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PRODUCT SPECIFICATIONS

EXTERIOR FINISH

Exterior aluminum surfaces are finished with a fluoropolymer (70% Kynar 500®) multi-coat finish system to meet the performance standards required by AAMA specification #2605. 41 standard colors include Brilliant White, Chestnut Bronze, Desert Sand, French Vanilla, Hartford Green, Mesa Red, Black Licorice, Heirloom White, Hunter Green, Redwood, Sage Brown, Smoke, and more. Custom Color Matching 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. Optional interior wood species include vertical grain Douglas Fir, Mahogany and Knotty Alder.

FRAME

Frame is assembled from select kiln-dried pine AuraLast® wood on all exterior parts. Exterior surface is covered with .050 gauge extruded aluminum cladding. Standard jamb width is 4-9/16". Integral nailing fin is part of the frame extrusion on all four sides.

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 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" flat, 23/32" contour, or 1" contour grilles mounted between the glass panes suspended within the air cavity.

EXTERIOR TRIM

Drip cap and integral nailing fin standard with optional extruded aluminum brickmould, 3-1/2" flat, 3-1/2" Adams and Heritage trims. 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 7-15/16" for 4/4 and up to 12-1/2" for 5/4, factory applied.

INSTALLATION

Installation per JELD-WEN Installation Method for Metal Clad 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	- Brilliant White - Chestnut Bronze - Desert Sand - French Vanilla - Mesa Red - Hartford Green - Black Licorice - Heirloom White - Hunter Green - Redwood - Sage Brown - Smoke - Artic Silver - Dark Chocolate - Black Emerald - Bone White - Bronze - Buckskin - Cambridge White - Capri Blue - Cascade - Champagne - Clover Mist - Dark Buckskin - Dark Ivy - Deep Summer - Garnet - Haverstraw - Hudson Blue - Ivory - Ivy - Liberty Blue - Mocha Cream - Mosaic Green - Pueblo Tan - Rosewood - Scarlet Haze - Sea Foam - Teal - Wedgewood - White	Custom Color Matching
EXTERIOR TRIM	Drip Cap & Integral Nailing Fin	- Extruded Aluminum Brickmould - Adams Casing (2 pc) 3-1/2" Flat Casing (2 pc) - Heritage Casing
INTERIOR WOOD	Western Pine	- Knotty Alder - Vertical Grain Douglas Fir - Mahogany
INTERIOR FINISH	Natural	- Priming Available Pre-finished Interior Options are: - Paint - Pure White, Extra White, Natural Choice, Moderate White - Stain - Wheat, Fruitwood, Cherry, Cordovan, Cider - Clear Lacquer
SIZE	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.	- 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

Continued on next page

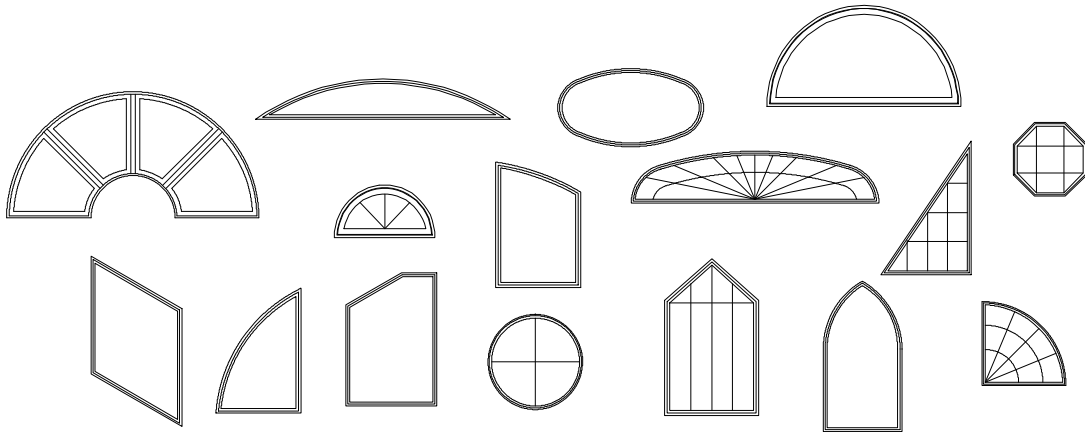
QUICK SPEC GUIDE

SPECIFICATION	STANDARD FEATURES	OPTIONAL FEATURES <i>Some options may require additional lead times. Consult your JELD-WEN Sales Representative.</i>
GLAZING	- Low-E Insulating Glass (with Argon) - Low-E 366 - Preserve® Protective Film	- Clear - Obscure - Reflective - Tints: Bronze, Gray, Green - Glue Chip - Safety Laminate in Clear, Bronze or Gray - Neat Glass - Seedy Reamy - Rain - Narrow Reed - Sandblasted - Tempered - Impact Resistant - High Altitude (Breather Tube, no Argon)
GRILLES		SDL Bead Profile: 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 SDL Putty Profile: 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 GBG (Grilles between the Glass): 5/8" Flat, 23/32" Contour, 1" Contour Full-Surround: 7/8", 1-1/8", 1-3/8"
JAMB	- Applied, 4/4 4-9/16"	- Up to 7-15/16" 4/4 - Up to 12-1/2" 5/4

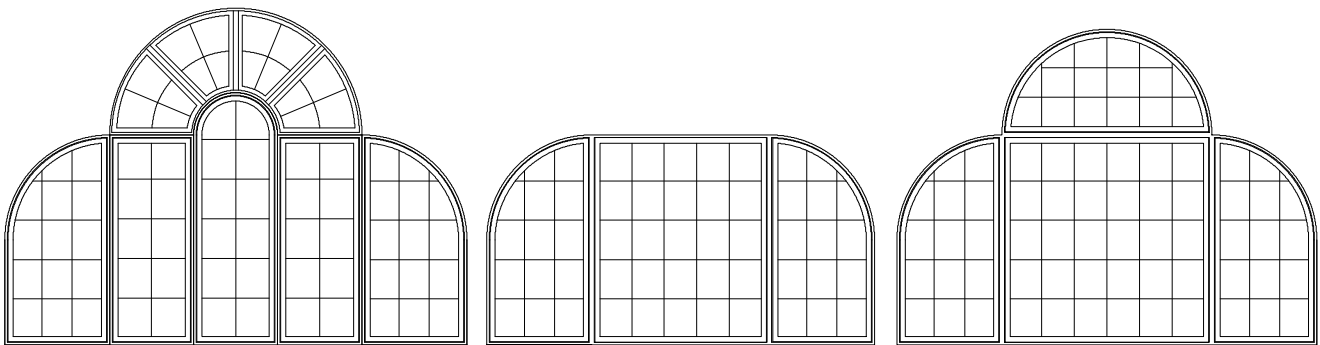
GENERAL INFORMATION

STANDARD SIZES & DESIGNS

Clad 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**

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

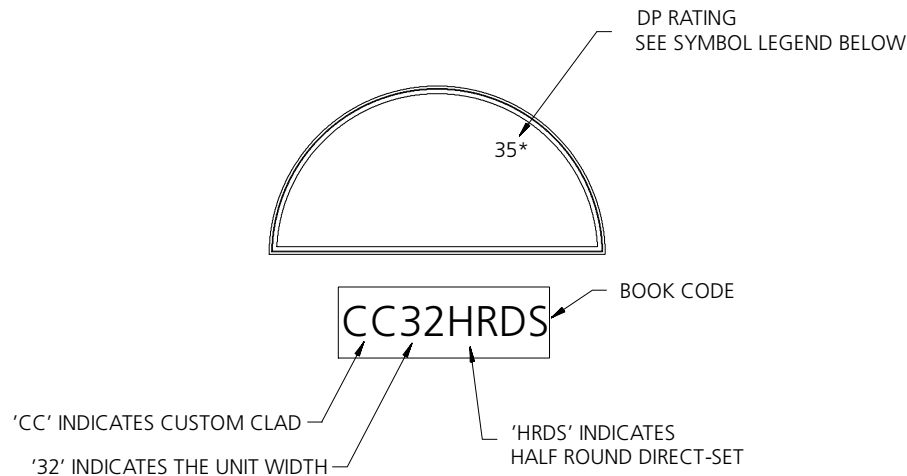


ELEVATION NOTES

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. CCXXHRDS | CUSTOM CLAD HALF ROUND DIRECT-SET |
| 2. CCDHRXXHRDS | CUSTOM CLAD DOUBLE-HUNG HALF ROUND DIRECT-SET |
| 3. CCIPDXXHRDS | CUSTOM CLAD IN-SWING PATIO DOOR HALF ROUND DIRECT-SET |
| 4. CCIPDTXXHRDS | CUSTOM CLAD IN-SWING PATIO DOOR TRUE HALF ROUND DIRECT-SET |
| 5. CCOPDXXHRDS | CUSTOM CLAD OUT-SWING PATIO DOOR HALF ROUND DIRECT-SET |
| 6. CCOPDTXXHRDS | CUSTOM CLAD OUT-SWING PATIO DOOR TRUE HALF ROUND DIRECT-SET |
| 7. CCXXQRDS | CUSTOM CLAD QUARTER ROUND DIRECT-SET |
| 8. CCXXFRDS | CUSTOM CLAD FULL ROUND DIRECT-SET |
| 9. CCOCXXXDS | CUSTOM CLAD OCTAGON DIRECT-SET |
| 10. CCDHRXXQRDS | CUSTOM CLAD 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 3-13/16" [97] 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 ON OPERATING OR STATIONARY UNITS.

SUBSILL RESTRICTIONS

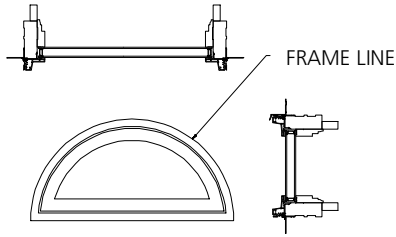
SUBSILL MAY NOT BE APPLIED TO OCTAGON, FULL ROUND, OVAL, INVERTED HALF ROUND, AND INVERTED QUARTER ROUND UNITS.

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



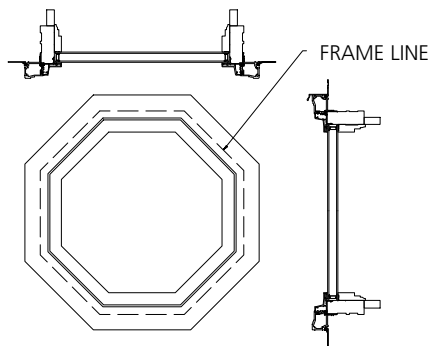
STANDARD GEOMETRIC ELEVATIONS

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 CLAD UNITS

All clad elevations are shown without any exterior trim. When mulling clad units the outside line is always the frame. Refer to Mullion Details for specifications.

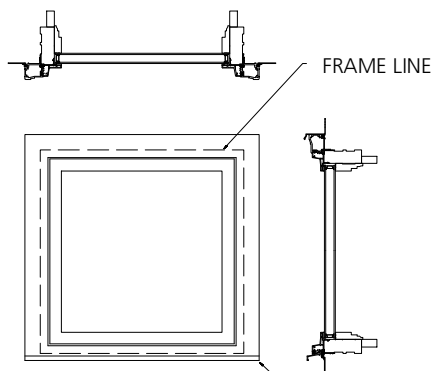
TRIM - ALL SIDES



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.

SUBSILL EXTENDS TO OUTSIDE
EDGE OF THE TRIM

FULL ROUND 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 7/32" (412)

27 1/4" (692)
30 5/16" (770)
24 3/4" (629)
24" (610)
20 7/32" (514)

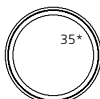
33 1/4" (845)
36 5/16" (922)
30 3/4" (781)
30" (762)
26 7/32" (666)

35 1/4" (895)
38 5/16" (973)
32 3/4" (832)
32" (813)
28 7/32" (717)

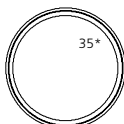
39 1/4" (997)
42 5/16" (1074)
36 3/4" (933)
36" (914)
32 7/32" (818)



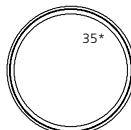
CC20 FRDS



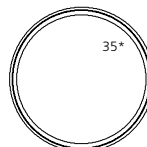
CC24 FRDS



CC30 FRDS



CC32 FRDS



CC36 FRDS

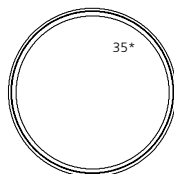
M.O. BRICKMOULD
M.O. ADAMS/FLAT CASING
ROUGH OPENING
FRAME SIZE
DAYLIGHT OPENING

45 1/4" (1149)
48 5/16" (1227)
42 3/4" (1086)
42" (1067)
38 7/32" (971)

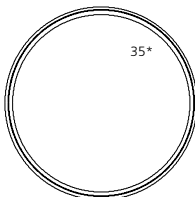
51 1/4" (1302)
54 5/16" (1379)
48 3/4" (1238)
48" (1219)
44 7/32" (1123)

57 1/4" (1454)
60 5/16" (1532)
54 3/4" (1391)
54" (1372)
50 7/32" (1276)

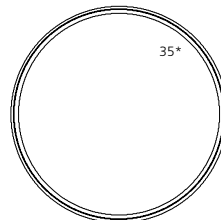
63 1/4" (1607)
66 5/16" (1684)
60 3/4" (1543)
60" (1524)
56 7/32" (1428)



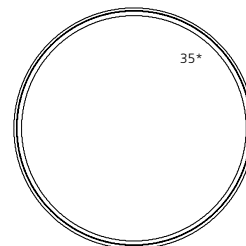
CC42 FRDS



CC48 FRDS



CC54 FRDS



CC60 FRDS

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.

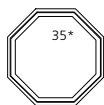
SCALE: 1/4" = 1'

OCTAGON UNITS

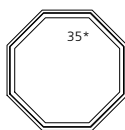
M.O. BRICKMOULD	23 1/4" (591)	27 1/4" (692)	33 1/4" (845)	35 1/4" (895)
M.O. ADAMS/FLAT CASING	26 5/16" (668)	30 5/16" (770)	36 5/16" (922)	38 5/16" (973)
ROUGH OPENING	20 3/4" (527)	24 3/4" (629)	30 3/4" (781)	32 3/4" (832)
FRAME SIZE	20" (508)	24" (610)	30" (762)	32" (813)
DAYLIGHT OPENING	16 7/32" (412)	20 7/32" (514)	26 7/32" (666)	28 7/32" (717)



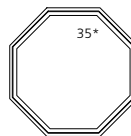
CCOCT20DS



CCOCT24DS

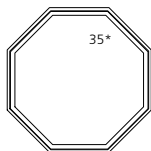


CCOCT30DS

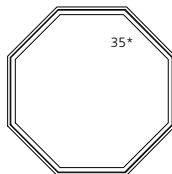


CCOCT32DS

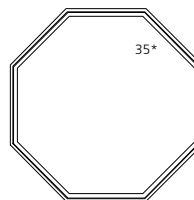
M.O. BRICKMOULD	39 1/4" (997)	45 1/4" (1149)	51 1/4" (1302)
M.O. ADAMS/FLAT CASING	42 5/16" (1074)	48 5/16" (1227)	54 5/16" (1379)
ROUGH OPENING	36 3/4" (933)	42 3/4" (1086)	48 3/4" (1238)
FRAME SIZE	36" (914)	42" (1067)	48" (1219)
DAYLIGHT OPENING	32 7/32" (818)	38 7/32" (971)	44 7/32" (1123)



CCOCT36DS



CCOCT42DS



CCOCT48DS

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. BRICKMOULD 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) 13 3/4" (349)	23 1/4" (591) 26 5/16" (668) 20 3/4" (527) 20" (508) 15 3/4" (400)	27 1/4" (692) 30 5/16" (770) 24 3/4" (629) 24" (610) 19 3/4" (502)	31 1/4" (794) 34 5/16" (871) 28 3/4" (730) 28" (711) 23 3/4" (603)	33 1/4" (845) 36 5/16" (922) 30 3/4" (781) 30" (762) 25 3/4" (654)
	11 1/2" (292) 9 1/2" (241) 9 3/4" (248) 9" (229) 4 13/64" (107)	12 1/2" (318) 14" (256) 10 3/4" (273) 10" (254) 5 13/64" (132)	14 1/2" (368) 16" (406) 12 3/4" (324) 12" (305) 7 13/64" (183)	16 1/2" (419) 18" (457) 14 3/4" (375) 14" (356) 9 13/64" (233)	17 1/2" (445) 19" (483) 15 3/4" (400) 15" (381) 10 13/64" (259)
	 CC18HRDS	 CC20HRDS	 CC24HRDS	 CC28HRDS	 CC30HRDS
M.O. BRICKMOULD 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) 27 3/4" (705)	39 1/4" (997) 42 5/16" (1074) 36 3/4" (933) 36" (914) 31 3/4" (806)	43 1/4" (1099) 46 5/16" (1176) 40 3/4" (1035) 40" (1016) 35 3/4" (908)	45 1/4" (1149) 48 5/16" (1227) 42 3/4" (1086) 42" (1067) 37 3/4" (959)	
	18 1/2" (470) 20" (508) 16 3/4" (425) 16" (406) 11 13/64" (284)	20 1/2" (521) 22" (559) 18 3/4" (476) 18" (457) 13 13/64" (335)	22 1/2" (571) 24" (610) 20 3/4" (527) 20" (508) 15 13/64" (386)	23 1/2" (597) 25" (635) 21 3/4" (552) 21" (533) 16 13/64" (411)	
	 CC32HRDS	 CC36HRDS	 CC40HRDS	 CC42HRDS	
M.O. BRICKMOULD M.O. ADAMS/FLAT CASING ROUGH OPENING FRAME SIZE DAYLIGHT OPENING	51 1/4" (1302) 54 5/16" (1379) 48 3/4" (1238) 48" (1219) 43 3/4" (1111)	57 1/4" (1454) 60 5/16" (1532) 54 3/4" (1391) 54" (1372) 49 3/4" (1264)	59 1/4" (1505) 62 5/16" (1582) 56 3/4" (1441) 56" (1422) 51 3/4" (1314)		
	26 1/2" (673) 28" (711) 24 3/4" (629) 24" (610) 19 13/64" (488)	29 1/2" (749) 31" (787) 27 3/4" (705) 27" (686) 22 13/64" (564)	30 1/2" (775) 32" (813) 28 3/4" (730) 28" (711) 23 13/64" (589)		
	 CC48HRDS	 CC54HRDS	 CC56HRDS		
M.O. BRICKMOULD M.O. ADAMS/FLAT CASING ROUGH OPENING FRAME SIZE DAYLIGHT OPENING	63 1/4" (1607) 66 5/16" (1684) 60 3/4" (1543) 60" (1524) 55 3/4" (1416)	67 1/4" (1708) 70 5/16" (1786) 64 3/4" (1645) 64" (1626) 59 3/4" (1518)	69 1/4" (1759) 72 5/16" (1836) 66 3/4" (1695) 66" (1676) 61 3/4" (1568)		
	32 1/2" (826) 34" (864) 30 3/4" (781) 30" (762) 25 13/64" (640)	34 1/2" (876) 36" (914) 32 3/4" (832) 32" (813) 27 13/64" (691)	35 1/2" (902) 37" (940) 33 3/4" (857) 33" (838) 28 13/64" (716)		
	 CC60HRDS	 CC64HRDS	 CC66HRDS		
M.O. BRICKMOULD M.O. ADAMS/FLAT CASING ROUGH OPENING FRAME SIZE DAYLIGHT OPENING	75 1/4" (1911) 78 5/16" (1989) 72 3/4" (1848) 72" (1829) 67 3/4" (1721)	87 1/4" (2216) 90 5/16" (2294) 84 3/4" (2153) 84" (2134) 79 3/4" (2026)			
	38 1/2" (978) 40" (1016) 36 3/4" (933) 36" (914) 31 13/64" (792)	44 1/2" (1130) 46" (1168) 42 3/4" (1086) 42" (1067) 37 13/64" (945)			
	 CC72HRDS	 CC84HRDS			

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'

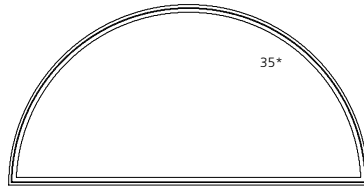
CASEMENT HALF ROUND UNITS

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

93 1/4" (2369)
96 5/16" (2446)
90 3/4" (2305)
90" (2218)
85 3/4" (2178)

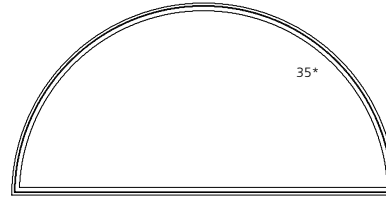
99 1/4" (2521)
102 5/16" (2598)
96 3/4" (2457)
96" (2438)
91 3/4" (2330)

47 1/2" (1207)
49" (1245)
45 3/4" (1162)
45" (1143)
40 13/64" (1021)



CC90HRDS

50 1/2" (1283)
52" (1321)
48 3/4" (1238)
48" (1219)
43 13/64" (1097)



CC96HRDS

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.

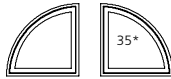
SCALE: 1/4" = 1'

CASEMENT QUARTER ROUND UNITS

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

20 1/4" (523)
23 5/16" (601)
18 3/4" (476)
18" (457)
14 7/16" (367)

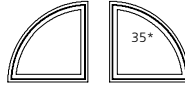
20 1/4" (523)
23 5/16" (601)
18 3/4" (476)
18" (457)
14 7/16" (367)



CC18QRDS

23 1/4" (591)
26 5/16" (668)
20 3/4" (527)
20" (508)
16 7/16" (418)

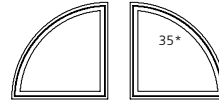
23 1/4" (591)
26 5/16" (668)
20 3/4" (527)
20" (508)
16 7/16" (418)



CC20QRDS

27 1/4" (692)
30 5/16" (770)
24 3/4" (629)
24" (610)
20 7/16" (519)

27 1/4" (692)
30 5/16" (770)
24 3/4" (629)
24" (610)
20 7/16" (519)

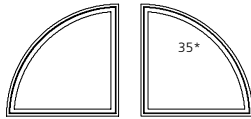


CC24QRDS

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

31 1/4" (794)
34 5/16" (871)
28 3/4" (730)
28" (711)
24 7/16" (672)

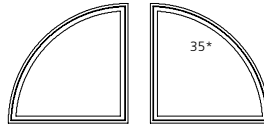
31 1/4" (794)
34 5/16" (871)
28 3/4" (730)
28" (711)
24 7/16" (672)



CC28QRDS

33 1/4" (845)
36 5/16" (922)
30 3/4" (781)
30" (762)
26 7/16" (672)

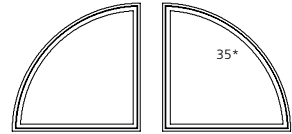
33 1/4" (845)
36 5/16" (922)
30 3/4" (781)
30" (762)
26 7/16" (672)



CC30QRDS

35 1/4" (895)
38 5/16" (973)
32 3/4" (832)
32" (813)
28 7/16" (722)

35 1/4" (895)
38 5/16" (973)
32 3/4" (832)
32" (813)
28 7/16" (722)

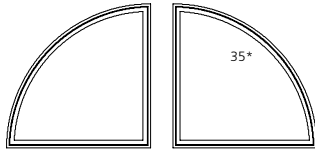


CC32QRDS

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 7/16" (824)

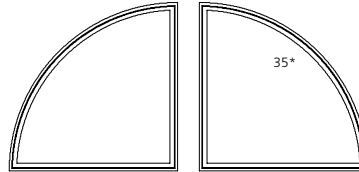
39 1/4" (997)
42 5/16" (1074)
36 3/4" (933)
36" (914)
32 7/16" (824)



CC36QRDS

45 1/4" (1149)
48 5/16" (1227)
42 3/4" (1086)
42" (1067)
38 7/16" (976)

45 1/4" (1149)
48 5/16" (1227)
42 3/4" (1086)
42" (1067)
38 7/16" (976)

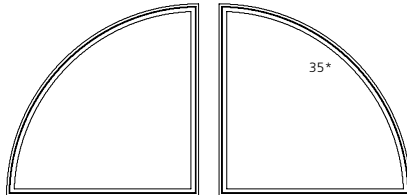


CC42QRDS

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

51 1/4" (1302)
54 5/16" (1379)
48 3/4" (1238)
48" (1219)
44 7/16" (1129)

51 1/4" (1302)
54 5/16" (1379)
48 3/4" (1238)
48" (1219)
44 7/16" (1129)



CC48QRDS

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

M.O. BRICKMOULD
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 5/32" (436)

28 5/8" (727)
31 11/16" (805)
26 1/8" (664)
25 3/8" (645)
21 5/32" (537)

32 5/8" (829)
35 11/16" (906)
30 1/8" (765)
29 3/8" (746)
25 5/32" (639)

36 5/8" (930)
39 11/16" (1008)
34 1/8" (867)
33 3/8" (848)
29 5/32" (741)

40 5/8" (1032)
43 11/16" (1109)
38 1/8" (968)
37 3/8" (949)
33 5/32" (842)

13 3/16" (336)
14 11/16" (374)
11 7/16" (290)
10 11/16" (272)
6 57/64" (175)



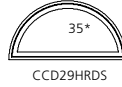
CCD21HRDS

15 3/16" (386)
16 11/16" (424)
13 7/16" (341)
12 11/16" (322)
8 57/64" (226)



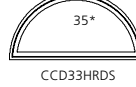
CCD25HRDS

17 3/16" (437)
18 11/16" (475)
15 7/16" (392)
14 11/16" (373)
10 57/64" (277)



CCD29HRDS

19 3/16" (487)
20 11/16" (525)
17 7/16" (443)
16 11/16" (424)
12 57/64" (327)



CCD33HRDS

21 3/16" (538)
22 11/16" (576)
19 7/16" (494)
18 11/16" (475)
14 57/64" (378)



CCD37HRDS

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

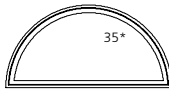
44 5/8" (1133)
47 11/16" (1211)
42 1/8" (1064)
41 3/8" (1051)
37 5/32" (944)

48 5/8" (1235)
51 11/16" (1313)
46 1/8" (1165)
45 3/8" (1153)
41 5/32" (1045)

46" (1168)
49 1/16" (1246)
43 1/2" (1105)
42 3/4" (1086)
38 49/64" (985)

54" (1372)
57 1/16" (1449)
51 1/2" (1308)
50 3/4" (1289)
46 49/64" (1188)

23 3/16" (589)
24 11/16" (627)
21 7/16" (544)
20 11/16" (525)
16 57/64" (429)



CCD41HRDS

25 3/16" (640)
26 11/16" (678)
23 7/16" (595)
22 11/16" (576)
18 57/64" (480)



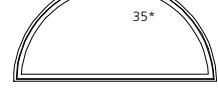
CCD45HRDS

23 7/8" (606)
25 3/8" (645)
22 1/8" (562)
21 3/8" (543)
17 37/64" (446)



CCD21-2HRDS

27 7/8" (708)
29 3/8" (746)
26 1/8" (664)
25 3/8" (645)
21 37/64" (548)



CCD25-2HRDS

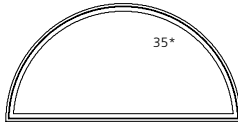
M.O. BRICKMOULD
M.O. ADAMS/FLAT CASING
ROUGH OPENING
FRAME SIZE
DAYLIGHT OPENING

62" (1575)
65 1/16" (1652)
59 1/2" (1511)
58 3/4" (1492)
54 49/64" (1391)

70" (1778)
73 1/16" (1855)
67 1/2" (1715)
66 3/4" (1695)
62 49/64" (1594)

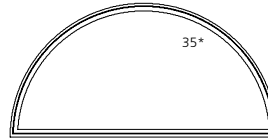
78" (1981)
81 1/16" (2059)
75 1/2" (1918)
74 3/4" (1899)
70 49/64" (1797)

31 7/8" (810)
33 3/8" (848)
30 1/8" (765)
29 3/8" (746)
25 37/64" (650)



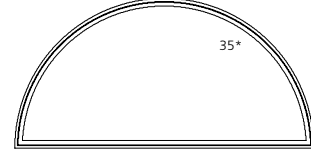
CCD29-2HRDS

35 7/8" (911)
37 3/8" (949)
34 1/8" (867)
33 3/8" (848)
29 37/64" (751)



CCD33-2HRDS

40 5/8" (1032)
43 11/16" (1109)
38 1/8" (968)
37 3/8" (949)
33 37/64" (853)



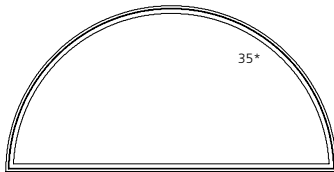
CCD37-2HRDS

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

86" (2184)
89 1/16" (2262)
83 1/2" (2121)
82 3/4" (2102)
78 49/64" (2001)

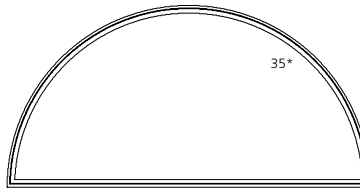
94" (2388)
97 1/16" (2465)
91 1/2" (2324)
90 3/4" (2305)
86 49/64" (2204)

43 7/8" (1114)
45 3/8" (1153)
42 1/8" (1070)
41 3/8" (1051)
37 37/64" (954)



CCD41-2HRDS

47 7/8" (1216)
49 3/8" (1254)
46 1/8" (1171)
45 3/8" (1153)
41 37/64" (1056)



CCD45-2HRDS

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.

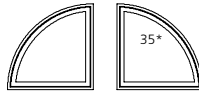
SCALE: 1/4" = 1'

DOUBLE-HUNG QUARTER ROUND UNITS

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

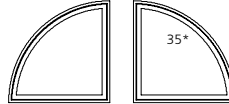
24 5/8" (625)
27 11/16" (703)
22 1/8" (562)
21 3/8" (543)
17 1/2" (445)

23 7/8" (606)
25 3/8" (645)
22 1/8" (562)
21 3/8" (543)
17 1/2" (445)



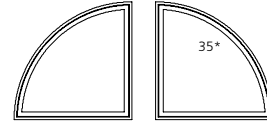
CCD21QRDS

27 7/8" (708)
29 3/8" (746)
26 1/8" (664)
25 3/8" (645)
21 33/64" (547)



CCD25QRDS

31 7/8" (810)
33 3/8" (848)
30 1/8" (765)
29 3/8" (746)
25 17/32" (648)

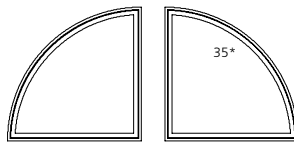


CCD29QRDS

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

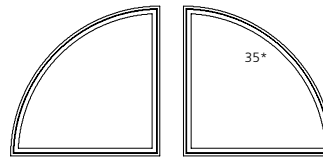
36 5/8" (930)
39 11/16" (1008)
34 1/8" (867)
33 3/8" (848)
29 35/64" (751)

35 7/8" (911)
37 3/8" (949)
34 1/8" (867)
33 3/8" (848)
29 35/64" (751)



CCD33QRDS

39 7/8" (1013)
41 3/8" (1051)
38 1/8" (968)
37 3/8" (949)
33 35/64" (842)



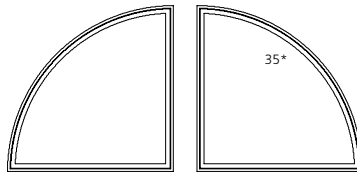
CCD37QRDS

40 5/8" (1032)
43 11/16" (1109)
38 1/8" (968)
37 3/8" (949)
33 35/64" (852)

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

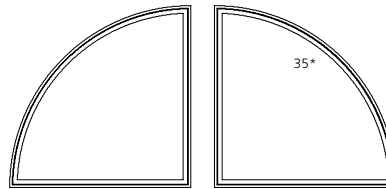
44 5/8" (1133)
47 11/16" (1211)
42 1/8" (1070)
41 3/8" (1051)
41 35/64" (954)

43 7/8" (1114)
45 3/8" (1153)
42 1/8" (1070)
41 3/8" (1051)
41 35/64" (954)



CCD41QRDS

47 7/8" (1216)
49 3/8" (1254)
46 1/8" (1172)
45 3/8" (1153)
41 35/64" (1055)



CCD45QRDS

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 17/64" (489)

32 11/16" (830)
35 3/4" (908)
30 3/16" (767)
29 7/16" (748)
25 23/64" (644)

34 11/16" (881)
37 3/4" (959)
32 3/16" (818)
31 7/16" (799)
27 3/8" (695)

38 11/16" (983)
41 3/4" (1060)
36 3/16" (919)
35 7/16" (900)
31 13/32" (789)

49 7/8" (1267)
52 15/16" (1344)
47 3/8" (1203)
46 5/8" (1184)
42 21/32" (1083)

14 1/4" (361)
15 3/4" (399)
12 1/2" (318)
11 3/4" (298)
7 59/64" (201)



CCIPD20HRDS

17 1/4" (437)
18 3/4" (475)
15 1/2" (394)
14 3/4" (374)
10 59/64" (277)



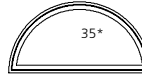
CCIPD26HRDS

18 1/4" (463)
19 3/4" (501)
16 1/2" (419)
15 3/4" (399)
11 59/64" (303)



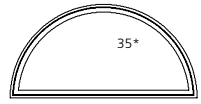
CCIPD28HRDS

20 1/4" (514)
21 3/4" (552)
18 1/2" (470)
17 3/4" (450)
13 59/64" (354)



CCIPD30HRDS

25 13/16" (656)
27 5/16" (694)
24 1/16" (611)
23 5/16" (592)
19 33/64" (496)



CCIPD40HRDS

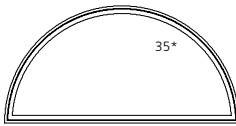
M.O. BRICKMOULD
M.O. ADAMS/FLAT CASING
ROUGH OPENING
FRAME SIZE
DAYLIGHT OPENING

61 7/8" (1572)
64 15/16" (1649)
59 3/8" (1508)
58 5/8" (1489)
54 11/16" (1389)

65 7/8" (1673)
68 15/16" (1751)
63 3/8" (1610)
62 5/8" (1591)
58 45/64" (1491)

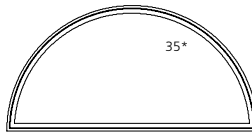
73 7/8" (1876)
76 15/16" (1954)
71 3/8" (1813)
70 5/8" (1794)
66 23/32" (1695)

31 13/16" (808)
33 5/16" (846)
30 1/16" (764)
29 5/16" (745)
25 33/64" (648)



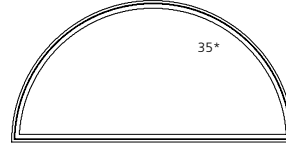
CCIPD50HRDS

33 13/16" (859)
35 5/16" (897)
32 1/16" (814)
31 5/16" (795)
27 33/64" (699)



CCIPD54HRDS

37 13/16" (960)
39 5/16" (999)
36 1/16" (916)
35 5/16" (897)
31 33/64" (800)



CCIPD60HRDS

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 19/64" (541)

36 11/16" (932)
39 3/4" (1009)
34 3/16" (868)
33 7/16" (849)
29 25/64" (747)

40 11/16" (1033)
43 3/4" (1111)
38 3/16" (970)
37 7/16" (951)
33 27/64" (849)

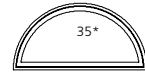
46 11/16" (1186)
49 3/4" (1263)
44 3/16" (1122)
43 7/16" (1103)
39 29/64" (1002)

15 1/4" (387)
16 3/4" (425)
13 1/2" (343)
12 3/4" (323)
8 59/64" (227)



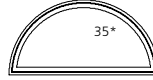
CCIPDT20HRDS

19 1/4" (488)
20 3/4" (526)
17 1/2" (445)
16 3/4" (425)
12 59/64" (328)



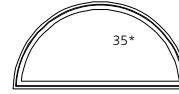
CCIPDT28HRDS

21 1/4" (539)
22 3/4" (577)
19 1/2" (495)
18 3/4" (475)
14 59/64" (379)



CCIPDT30HRDS

24 1/4" (615)
25 3/4" (653)
22 1/2" (572)
21 3/4" (553)
17 59/64" (455)



CCIPDT36HRDS

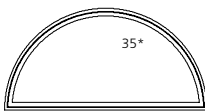
M.O. BRICKMOULD
M.O. ADAMS/FLAT CASING
ROUGH OPENING
FRAME SIZE
DAYLIGHT OPENING

53 7/8" (1368)
56 15/16" (1446)
51 3/8" (1305)
50 5/8" (1286)
46 43/64" (1185)

69 7/8" (1775)
72 1/2" (1852)
67 3/8" (1711)
66 5/8" (1692)
62 45/64" (1592)

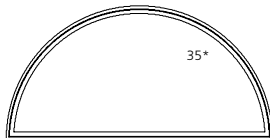
77 7/8" (1978)
80 1/2" (2055)
75 3/8" (1915)
74 5/8" (1895)
70 23/32" (1796)

27 13/16" (706)
29 5/16" (745)
26 1/16" (662)
25 5/16" (643)
21 33/64" (546)



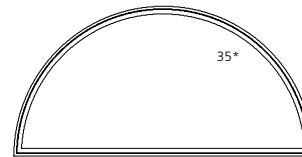
CCIPDT40HRDS

35 13/16" (910)
37 5/16" (948)
34 1/16" (865)
33 5/16" (846)
29 33/64" (750)



CCIPDT54HRDS

39 13/16" (1011)
41 5/16" (1049)
38 1/16" (967)
37 5/16" (948)
33 33/64" (851)

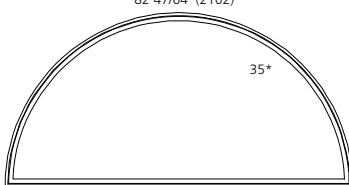


CCIPDT60HRDS

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

89 7/8" (2283)
92 1/2" (2360)
87 3/8" (2219)
86 5/8" (2200)
82 47/64" (2102)

45 13/16" (1164)
47 5/16" (1202)
44 1/16" (1119)
43 5/16" (1100)
39 33/64" (1004)



CCIPDT70HRDS

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.

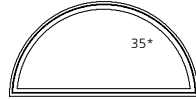
SCALE: 1/4" = 1'

OUT-SWING PATIO DOOR HALF ROUND UNITS

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

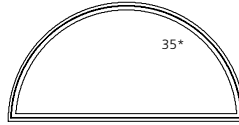
50 7/16" (1281)
53 1/2" (1359)
47 15/16" (1218)
47 3/16" (1199)
43 7/32" (1117)

26 1/2" (673)
27" (686)
24 3/8" (619)
23 5/8" (600)
20 13/64" (513)



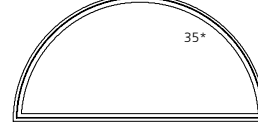
CCOPD40HRDS

32 7/8" (834)
35 7/8" (912)
30 3/8" (772)
29 5/8" (752)
25 51/64" (656)



CCOPD50HRDS

34 1/8" (866)
35 5/8" (904)
32 3/8" (822)
31 5/8" (803)
27 51/64" (707)



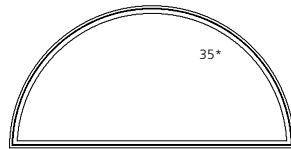
CCOPD54HRDS

66 7/16" (1688)
69 1/2" (1765)
63 15/16" (1624)
63 3/16" (1605)
59 1/4" (1505)

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

74 7/16" (1891)
77 1/2" (1968)
71 15/16" (1827)
71 3/16" (1808)
67 1/4" (1708)

38 1/8" (968)
39 5/8" (1006)
36 3/8" (924)
35 5/8" (905)
31 51/64" (808)



CCOPD60HRDS

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

29 1/4" (743)
32 5/16" (820)
26 3/4" (679)
26" (660)
21 7/8" (556)

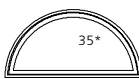
15 1/2" (394)
17" (432)
13 3/4" (349)
13" (330)
9 13/64" (234)



CCOPDT20HRDS

37 1/4" (946)
40 5/16" (1024)
34 3/4" (883)
34" (864)
29 7/8" (759)

19 1/2" (495)
21" (533)
17 3/4" (451)
17" (432)
13 13/64" (335)



CCOPDT28HRDS

41 1/4" (1048)
44 5/16" (1125)
38 3/4" (984)
38" (965)
33 7/8" (860)

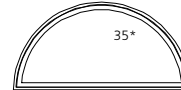
21 1/2" (546)
23" (584)
19 3/4" (502)
19" (483)
15 13/64" (386)



CCOPDT30HRDS

47 1/4" (1200)
50 5/16" (1278)
44 3/4" (1137)
44" (1118)
39 7/8" (1013)

24 1/2" (622)
26" (660)
22 3/4" (578)
22" (559)
18 13/64" (462)

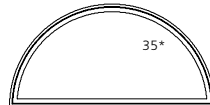


CCOPDT36HRDS

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

54 7/16" (1383)
57 1/2" (1460)
51 15/16" (1319)
51 3/16" (1300)
47 15/64" (1200)

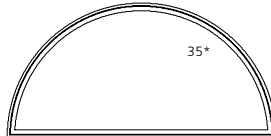
28 1/2" (724)
29" (737)
26 3/8" (670)
25 5/8" (651)
21 51/64" (554)



CCOPDT40HRDS

70 7/16" (1789)
73 1/2" (1867)
67 15/16" (1726)
67 3/16" (1707)
63 15/64" (1606)

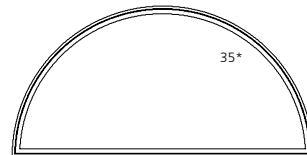
36 1/16" (917)
37 9/16" (955)
34 3/8" (873)
33 5/8" (854)
29 51/64" (757)



CCOPDT54HRDS

78 7/16" (1992)
81 1/2" (2070)
75 15/16" (1929)
75 3/16" (1910)
71 15/64" (1809)

40 1/16" (1018)
41 9/16" (1056)
38 3/8" (975)
37 5/8" (956)
33 51/64" (858)

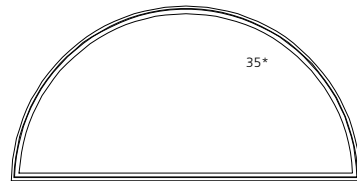


CCOPDT60HRDS

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

90 7/16" (2297)
93 1/2" (2375)
87 15/16" (2234)
87 3/16" (2215)
83 15/64" (2114)

46 1/16" (1171)
47 9/16" (1209)
44 3/8" (1127)
43 5/8" (1108)
39 51/64" (1011)



CCOPDT70HRDS

ELEVATION SYMBOL LEGEND:

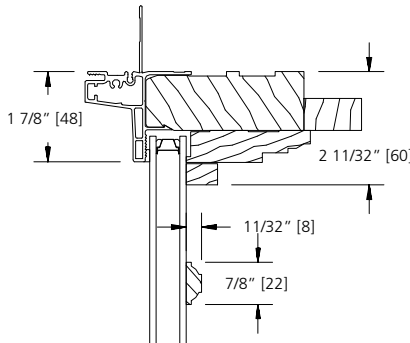
M.O. = MASONRY OPENING
VALUES IN () ARE IN MILLIMETER CONVERSIONS.
NUMBER INDICATES DESIGN PRESSURE (DP) RATING WITH STANDARD GLAZING.

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.

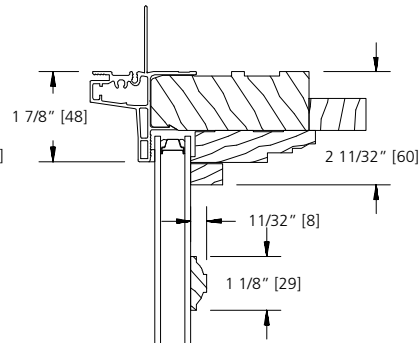
SCALE: 1/4" = 1'

GLAZING OPTIONS

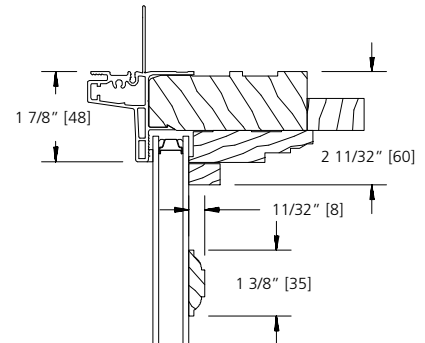
INTERIOR GLAZED
INSULATED 3/4" [19] GLASS



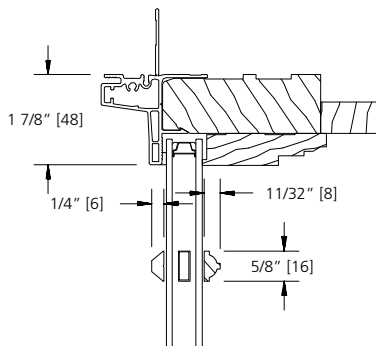
7/8" GRILLE BAR



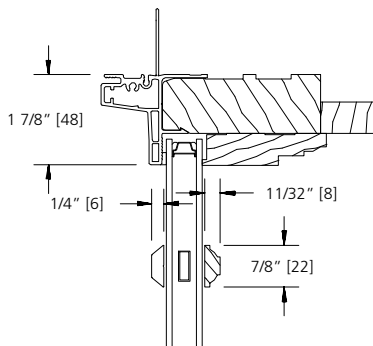
1 1/8" GRILLE BAR



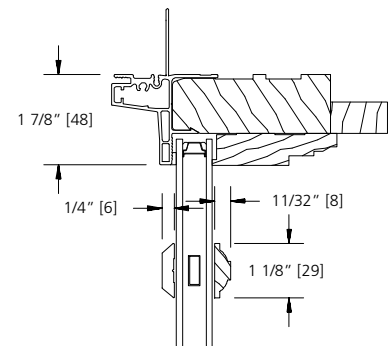
1 3/8" GRILLE BAR



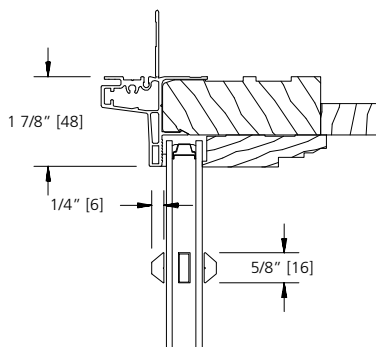
**5/8" SDL BAR
(PUTTY/BEAD)**



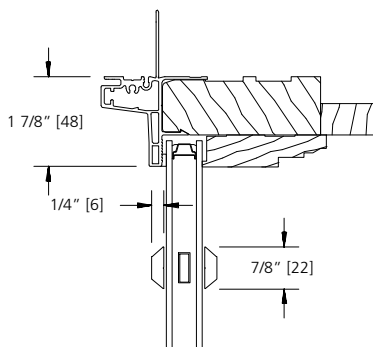
**7/8" SDL BAR
(PUTTY/BEAD)**



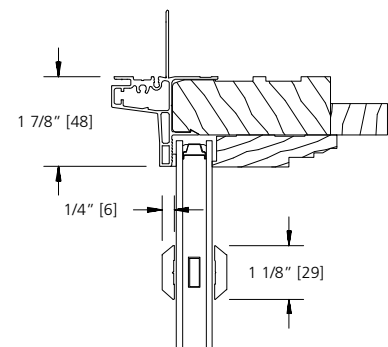
**1 1/8" SDL BAR
(PUTTY/BEAD)**



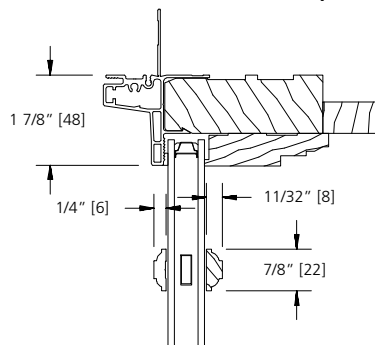
**5/8" SDL BAR
(PUTTY/PUTTY)**



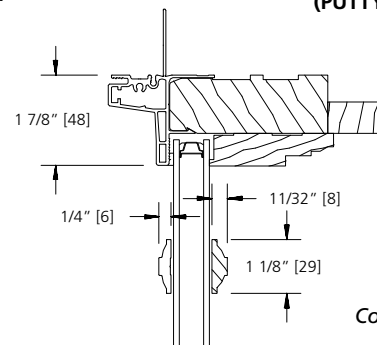
**7/8" SDL BAR
(PUTTY/PUTTY)**



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



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



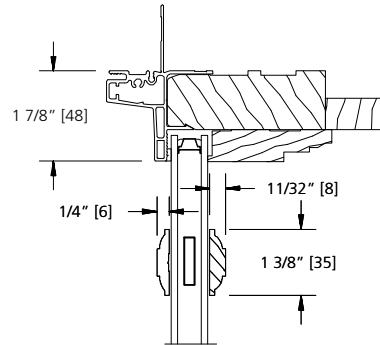
**1 1/8" SDL BAR
(BEAD STOP)**

Continued on next page

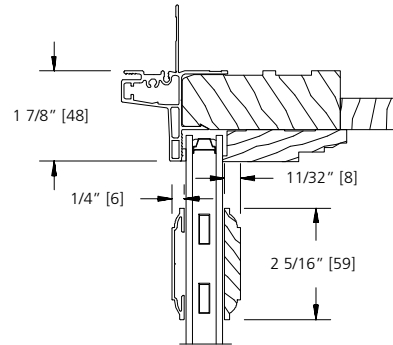
SCALE: 3" = 1'

GLAZING OPTIONS

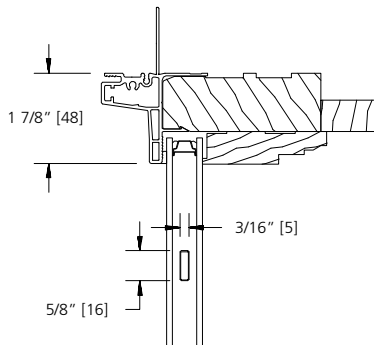
INTERIOR GLAZED
INSULATED 3/4" [19] GLASS



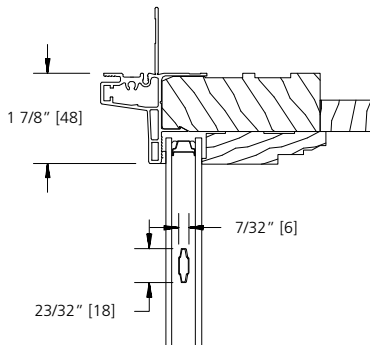
1 3/8" SDL BAR
(BEAD STOP)



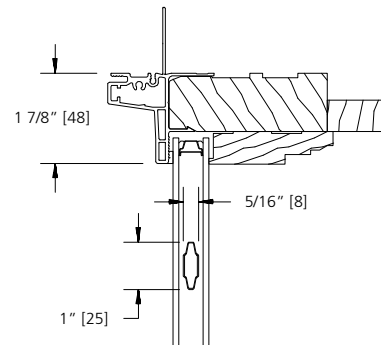
2 5/16" SDL BAR
(BEAD STOP)



5/8" FLAT
GBG



23/32" CONTOUR
GBG

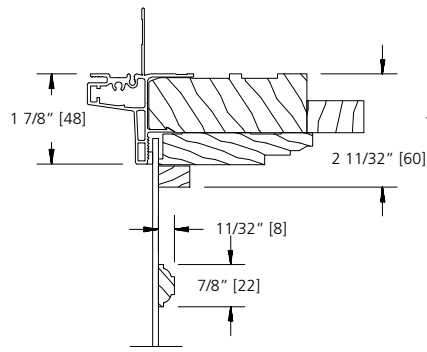


1" CONTOUR
GBG

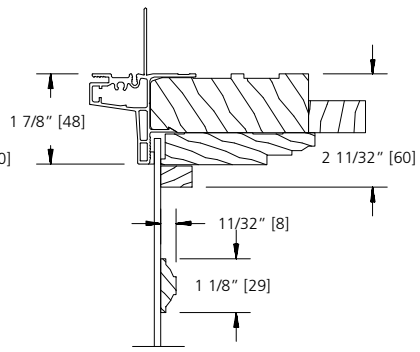
SCALE: 3" = 1'

GLAZING OPTIONS

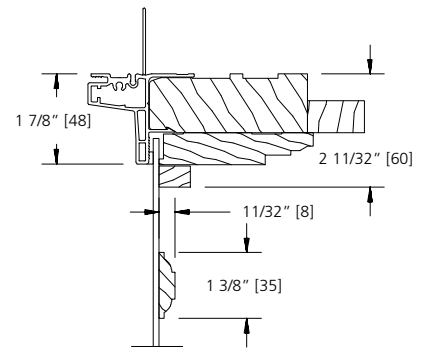
INTERIOR GLAZED
SINGLE GLAZED 1/8" [3] GLASS



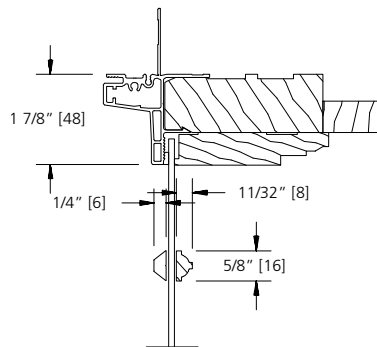
7/8" GRILLE BAR



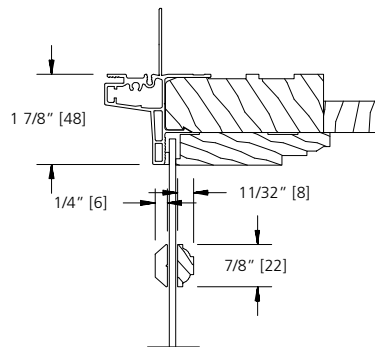
1 1/8" GRILLE BAR



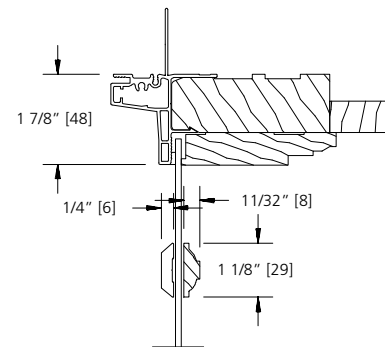
1 3/8" GRILLE BAR



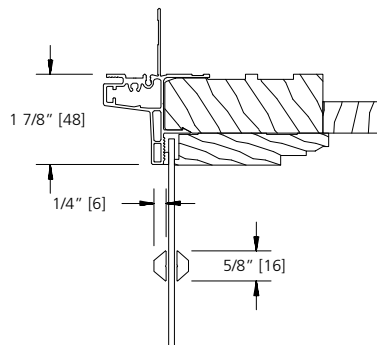
**5/8" SDL BAR
(PUTTY/BEAD)**



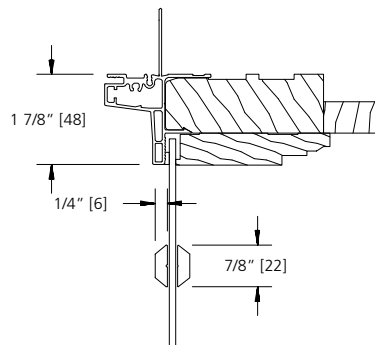
**7/8" SDL BAR
(PUTTY/BEAD)**



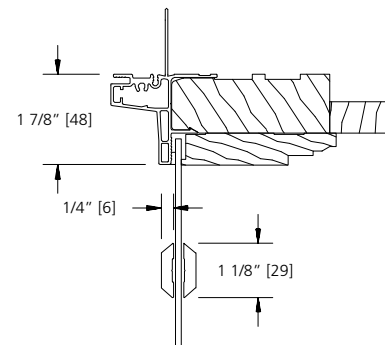
**1 1/8" SDL BAR
(PUTTY/BEAD)**



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



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



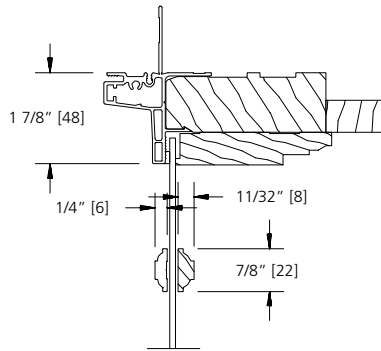
**1 1/8" SDL BAR
(PUTTY/PUTTY)**

Continued on next page

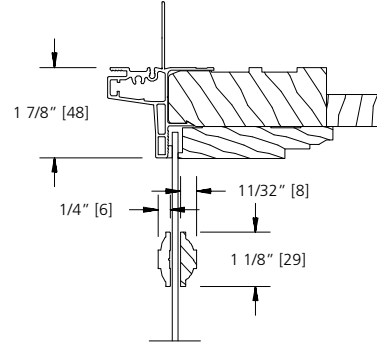
SCALE: 3" = 1'

GLAZING OPTIONS

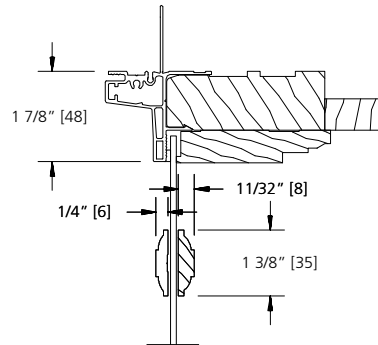
INTERIOR GLAZED
SINGLE GLAZED 1/8" [3] GLASS



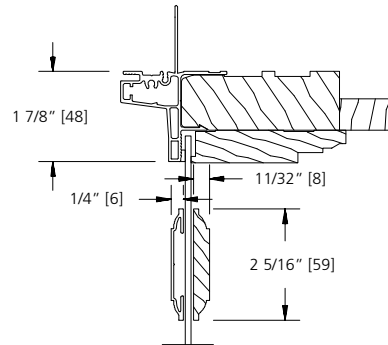
**7/8" SDL BAR
(BEAD STOP)**



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



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

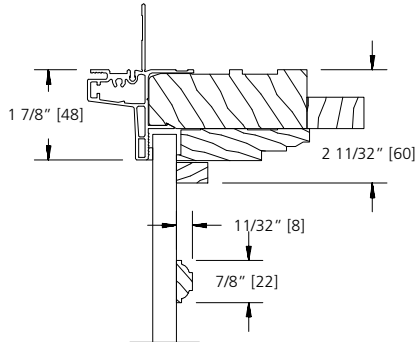


**2 5/16" SDL BAR
(BEAD STOP)**

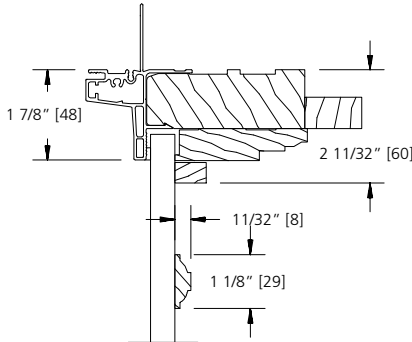
SCALE: 3" = 1'

GLAZING OPTIONS

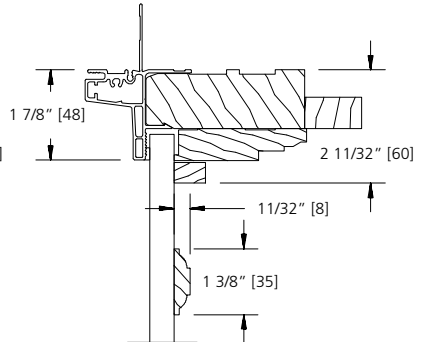
INTERIOR GLAZED
IMPACT RESISTANT GLASS



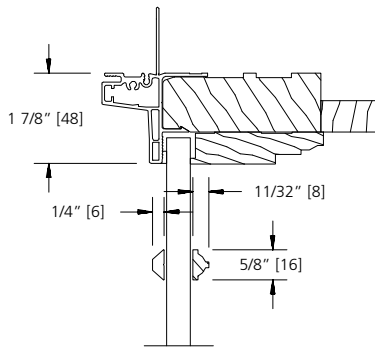
7/8" GRILLE BAR



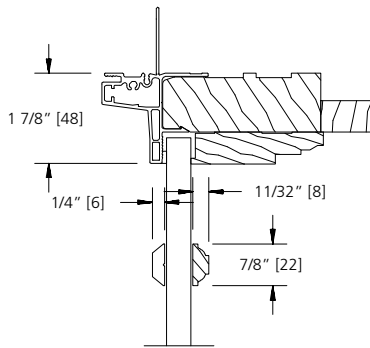
1 1/8" GRILLE BAR



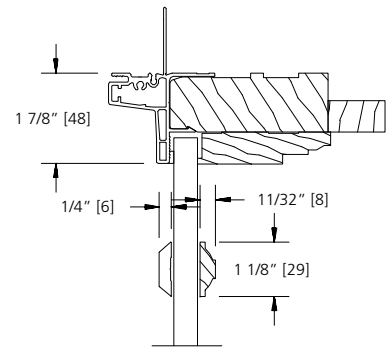
1 3/8" GRILLE BAR



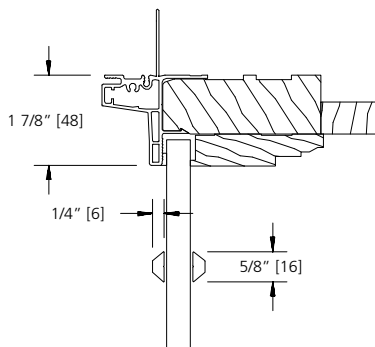
**5/8" SDL BAR
(PUTTY/BEAD)**



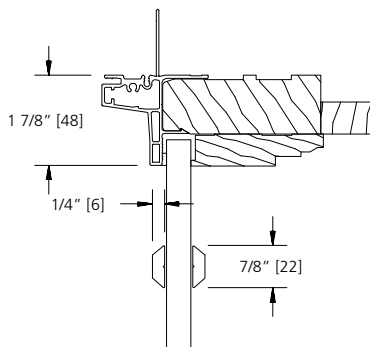
**7/8" SDL BAR
(PUTTY/BEAD)**



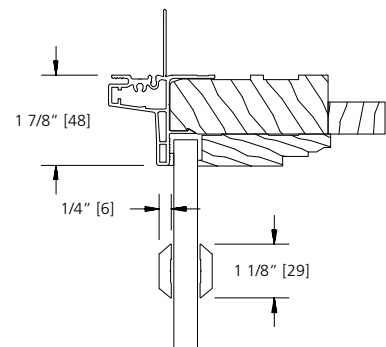
**1 1/8" SDL BAR
(PUTTY/BEAD)**



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



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



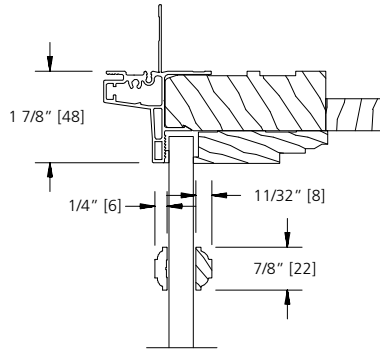
**1 1/8" SDL BAR
(PUTTY/BEAD)**

Continued on next page

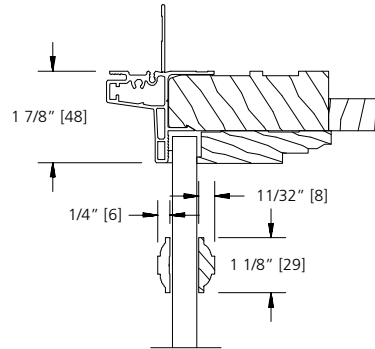
SCALE: 3" = 1'

GLAZING OPTIONS

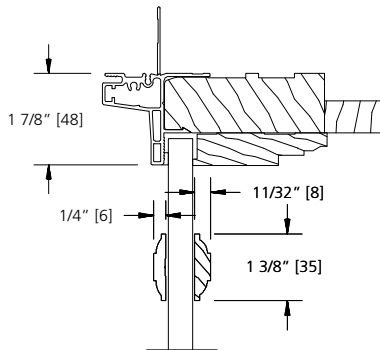
INTERIOR GLAZED
IMPACT RESISTANT GLASS



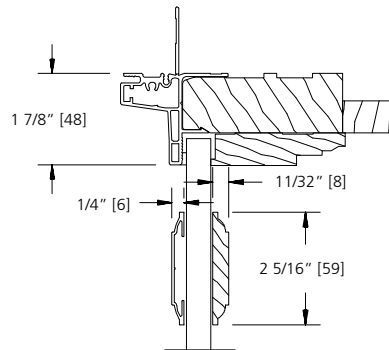
**7/8" SDL BAR
(BEAD STOP)**



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



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



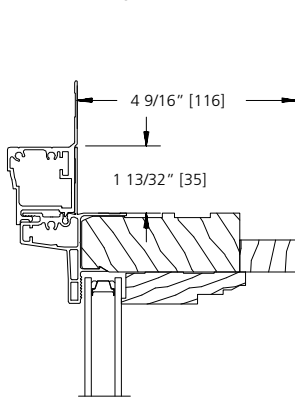
**2 5/16" SDL BAR
(BEAD STOP)**

SCALE: 3" = 1'

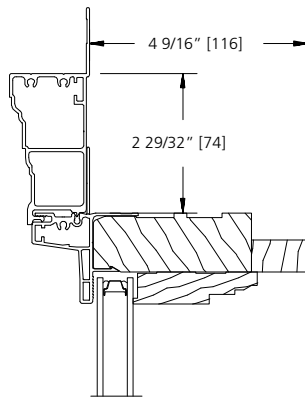
TRIM OPTIONS

FOLDING NAILING FLANGE
WILL BE USED ON SIDE
JAMBS AND SILL FOR ALL
TRIM TYPES.

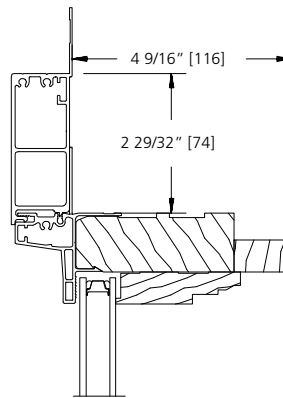
STRAIGHTLINE EXTERIOR TRIM



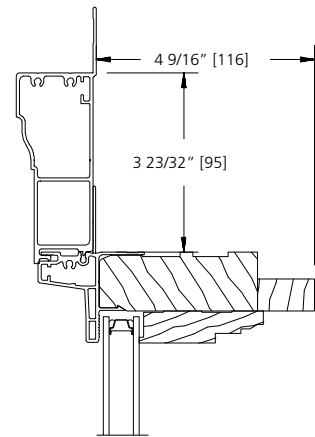
BRICKMOULD



**3 1/2"
FLAT CASING**

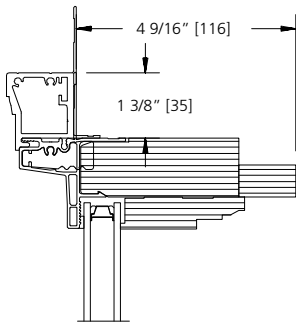


**ADAMS
CASING**

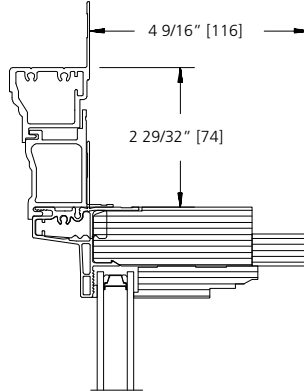


**HERITAGE
CASING**

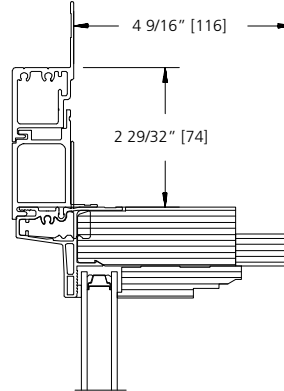
RADIUS EXTERIOR TRIM



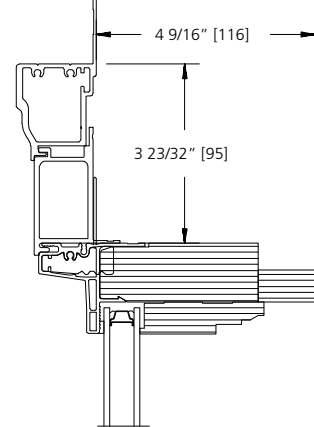
**RADIUS
BRICKMOULD**



**RADIUS
3 1/2"
FLAT CASING**

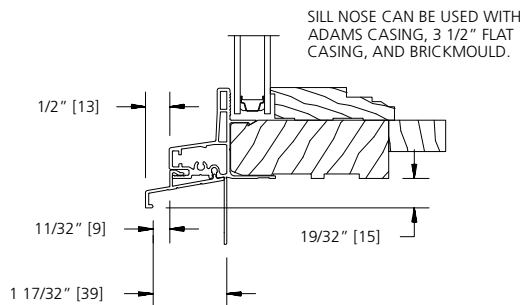


**RADIUS
ADAMS
CASING**



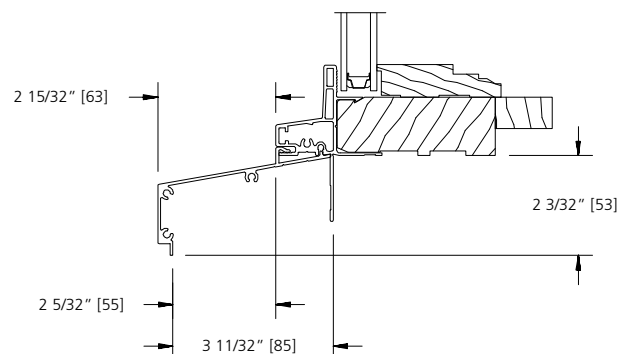
**RADIUS
HERITAGE
CASING**

SILL NOSE



SILL NOSE CAN BE USED WITH
ADAMS CASING, 3 1/2" FLAT
CASING, AND BRICKMOULD.

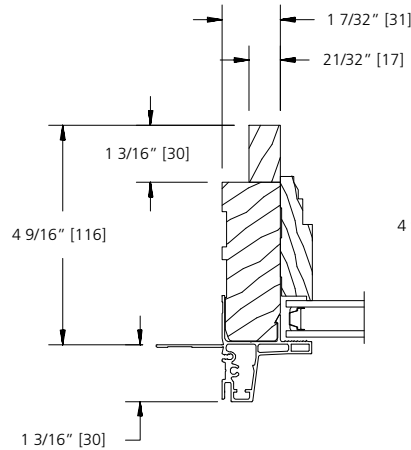
EXTENDED SILL NOSE



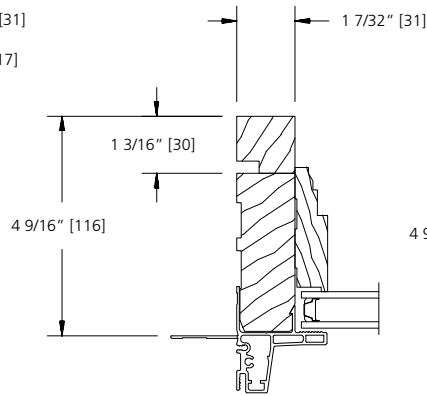
SCALE: 3" = 1'

JAMB EXTENDER OPTIONS

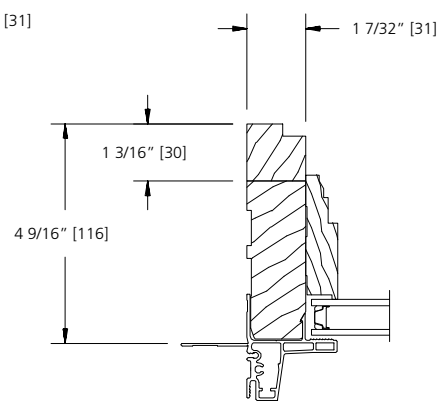
4 9/16" WALL



**STANDARD 4/4
JAMB EXTENDER**

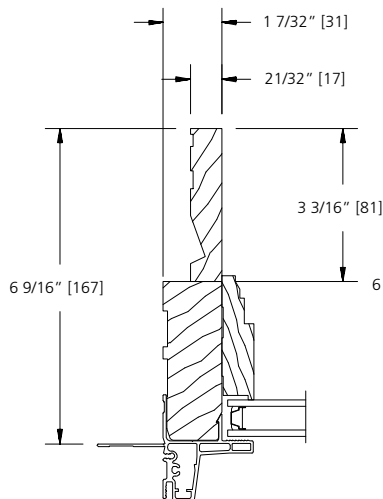


**STANDARD 5/4
JAMB EXTENDER**

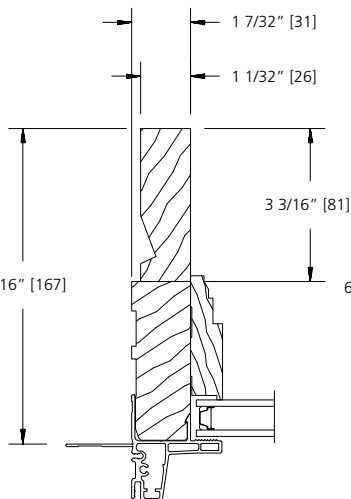


**5/4 TO 4/4 REVEAL
JAMB EXTENDER**

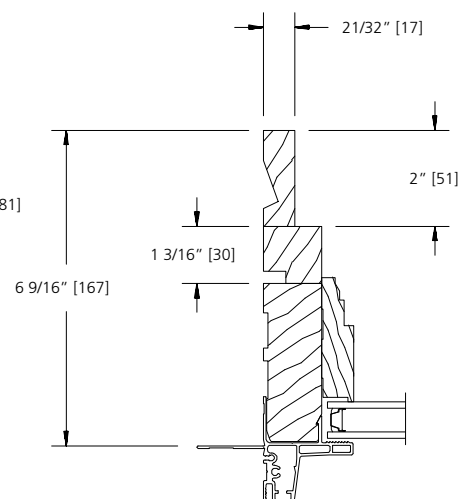
6 9/16" WALL



**STANDARD 4/4
JAMB EXTENDER**



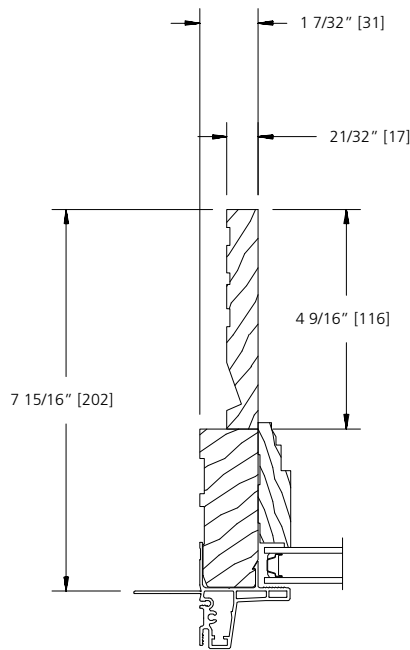
**STANDARD 5/4
JAMB EXTENDER**



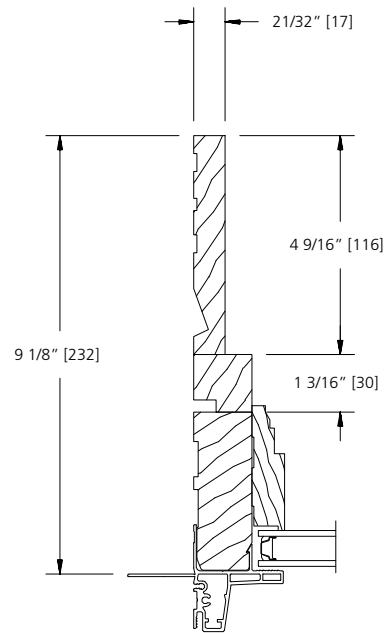
**5/4 TO 4/4 REVEAL
JAMB EXTENDER**

SCALE: 3" = 1'

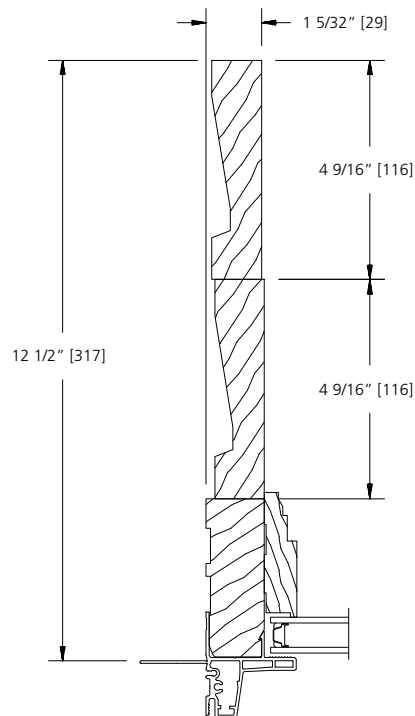
MAXIMUM JAMB WIDTHS



**STANDARD 4/4
JAMB EXTENDER**



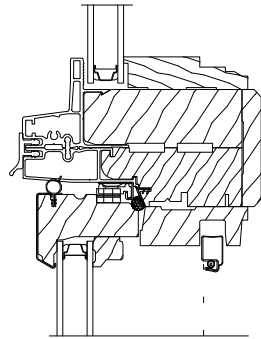
**5/4 TO 4/4 REVEAL
JAMB EXTENDER**



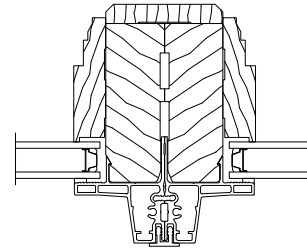
**STANDARD 5/4
JAMB EXTENDER**

SCALE: 3" = 1'

**MULLION DETAILS
WITH CUSTOM CASEMENT**

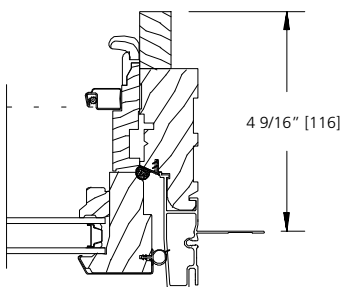


**HORIZONTAL MULLION
AT DIRECT-SET GEOMETRIC
WITH CUSTOM CASEMENT
4 9/16" & 6 9/16" JAMB**

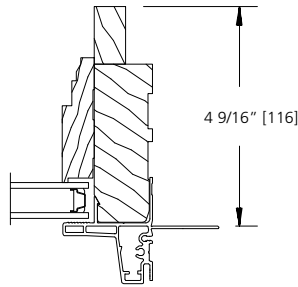


**VERTICAL MULLION
AT DIRECT-SET GEOMETRIC
4 9/16" & 6 9/16" JAMB**

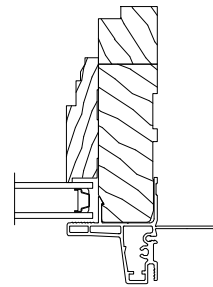
4 9/16" JAMB



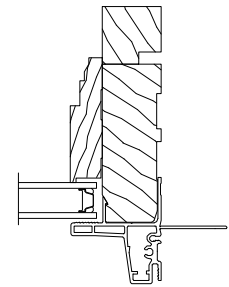
**VERTICAL
AT CUSTOM CASEMENT
4/4 JAMB EXTENDER OPTION**



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

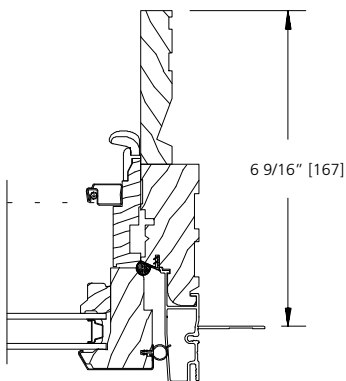


**5/4 TO 4/4 REVEAL
JAMB EXTENDER OPTION**

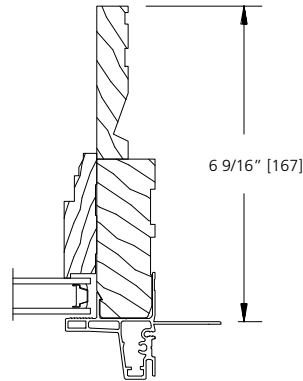


5/4 JAMB EXTENDER OPTION

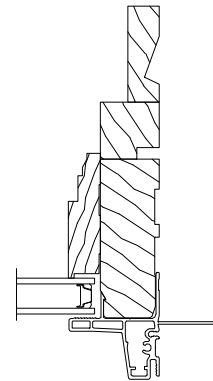
6 9/16" JAMB



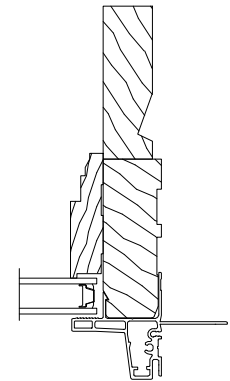
**VERTICAL
AT CUSTOM CASEMENT
4/4 JAMB EXTENDER OPTION**



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



**5/4 TO 4/4 REVEAL
JAMB EXTENDER OPTION**

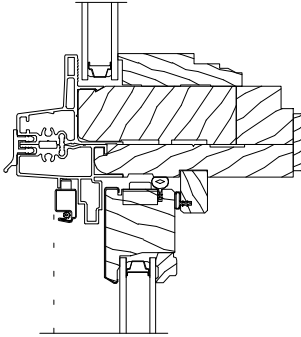


5/4 JAMB EXTENDER OPTION

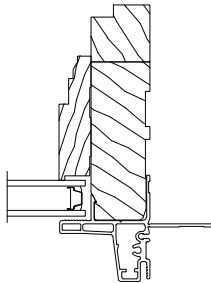
SCALE: 3" = 1'

**MULLION DETAILS
WITH CUSTOM DOUBLE-HUNG**

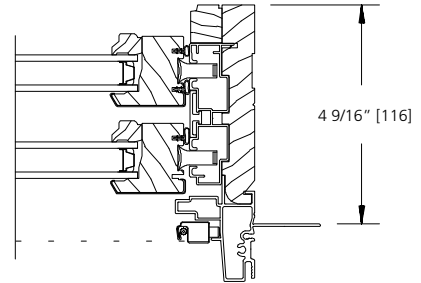
4 9/16" JAMB



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

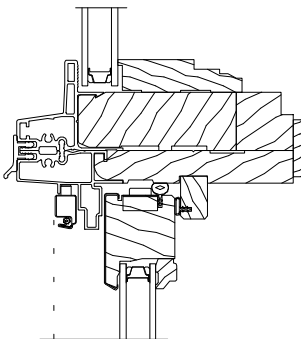


**VERTICAL
AT DIRECT-SET GEOMETRIC**

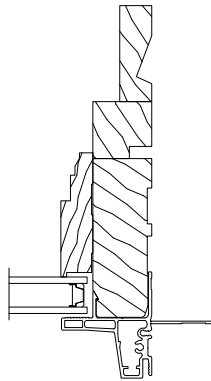


**VERTICAL
AT CUSTOM DOUBLE-HUNG**

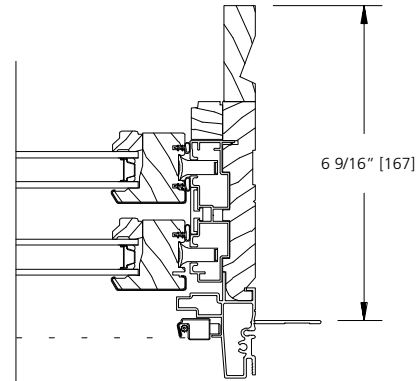
6 9/16" JAMB



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



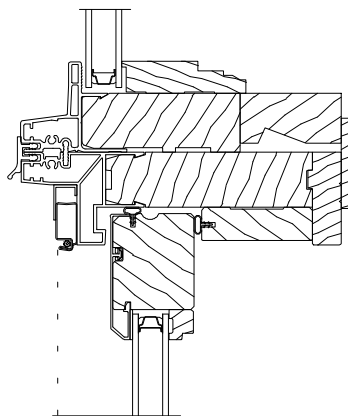
**VERTICAL
AT DIRECT-SET GEOMETRIC**



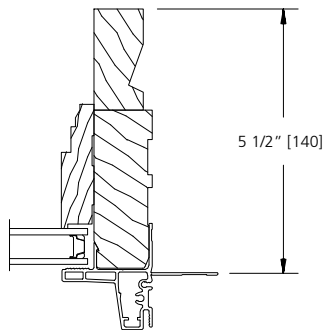
**VERTICAL
AT CUSTOM DOUBLE-HUNG**

SCALE: 3" = 1'

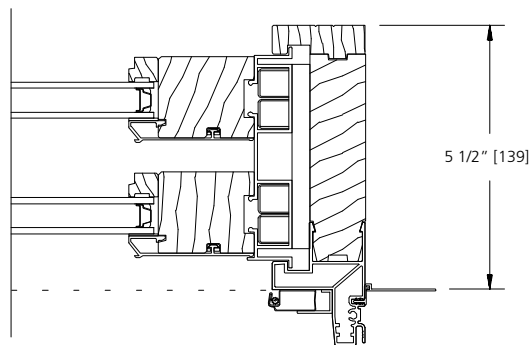
**MULLION DETAILS
WITH CUSTOM EPIC DOUBLE-HUNG**



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



**VERTICAL
AT DIRECT-SET GEOMETRIC**

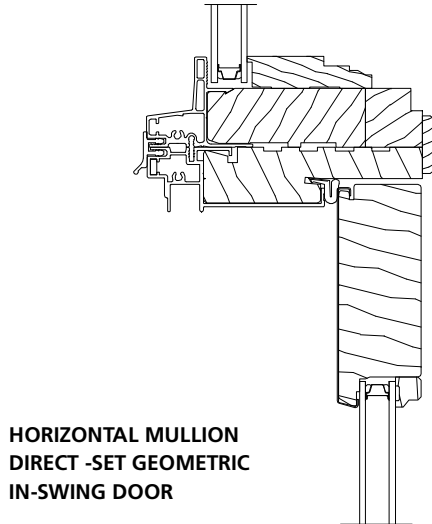


**VERTICAL
AT EPIC DOUBLE-HUNG**

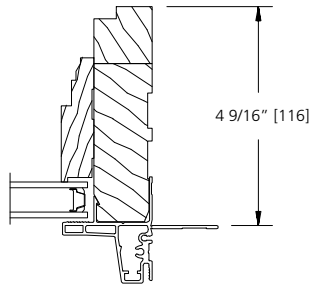
SCALE: 3" = 1'

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

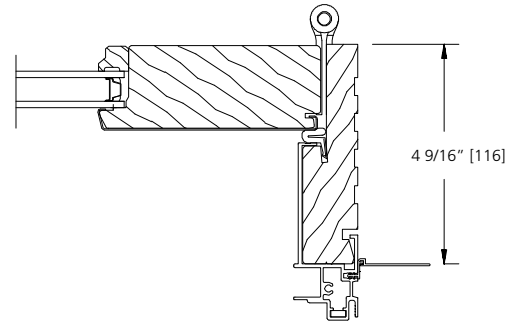
4 9/16" JAMB



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

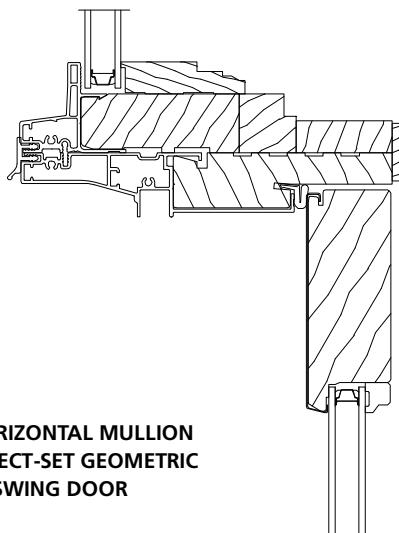


**VERTICAL
AT DIRECT-SET GEOMETRIC**

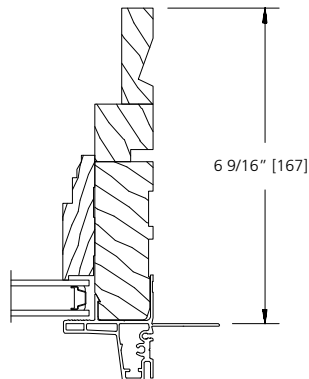


**VERTICAL
AT IN-SWING DOOR**

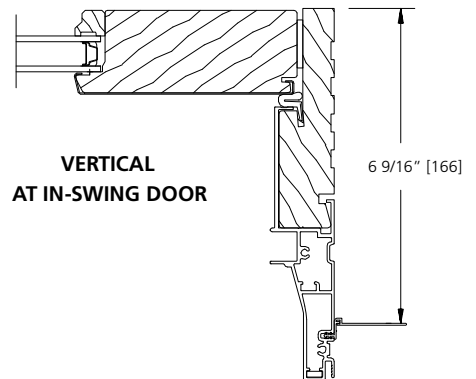
6 9/16" JAMB



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



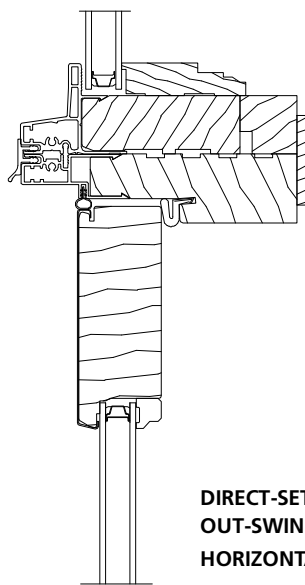
**VERTICAL
AT DIRECT-SET GEOMETRIC**



**VERTICAL
AT IN-SWING DOOR**

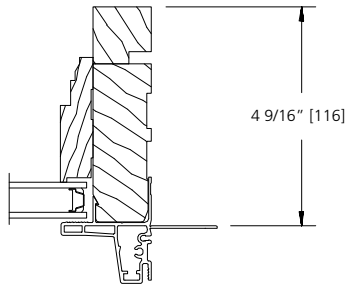
SCALE: 3" = 1'

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

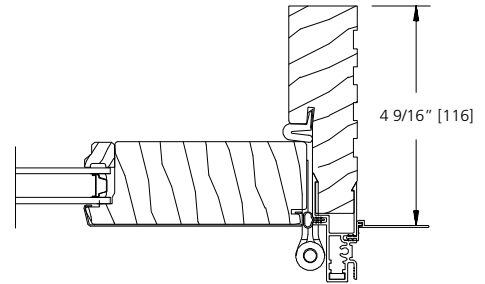


**DIRECT-SET GEOMETRIC
OUT-SWING DOOR
HORIZONTAL MULLION**

4 9/16" JAMB

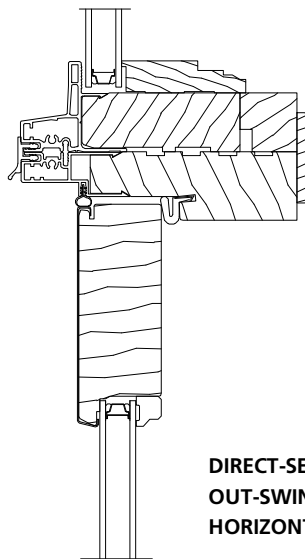


**VERTICAL
AT DIRECT-SET GEOMETRIC**

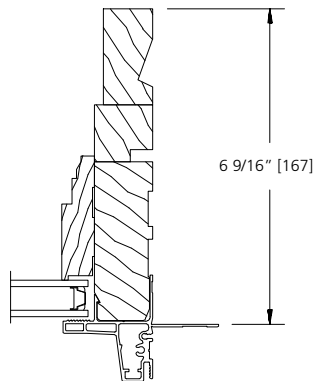


**VERTICAL
AT OUT-SWING DOOR**

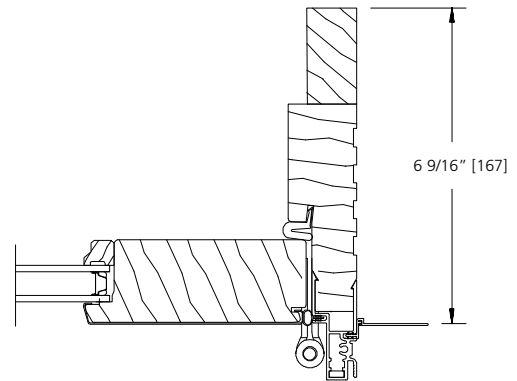
6 9/16" JAMB



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



**VERTICAL
AT DIRECT-SET GEOMETRIC**



**VERTICAL
AT OUT-SWING DOOR**

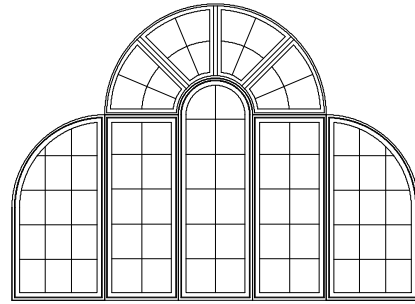
SCALE: 3" = 1'

LITE CUT INFORMATION

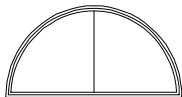
Clad direct-set geometric windows are available with removable grilles in 7/8", 1-1/8" and 1-3/8" widths, GBG (Grilles between the glass) and Simulated Divided Lites. Standard lite cuts are rectangular.

BAR ALIGNMENT

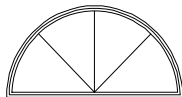
Alignment of divided lite muntin bars from one window to the next is often required by fine architectural design. Wood grilles, GBG (Grilles between the Glass), and Simulated Divided Lites may be specified with muntin bars aligned.



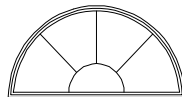
HALF ROUND BREAKUP PATTERNS



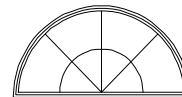
200 SERIES



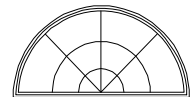
400 SERIES



500 SERIES



800 SERIES



1200 SERIES

QUARTER ROUND BREAKUP PATTERNS



200 SERIES

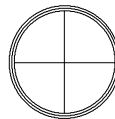


400 SERIES

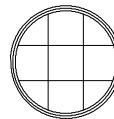


600 SERIES

FULL ROUND BREAKUP PATTERNS

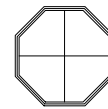


400 SERIES

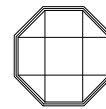


900 SERIES

OCTAGON BREAKUP PATTERNS



400 SERIES



900 SERIES

Continued on next page

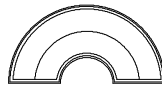
LITE CUT INFORMATION

INVERTED RADIUS SILL NOTE:

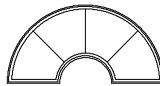
Windows with inverted radius sills have continuous head and sill configurations. The twin, triple and quad units utilize a mullion post as part of a single unit. Single lines represent grille and thermal bar lite break ups. Twin, triple and quad units are single units with mullion posts being represented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

INVERTED HALF ROUND BREAKUP PATTERNS

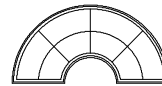
INVERTED HALF ROUND SILL



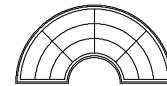
200 SERIES
RADIUS HUB



400 SERIES

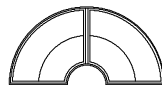


800 SERIES

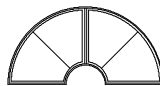


1200 SERIES

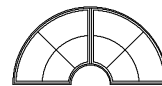
INVERTED HALF ROUND SILL - TWIN



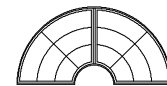
200 SERIES
RADIUS HUB



200 SERIES



400 SERIES

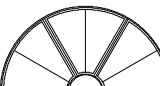


600 SERIES

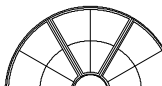
INVERTED HALF ROUND SILL - TRIPLE



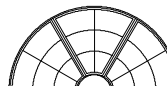
200 SERIES
RADIUS HUB



200 SERIES



400 SERIES

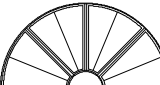


600 SERIES

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



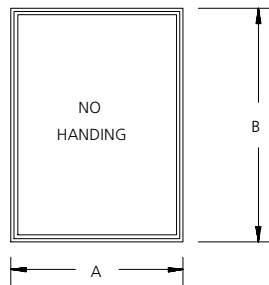
400 SERIES



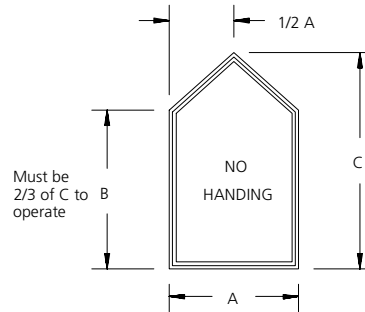
600 SERIES

STRAIGHT LINE SHAPES

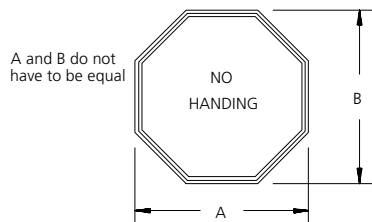
ALL GEOMETRIC WINDOW SHAPES ARE
VIEWED FROM THE EXTERIOR.



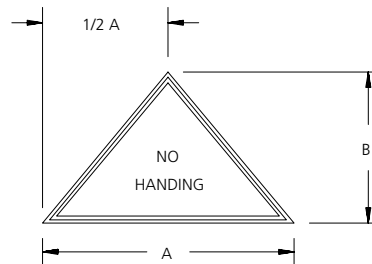
RECTANGLE



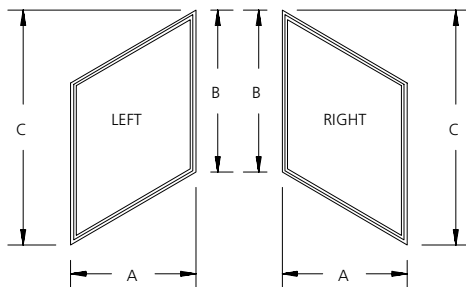
PENTOID



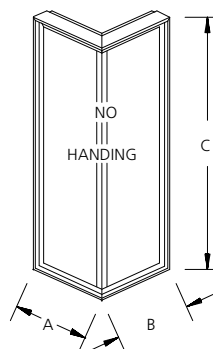
OCTAGON



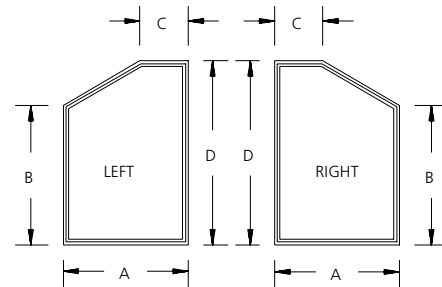
**TRIANGLE
(EQUILATERAL - ISOCELES)**



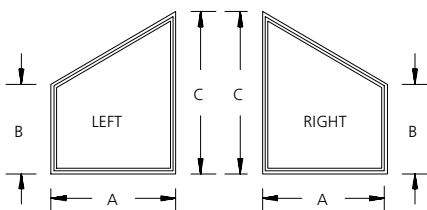
PARALLELOGRAM



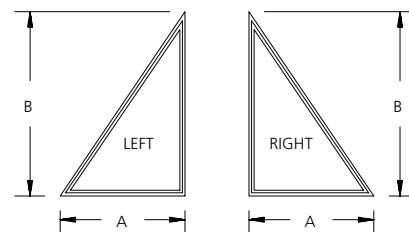
**SLIM LINE
CORNER UNIT**



**PENTOID
(ASYMMETRICAL)**

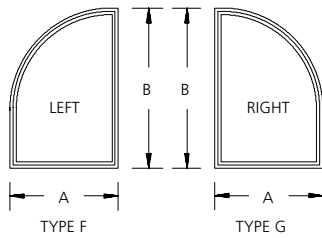


TRAPEZOID

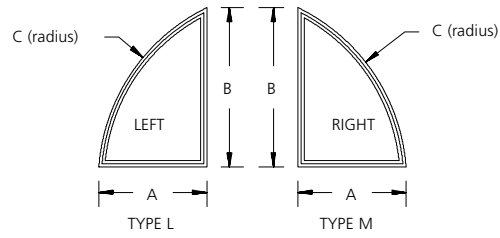


RIGHT TRIANGLE

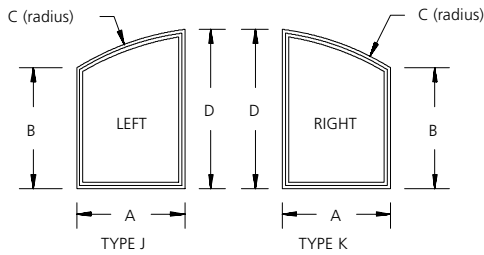
RADIUS SHAPES



**EXTENDED
QUARTER ROUND**

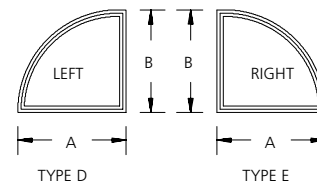


**HANDED
SECTOR**

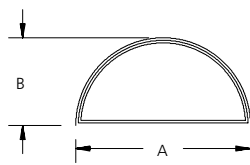


**EXTENDED - HANDED
SECTOR**

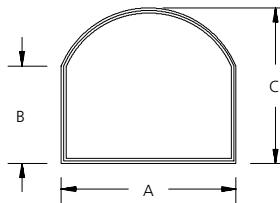
ALL GEOMETRIC WINDOW SHAPES ARE
VIEWED FROM THE EXTERIOR.



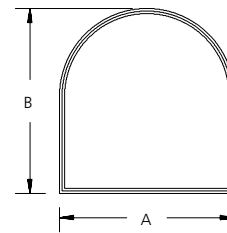
QUARTER ROUND



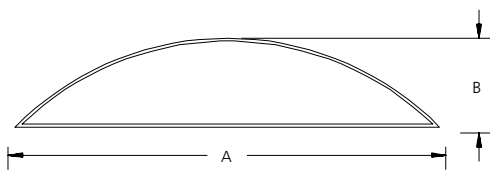
HALF ROUND



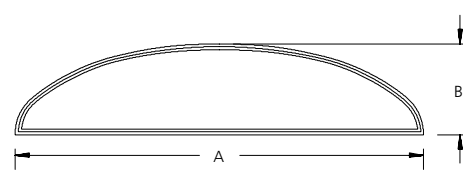
**EXTENDED
SECTOR**



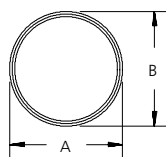
**EXTENDED
HALF ROUND**



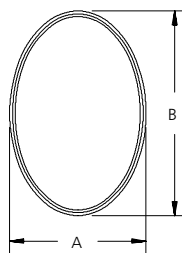
SECTOR



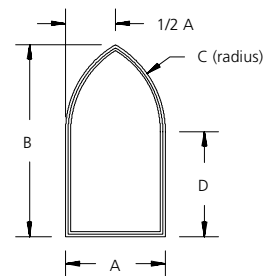
ELLIPSE



FULL ROUND



OVAL

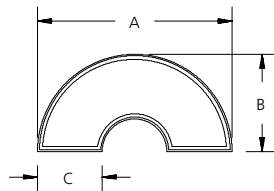


GOTHIC

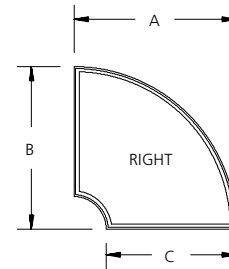
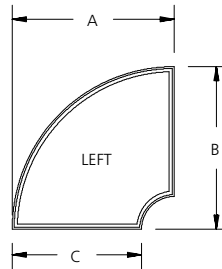
Continued on next page

RADIUS SHAPES

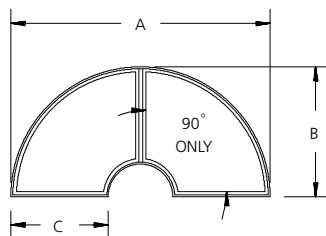
ALL GEOMETRIC WINDOW SHAPES ARE
VIEWED FROM THE EXTERIOR.



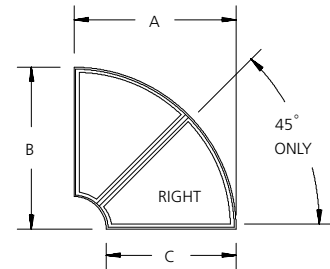
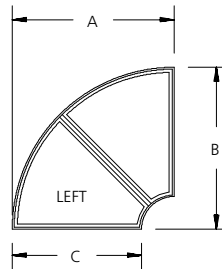
INVERTED HALF ROUND



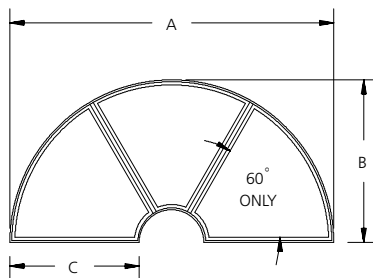
INVERTED QUARTER ROUND



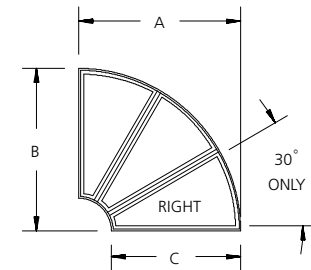
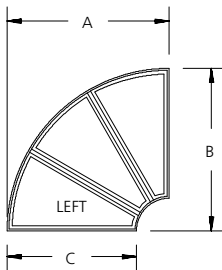
INVERTED HALF ROUND - TWIN



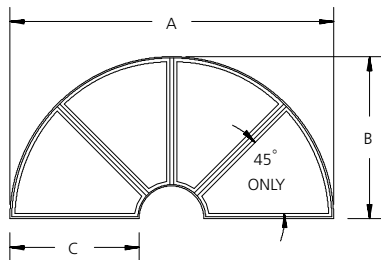
INVERTED QUARTER ROUND - TWIN



INVERTED HALF ROUND - TRIPLE



INVERTED QUARTER ROUND - TRIPLE



INVERTED HALF ROUND - QUAD

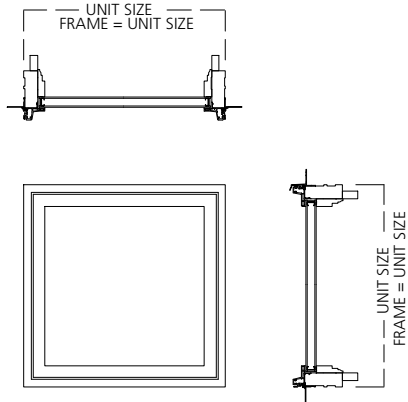
INVERTED HALF ROUND AND QUARTER ROUND UNITS

Inverted half round and quarter round units have continuous head and sill configurations which utilize mullion posts from frame to frame. See 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**

STANDARD OFFERING

DRIP CAP & INTEGRAL NAILING FLANGE



GENERAL NOTES:

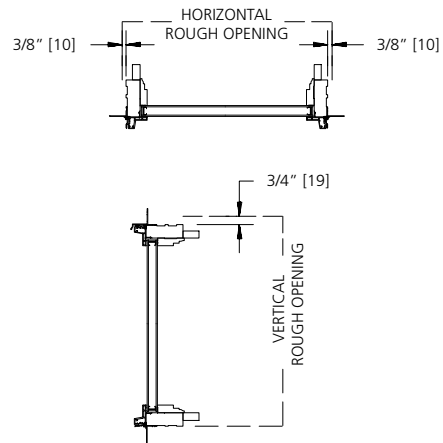
UNITS WITH NO TRIM AND SILL NOSE:
UNIT SIZE = FRAME SIZE

UNIT SIZE IS ALWAYS THE
EXTREME SIZE OF THE WINDOW
WITH OR WITHOUT TRIM
(DRIP CAP & NAILING FLANGE ARE
NOT ADDED TO ANY UNIT SIZING)

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

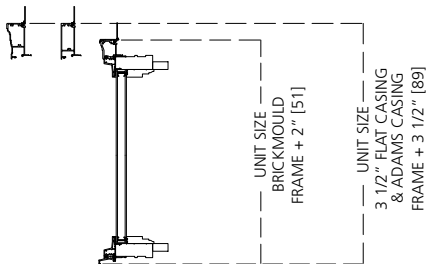
ROUGH OPENING:

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

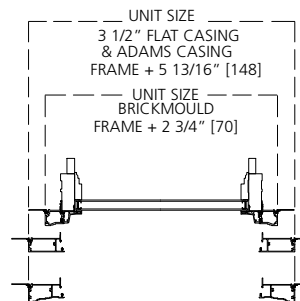
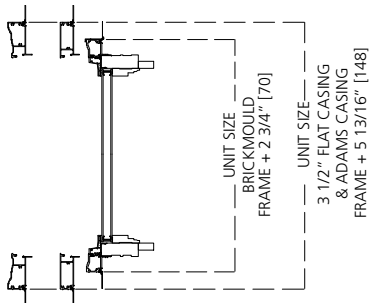


NON-STANDARD UNIT SIZING

EXTERIOR TRIM OFFERINGS WITH SILL NOSE

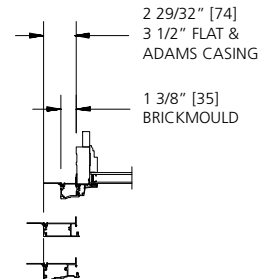


EXTERIOR TRIM OFFERINGS WITHOUT SILL NOSE
EXTERIOR TRIM ON ALL 4 SIDES



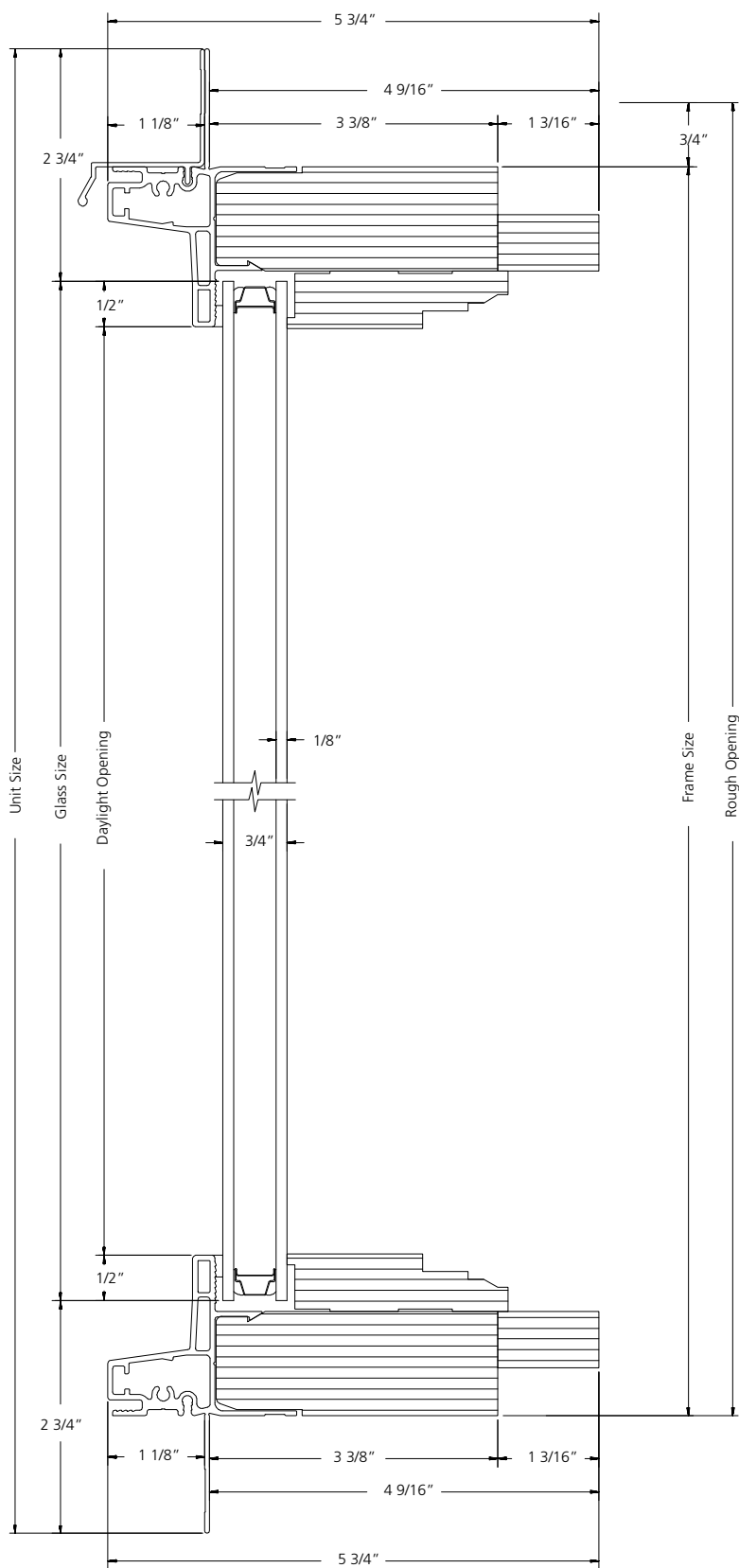
HORIZONTAL SECTION
TRIM OFFERINGS
ABOVE ARE THE SAME
WITH OR WITHOUT SILL NOSE

**FRAME TO TRIM
DIMENSIONS**



TYPICAL FOR HEAD, SILL & SIDE

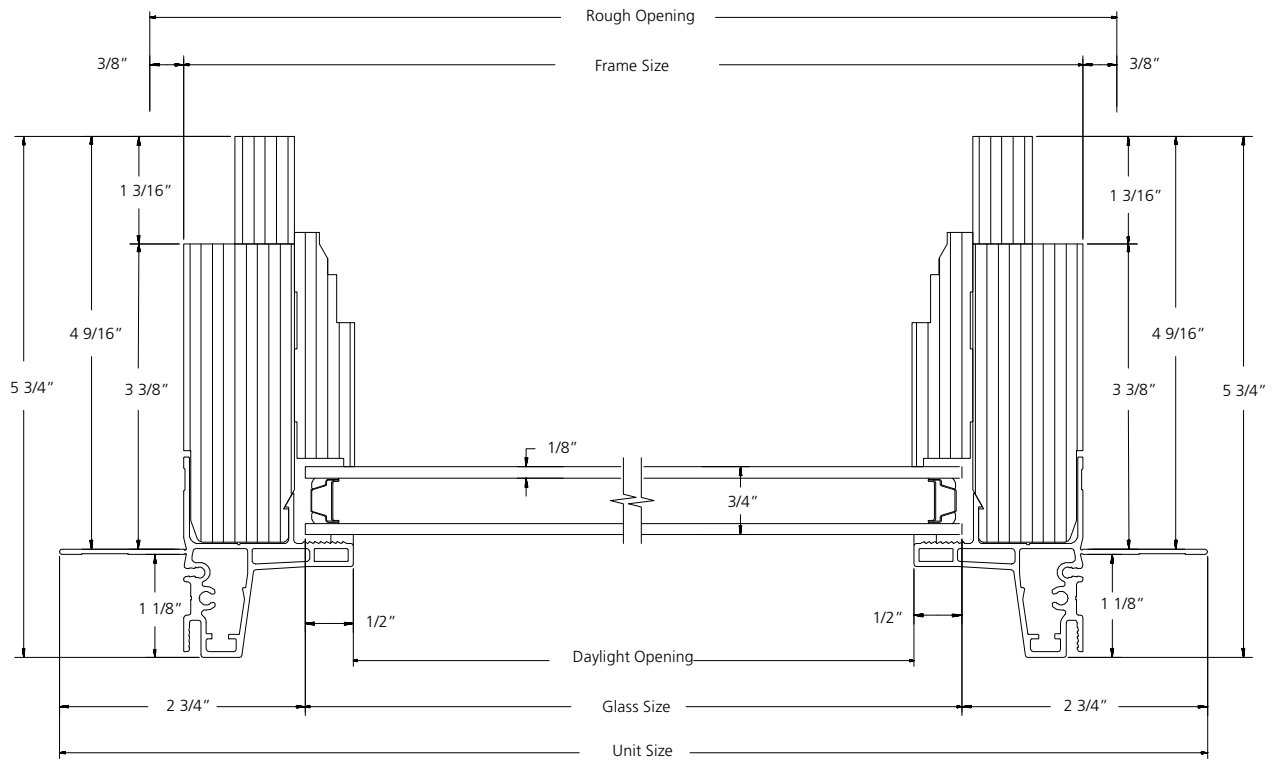
INVERTED RADIUS SILL



VERTICAL SECTION

SCALE: 6" = 1'

INVERTED RADIUS SILL



HORIZONTAL SECTION

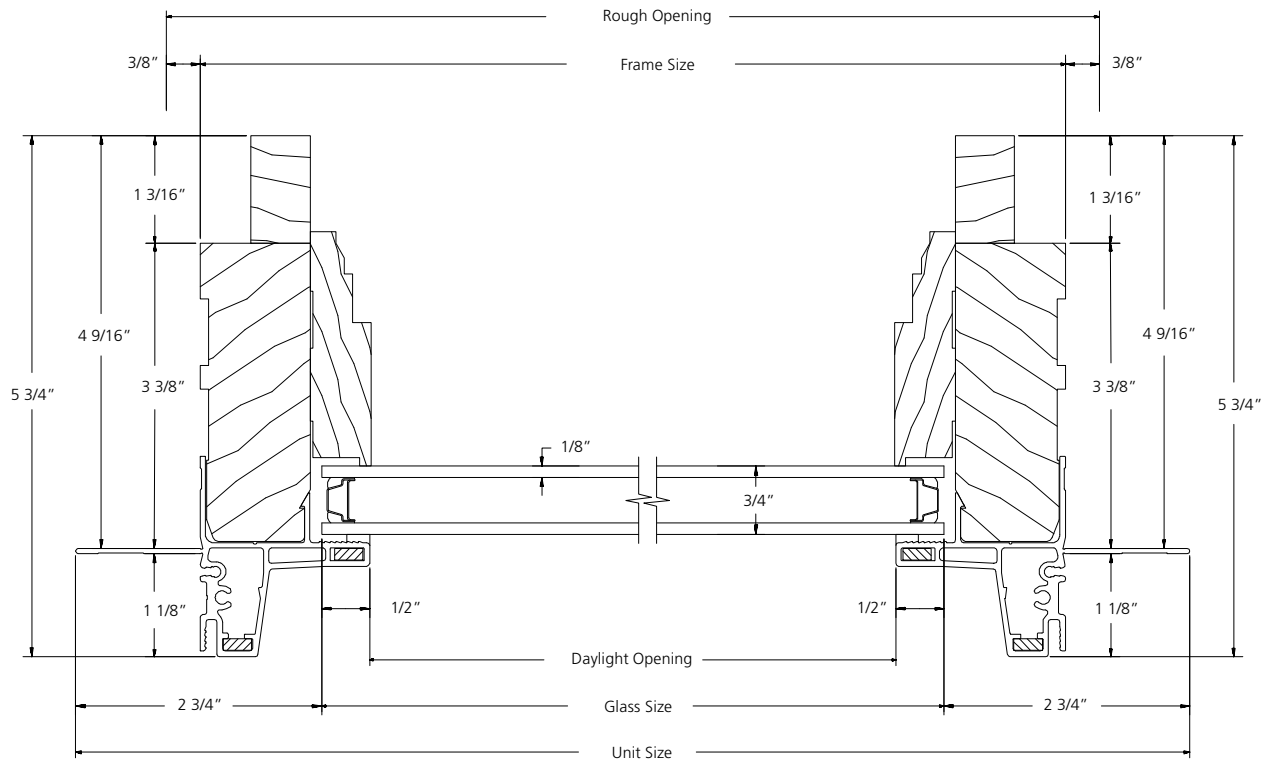
SCALE: 6" = 1'

Technical drawing of a window frame cross-section. The drawing includes the following dimensions and labels:

- Unit Size:** 5 3/4"
- Glass Size:** 2 3/4"
- Daylight Opening:** 1 1/8"
- Frame Size:** 4 9/16"
- Rough Opening:** 3 3/8"
- Other Dimensions:** 1 3/16", 1/2", 1/8", 3/4"

SCALE: 6" = 1'

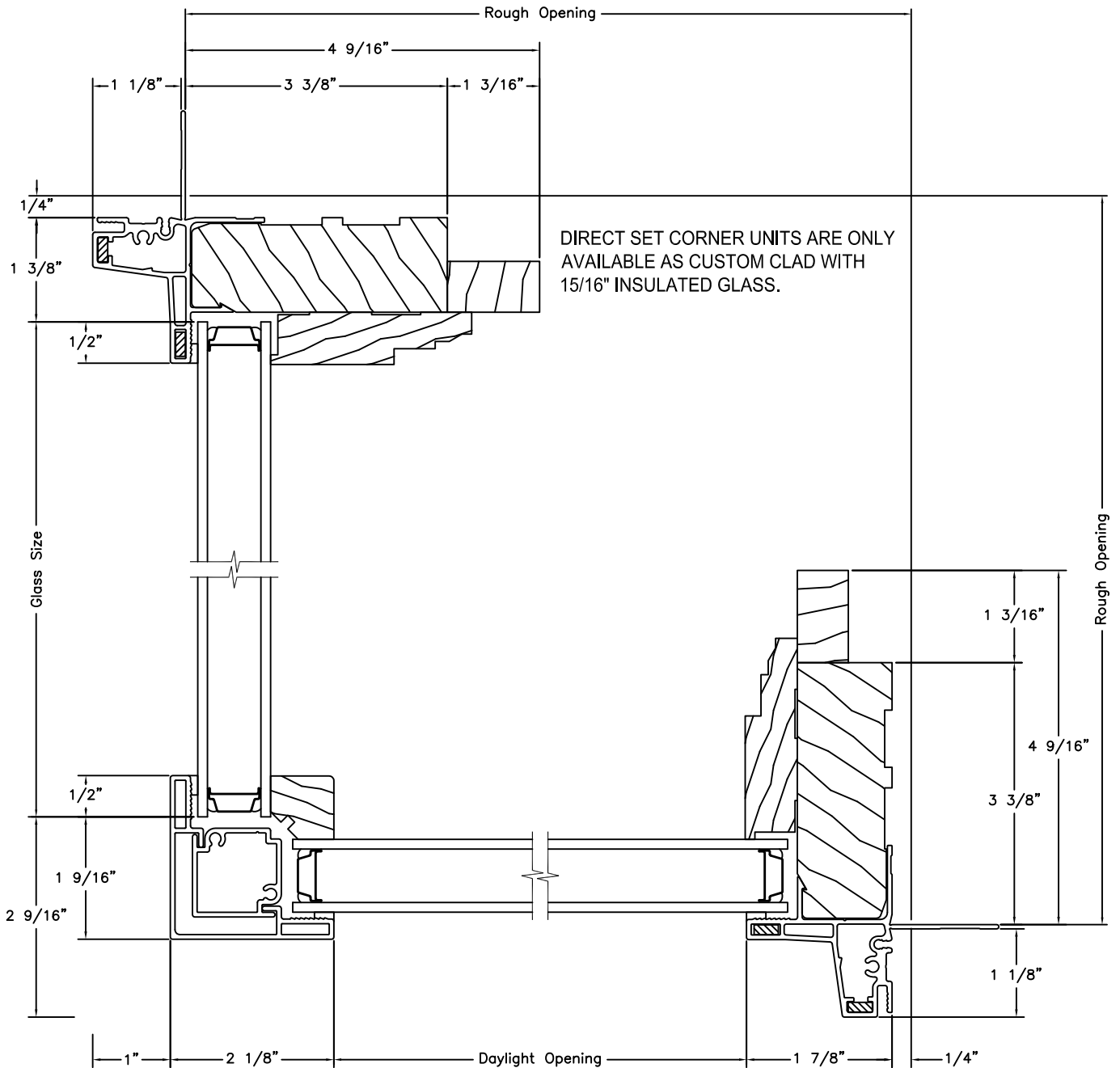
RADIUS HEAD



HORIZONTAL SECTION

SCALE: 6" = 1'

HORIZONTAL SECTION
CORNER UNIT



Horizontal Section