

---

**TABLE OF CONTENTS**

---

|  |       |
|--|-------|
| Specifications .....                                 | 12-2  |
| Quick Spec Guide .....                               | 12-3  |
| Elevations/Sizes: 1/4" Scale .....                   | 12-4  |
| Full Round Units .....                               | 12-7  |
| Casement and Doors Quarter Round Units .....         | 12-8  |
| Casement and Doors Half Round Units .....            | 12-9  |
| Double-Hung and Doors Quarter Round Units .....      | 12-10 |
| Double-Hung and Doors Half Round Units .....         | 12-11 |
| Glazing Options: 3" Scale .....                      | 12-12 |
| Trim Options: 3" Scale .....                         | 12-13 |
| Jamb Options: 3" Scale .....                         | 12-14 |
| Grille & SDL Patterns .....                          | 12-15 |
| Layout Shapes .....                                  | 12-18 |
| Unit Sizing, Rough Openings & Masonry Openings ..... | 12-22 |
| Section Details: 6" Scale .....                      | 12-23 |

**PRODUCT SPECIFICATIONS****EXTERIOR FINISH**

All exterior surfaces are covered with a factory-applied latex primer.

**AURALAST® WOOD**

AuraLast® wood is fundamentally different from wood resulting from 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 the current preservation methods by its unique ability to achieve greater penetration of the active ingredients into the wood parts, with a penetration of the treatment being a minimum of 92%.

**INTERIOR FINISH**

All interior surfaces are unfinished clear pine ready for on site finishing. Primed and pre-finished interiors are available in paint: Pure White, Extra White, Natural Choice, Moderate White; in stain: Wheat, Cherry, Fruitwood, Cordovan, Cider and Clear Lacquer.

**FRAME (RADIUS)**

Frame is assembled from select kiln dried pine using AuraLast® wood on all exterior parts. Frame corner joints are tightly secured with metal fasteners and adhesive. Frame thickness is 1-5/32" (29.4mm) at head, side jamb and 1-5/32" (29.4mm) at sill. Basic jamb width is 3-3/4" (95.2mm) and may be extended for different wall depths. Finished frame has exterior casing, sill nosing, weather-stripping, hardware, and interior stops applied.

**FRAME (GEOMETRIC UNITS)**

Frame is assembled from select kiln dried pine 1-5/32" (29.4mm) using AuraLast® wood on all exterior parts. Corners are sealed with silicone sealant. Basic jamb width is 3-3/4" and may be extended for different wall depths. Sill is 1-5/32" (29.4mm) thick.

**SASH**

Radius units may be specified as Direct Glazed or In-Sash. Sash match Casement/Awning profiles. Wood exterior sash are latex primed or may be specified natural. All Radius sash exteriors are laminated or fingerjointed. All Geometric sash exteriors are fingerjointed and interiors are clear. On In-Sash units glass is glazed into the sash with a durable clear silicone on the exterior and an acrylic sealant on the interior.

**GLAZING**

3/4" thick sealed insulating glass is constructed from two panes of glass, utilizing a continuous roll formed stainless steel spacer with dual seal sealant. All insulating glass units comply with the performance requirements of IGCC in accordance with either ASTM E774 or E2190.

*In-Sash* - Glass is glazed into the sash with a durable clear silicone on the exterior and an acrylic sealant on the interior.

**GLAZING OPTIONS**

3/4" insulating glass available in Low-E with Argon, Low-E, Low-E 366, Clear, Neat Glass, reflective, tinted, 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. 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) - wood muntins permanently applied to the exterior of the insulating glass unit (not available on textured glass) in 7/8" (22mm), 1-1/8" (28.5mm), or 1-3/8" (34.9mm) widths, and a putty profile in 5/8" (15.9mm), 7/8" (22mm) and 1-1/8" (28.5mm) 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" (59mm) SDL bar, which simulates a double-hung checkrail.

**Wood Grilles** - Rectangular unfinished clear pine wood grilles in 7/8" (22mm) are available in patterns selected by the owner. In-Sash are only available with Full Surround Grilles.

**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.

**APPLIED ALUMINUM DRIP CAP (RADIUS)**

Drip cap is made from .040" extruded aluminum, and is shaped by a precision bending process (optional).

**EXTERIOR TRIM**

1-3/32" (27.8mm) x 2" (50.8mm) brickmould with 1-1/16" (27mm) x 1-3/4" (44.5mm) nosing is standard. Flat casing is available as 1-3/32" (27.8mm) x 2" (50.8mm), 1-3/32" (27.8mm) x 3-1/2" (89mm), 1-3/32" (27.8mm) x 4-1/2" (114.3mm), and 1-3/32" (27.8mm) x 5-1/2" (139.7mm). The following profiled casings are available: RB-3 and Adams as 1-1/16" x 3-1/2" (89mm), and Williamsburg 1-3/16" x 3-1/4".

**RADIUS INSIDE TRIM**

Laminated radius trim in Pine or Oak available in a variety of patterns. 3 x 3 Corner blocks in Pine or Oak also available.

**EXTENSION JAMBS**

Extension jambs are factory applied to the interior on all four sides of the frame and are 4/4 standard thick pine to accommodate wall depths up to 9-5/16" with one piece, and up to 12" with two pieces. 9/16" (14.2mm) and 5/4 option also available.

**INSTALLATION**

Installation per JELD-WEN Installation Method for Wood Windows JII003 or JII012. See [www.jeld-wen.com/resources](http://www.jeld-wen.com/resources) for instructions.

**PERFORMANCE**

**NFRC Certified** - (Rated and labeled in accordance with NFRC)

WDMA Hallmark Certified -  
In accordance with **AAMA/NWWDA/101/I.S.2-97**

**QUICK SPEC GUIDE**

| SPECIFICATION   | STANDARD FEATURES  | OPTIONAL FEATURES<br><i>Some options may require additional lead times.<br/>Consult your JELD-WEN Sales Representative.</i>   |   |  |
|---|--|---|---|--|
| <b>EXTERIOR FINISH</b>  | <ul style="list-style-type: none"> <li>Primed</li> </ul>   | <ul style="list-style-type: none"> <li>Natural (some visible finger joints)</li> </ul>  |   |  |
| <b>EXTERIOR TRIM</b>  | <ul style="list-style-type: none"> <li>2" Brickmould</li> <li>Wood Sill Nose</li> <li>Drip Cap</li> </ul>  | <ul style="list-style-type: none"> <li>Flat Casing: 1-3/32" x 2", 3-1/2", 4-1/2", and 5-1/2"</li> <li>Heritage Casing: 1-3/16" x 3-1/4"</li> <li>Adams Casing: 1-1/16" x 3-1/2"</li> <li>RB3 Casing: 1-1/16" x 3-1/12"</li> <li>1-7/32" x 4-1/2" Backband</li> <li>No Brickmould Option</li> <li>Historical Sill Nose</li> </ul>  |   |  |
| <b>INTERIOR FINISH</b>  | <ul style="list-style-type: none"> <li>Natural</li> </ul>  | <ul style="list-style-type: none"> <li>Priming Available</li> </ul> <p>Pre-finished Interior Options are:</p> <ul style="list-style-type: none"> <li>Paint - Pure White, Extra White, Natural Choice, Moderate White</li> <li>Stain - Wheat, Fruitwood, Cherry, Cordovan, Cider</li> <li>Clear Lacquer</li> </ul>   |   |  |
| <b>SIZE</b>   | <p>Radius Units</p> <ul style="list-style-type: none"> <li>Half Rounds: 25 Sizes</li> <li>Quarter Rounds: 12 Sizes</li> <li>Full Circles: 7 Sizes</li> </ul> <p>Geometric Units</p> <ul style="list-style-type: none"> <li>All window units are made to specified Frame Dimensions, see sample elevations for required dimensions</li> </ul> | <p>Size Limitations</p> <ul style="list-style-type: none"> <li>Units May Not Exceed 50 square feet</li> <li>Some Sizes May Require Tempered Glazing</li> </ul>  |   |  |
| <b>GLAZING</b>  | <ul style="list-style-type: none"> <li>Low-E Insulating Glass</li> <li>Preserve® Protective Film</li> </ul>  | <table border="0"> <tr> <td> <ul style="list-style-type: none"> <li>Clear</li> <li>Obscure</li> <li>Bronze</li> <li>Low-E 366</li> <li>Neat Glass</li> <li>Dual Low-E</li> <li>Reflective</li> </ul> </td> <td> <ul style="list-style-type: none"> <li>Tempered</li> <li>Decorative Glass                             <ul style="list-style-type: none"> <li>o Craftsman</li> <li>o Classic</li> <li>o Contemporary</li> <li>o Estate</li> </ul> </li> <li>Custom Design Capability</li> </ul> </td> </tr> </table> <ul style="list-style-type: none"> <li>High Altitude</li> </ul>                                 | <ul style="list-style-type: none"> <li>Clear</li> <li>Obscure</li> <li>Bronze</li> <li>Low-E 366</li> <li>Neat Glass</li> <li>Dual Low-E</li> <li>Reflective</li> </ul> | <ul style="list-style-type: none"> <li>Tempered</li> <li>Decorative Glass                             <ul style="list-style-type: none"> <li>o Craftsman</li> <li>o Classic</li> <li>o Contemporary</li> <li>o Estate</li> </ul> </li> <li>Custom Design Capability</li> </ul> |
| <ul style="list-style-type: none"> <li>Clear</li> <li>Obscure</li> <li>Bronze</li> <li>Low-E 366</li> <li>Neat Glass</li> <li>Dual Low-E</li> <li>Reflective</li> </ul> | <ul style="list-style-type: none"> <li>Tempered</li> <li>Decorative Glass                             <ul style="list-style-type: none"> <li>o Craftsman</li> <li>o Classic</li> <li>o Contemporary</li> <li>o Estate</li> </ul> </li> <li>Custom Design Capability</li> </ul>   |   |   |  |
| <b>GRILLES</b>  |  | <ul style="list-style-type: none"> <li>5/8" Flat, 23/32" or 1" Contour GBG</li> <li>Direct Set: 7/8" KD Wood Grilles</li> </ul> <p>SDL Bead Profile:</p> <ul style="list-style-type: none"> <li>7/8", 1-1/8", 1-3/8", 2-5/16" with Light Bronze Shadow Bar</li> <li>7/8", 1-1/8", 1-3/8", 2-5/16" with Silver Shadow Bar</li> </ul> <p>Patterns may be Colonial, Renaissance, Prairie or Gothic (not limited to stated patterns)</p> <p>SDL Putty Profile:</p> <ul style="list-style-type: none"> <li>5/8", 7/8", 1-1/8" with Light Bronze Shadow Bar</li> <li>5/8", 7/8", 1-1/8" with Silver Shadow Bar</li> </ul> |   |  |
| <b>INTERIOR RADIUS CASING</b>   |  | <ul style="list-style-type: none"> <li>Seven Patterns</li> <li>Other casings may be available</li> </ul>  |   |  |
| <b>JAMB</b>   | <ul style="list-style-type: none"> <li>4-9/16"</li> </ul>  | <ul style="list-style-type: none"> <li>Minimum: 3-3/4"</li> <li>Maximum: 8-1/2" (one piece)</li> <li>Maximum: 12" (two piece)</li> </ul>  |   |  |

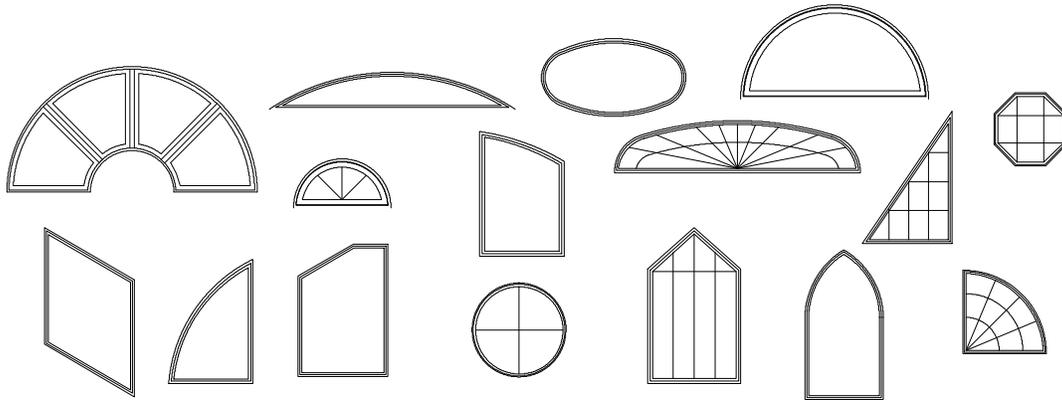
---

**GENERAL INFORMATION**

---

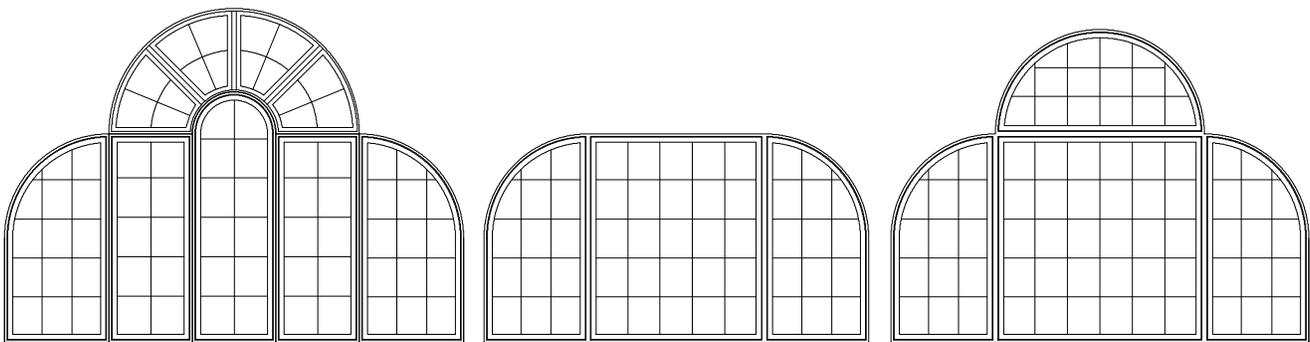
**STANDARD SIZES & DESIGNS**

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 in-sash geometric windows may be mullered 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**

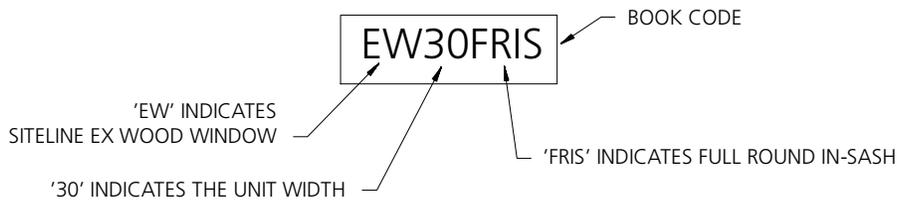
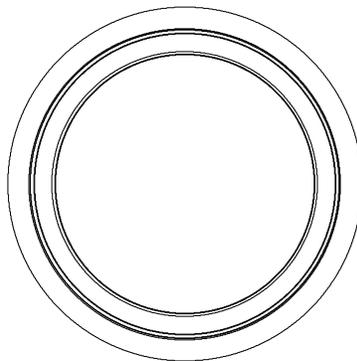
ELEVATION DRAWINGS UTILIZE A LIMITED NUMBER OF PROJECTED LINES TO PRODUCE A RUDIMENTARY DRAWING INTENDED TO BE USED IN A SMALL GRAPHICAL SCALE. ELEVATIONS ARE VIEWED PERPENDICULAR FROM THE EXTERIOR OF THE STRUCTURE. IF MORE DIMENSIONS ARE NEEDED, USE THE SECTION DRAWINGS FOR MORE COMPLETE DEPICTIONS.

**BOOK CODE DEFINITIONS**

|               |  |
|---------------|--|
| 8. EWCXXHRIS  | SITELINE EX WOOD CASEMENT HALF ROUND IN-SASH       |
| 9. EWDXXHRIS  | SITELINE EX WOOD DOUBLE-HUNG HALF ROUND IN-SASH    |
| 10. EWCXXQRIS | SITELINE EX WOOD CASEMENT QUARTER ROUND IN-SASH    |
| 11. EWXXFRIS  | SITELINE EX WOOD FULL ROUND IN-SASH                |
| 12. EWDXXQRIS | SITELINE EX WOOD DOUBLE-HUNG QUARTER ROUND IN-SASH |

|                        |               |
|------------------------|---------------|
| M.O. Brickmould        | 33 1/2"(851)  |
| M.O. Adams/Flat Casing | 36 1/2"(927)  |
| Rough Opening          | 30 3/4"(781)  |
| Frame Size             | 30"(762)      |
| Daylight Opening       | 24 3/32"(612) |

- 33 1/2"(851)
- 36 1/2"(927)
- 30 3/4"(781)
- 30"(762)
- 24 3/32"(612)



**GENERAL NOTES**

1. UNIT ELEVATIONS ARE SHOWN WITHOUT EXTERIOR TRIM.
2. VALUES IN PARENTHESES ARE MILLIMETER CONVERSIONS.
3. HALF ROUNDS, QUARTER ROUNDS AND FULL ROUNDS ARE AVAILABLE AS STATIONARY (FIXED).

**ELEVATION SYMBOL LEGEND:**

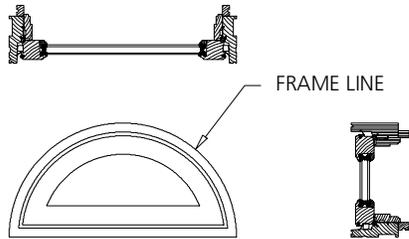
**M.O.** MASONRY OPENING

**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**



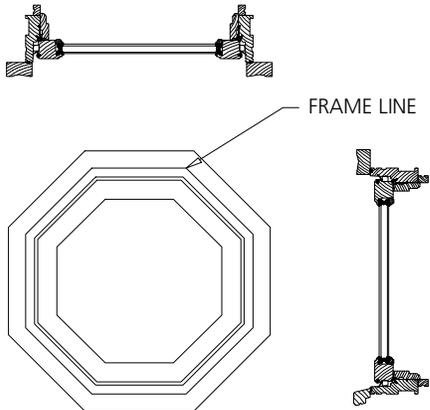
**STANDARD GEOMETRIC ELEVATIONS**

Geometric elevations (pages 12-7 to 12-11) 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.

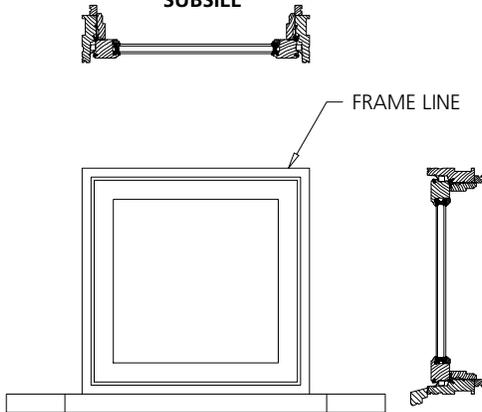
**TRIM - ALL SIDES**



**TRIM - ALL SIDES**

Applying trim to all 4 sides of an elevation is an offset from the frame. See page 12-23 (Unit Sizing, Rough Openings & Masonry Openings) for offset dimensions of various trim options. Applies to octagon units only.

**SUBSILL**

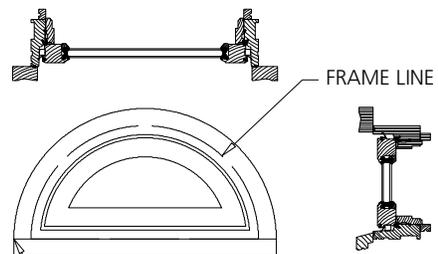


**SUBSILL**

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 page 12-23 (Unit Sizing, Rough Opening & Masonry Openings) for more information.

**SUBSILL RESTRICTIONS**

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



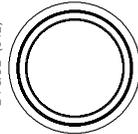
SUBSILL EXTENDS TO 1 3/8" [35] OR 6" [152] OUTSIDE THE EDGE OF THE FRAME, UNLESS SPECIFIED OTHERWISE.

SUBSILL EXTENDS TO OUTSIDE EDGE OF THE BRICKMOULD

**FULL ROUND UNITS**

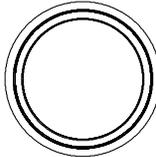
**M.O. BRICKMOULD** 33 1/2" (851)  
**M.O. ADAMS/FLAT CASING** 36 1/2" (927)  
**ROUGH OPENING** 30 3/4" (781)  
**FRAME SIZE** 30" (762)  
**DAYLIGHT OPENING** 24 3/32" (612)

33 1/2" (851)  
36 1/2" (927)  
30 3/4" (781)  
30" (762)  
24 3/32" (612)



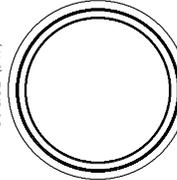
EW30FRIS

39 1/2" (1003)  
42 1/2" (1080)  
36 3/4" (933)  
36" (914)  
30 3/32" (764)



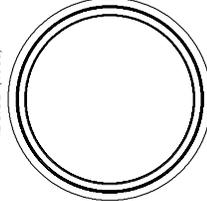
EW36FRIS

45 1/2" (1156)  
48 1/2" (1232)  
42 3/4" (1086)  
42" (1067)  
36 3/32" (917)



EW42FRIS

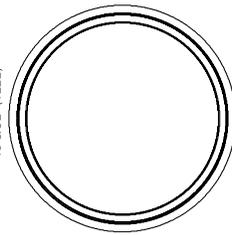
51 1/2" (1308)  
54 1/2" (1384)  
48 3/4" (1238)  
48" (1219)  
42 3/32" (1069)



EW48FRIS

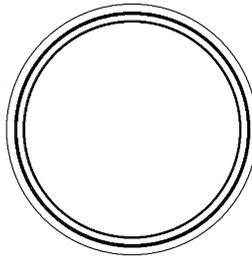
**M.O. BRICKMOULD** 57 1/2" (1461)  
**M.O. ADAMS/FLAT CASING** 60 1/2" (1537)  
**ROUGH OPENING** 54 3/4" (1391)  
**FRAME SIZE** 54" (1372)  
**DAYLIGHT OPENING** 48 3/32" (1222)

57 1/2" (1461)  
60 1/2" (1537)  
54 3/4" (1391)  
54" (1372)  
48 3/32" (1222)



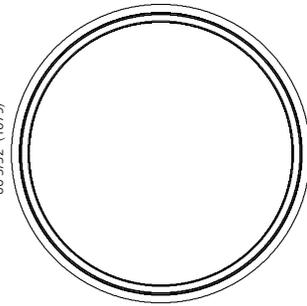
EW54FRIS

63 1/2" (1613)  
66 1/2" (1689)  
60 3/4" (1543)  
60" (1524)  
54 3/32" (1374)



EW60FRIS

75 1/2" (1918)  
78 1/2" (1994)  
72 3/4" (1848)  
72" (1829)  
66 3/32" (1679)



EW72FRIS

**ELEVATION SYMBOL LEGEND:**

**M.O.** = MASONRY OPENING

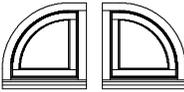
VALUES IN ( ) ARE IN MILLIMETER CONVERSIONS

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 AND DOOR QUARTER ROUND UNITS**

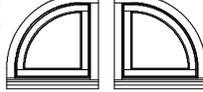
**M.O. BRICKMOULD** 21 1/2" (546)  
**M.O. ADAMS/FLAT CASING** 24 1/2" (622)  
**ROUGH OPENING** 18 3/4" (476)  
**FRAME SIZE** 18" (457)  
**DAYLIGHT OPENING** 12 3/32" (307)

20 15/16" (532)  
22 7/16" (570)  
18 3/4" (476)  
18" (457)  
12 3/32" (307)



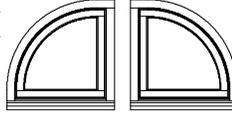
EW18QRIS

22 15/16" (583)  
24 1/6" (621)  
20 3/4" (527)  
18" (457)  
14 3/32" (358)



EW20QRIS

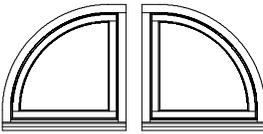
26 15/16" (684)  
28 7/16" (722)  
24 3/4" (629)  
24" (610)  
18 3/32" (460)



EW24QRIS

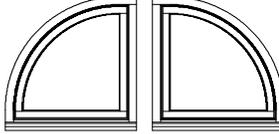
**M.O. BRICKMOULD** 31 1/2" (800)  
**M.O. ADAMS/FLAT CASING** 34 1/2" (876)  
**ROUGH OPENING** 28 3/4" (730)  
**FRAME SIZE** 28" (711)  
**DAYLIGHT OPENING** 22 3/32" (561)

30 15/16" (786)  
32 7/16" (824)  
28 3/4" (730)  
28" (711)  
22 3/32" (561)



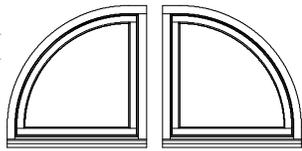
EW28QRIS

32 15/16" (837)  
34 7/16" (875)  
30 3/4" (781)  
30" (762)  
24 3/32" (612)



EW30QRIS

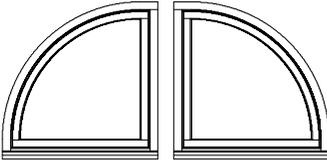
34 15/16" (887)  
36 7/16" (926)  
32 3/4" (832)  
32" (813)  
26 3/32" (663)



EW32QRIS

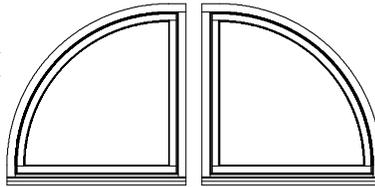
**M.O. BRICKMOULD** 39 1/2" (1003)  
**M.O. ADAMS/FLAT CASING** 42 1/2" (1080)  
**ROUGH OPENING** 36 3/4" (933)  
**FRAME SIZE** 36" (914)  
**DAYLIGHT OPENING** 30 3/32" (764)

38 15/16" (989)  
40 7/16" (1027)  
36 3/4" (933)  
36" (914)  
30 3/32" (764)



EW36QRIS

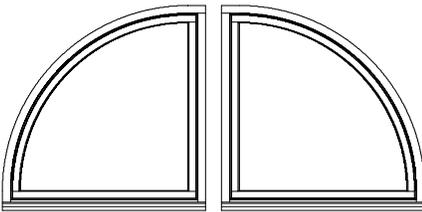
44 15/16" (1141)  
46 7/16" (1180)  
42 3/4" (1086)  
42" (1067)  
36 3/32" (917)



EW42QRIS

**M.O. BRICKMOULD** 51 1/2" (1308)  
**M.O. ADAMS/FLAT CASING** 54 1/2" (1384)  
**ROUGH OPENING** 48 3/4" (1238)  
**FRAME SIZE** 48" (1219)  
**DAYLIGHT OPENING** 42 3/32" (1069)

50 15/16" (1294)  
52 7/16" (1332)  
48 3/4" (1238)  
48" (1219)  
42 3/32" (1069)



EW48QRIS

**ELEVATION SYMBOL LEGEND:**

**M.O.** = MASONRY OPENING

VALUES IN ( ) ARE IN MILLIMETER CONVERSIONS

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 AND DOOR HALF ROUND UNITS

**M.O. BRICKMOULD** 33 1/2" (851)  
**M.O. ADAMS/FLAT CASING** 36 1/2" (927)  
**ROUGH OPENING** 30 3/4" (781)  
**FRAME SIZE** 30" (762)  
**DAYLIGHT OPENING** 24 3/32" (612)

17 15/16" (455)  
19 7/16" (494)  
15 3/4" (400)  
15" (381)  
9 3/32" (231)



EW30HRIS

18 15/16" (481)  
20 7/16" (519)  
16 3/4" (425)  
16" (406)  
10 3/32" (256)



EW32HRIS

35 1/2" (902)  
38 1/2" (978)  
32 3/4" (832)  
32" (813)  
26 3/32" (663)

20 15/16" (532)  
22 7/16" (570)  
18 3/4" (476)  
18" (457)  
12 3/32" (307)



EW36HRIS

39 1/2" (1003)  
42 1/2" (1080)  
36 3/4" (933)  
36" (914)  
30 3/32" (764)

22 15/16" (583)  
24 7/16" (621)  
20 3/4" (527)  
20" (508)  
14 3/32" (358)



EW40HRIS

43 1/2" (1105)  
46 1/2" (1181)  
40 3/4" (1035)  
40" (1016)  
34 3/32" (866)

**M.O. BRICKMOULD** 45 1/2" (1156)  
**M.O. ADAMS/FLAT CASING** 48 1/2" (1232)  
**ROUGH OPENING** 42 3/4" (1086)  
**FRAME SIZE** 42" (1067)  
**DAYLIGHT OPENING** 36 3/32" (917)

23 15/16" (608)  
25 7/16" (646)  
21 3/4" (552)  
21" (533)  
15 3/32" (383)



EW42HRIS

26 15/16" (684)  
28 7/16" (722)  
24 3/4" (629)  
24" (610)  
18 3/32" (460)



EW48HRIS

51 1/2" (1308)  
54 1/2" (1384)  
48 3/4" (1238)  
48" (1219)  
42 3/32" (1069)

29 15/16" (760)  
31 7/16" (799)  
27 3/4" (705)  
27" (686)  
21 3/32" (536)



EW54HRIS

57 1/2" (1461)  
60 1/2" (1537)  
54 3/4" (1391)  
54" (1372)  
48 3/32" (1222)

30 15/16" (786)  
32 7/16" (824)  
28 3/4" (730)  
28" (711)  
22 3/32" (561)



EW56HRIS

59 1/2" (1511)  
62 1/2" (1588)  
56 3/4" (1441)  
56" (1422)  
50 3/32" (1272)

**M.O. BRICKMOULD** 63 1/2" (1613)  
**M.O. ADAMS/FLAT CASING** 66 1/2" (1689)  
**ROUGH OPENING** 60 3/4" (1543)  
**FRAME SIZE** 60" (1524)  
**DAYLIGHT OPENING** 54 3/32" (1374)

32 15/16" (837)  
34 7/16" (875)  
30 3/4" (781)  
30" (762)  
24 3/32" (612)



EW60HRIS

34 15/16" (887)  
35 7/16" (900)  
32 3/4" (832)  
32" (813)  
26 3/32" (663)



EW64HRIS

67 1/2" (1715)  
70 1/2" (1791)  
64 3/4" (1645)  
64" (1626)  
58 3/32" (1476)

35 15/16" (913)  
37 7/16" (951)  
33 3/4" (857)  
33" (838)  
27 3/32" (688)

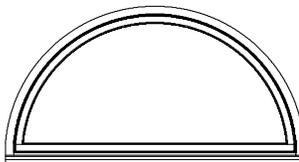


EW66HRIS

69 1/2" (1765)  
72 1/2" (1842)  
66 3/4" (1695)  
66" (1676)  
60 3/32" (1526)

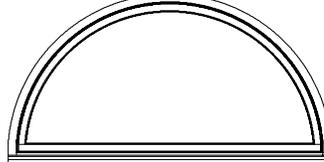
**M.O. BRICKMOULD** 75 1/2" (1918)  
**M.O. ADAMS/FLAT CASING** 78 1/2" (1994)  
**ROUGH OPENING** 72 3/4" (1848)  
**FRAME SIZE** 72" (1829)  
**DAYLIGHT OPENING** 66 3/32" (1679)

38 15/16" (989)  
40 7/16" (1027)  
36 3/4" (933)  
36" (914)  
30 3/32" (764)



EW72HRIS

41 15/16" (1065)  
43 7/16" (1103)  
39 3/4" (1010)  
39" (991)  
33 3/32" (841)



EW78HRIS

81 1/2" (2070)  
84 1/2" (2146)  
78 3/4" (2000)  
78" (1981)  
72 3/32" (1831)

44 15/16" (1141)  
46 7/16" (1180)  
42 3/4" (1086)  
42" (1067)  
36 3/32" (917)

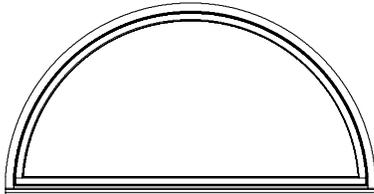


EW84HRIS

87 1/2" (2223)  
90 1/2" (2299)  
84 3/4" (2153)  
84" (2134)  
78 3/32" (1984)

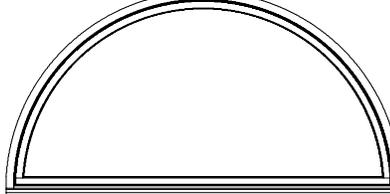
**M.O. BRICKMOULD** 93 1/2" (2380)  
**M.O. ADAMS/FLAT CASING** 96 1/2" (2451)  
**ROUGH OPENING** 90 3/4" (2305)  
**FRAME SIZE** 90" (2286)  
**DAYLIGHT OPENING** 84 3/32" (2136)

47 15/16" (1217)  
49 7/16" (1256)  
45 3/4" (1162)  
45" (1143)  
39 3/32" (993)



EW90HRIS

50 15/16" (1294)  
52 7/16" (1332)  
48 3/4" (1238)  
48" (1219)  
42 3/32" (1069)



EW96HRIS

99 1/2" (2527)  
102 1/2" (2604)  
96 3/4" (2457)  
96" (2438)  
90 3/32" (2288)

**ELEVATION SYMBOL LEGEND:**  
**M.O.** = MASONRY OPENING  
VALUES IN ( ) ARE IN MILLIMETER CONVERSIONS

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'

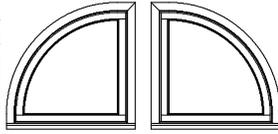
**DOUBLE-HUNG QUARTER ROUND UNITS**

|                        |                 |
|------------------------|-----------------|
| M.O. BRICKMOULD        | 32 7/8" (835)   |
| M.O. ADAMS/FLAT CASING | 35 7/8" (911)   |
| ROUGH OPENING          | 30 1/8" (765)   |
| FRAME SIZE             | 29 3/8" (746)   |
| DAYLIGHT OPENING       | 23 15/32" (596) |

|                 |
|-----------------|
| 36 7/8" (937)   |
| 39 7/8" (1013)  |
| 34 1/8" (867)   |
| 33 3/8" (848)   |
| 27 15/32" (698) |

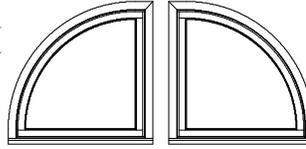
|                 |
|-----------------|
| 40 7/8" (1038)  |
| 43 7/8" (1114)  |
| 38 1/8" (968)   |
| 37 3/8" (949)   |
| 31 15/32" (799) |

32 5/16" (821)  
33 13/16" (859)  
30 1/8" (765)  
29 3/8" (746)  
23 15/32" (596)



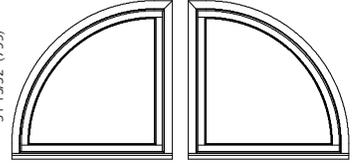
EWD29QRIS

36 5/16" (922)  
37 13/16" (960)  
34 1/8" (867)  
33 3/8" (848)  
27 15/32" (698)



EWD33QRIS

40 5/16" (1024)  
41 13/16" (1062)  
38 1/8" (968)  
37 3/8" (949)  
31 15/32" (799)



EWD37QRIS

**ELEVATION SYMBOL LEGEND:**

M.O. = MASONRY OPENING

VALUES IN () ARE IN MILLIMETER CONVERSIONS

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**

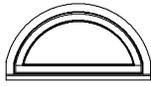
**M.O. BRICKMOULD** 32 7/8" (835)  
**M.O. ADAMS/FLAT CASING** 35 7/8" (911)  
**ROUGH OPENING** 30 1/8" (765)  
**FRAME SIZE** 29 3/8" (746)  
**DAYLIGHT OPENING** 23 15/32" (596)

17 5/8" (448)  
19 1/8" (486)  
15 7/16" (392)  
14 11/16" (373)  
8 13/16" (224)



EWD29HRIS

19 5/8" (498)  
21 1/8" (537)  
17 7/16" (443)  
16 11/16" (424)  
10 13/16" (275)



EWD33HRIS

21 5/8" (549)  
23 1/8" (587)  
19 7/16" (494)  
18 11/16" (475)  
12 13/16" (325)



EWD37HRIS

40 7/8" (1038)  
43 7/8" (1114)  
38 1/8" (968)  
37 3/8" (949)  
31 15/32" (799)

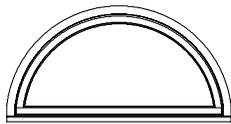
23 5/8" (600)  
25 1/8" (638)  
21 7/16" (545)  
20 11/16" (525)  
14 13/16" (376)



EWD41HRIS

**M.O. BRICKMOULD** 56 7/8" (1445)  
**M.O. ADAMS/FLAT CASING** 59 7/8" (1521)  
**ROUGH OPENING** 54 1/8" (1375)  
**FRAME SIZE** 53 3/8" (1356)  
**DAYLIGHT OPENING** 47 15/32" (1206)

29 5/8" (752)  
31 1/8" (791)  
27 7/16" (697)  
26 11/16" (678)  
20 13/16" (529)



EWD53HRIS

32 5/16" (821)  
33 13/16" (859)  
30 1/8" (765)  
29 3/8" (746)  
23 15/32" (596)



EWD58HRIS

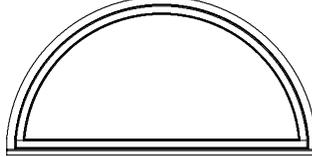
36 5/16" (922)  
37 13/16" (960)  
34 1/8" (867)  
33 3/8" (848)  
27 15/32" (698)



EWD66HRIS

**M.O. BRICKMOULD** 78 1/4" (1988)  
**M.O. ADAMS/FLAT CASING** 81 1/4" (2064)  
**ROUGH OPENING** 75 1/2" (1918)  
**FRAME SIZE** 74 3/4" (1899)  
**DAYLIGHT OPENING** 68 7/8" (1749)

40 5/16" (1024)  
41 13/16" (1062)  
38 1/8" (968)  
37 3/8" (949)  
31 15/32" (799)



EWD74HRIS

44 5/16" (1126)  
45 7/16" (1164)  
42 1/8" (1070)  
41 3/8" (1051)  
35 15/32" (901)



EWD82HRIS

86 1/4" (2191)  
89 1/4" (2267)  
83 1/2" (2121)  
82 3/4" (2102)  
76 7/8" (1953)

**ELEVATION SYMBOL LEGEND:**

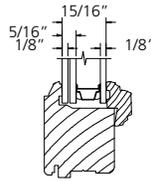
M.O. = MASONRY OPENING

VALUES IN ( ) ARE IN MILLIMETER CONVERSIONS

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.

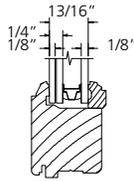
**GLAZING OPTIONS**

**INTERIOR GLAZING OPTIONS**



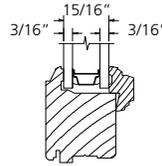
**PICTURE  
WINDOWS  
ONLY**

**7.3L//DS**



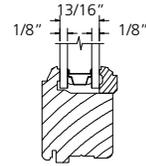
**CASEMENT  
PICTURE**

**7.0L//5/DS**



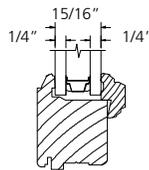
**PICTURE  
WINDOWS  
ONLY**

**3/16//3/16**



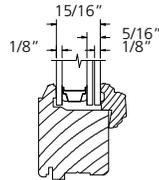
**CASEMENT  
PICTURE**

**5/DS//5/DS**



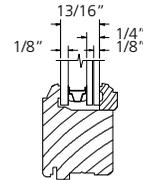
**PICTURE  
WINDOWS  
ONLY**

**1/4//1/4**



**PICTURE  
WINDOWS  
ONLY**

**DS//7.3L**



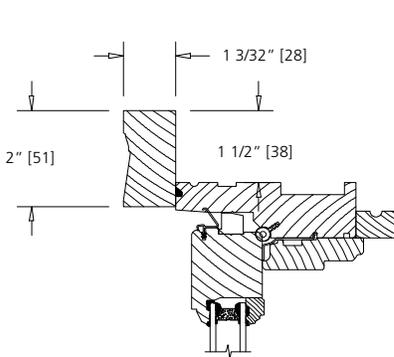
**CASEMENT  
PICTURE**

**5/DS//7.0L**

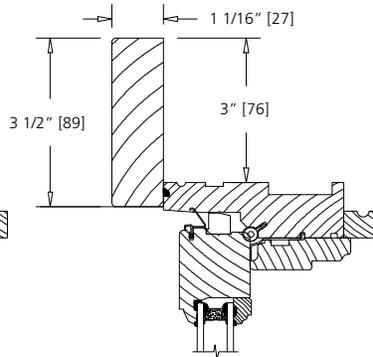
SCALE 3" = 1'

**TRIM OPTIONS**

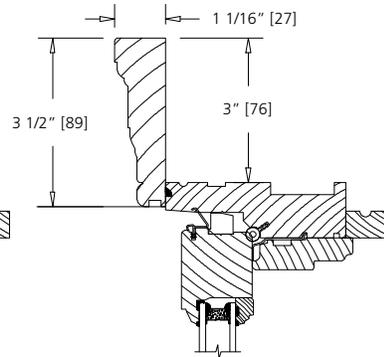
**WOOD EXTERIOR TRIM**



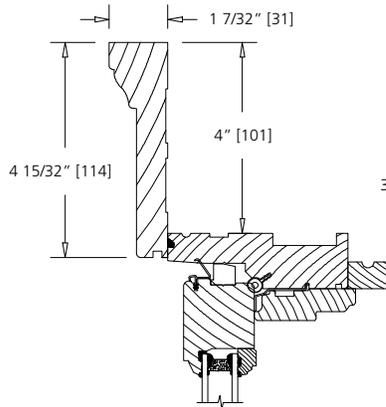
**BRICKMOULD**



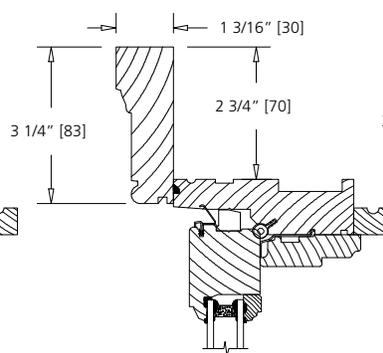
**FLAT CASING**



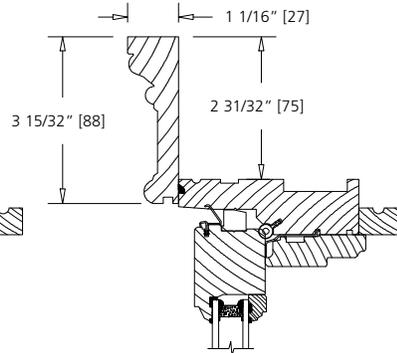
**ADAMS CASING**



**1 X 4 BACK BAND**

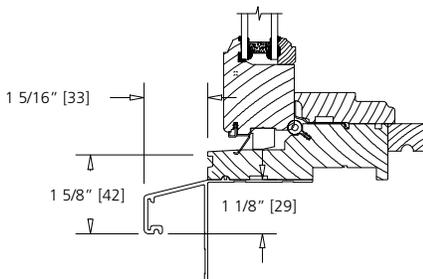


**WILLIAMSBURG**

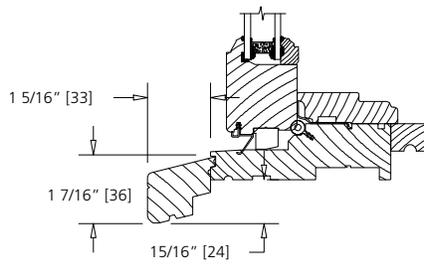


**RG 3 CASING**

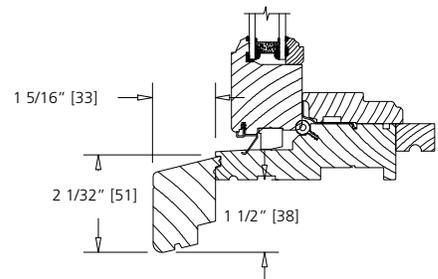
**WOOD SUBSILL OPTIONS**



**OPTIONAL  
(ALUMINUM)**



**STANDARD**

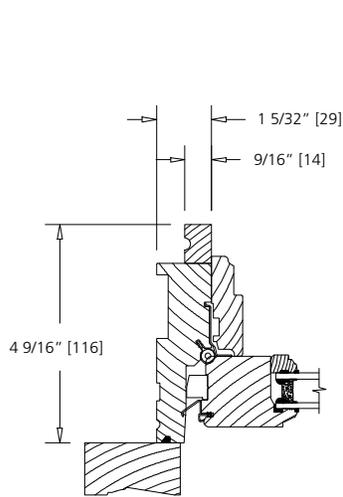


**2" SILL**

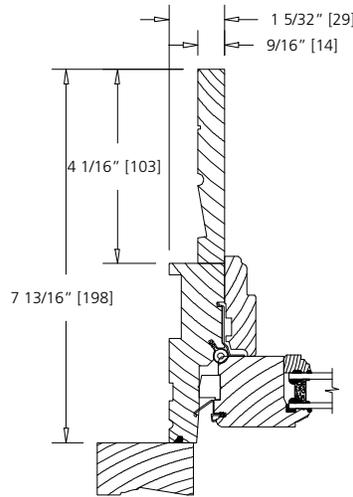
SCALE: 3" = 1'

**JAMB EXTENDER OPTIONS**

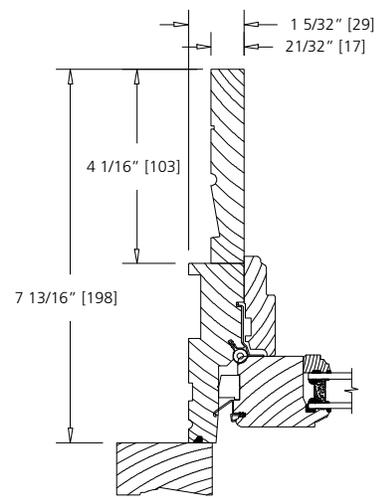
**JAMB EXTENDER & STUCCO TRIM OPTIONS**



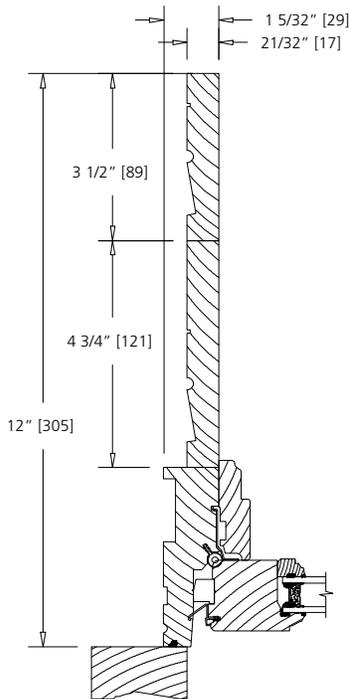
**4 9/16" WALL**  
9/16" JAMB THICKNESS (OPTION)



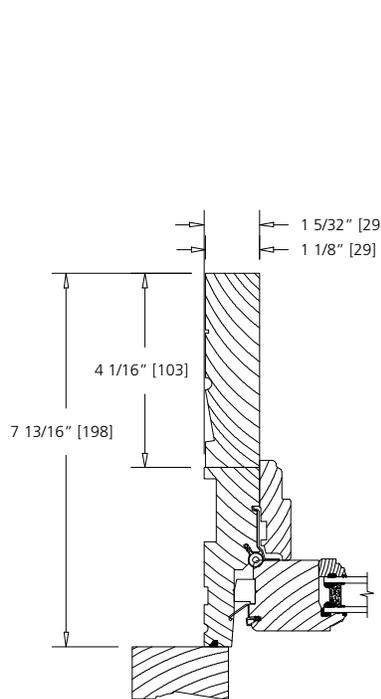
**7 13/16" WALL**



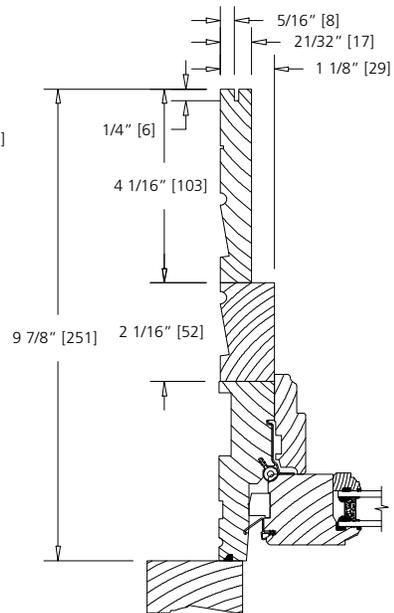
**7 13/16" WALL**  
4/4 JAMB THICKNESS (STANDARD)



**12" WALL**  
4/4 JAMB THICKNESS (STANDARD)  
2 PC JAMB EXTENSION SHOWN



**7 13/16" WALL**  
5/4 JAMB THICKNESS (OPTION)



**9 7/8" WALL**  
5/4-4/4 STACKED KERFED  
JAMB OPTION

**Notes:**  
Jamb Extension (9/16" thick) only available on Jambs up to 6 9/16".  
Jambs over 6 9/16" will only have a 4/4 or 5/4 option.  
Jambs over 8 1/2" up to 12" will be 2 layers.  
Kerfed Jamb Extension only available on 4/4 or 5/4 options.

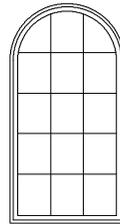
SCALE: 3" = 1'

**LITE CUT INFORMATION**

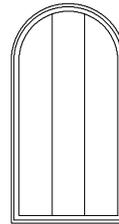
Wood in-sash geometric windows are available in 7/8", 1-1/8" and 1-3/8" widths for SDL (Simulated Divided Lites); 5/8" Flat, 23/32" and 1" Contour GBG (Grilles between the Glass); and 7/8", 1-1/8" and 1-3/8" Full Surround removable grilles. Standard lite cuts are rectangular.

**LITE CUT OPTIONS**

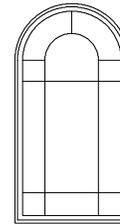
Special lite cut patterns can include a wide variety of straight line and radius patterns. The illustrations shown here represent just a few of the possibilities. Rectangular, horizontal, vertical and Prairie lite patterns are available in all standard size wood in-sash geometric windows. Uneven, diamond,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



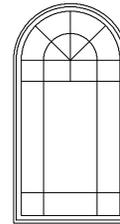
RECTANGULAR



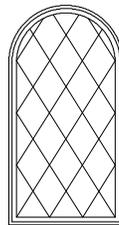
VERTICAL



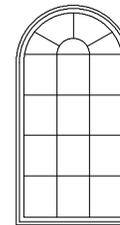
PRAIRIE



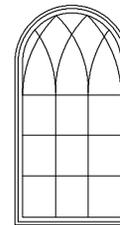
UNEVEN



DIAMOND



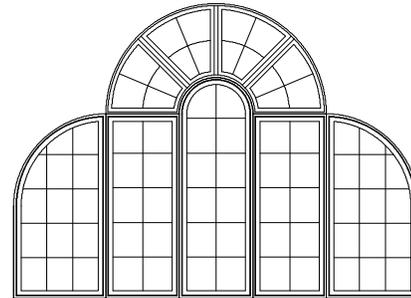
RADIUS



GOthic

**BAR ALIGNMENT**

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



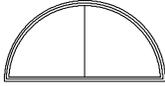
*Continued on next page*

---

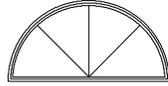
**LITE CUT INFORMATION**

---

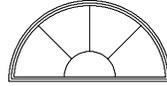
**HALF ROUND LITE PATTERNS**



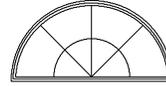
200 SERIES



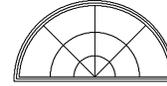
400 SERIES



500 SERIES



800 SERIES



1200 SERIES

**QUARTER ROUND LITE PATTERNS**



200 SERIES

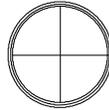


400 SERIES

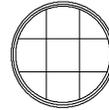


600 SERIES

**FULL ROUND LITE PATTERNS**

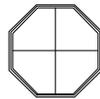


400 SERIES



900 SERIES

**OCTAGON LITE PATTERNS**



400 SERIES



900 SERIES

*Continued on next page*

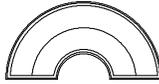
**LITE CUT INFORMATION**

**INVERTED RADIUS SILL NOTE:**

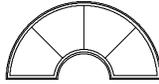
Windows with inverted radius sills have continuous head and sill configurations. The twin, triple and quad units utilize a mullion post as part of a single unit. Single lines represent grille and thermal bar lite break ups. Twin, triple and quad units are single units with mullion posts being represented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

**INVERTED HALF ROUND LITE PATTERNS**

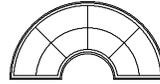
**INVERTED HALF ROUND SILL**



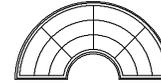
200 SERIES  
RADIUS HUB



400 SERIES

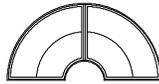


800 SERIES

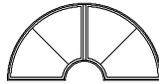


1200 SERIES

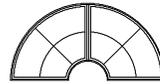
**INVERTED HALF ROUND SILL - TWIN**



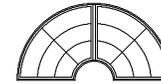
200 SERIES  
RADIUS HUB



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 LITE 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

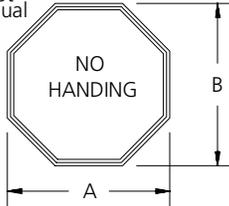


600 SERIES

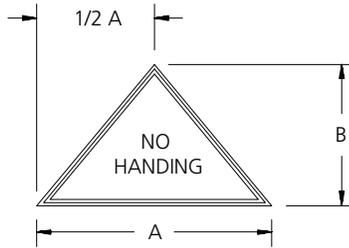
**NARROW SASH LAYOUT SHAPES  
ALL SIDES**

ALL GEOMETRIC WINDOW SHAPES ARE  
VIEWED FROM THE EXTERIOR.

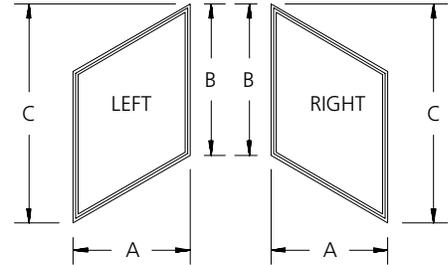
A and B do not  
have to be equal



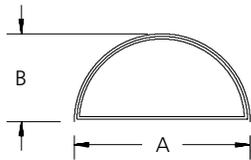
**OCTAGON**  
FIXED OR OPERATOR



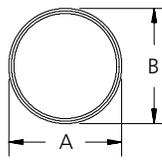
**TRIANGLE**  
STATIONARY ONLY



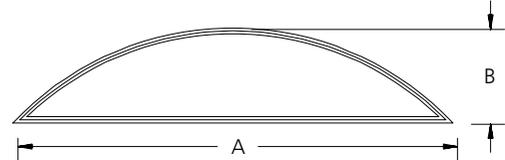
**PARALLELOGRAM**  
STATIONARY ONLY



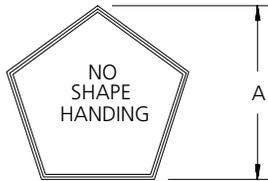
**HALF ROUND**  
STATIONARY ONLY



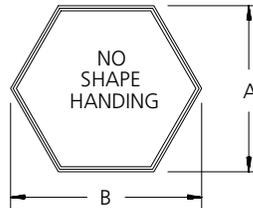
**FULL ROUND**  
STATIONARY ONLY



**CIRCLE SEGMENT**



**EQUAL PENTAGON**

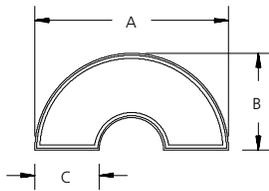


**HEXAGON**

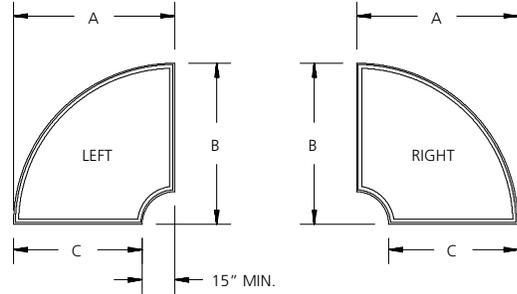
*Continued on next page*

**NARROW SASH LAYOUT SHAPES  
ALL SIDES**

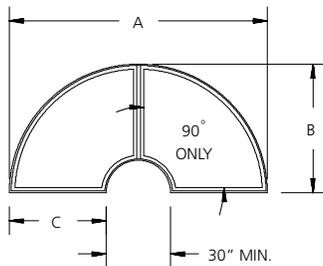
ALL GEOMETRIC WINDOW SHAPES ARE VIEWED FROM THE EXTERIOR.



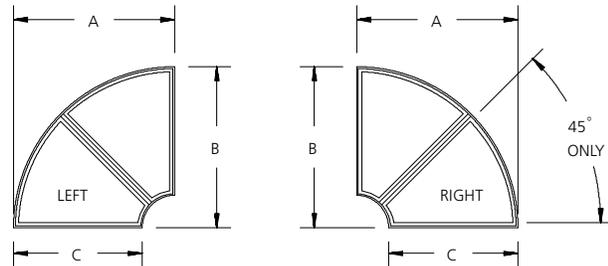
**INVERTED HALF ROUND  
FIXED ONLY**



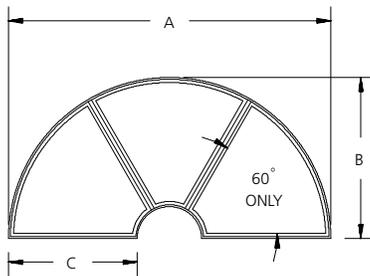
**INVERTED QUARTER ROUND  
FIXED ONLY**



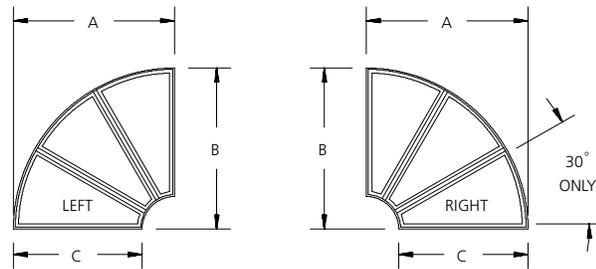
**INVERTED HALF ROUND - TWIN  
FIXED ONLY**



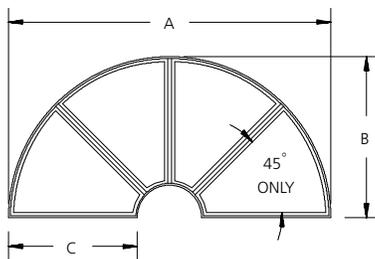
**INVERTED QUARTER ROUND - TWIN  
FIXED ONLY**



**INVERTED HALF ROUND - TRIPLE  
FIXED ONLY**



**INVERTED QUARTER ROUND - TRIPLE  
FIXED ONLY**

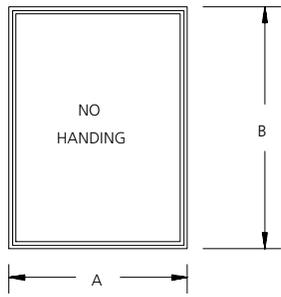


**INVERTED HALF ROUND - QUAD  
FIXED ONLY**

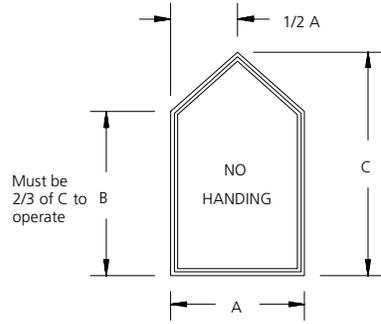
**INVERTED HALF ROUND AND QUARTER ROUND UNITS**

Inverted half round and quarter round units have continuous head and sill configurations which utilize mullion posts from frame to frame. See page 12-24 (Section Details & Dimensions) for mullion post specifications. The mullion posts are positioned radially from the center point of the sill radius.

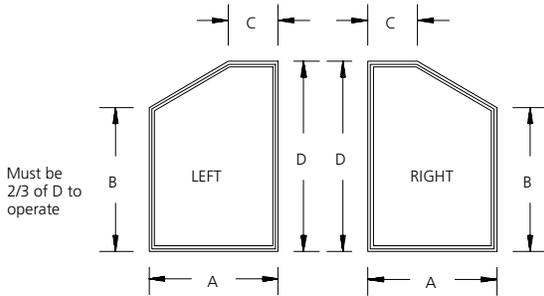
**STANDARD WIDE BOTTOM RAIL SHAPES**



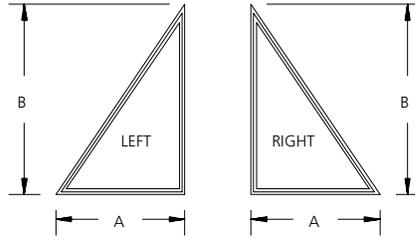
**RECTANGLE**  
STATIONARY OR OPERATOR



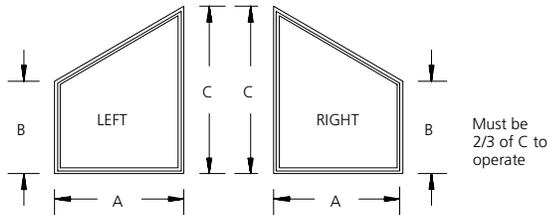
**PENTAGON**  
STATIONARY OR OPERATOR



**CLIPPED CORNER**  
STATIONARY OR OPERATOR



**RIGHT TRIANGLE**  
STATIONARY ONLY

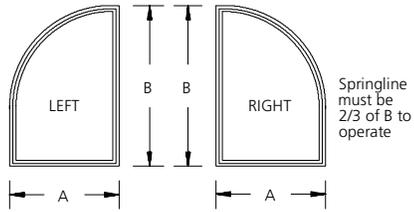


**TRAPEZOID**  
STATIONARY OR OPERATOR

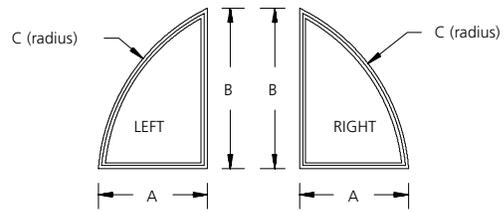
*Continued on next page*

**STANDARD WIDE BOTTOM RAIL SHAPES**

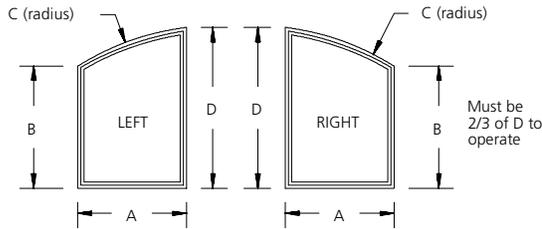
ALL GEOMETRIC WINDOW SHAPES ARE VIEWED FROM THE EXTERIOR.



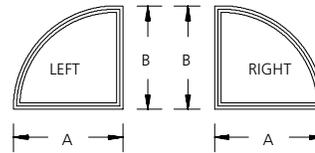
**EXTENDED  
QUARTER ROUND**  
STATIONARY ONLY



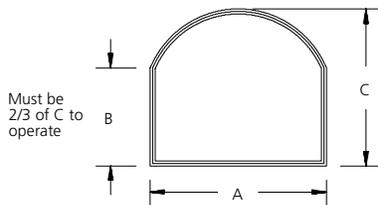
**QUARTER SEGMENT**  
STATIONARY ONLY



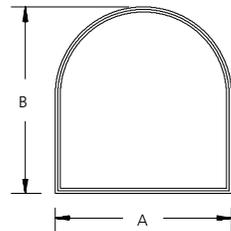
**EXTENDED  
QUARTER SEGMENT**  
STATIONARY OR OPERATOR



**QUARTER ROUND**  
STATIONARY ONLY

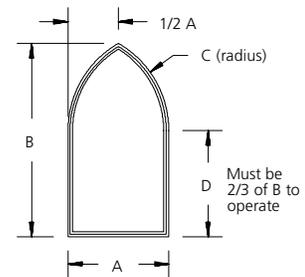


**EXTENDED  
CIRCLE SEGMENT**  
STATIONARY OR OPERATOR



**EXTENDED  
HALF ROUND**  
STATIONARY ONLY

Springline  
must be  
2/3 of B to  
operate

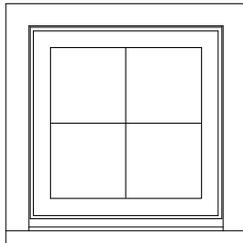
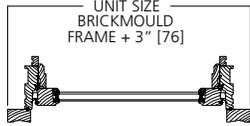


**GOthic**  
STATIONARY ONLY

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

**STANDARD OFFERING**

OF BRICKMOULD & SUBSILL



**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

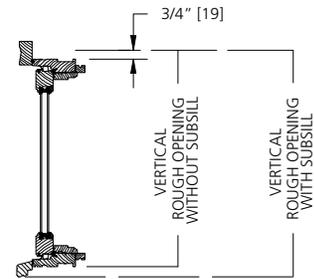
MASONRY OPENING:  
MASONRY OPENING IS ALWAYS 1/2" OVER  
THE UNIT SIZE OF THE WINDOW

**ROUGH OPENING:**

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

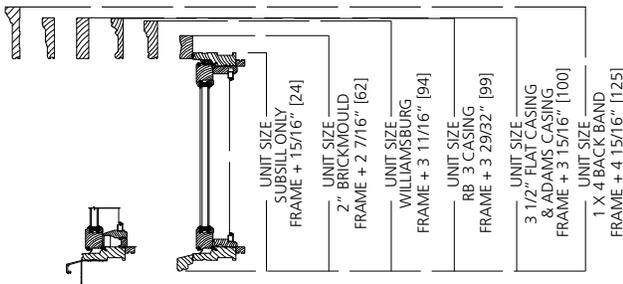


EXCEPTION: SEE DRAWING BELOW

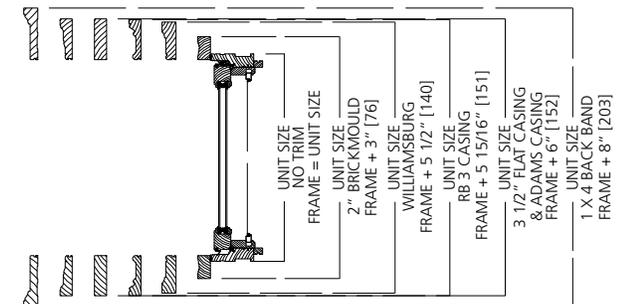


**NON-STANDARD UNIT SIZING**

EXTERIOR TRIM OFFERINGS WITH SUBSILL



EXTERIOR TRIM OFFERINGS WITHOUT SUBSILL  
EXTERIOR TRIM ON ALL 4 SIDES



UNIT SIZE  
1 X 4 BACK BAND  
FRAME + 8" [203]

UNIT SIZE  
3 1/2" FLAT CASING  
& ADAMS CASING  
FRAME + 6" [152]

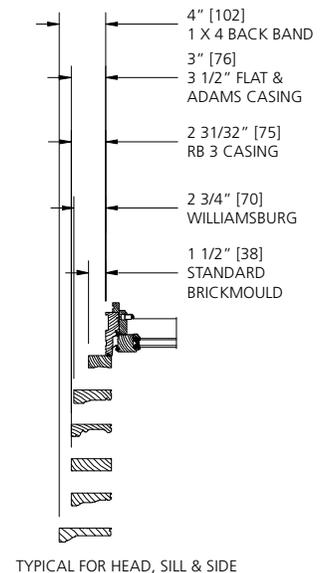
UNIT SIZE  
RB 3 CASING  
FRAME + 5 15/16" [151]

UNIT SIZE  
WILLIAMSBURG  
FRAME + 5 1/2" [140]

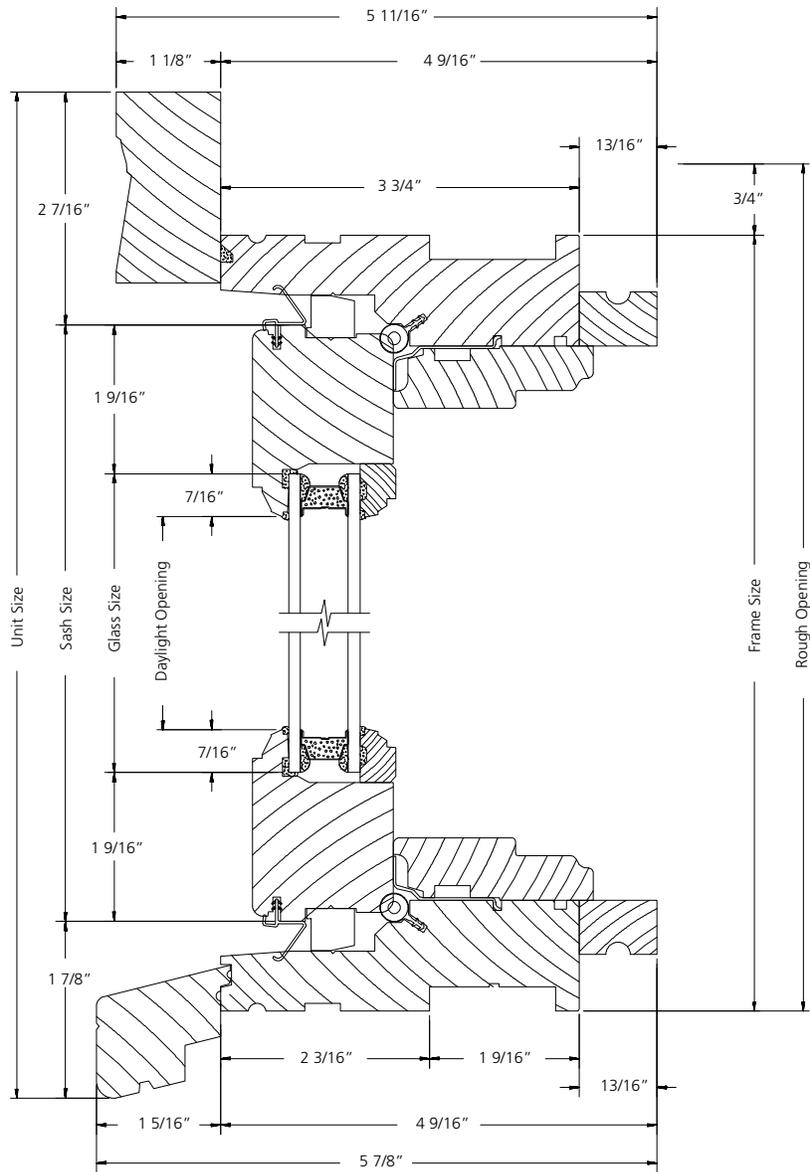
UNIT SIZE  
2" BRICKMOULD  
FRAME + 3" [76]

UNIT SIZE  
NO TRIM  
FRAME = UNIT SIZE

**FRAME TO TRIM DIMENSIONS**



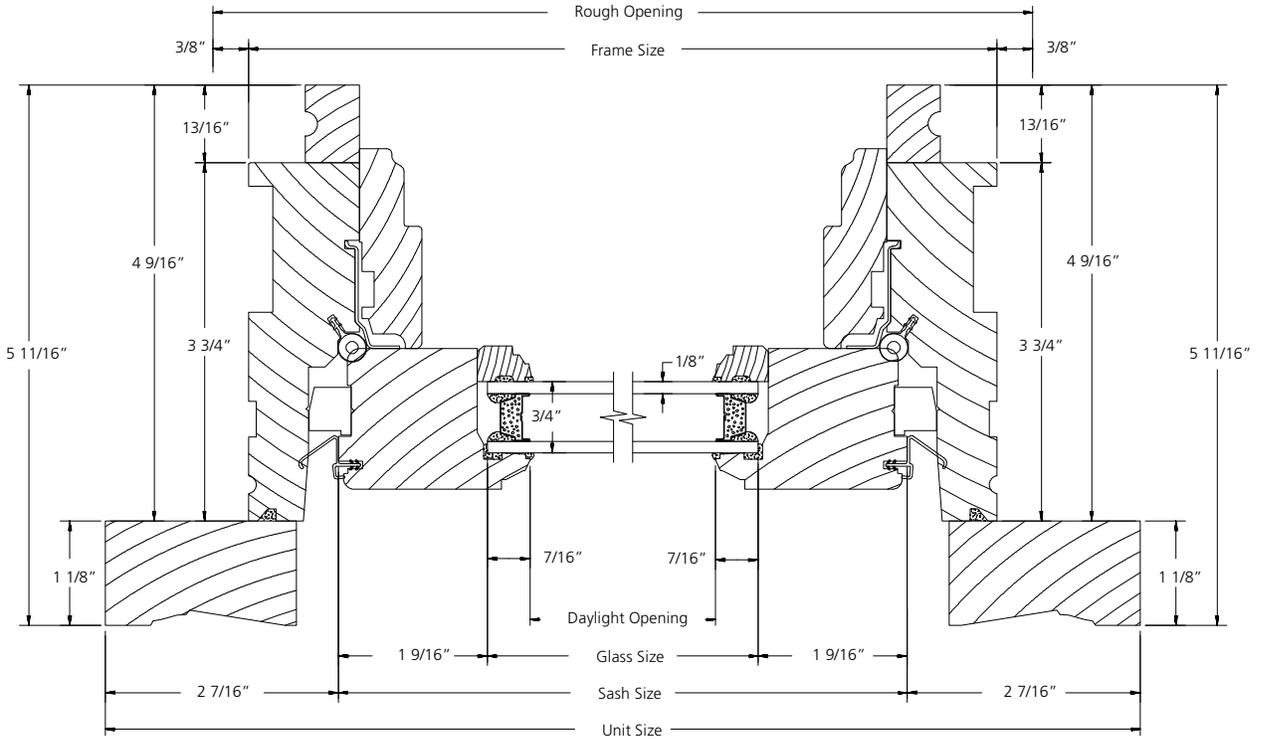
**IN-SASH UNIT**



**VERTICAL SECTION**

SCALE 6" = 1'

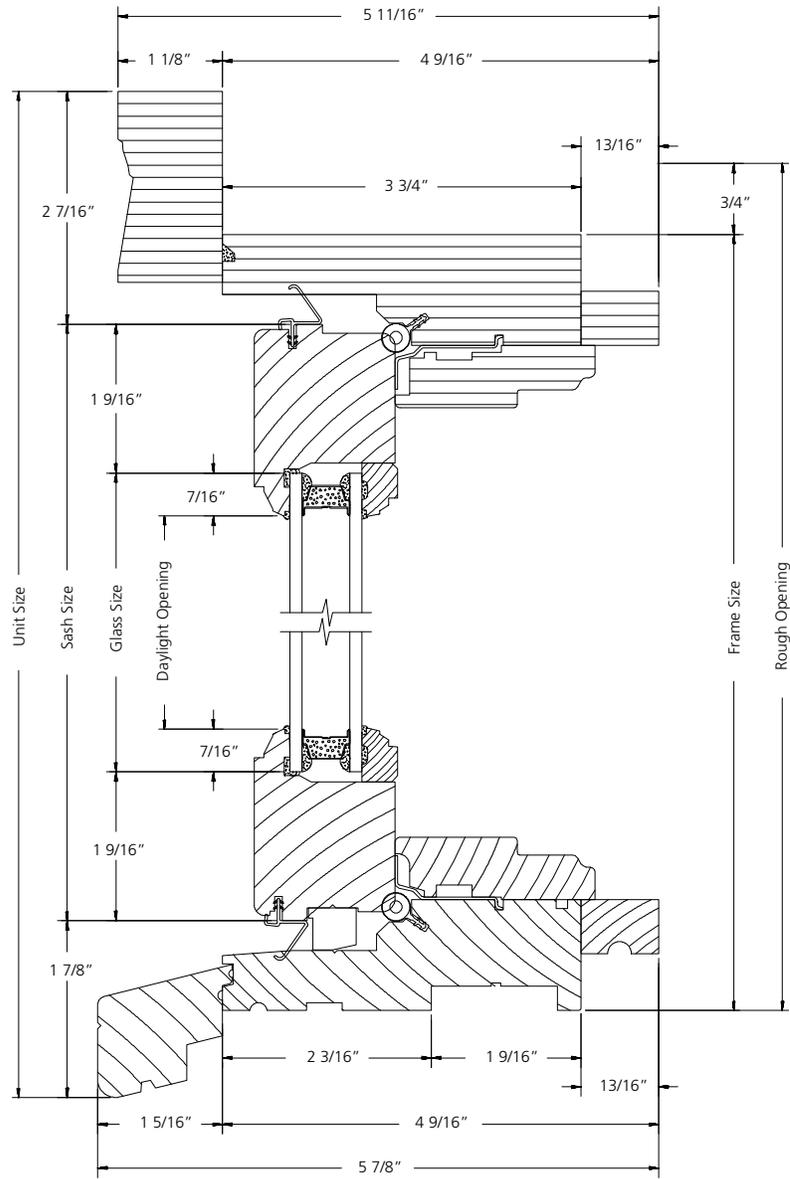
**IN-SASH UNIT**



**HORIZONTAL SECTION**

SCALE 6" = 1'

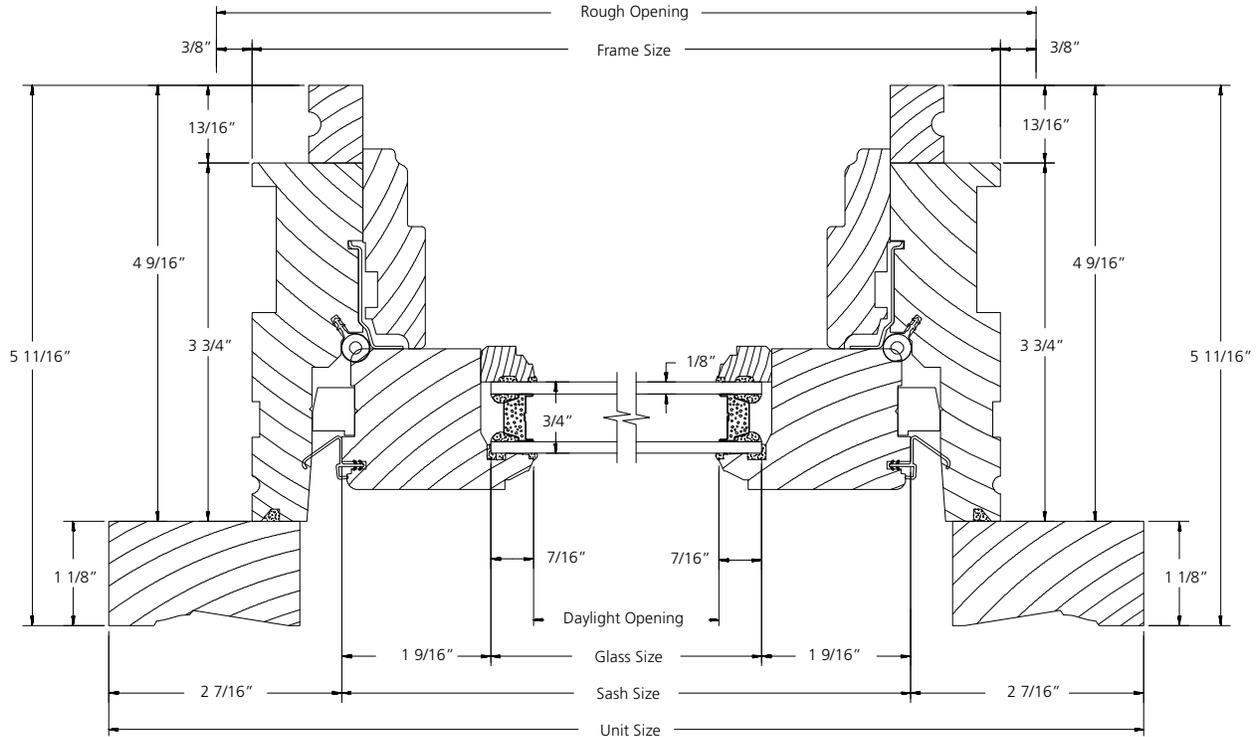
**IN-SASH RADIUS UNIT**



**VERTICAL SECTION**

SCALE 6" = 1'

**IN-SASH RADIUS UNIT**



**HORIZONTAL SECTION**

SCALE 6" = 1'