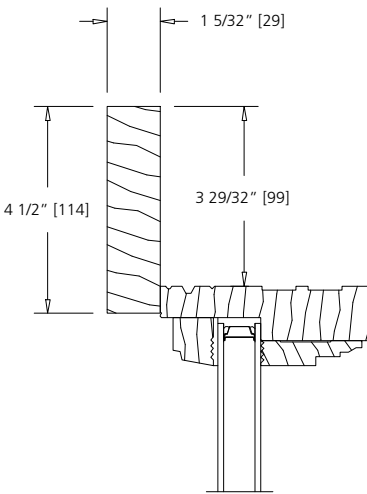
BRICKMOULD CASING



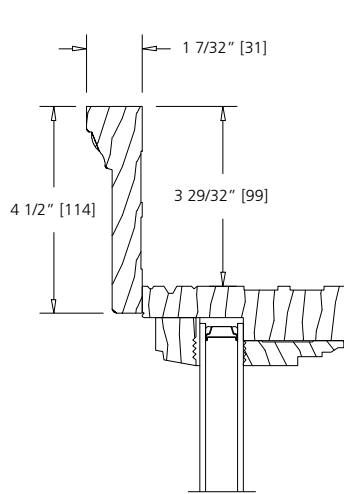
ADAMS CASING



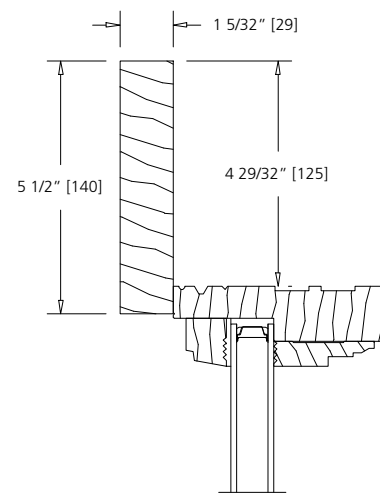
3 1/2" FLAT CASING



4 1/2" FLAT CASING

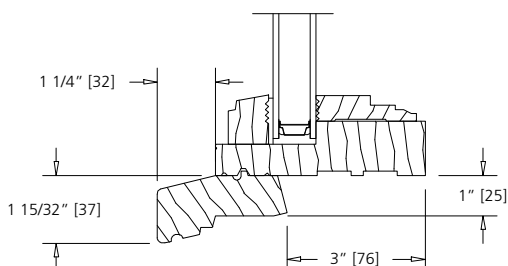


1 X 4 BACKBAND CASING

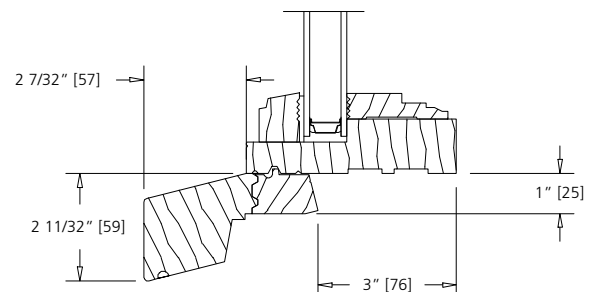


5 1/2" FLAT CASING

WOOD SUBSILL OPTIONS



WOOD SUBSILL



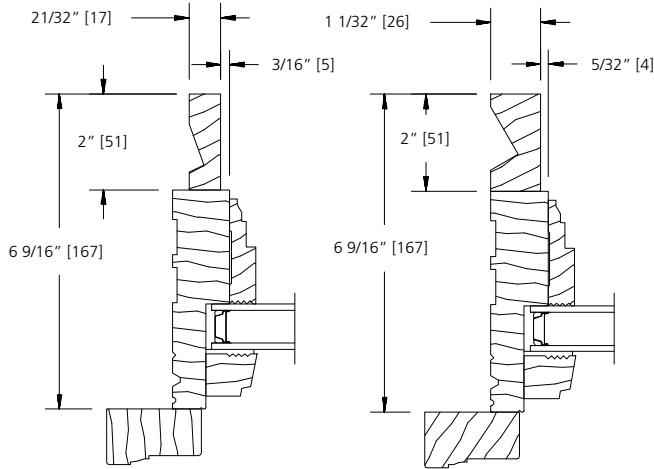
WOOD HISTORICAL SUBSILL

Available on Double-Hung units only

SCALE: 3" = 1'

**JAMB EXTENDER &
STUCCO TRIM OPTIONS**

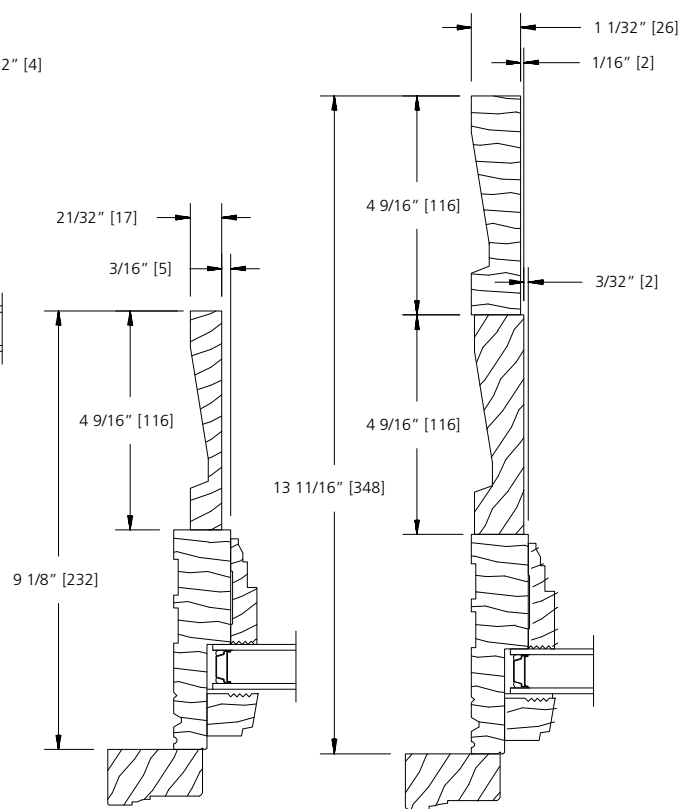
JAMB EXTENDER OPTIONS



**2" 4/4 OPTIONAL
JAMB EXTENDER**

**2" 5/4 OPTIONAL
JAMB EXTENDER**

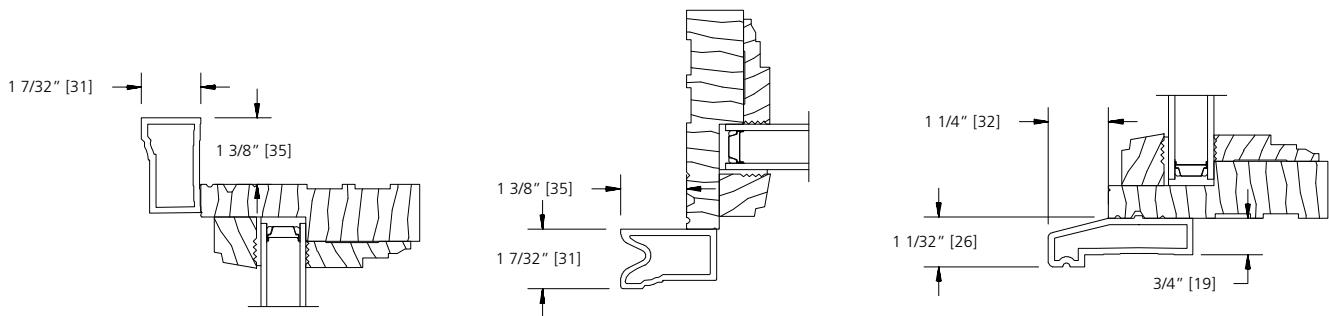
MAXIMUM JAMB WIDTHS



**4 9/16" 4/4 OPTIONAL
JAMB EXTENDER**

**4 9/16" 5/4 OPTIONAL
JAMB EXTENDER**

STUCCO TRIM OPTION



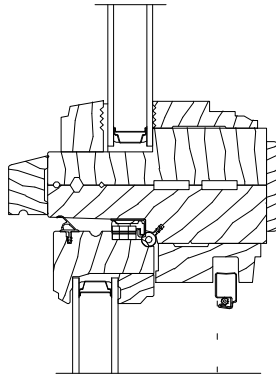
**PVC
HEAD BRICKMOULD**

**PVC
SIDE BRICKMOULD**

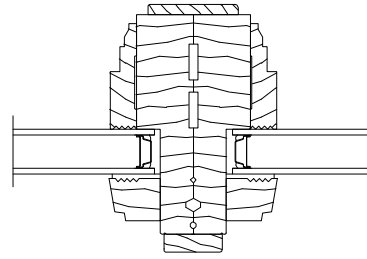
**PVC
SUBSILL**

SCALE: 3" = 1'

**MULLION DETAILS
WITH CUSTOM CASEMENT**

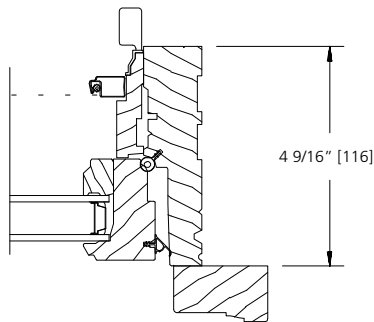


**HORIZONTAL MULLION
DIRECT-SET GEOMETRIC
CUSTOM CASEMENT
4 9/16" & 6 9/16" JAMB**

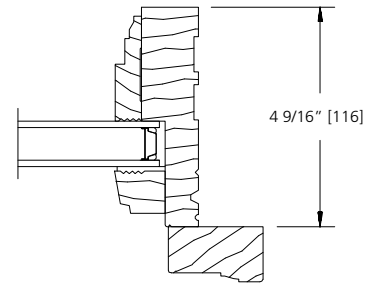


**VERTICAL MULLION
AT DIRECT-SET GEOMETRIC
4 9/16" & 6 9/16" JAMB**

4 9/16" JAMB

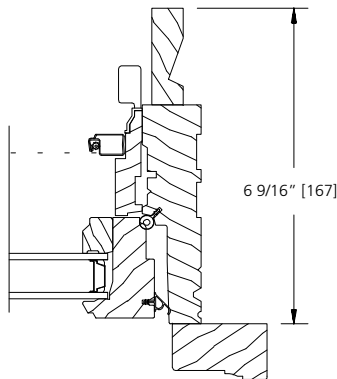


**VERTICAL JAMB
AT CUSTOM CASEMENT**

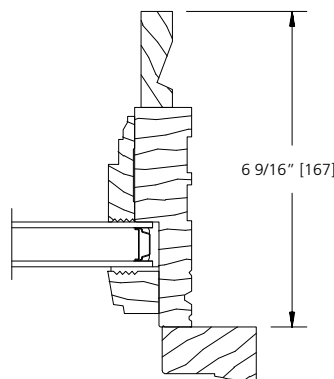


**VERTICAL JAMB
AT DIRECT-SET GEOMETRIC**

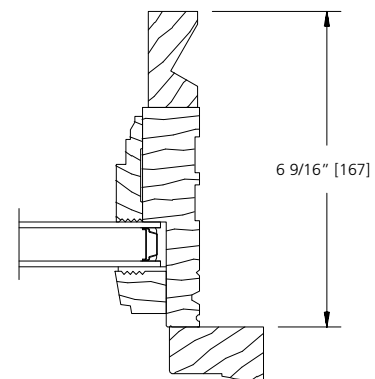
6 9/16" JAMB



**VERTICAL JAMB
AT CUSTOM CASEMENT
4/4 JAMB EXTENDER OPTION**



**VERTICAL JAMB
AT DIRECT-SET GEOMETRIC
4/4 JAMB EXTENDER OPTION**

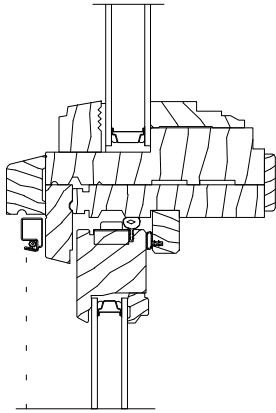


**VERTICAL JAMB
AT DIRECT-SET GEOMETRIC
5/4 JAMB EXTENDER OPTION**

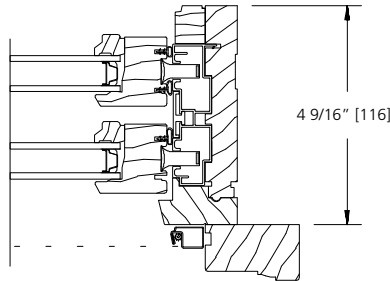
SCALE: 3" = 1'

**MULLION DETAILS
WITH CUSTOM DOUBLE-HUNG**

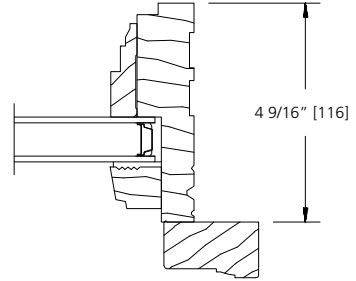
4 9/16" JAMB



**DIRECT-SET GEOMETRIC
CUSTOM DOUBLE-HUNG
HORIZONTAL MULLION**

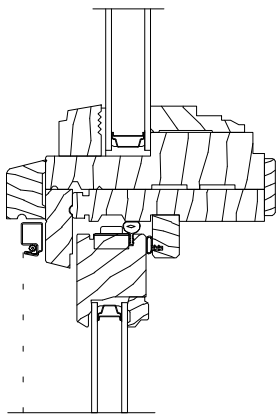


**VERTICAL
AT CUSTOM DOUBLE-HUNG**

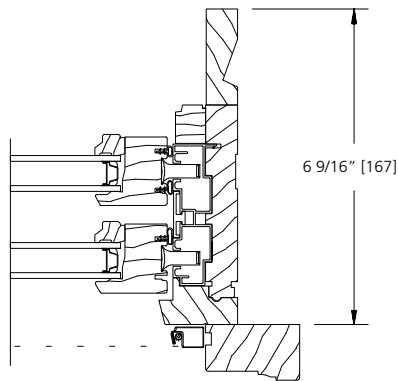


**VERTICAL
AT DIRECT-SET GEOMETRIC**

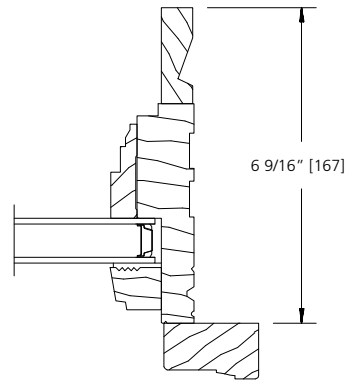
6 9/16" JAMB



**DIRECT-SET GEOMETRIC
CUSTOM DOUBLE-HUNG
HORIZONTAL MULLION**



**VERTICAL
AT CUSTOM DOUBLE-HUNG**

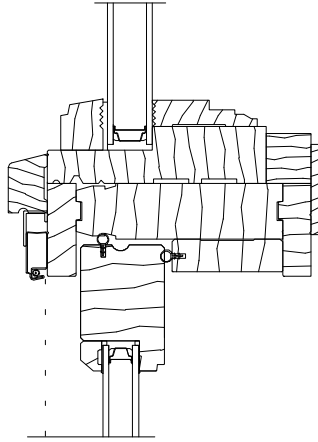


**VERTICAL
AT DIRECT-SET GEOMETRIC**

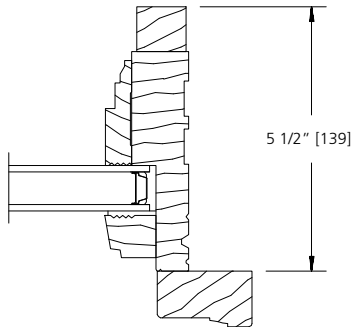
SCALE: 3" = 1'

**MULLION DETAILS
WITH CUSTOM EPIC DOUBLE-HUNG**

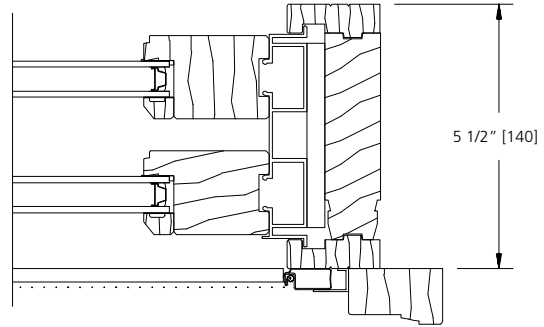
5 1/2" JAMB



**DIRECT-SET GEOMETRIC
CUSTOM DOUBLE-HUNG
HORIZONTAL MULLION**



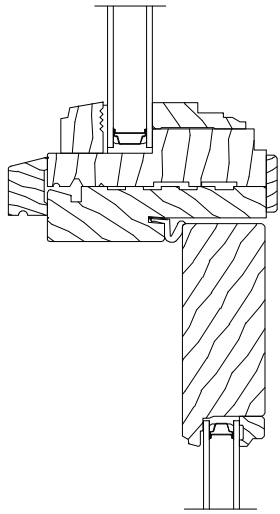
**VERTICAL
AT DIRECT-SET GEOMETRIC**



**VERTICAL JAMB
AT EPIC DOUBLE-HUNG**

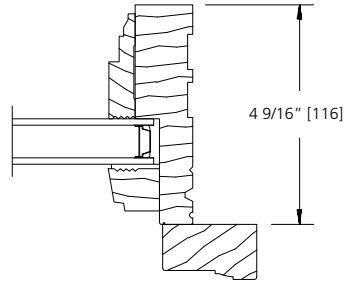
SCALE: 3" = 1'

**MULLION DETAILS
WITH CUSTOM IN-SWING DOOR**

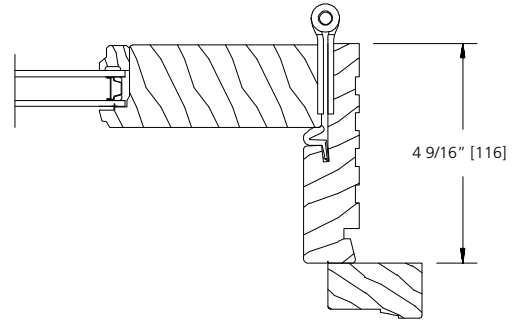


**DIRECT-SET GEOMETRIC
IN-SWING DOOR
HORIZONTAL MULLION**

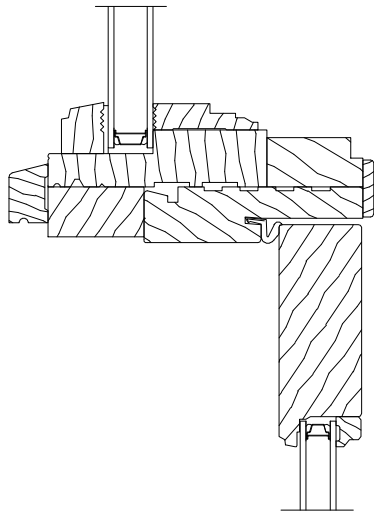
4 9/16" JAMB



**VERTICAL
AT DIRECT-SET GEOMETRIC**

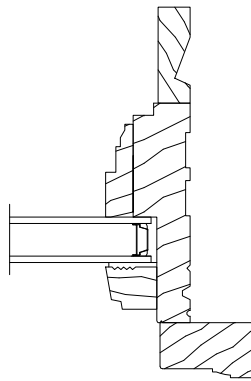


**VERTICAL
AT IN-SWING DOOR**

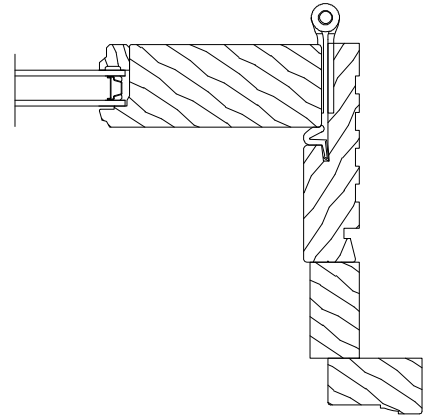


**DIRECT-SET GEOMETRIC
IN-SWING DOOR
HORIZONTAL MULLION**

6 9/16" JAMB



**VERTICAL
AT DIRECT-SET GEOMETRIC**

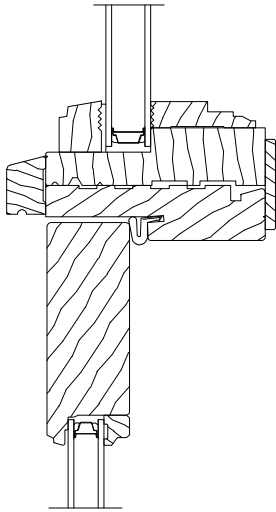


**VERTICAL
AT IN-SWING DOOR**

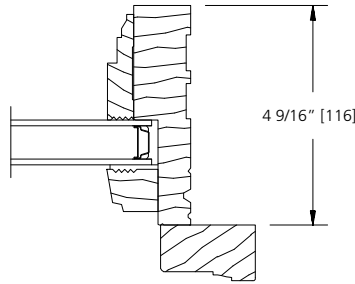
SCALE: 3" = 1'

**MULLION DETAILS
WITH CUSTOM OUT-SWING DOOR**

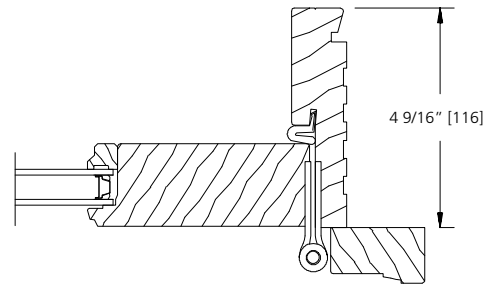
4 9/16" JAMB



WOOD IN-SASH GEOMETRIC
WOOD OUT-SWING DOOR
HORIZONTAL MULLION

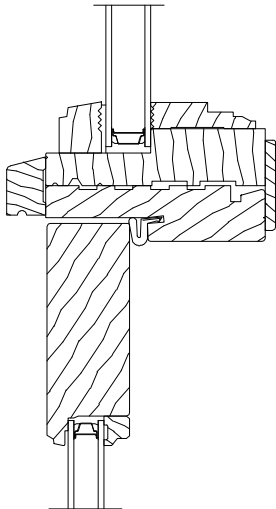


VERTICAL
AT WOOD DIRECT-SET GEOMETRIC

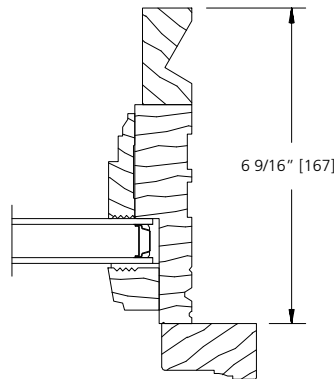


VERTICAL
AT WOOD OUT-SWING DOOR

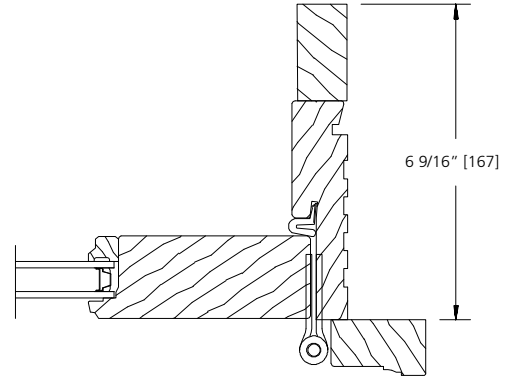
6 9/16" JAMB



WOOD IN-SASH GEOMETRIC
WOOD OUT-SWING DOOR
HORIZONTAL MULLION



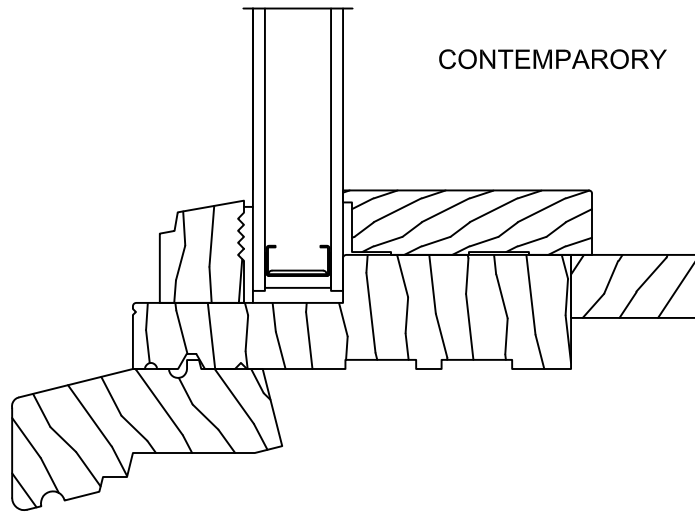
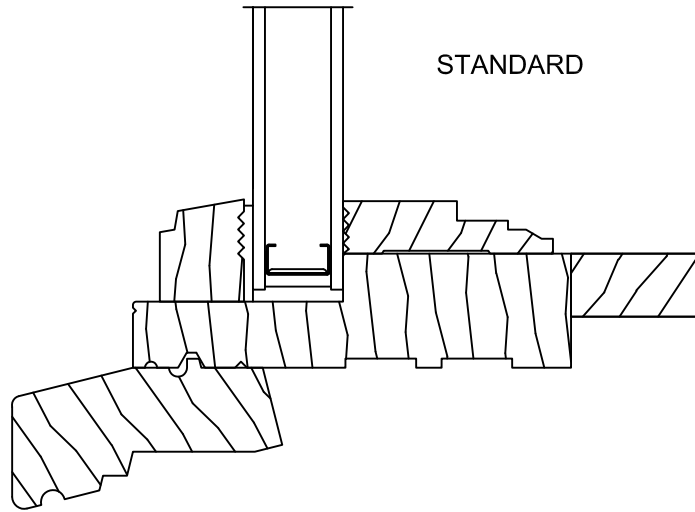
VERTICAL
AT WOOD DIRECT-SET GEOMETRIC



VERTICAL
AT WOOD OUT-SWING DOOR

SCALE: 3" = 1'

CUSTOM DIRECT SET
STOP OPTIONS

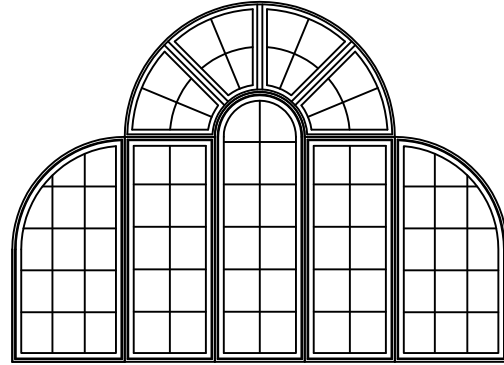


LITE CUT INFORMATION

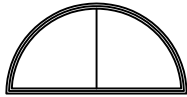
Clad direct set geometric windows are available with removable grilles in 7/8", 1-1/8" and 1-3/8" widths, GBG (Grilles between the glass) and Simulated Divided Lites. Standard lite cuts are rectangular.

BAR ALIGNMENT

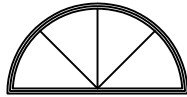
Alignment of divided lite muntin bars from one window to the next is often required by fine architectural design. Wood grilles, GBG (Grilles between the Glass), and Simulated Divided Lites may be specified with muntin bars aligned.



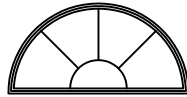
HALF ROUND BREAKUP PATTERNS



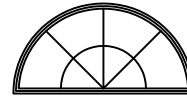
200 SERIES



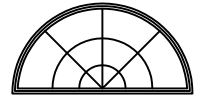
400 SERIES



500 SERIES

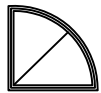


800 SERIES



1200 SERIES

QUARTER ROUND BREAKUP PATTERNS



200 SERIES

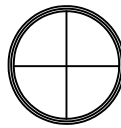


400 SERIES

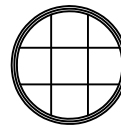


600 SERIES

FULL ROUND BREAKUP PATTERNS

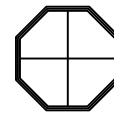


400 SERIES

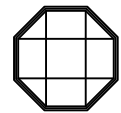


900 SERIES

OCTAGON BREAKUP PATTERNS



400 SERIES



900 SERIES

**STANDARD LITE CUT
CONT'D**

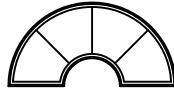
INVERTED RADIUS SILL NOTE:
Inverted radius sills have continuous head and sill configurations. The twin, triple and quad units utilize a mullion post as part of a single unit. Single lines represent grille and thermal bar lite break ups. Twin, triple and quad units are single units with mullion posts being represented by several lines.

INVERTED HALF ROUND BREAKUP PATTERNS

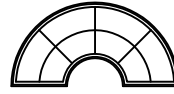
INVERTED HALF ROUND SILL



200 SERIES
RADIUS HUB



400 SERIES

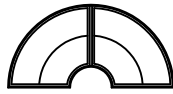


800 SERIES

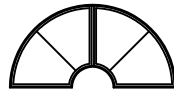


1200 SERIES

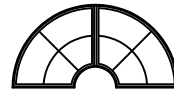
INVERTED HALF ROUND SILL - TWIN



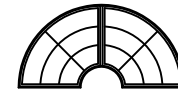
200 SERIES
RADIUS HUB



200 SERIES



400 SERIES



600 SERIES

INVERTED HALF ROUND SILL - TRIPLE



200 SERIES
RADIUS HUB



200 SERIES



400 SERIES



600 SERIES

INVERTED HALF ROUND SILL - QUAD



200 SERIES
RADIUS HUB



200 SERIES



400 SERIES



600 SERIES

INVERTED QUARTER ROUND BREAKUP PATTERNS

INVERTED QUARTER ROUND SILL



200 SERIES
RADIUS HUB



200 SERIES



400 SERIES



600 SERIES

INVERTED QUARTER ROUND SILL - TWIN



200 SERIES
RADIUS HUB



200 SERIES



400 SERIES



600 SERIES

INVERTED QUARTER ROUND SILL - TRIPLE



200 SERIES
RADIUS HUB



200 SERIES



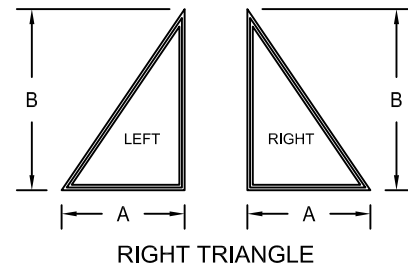
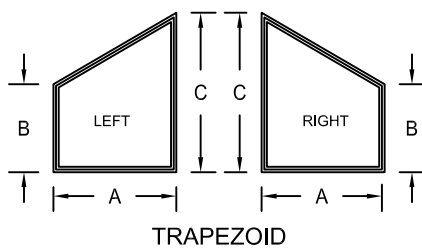
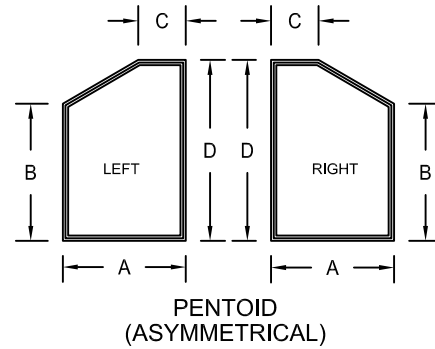
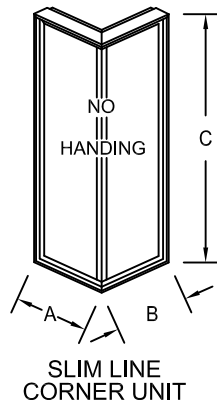
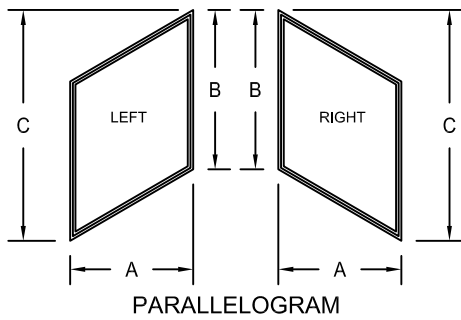
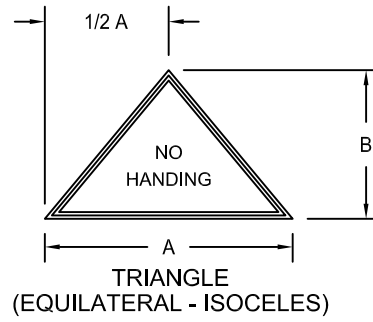
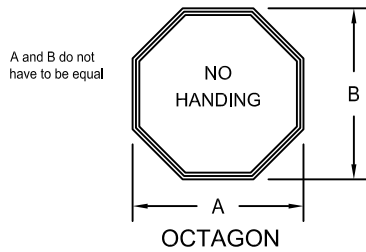
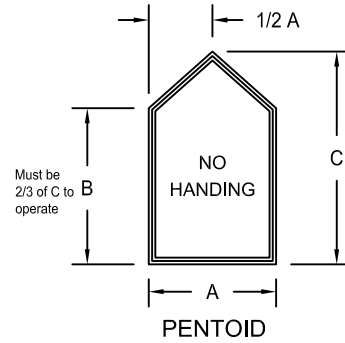
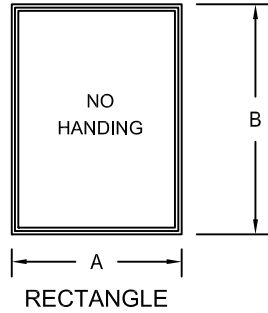
400 SERIES



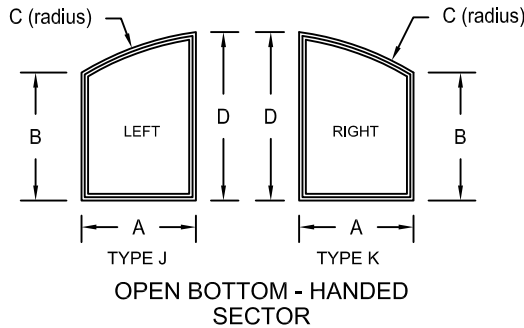
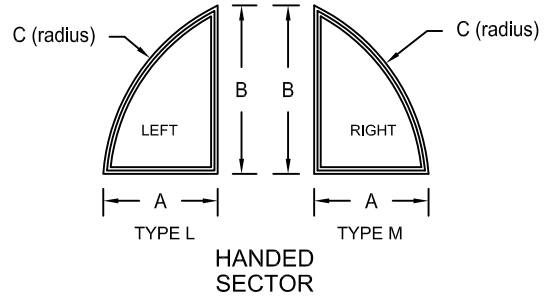
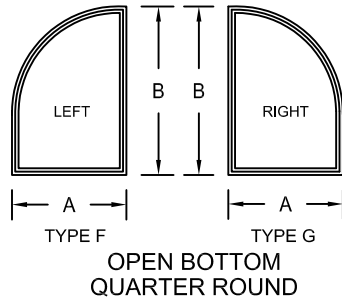
600 SERIES

STRAIGHT LINE SHAPES

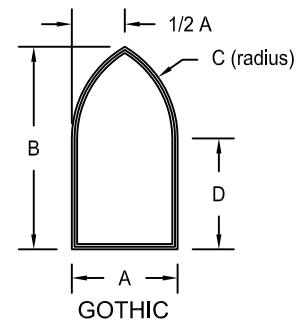
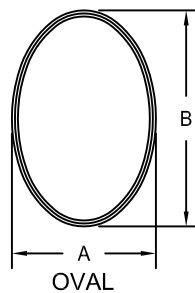
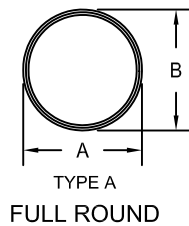
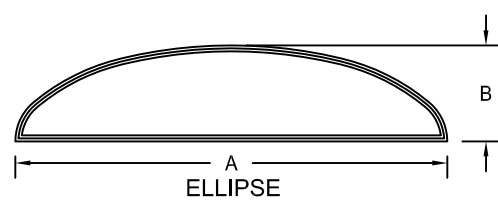
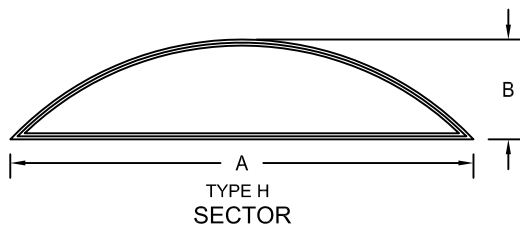
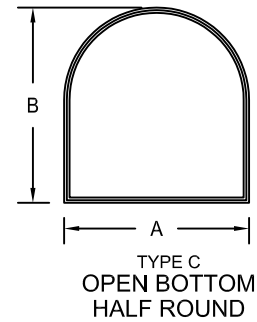
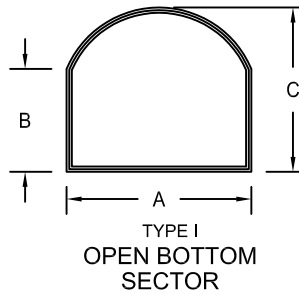
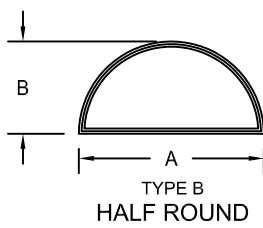
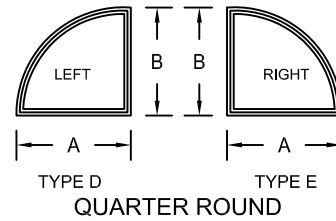
ALL GEOMETRIC WINDOW SHAPES ARE VIEWED FROM THE EXTERIOR.



RADIUS SHAPES

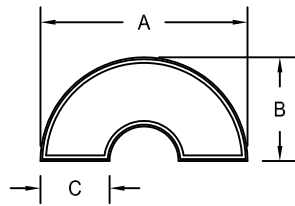


ALL GEOMETRIC WINDOW SHAPES ARE
VIEWED FROM THE EXTERIOR.

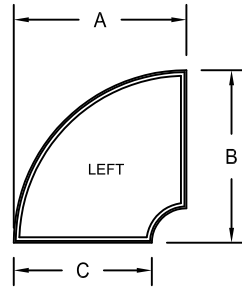


**RADIUS SHAPES
CONT'D**

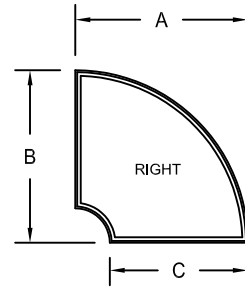
ALL GEOMETRIC WINDOW SHAPES ARE VIEWED FROM THE EXTERIOR.



TYPE BI - 1
INVERTED HALF ROUND

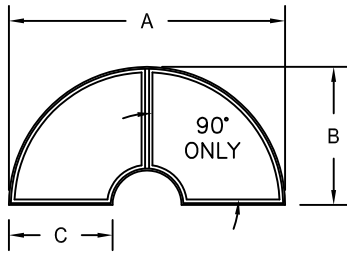


TYPE DI - 1

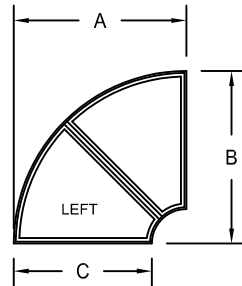


TYPE EI - 1

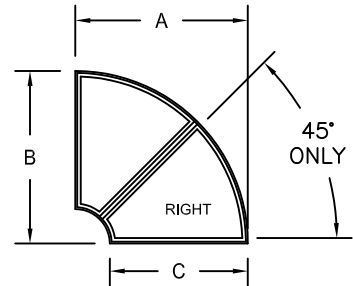
INVERTED QUARTER ROUND



TYPE BI - 2
INVERTED HALF ROUND - TWIN

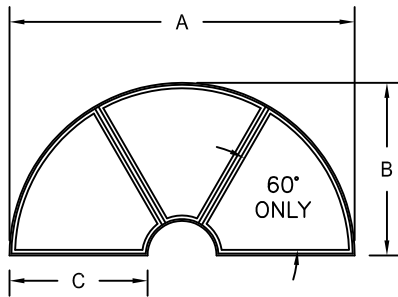


TYPE DI - 2

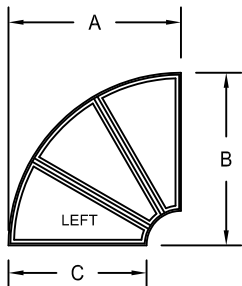


TYPE EI - 2

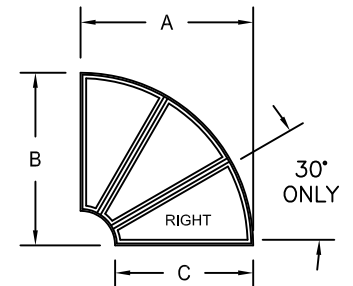
INVERTED QUARTER ROUND - TWIN



TYPE BI - 3
INVERTED HALF ROUND - TRIPLE

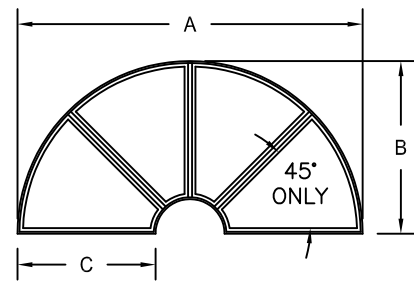


TYPE DI - 3



TYPE EI - 3

INVERTED QUARTER ROUND - TRIPLE

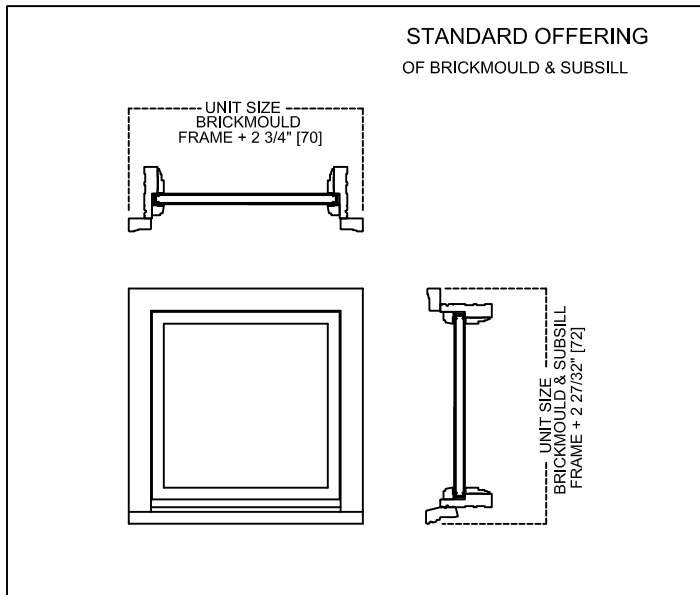


TYPE BI - 4
INVERTED HALF ROUND - QUAD

INVERTED HALF ROUND AND QUARTER ROUND UNITS

INVERTED HALF ROUND AND QUARTER ROUND UNITS HAVE CONTINUOUS HEAD AND SILL CONFIGURATIONS WHICH UTILIZE MULLION POSTS FROM FRAME TO FRAME. SEE PAGE 57 (SECTION DETAILS & DIMENSIONS) FOR MULLION POST SPECIFICATIONS. THE MULLION POSTS ARE POSITIONED RADIALLY FROM THE CENTER POINT OF THE SILL RADIUS.

**UNIT SIZING, ROUGH OPENINGS &
MASONRY OPENINGS**

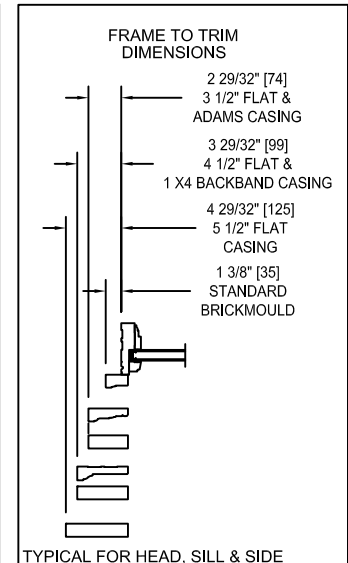
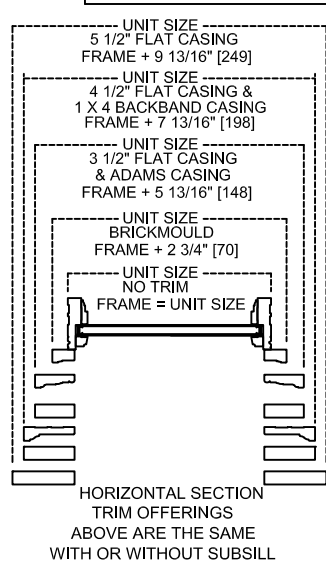
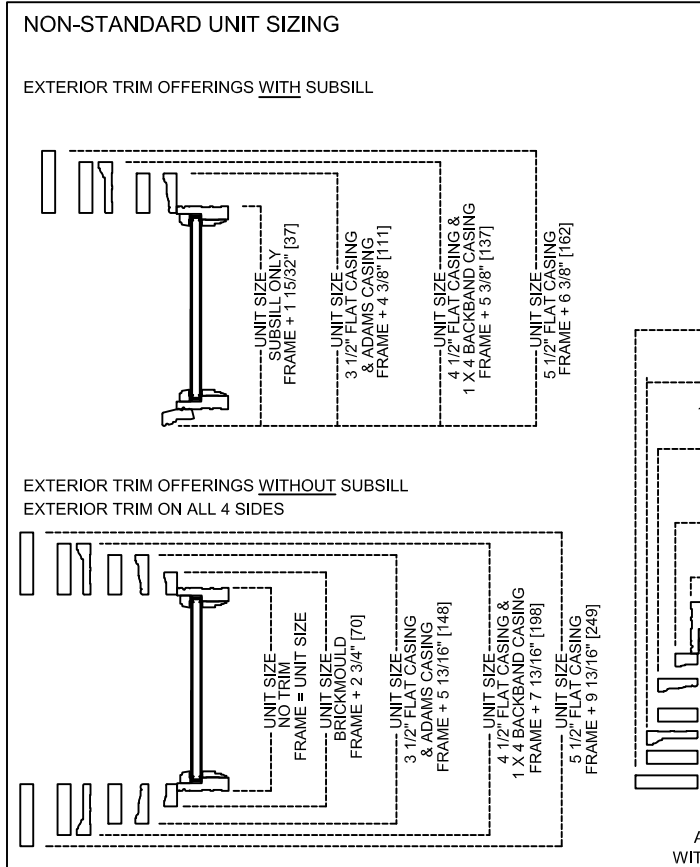
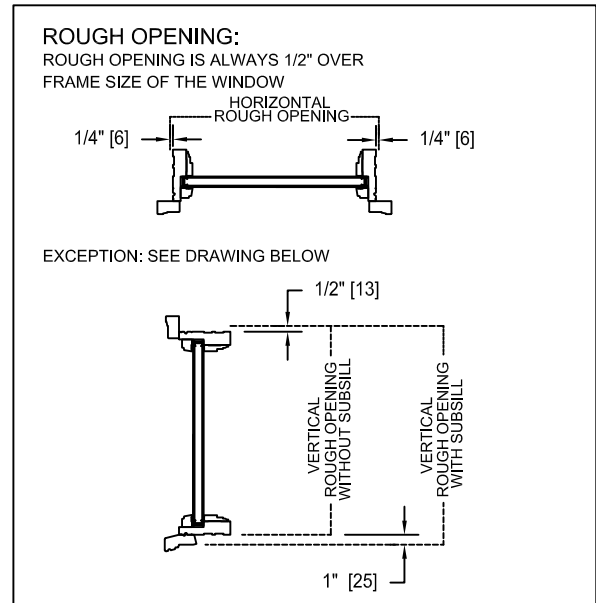


GENERAL NOTES:

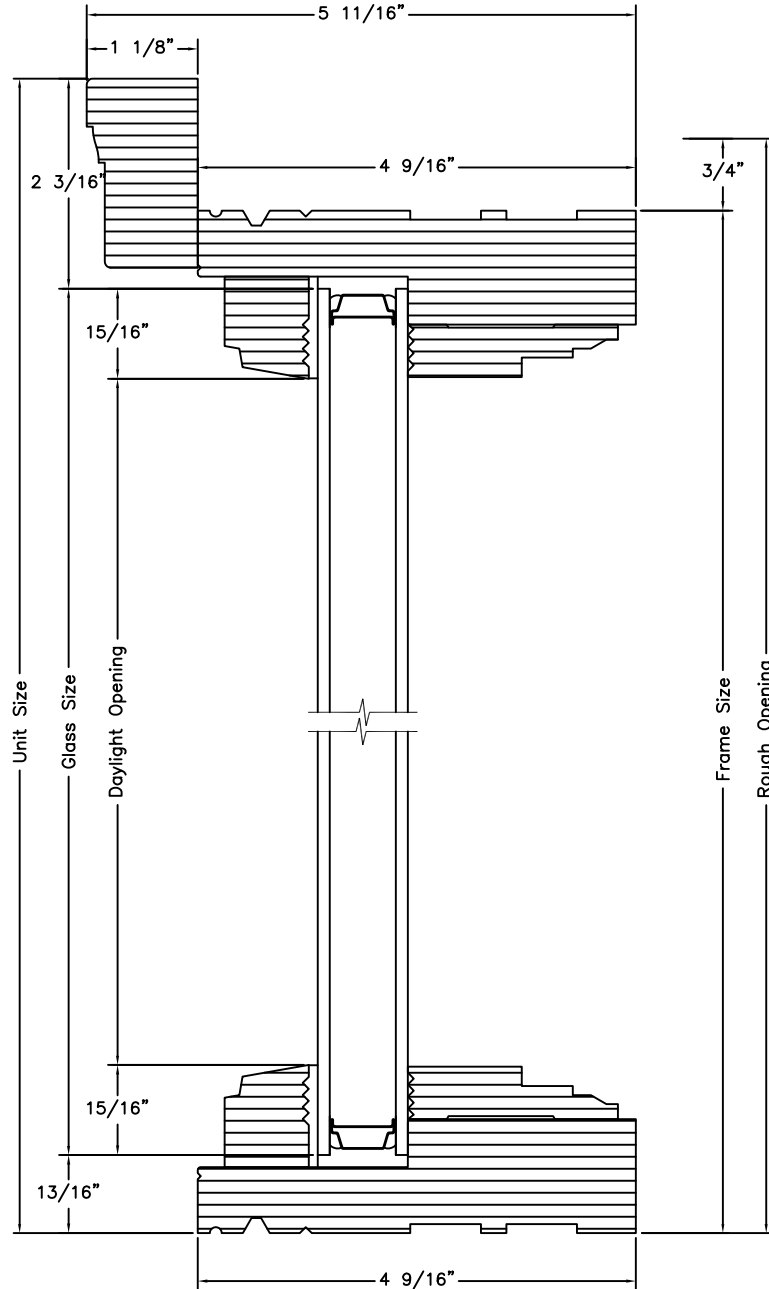
UNITS WITH NO TRIM AND SUBSILL:
UNIT SIZE = FRAME SIZE

UNIT SIZE IS ALWAYS THE
EXTREME SIZE OF THE WINDOW
WITH OR WITHOUT TRIM

MASONRY OPENING:
MASONRY OPENING IS ALWAYS 1/2" OVER
THE UNIT SIZE OF THE WINDOW

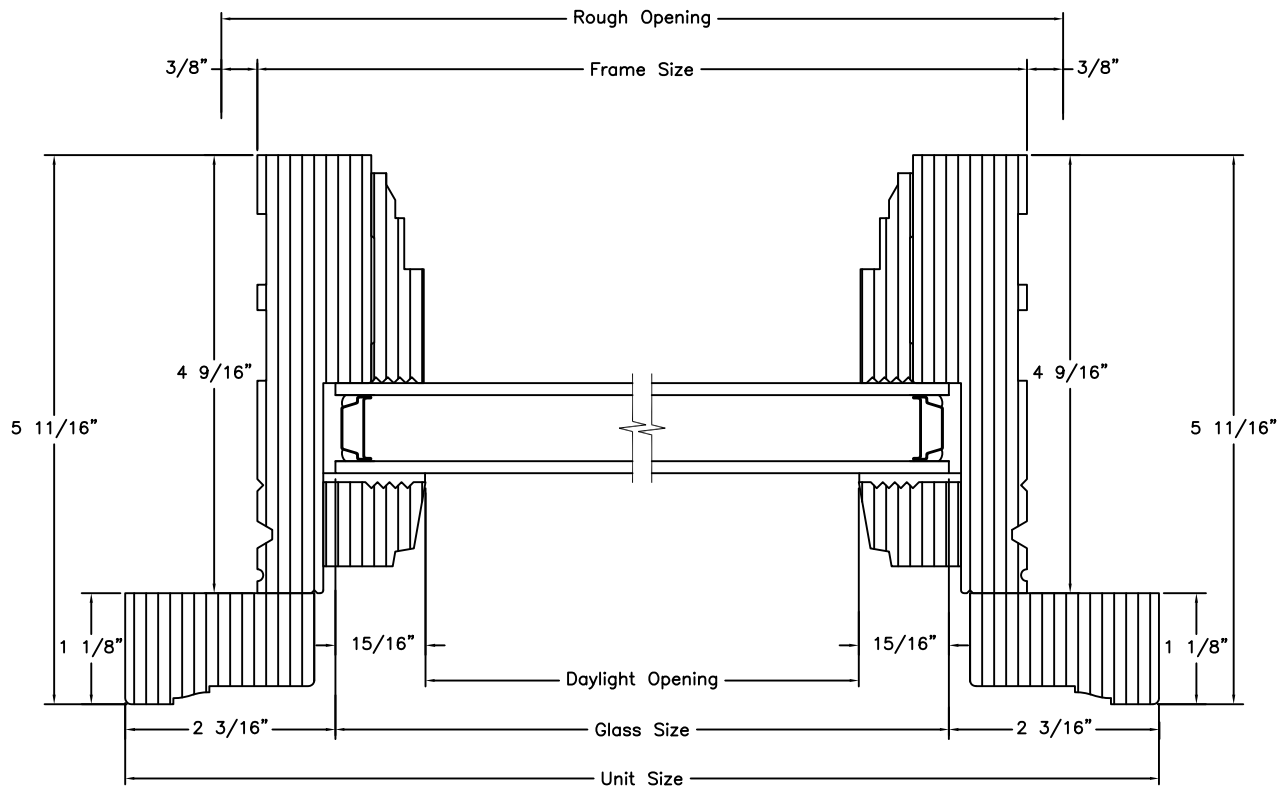


VERTICAL SECTION
INVERTED RADIUS SILL



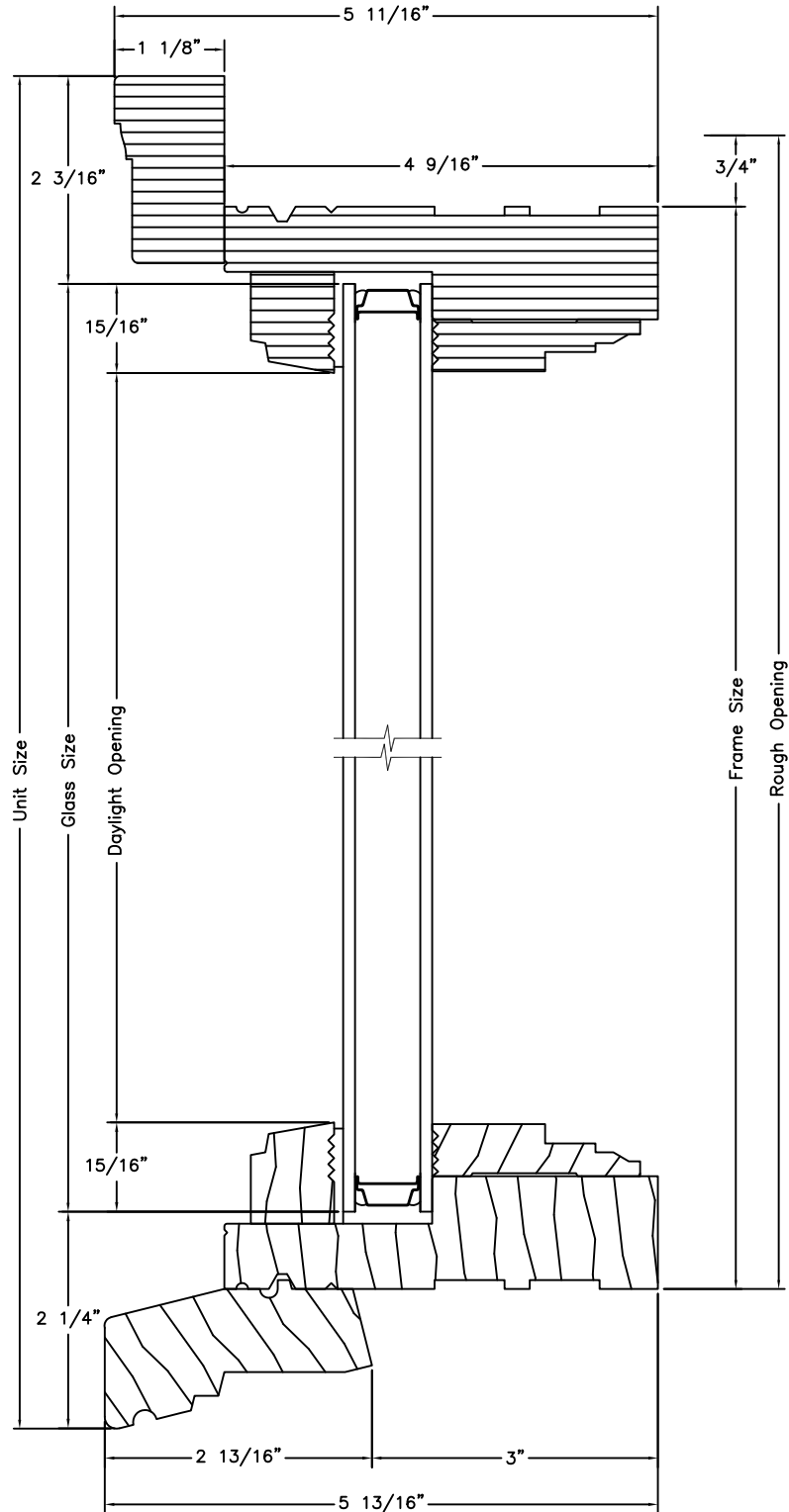
VERTICAL SECTION

HORIZONTAL SECTION
INVERTED RADIUS SILL



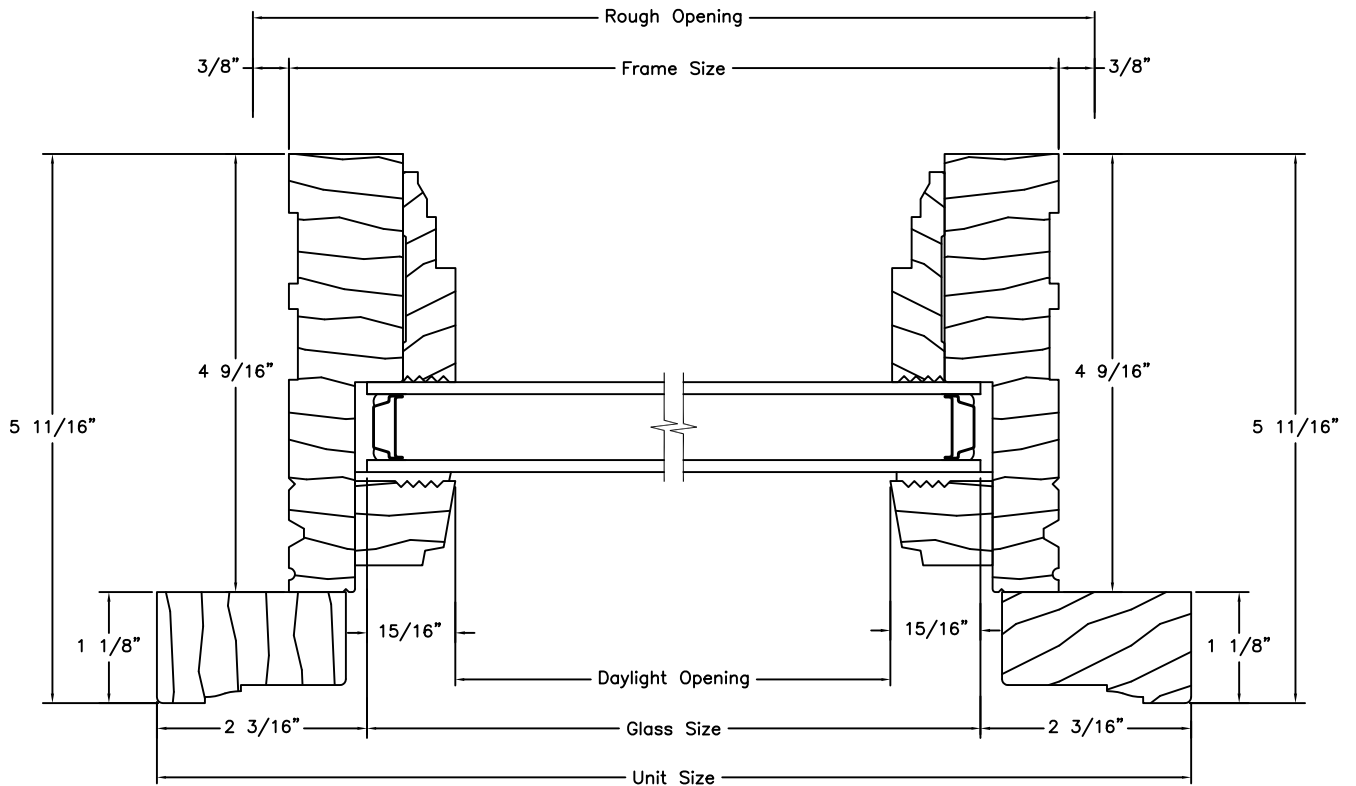
HORIZONTAL SECTION

VERTICAL SECTION
RADIUS HEAD



VERTICAL SECTION

HORIZONTAL SECTION
RADIUS HEAD



HORIZONTAL SECTION