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

Exterior aluminum surfaces are low maintenance extruded aluminum coated with a thermo set polyester finish that meets or exceeds the AAMA 2603 performance standards. Standard colors include Brilliant White, Chestnut Bronze, Desert Sand, French Vanilla, Hartford Green, Mesa Red, Black, Arctic Silver and Dark Chocolate.

**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, Cordovan; and Clear Lacquer.

**FRAME**

Frame is assembled from select kiln dried pine using AuraLast® wood on all exterior parts. Exterior surface is covered with .050 (1.27mm) extruded aluminum cladding. Frame corners at head are mechanically fastened over a silicone injected nylon corner key. Sill corner joints are tightly sealed with a foam gasket and reinforced with screw boss construction. Frame thickness is 1 1/16" (17.5mm) at head, side jamb and sill. Basic jamb width is 4-9/16" (116mm) and may be extended for different wall depths. Integral nailing fin is part of extrusion on all four sides. Assembled frame includes all weather-stripping and hardware installed. Exterior of frame extrusion is grooved to accept accessories.

**SASH**

Sash is 1-7/16" (36.5mm) thick and combines an extruded aluminum exterior with select kiln-dried pine using AuraLast® wood. Corner joints are mortise and tenoned, machine clamped for squareness and secured with metal fasteners. Exterior surfaces are covered with .045 (1.2mm) extruded aluminum, corners are clamped and sealed with silicone. Sash operate in a non-compression ivory colored jamb liner that allows both top and bottom sash to tilt inside for easy cleaning and removal without the use of tools. No finger plow sash available on venting units.

**GLAZING**

3/4" (19mm) thick sealed insulating glass is constructed from two panes of glass, utilizing a continuous roll formed stainless steel spacer with dual seal sealant. 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**

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.

**WEATHER-STRIPPING**

Engineered system combines PVC ivory jamb liner with dual bulb weather-stripping at head. Checkrail features thermoplastic rubber bulb and recessed cam action sash lock for secure closure. Rigid vinyl water stops at sill provide additional restraint against weather.

**HARDWARE**

Sash operate by means of a dual block and tackle balance system with nylon roller pulleys and high-tension coil springs. Balance system gauged to sash weight and uses pre-stretched dacron cords attached to clutch mechanisms to insure smooth, operation and compliance with operating force requirements. Jamb liners are Ivory (White is optional). Recessed cam action sash lock is available in White, Chestnut Bronze, Desert Sand or optional Bright Brass, Antique Brass, Polished Brass, Brushed Chrome or Imitation Oil Rubbed Bronze. 28" glass width and larger units have two sash locks. Optional Lexan sash lift available for no finger plow sash.

**EXTERIOR INSECT SCREENS**

Charcoal fiberglass screen cloth (18x16 mesh) set in painted roll formed aluminum frame with color to match cladding - choice of Brilliant White, Chestnut Bronze, Desert Sand, French Vanilla, Hartford Green, Mesa Red, Black, Arctic Silver or Dark Chocolate, installed in channel on frame extrusion and held in place with spring loaded plungers at the top and sides of screen. Aluminum mesh and Phantom screen also available. Insect screens are intended to allow air and light in and to keep insects out. They are not intended to keep anyone or anything from falling through an open window. For safety screens or other security devices contact your local building supply retailer.

**GRILLES**

**SDL** (Simulated Divided Lites) - extruded aluminum 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. 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.

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

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

**EXTERIOR TRIM**

1-5/8" (41mm) wide aluminum brickmould or Adams casing with an integral nailing fin is available factory applied. Also available is 3-1/2" (88.5mm) flat casing with an integral nailing fin. All of the accessories are .050" (1.3mm) extruded aluminum. Two sizes of frame expander, 1-7/8" (48mm) and 3-1/4" (83mm) may be used alone or in conjunction with a 2-1/8" (54mm) mull expander. Standard 5/16" (8mm) clad mull cover used for joining windows together. Windows may also be joined with 1" (25.4mm), 2" (51mm), or 4" (102mm) mull covers. Color and finish match exterior finish specs above.

*Continued on next page*

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**PRODUCT SPECIFICATIONS**

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**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) option also available.

**INSTALLATION**

Installation per JELD-WEN Installation Method for Metal Clad Windows JII002 or JII013. 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 <i>Some options may require additional lead times. Consult your JELD-WEN Sales Representative.</i>
<b>EXTERIOR FINISH</b>	<ul style="list-style-type: none"> <li>• Brilliant White</li> <li>• Chestnut Bronze</li> <li>• Desert Sand</li> <li>• French Vanilla</li> <li>• Mesa Red</li> <li>• Hartford Green</li> <li>• Black</li> <li>• Arctic Silver</li> <li>• Dark Chocolate</li> </ul>	
<b>EXTERIOR TRIM</b>	<ul style="list-style-type: none"> <li>• Nailing Fin</li> <li>• Drip Cap</li> </ul>	<ul style="list-style-type: none"> <li>• Aluminum 1-5/8" Brickmould with integral nailing fin</li> <li>• 3-1/2" Flat Casing with integral nailing fin</li> <li>• Adams Clad Brickmould with integral nailing fin</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</li> <li>• Clear Lacquer</li> </ul>
<b>SIZE</b>	<ul style="list-style-type: none"> <li>• Width: Venting Double-Hung: 21-3/8, 25-3/8, 29-3/8, 31-3/8, 33-3/8, 37-3/8, 41-3/8, 45-3/8</li> <li>Picture Double-Hung: 21-3/8, 25-3/8, 29-3/8, 31-3/8, 33-3/8, 37-3/8, 41-3/8, 45-3/8, 49-3/8, 53-3/8, 61-3/8, 69-3/8, 77-3/8</li> <li>• Height: Venting Double-Hung: 32, 36, 40, 44, 48, 52, 56, 60, 64, 68, 72, 76, 80, 88, 92</li> <li>Picture Double-Hung: 15, 18, 24, 32, 36, 40, 44, 48, 52, 56, 60, 64, 68, 72, 76, 80, 88, 92</li> <li>• For RO, add 3/4"</li> </ul>	<ul style="list-style-type: none"> <li>• Width: Venting Double-Hung: Minimum: 16" Maximum: 45-3/8"</li> <li>Picture Double-Hung: Minimum: 16" Maximum: 77-3/8" Fixed Units over 49-3/8" wide can be up to 80" high Fixed Units up to 49-3/8" wide can be up to 92" high</li> <li>• Height: Venting Double-Hung: Minimum: 28" Maximum: 92" * * glass can't exceed 42" high</li> <li>Picture Double-Hung: Minimum: 15" Maximum: 92" Fixed Units over 49-3/8" wide can be up to 80" high Fixed Units up to 49-3/8" wide can be up to 92" high</li> <li>• For RO, add 3/4"</li> </ul>
<b>GLAZING</b>	<ul style="list-style-type: none"> <li>• Low-E Insulating Glass</li> <li>• Preserve® Protective Film</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>• Reflective</li> <li>• Tempered</li> </ul> <hr/> <ul style="list-style-type: none"> <li>• High Altitude</li> </ul>

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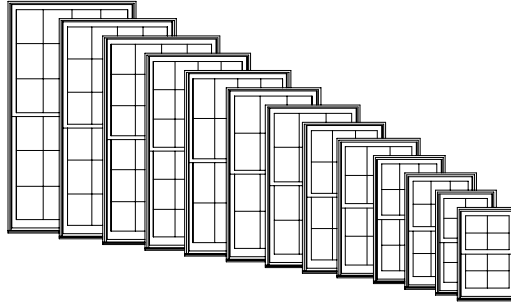
**QUICK SPEC GUIDE**

SPECIFICATION	STANDARD FEATURES	OPTIONAL FEATURES <i>Some options may require additional lead times. Consult your JELD-WEN Sales Representative.</i>
<b>GRILLES</b>		<ul style="list-style-type: none"> <li>• 5/8" Flat, 23/32" or 1" Contour GBG</li> <li>• 7/8" Full Surround Wood Grilles</li> </ul> SDL Bead Profile: <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>
<b>HARDWARE</b>	<ul style="list-style-type: none"> <li>• Balance: Dual Block and Tackle</li> <li>• Cam Locks</li> <li>• Ivory Jamb Liners (standard)</li> </ul>	<ul style="list-style-type: none"> <li>• White</li> </ul>
<b>HARDWARE COLOR</b>	<ul style="list-style-type: none"> <li>• White</li> <li>• Desert Sand</li> <li>• Chestnut Bronze</li> </ul>	<ul style="list-style-type: none"> <li>• Antique Brass</li> <li>• Polished Brass</li> <li>• Brushed Chrome</li> <li>• Imitation Oil Rubbed Bronze</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: 4-9/16"</li> <li>• Maximum: 9-5/16" (one piece)</li> <li>• Maximum: 12" (two piece)</li> </ul>
<b>SCREENS</b>	<ul style="list-style-type: none"> <li>• Fiberglass</li> </ul>	<ul style="list-style-type: none"> <li>• Aluminum Mesh available</li> <li>• Phantom Screen - some size limitations apply</li> </ul>
<b>SCREEN FRAME COLOR</b>	<ul style="list-style-type: none"> <li>• Brilliant White</li> <li>• Chestnut Bronze</li> <li>• Desert Sand</li> <li>• French Vanilla</li> <li>• Mesa Red</li> <li>• Hartford Green</li> <li>• Black</li> <li>• Arctic Silver</li> <li>• Dark Chocolate</li> </ul>	

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**GENERAL INFORMATION**  
**DOUBLE-HUNG**

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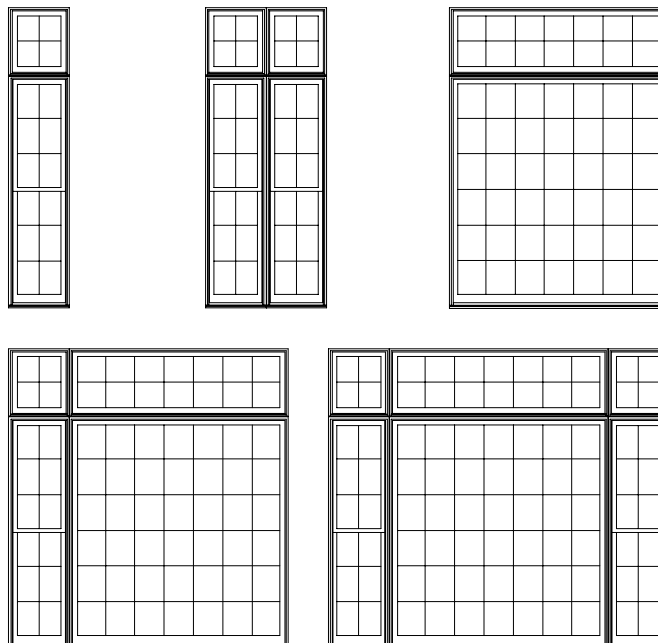
**DIMENSIONAL WINDOWS**

Clad double-hung windows may be specified as "dimensional" by adjusting the the desired rough opening width or height in 1/4" increments from standard.

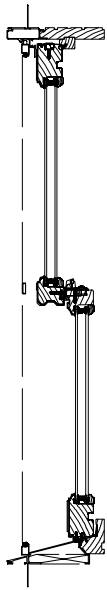
Clad double-hung windows feature fully operating upper and lower sash. Counterbalancing is achieved with block and tackle spring extension systems hidden in weatherable PVC jamb liners. Operating units are supplied with cam-type sash locks installed. Die-cast lower sash lifts supplied for field installation are an option. Recessed sash retainers provide simple sash installation and removal. There are several hardware finish options. Refer to the Specifications for available finish options.

**MULTIPLE ASSEMBLIES**

Clad double-hung windows may be mullied beside other clad double-hungs or clad picture windows, or below clad transom windows, to fulfill a wide variety of needs. Factory assembled mulls are limited in height (100"), width (114"), and a total area (75 square feet).



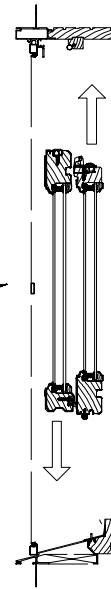
**HANDING & OPERATION**  
**DOUBLE-HUNG**



**DOUBLE-HUNG OPERATION:**

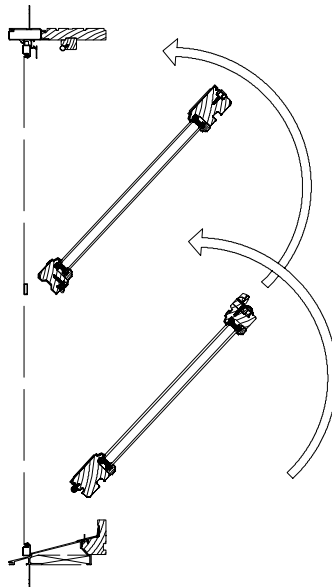
When the sash are locked at the check rails the sash are closed and sealed in the sash opening of the frame.

When the sash are unlocked the lower sash travels vertically to any position desired. The upper sash can also be positioned as desired.



**SASH TILTING FOR WASHING**

The Custom Double-Hung window will allow the sash to be tilted or removed for easy cleaning.



**ELEVATION NOTES**  
**DOUBLE-HUNG**

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.

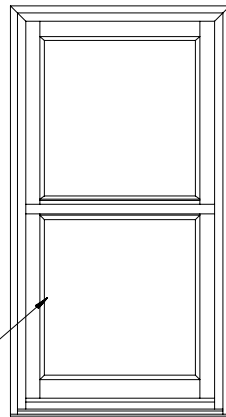
M.O. Brickmould  
M.O. Adams/Flat Casing  
Rough Opening  
Frame Size  
Daylight Opening

24 7/8" (632)  
27 7/8" (708)  
22 1/8" (562)  
21 3/8" (543)  
14 13/16" (376)

Masonry Openings for Brickmould, Flat & Adams Casing.  
Vertical measurements include sillnose.  
(Subtract 1/2" from Masonry Opening for Unit Size)

42 5/16" (1075)  
43 13/16" (1113)  
40 3/4" (1035)  
40" (1016)  
15 1/16" (383)[2]

DAYLIGHT OPENING



OUTSIDE OF FRAME

COTTAGE STYLE WINDOWS  
BOOK CODES

ECD2168C

UNIT WIDTH

UNIT HEIGHT

C = COTTAGE

**ECD2140**

'ECD' INDICATES  
SITELINE EX CLAD DOUBLE-HUNG

BOOK CODE

THE FIRST TWO NUMBERS  
INDICATE THE UNIT WIDTH

THE LAST TWO NUMBERS INDICATE  
THE UNIT HEIGHT

**GENERAL DOUBLE-HUNG NOTES**

1. ALL UNITS SHOWN ARE AVAILABLE AS OPERATORS ONLY.
2. UNIT ELEVATIONS ARE SHOWN WITHOUT EXTERIOR TRIM.
3. ALL OPERATING SASH ARE INSTALLED WITH VINYL JAMB LINERS AND OPERATED WITH AN INTERNAL BLOCK AND TACKLE SPRING SYSTEM.
4. DIMENSIONAL VALUES IN PARENTHESES ARE MILLIMETER CONVERSIONS.
5. VALUES IN BRACKETS ARE NUMBER OF DAYLIGHT OPENINGS.

**ELEVATION SYMBOL LEGEND:**

**MO** MASONRY OPENING



**1-WIDE UNITS**

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

24 7/8"(632)	28 7/8"(733)	32 7/8"(835)	34 7/8"(886)	36 7/8"(937)	40 7/8"(1038)	44 7/8"(1140)	
27 7/8"(708)	31 7/8"(810)	35 7/8"(911)	37 7/8"(962)	39 7/8"(1013)	43 7/8"(1114)	47 7/8"(1216)	
22 1/8"(562)	26 1/8"(664)	30 1/8"(765)	32 1/8"(816)	34 1/8"(867)	38 1/8"(968)	42 1/8"(1070)	
21 3/8"(543)	25 3/8"(645)	29 3/8"(670)	31 3/8"(797)	33 3/8"(848)	37 3/8"(949)	41 3/8"(1051)	
14 13/16"(376)	18 13/16"(478)	22 13/16"(579)	24 13/16"(630)	26 13/16"(681)	30 13/16"(783)	34 13/16"(884)	
34 5/16"(872) 35 13/16"(910) 32 3/4"(832) 32"(813) 11 1/16"(281 2)							
38 5/16"(973) 39 13/16"(1011) 36 3/4"(933) 36"(914) 13 1/16"(332 2)							
42 5/16"(1075) 43 13/16"(1113) 40 3/4"(1035) 40"(1016) 15 1/16"(383 2)							
46 5/16"(1176) 47 13/16"(1214) 44 3/4"(1137) 44"(1118) 17 1/16"(433 2)							
50 5/16"(1278) 51 13/16"(1316) 48 3/4"(1238) 48"(1219) 19 1/16"(484 2)							
54 5/16"(1380) 55 13/16"(1418) 52 3/4"(1340) 52"(1321) 21 1/16"(535 2)							
58 5/16"(1481) 59 13/16"(1519) 56 3/4"(1441) 56"(1422) 23 1/16"(586 2)							

**ELEVATION SYMBOL LEGEND:**  
**M.O.** = MASONRY OPENING  
 VALUES IN ( ) ARE IN MILLIMETER CONVERSIONS  
 VALUES IN [ ] ARE NUMBER OF DAYLIGHT OPENINGS PER UNIT  
**E** BASIC UNIT CLEAR OPENING EXCEEDS 20" IN WIDTH, 24" IN HEIGHT & A MINIMUM OF 5.7 SQ. FT.  
**##\*** NUMBER INDICATES STANDARD DESIGN PRESSURE (DP) RATING.  
**###\*** NUMBER INDICATES OPTIONAL DESIGN PRESSURE (DP) RATING.

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'

### 1-WIDE UNITS

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

24 7/8" (632)	28 7/8" (733)	32 7/8" (835)	34 7/8" (886)	36 7/8" (937)	40 7/8" (1038)	44 7/8" (1140)
27 7/8" (708)	31 7/8" (810)	35 7/8" (911)	37 7/8" (962)	39 7/8" (1013)	43 7/8" (1114)	47 7/8" (1216)
22 1/8" (562)	26 1/8" (664)	30 1/8" (765)	32 1/8" (816)	34 1/8" (867)	38 1/8" (968)	42 1/8" (1070)
21 3/8" (543)	25 3/8" (645)	29 3/8" (670)	31 3/8" (797)	33 3/8" (848)	37 3/8" (949)	41 3/8" (1051)
14 13/16" (376)	18 13/16" (478)	22 13/16" (579)	24 13/16" (630)	26 13/16" (681)	30 13/16" (783)	34 13/16" (884)

62 5/16" (1583) 63 13/16" (1621) 60 3/4" (1593) 60" (1524) 25 1/16" (637) [2]							
66 5/16" (1684) 67 13/16" (1722) 64 3/4" (1645) 64" (1626) 27 1/16" (687) [2]							
70 5/16" (1786) 71 13/16" (1824) 68 3/4" (1746) 68" (1727) 29 1/16" (738) [2]							
70 5/16" (1786) 71 13/16" (1824) 68 3/4" (1746) 68" (1727) 35 1/16" (891) 23 1/16" (586)							
74 5/16" (1888) 75 13/16" (1926) 72 3/4" (1848) 72" (1829) 31 1/16" (789) [2]							

**ELEVATION SYMBOL LEGEND:**

M.O. = MASONRY OPENING  
VALUES IN ( ) ARE IN MILLIMETER CONVERSIONS  
VALUES IN [ ] ARE NUMBER OF DAYLIGHT OPENINGS PER UNIT  
E BASIC UNIT CLEAR OPENING EXCEEDS 20" IN WIDTH, 24" IN HEIGHT & A MINIMUM OF 5.7 SQ. FT.  
##\* NUMBER INDICATES STANDARD DESIGN PRESSURE (DP) RATING.  
###\* NUMBER INDICATES OPTIONAL DESIGN PRESSURE (DP) RATING.

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'

**1-WIDE UNITS**

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

24 7/8"(632)  
27 7/8"(708)  
22 1/8"(562)  
21 3/8"(543)  
14 13/16"(376)

28 7/8"(733)  
31 7/8"(810)  
26 1/8"(664)  
25 3/8"(645)  
18 13/16"(478)

32 7/8"(835)  
35 7/8"(911)  
30 1/8"(765)  
29 3/8"(670)  
22 13/16"(579)

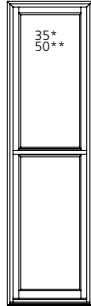
34 7/8"(886)  
37 7/8"(962)  
32 1/8"(816)  
31 3/8"(797)  
24 13/16"(630)

36 7/8"(937)  
39 7/8"(1013)  
34 1/8"(867)  
33 3/8"(848)  
26 13/16"(681)

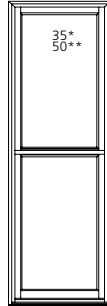
40 7/8"(1038)  
43 7/8"(1114)  
38 1/8"(968)  
37 3/8"(949)  
30 13/16"(783)

44 7/8"(1140)  
47 7/8"(1216)  
42 1/8"(1070)  
41 3/8"(1051)  
34 13/16"(884)

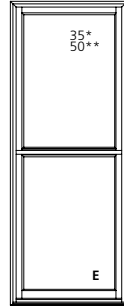
78 5/16" (1989)  
79 13/16" (2027)  
76 3/4" (1949)  
76" (1930)  
33 1/16" (840) [2]



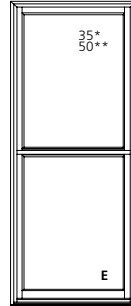
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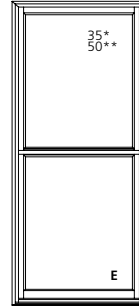
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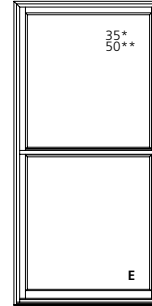
ECD2976



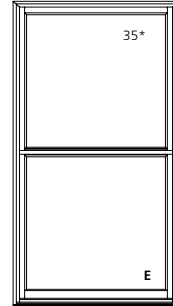
ECD3176



ECD3376

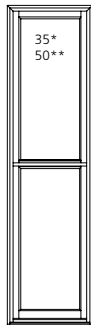


ECD3776

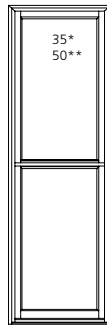


ECD4176

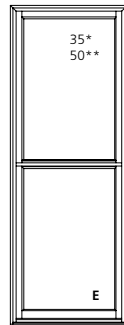
82 5/16" (2091)  
83 13/16" (2129)  
80 3/4" (2051)  
80" (2032)  
35 1/16" (891) [2]



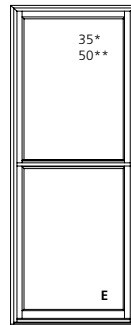
ECD2180



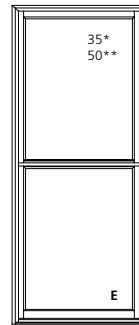
ECD2580



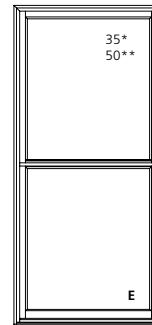
ECD2980



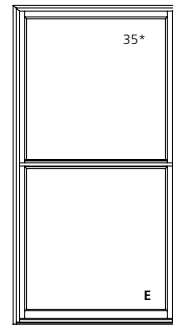
ECD3180



ECD3380

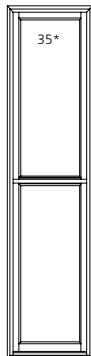


ECD3780

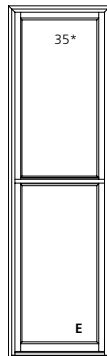


ECD4180

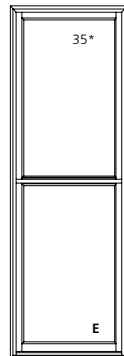
90 5/16" (2294)  
91 13/16" (2332)  
88 3/4" (2254)  
88" (2235)  
39 1/16" (992) [2]



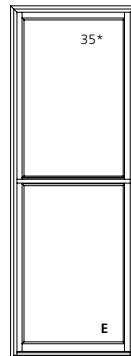
ECD2188



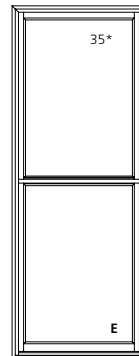
ECD2588



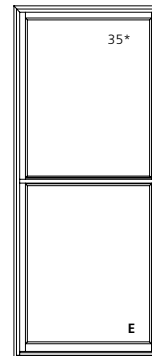
ECD2988



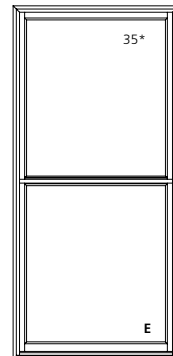
ECD3188



ECD3388

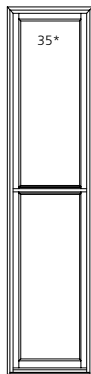


ECD3788

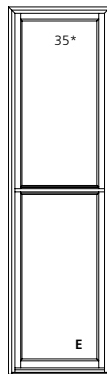


ECD4188

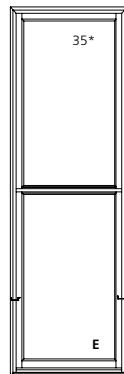
94 5/16" (2396)  
95 13/16" (2434)  
92 3/4" (2356)  
92" (2337)  
41 1/16" (1043) [2]



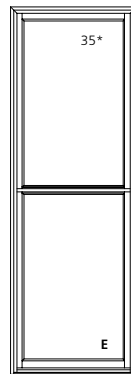
ECD2192



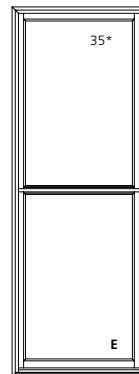
ECD2592



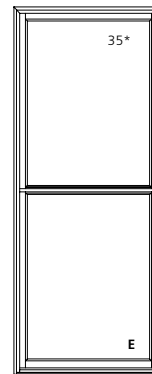
ECD2992



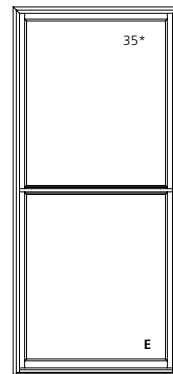
ECD3192



ECD3392



ECD3792



ECD4192

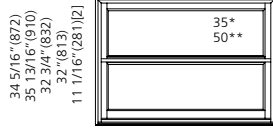
**ELEVATION SYMBOL LEGEND:**

**M.O.** = MASONRY OPENING  
VALUES IN ( ) ARE IN MILLIMETER CONVERSIONS  
VALUES IN [ ] ARE NUMBER OF DAYLIGHT OPENINGS PER UNIT  
**E** BASIC UNIT CLEAR OPENING EXCEEDS 20" IN WIDTH, 24" IN HEIGHT & A MINIMUM OF 5.7 SQ. FT.  
##\* NUMBER INDICATES STANDARD DESIGN PRESSURE (DP) RATING.  
###\* NUMBER INDICATES OPTIONAL DESIGN PRESSURE (DP) RATING.

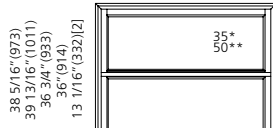
Note: Elevations shown DO NOT have exterior trim. Subtract 1/2" (12.7) from M.O. (Masonry Opening) for Unit Sizes. Masonry Openings above include Sill Nose, see Trim Options page for Sill Nose specifications. For other Trim Options refer to the Unit Sizing, Rough Opening & Masonry Openings page. **SCALE 1/4" = 1'**

**1-WIDE UNITS**

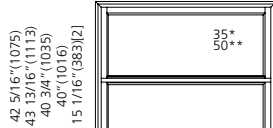
**M.O. BRICKMOULD** 48 7/8"(1241)  
**M.O. ADAMS/FLAT CASING** 51 7/8"(1318)  
**ROUGH OPENING** 46 1/8"(1172)  
**FRAME SIZE** 45 3/8"(1153)  
**DAYLIGHT OPENING** 38 13/16"(986)



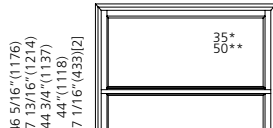
ECD4532



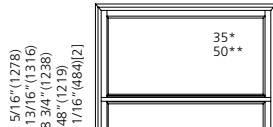
ECD4536



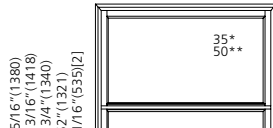
ECD4540



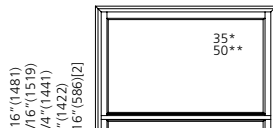
ECD4544



ECD4548

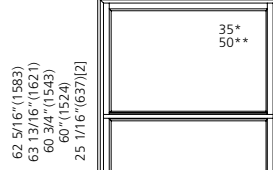


ECD4552

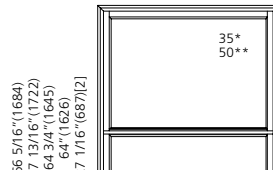


ECD4556

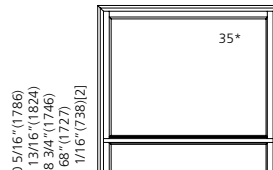
**M.O. BRICKMOULD** 48 7/8"(1241)  
**M.O. ADAMS/FLAT CASING** 51 7/8"(1318)  
**ROUGH OPENING** 46 1/8"(1172)  
**FRAME SIZE** 45 3/8"(1153)  
**DAYLIGHT OPENING** 38 13/16"(986)



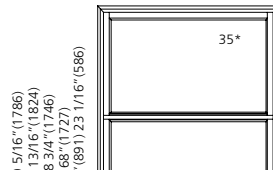
ECD4560



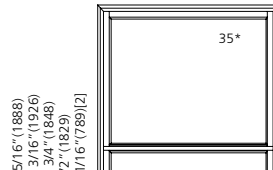
ECD4564



ECD4568

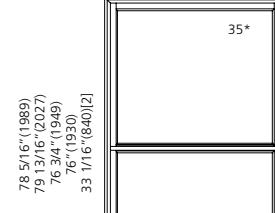


ECD4588

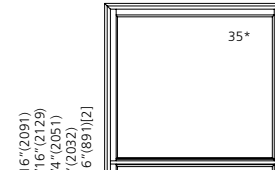


ECD4572

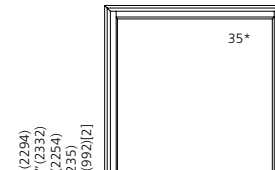
**M.O. BRICKMOULD** 48 7/8"(1241)  
**M.O. ADAMS/FLAT CASING** 51 7/8"(1318)  
**ROUGH OPENING** 46 1/8"(1172)  
**FRAME SIZE** 45 3/8"(1153)  
**DAYLIGHT OPENING** 38 13/16"(986)



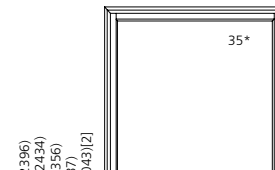
ECD4576



ECD4580



ECD4584



ECD4592

**ELEVATION SYMBOL LEGEND:**

**M.O.** = MASONRY OPENING  
VALUES IN ( ) ARE IN MILLIMETER CONVERSIONS  
VALUES IN [ ] ARE NUMBER OF DAYLIGHT OPENINGS PER UNIT  
**E** BASIC UNIT CLEAR OPENING EXCEEDS 20" IN WIDTH, 24" IN HEIGHT & A MINIMUM OF 5.7 SQ. FT.  
##\* NUMBER INDICATES STANDARD DESIGN PRESSURE (DP) RATING.  
###\* NUMBER INDICATES OPTIONAL DESIGN PRESSURE (DP) RATING.

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'

**2-WIDE UNITS**

M.O. BRICKMOULD	46 1/4" (1175)	54 1/4" (1378)	62 1/4" (1581)	66 1/4" (1683)	70 1/4" (1784)	78 1/4" (1988)	86 1/4" (2191)
M.O. ADAMS/FLAT CASING	49 1/4" (1251)	57 1/4" (1454)	65 1/4" (1657)	69 1/4" (1759)	73 1/4" (1861)	81 1/4" (2064)	89 1/4" (2267)
ROUGH OPENING	43 1/2" (1105)	51 1/2" (1308)	59 1/2" (1511)	63 1/2" (1613)	67 1/2" (1715)	75 1/2" (1918)	83 1/2" (2121)
FRAME SIZE	42 3/4" (1086)	50 3/4" (1289)	58 3/4" (1492)	62 3/4" (1594)	66 3/4" (1695)	74 3/4" (1899)	82 3/4" (2102)
DAYLIGHT OPENING	14 13/16" (376)[2]	18 13/16" (478)[2]	22 13/16" (579)[2]	24 13/16" (630)[2]	26 13/16" (681)[2]	30 13/16" (783)[2]	34 13/16" (884)[2]
34 5/16" (872)							
35 13/16" (910)	ECD2132-2	ECD2532-2	ECD2932-2	ECD3132-2	ECD3332-2	ECD3732-2	ECD4132-2
32 3/4" (832)							
32" (813)	ECD2136-2	ECD2536-2	ECD2936-2	ECD3136-2	ECD3336-2	ECD3736-2	ECD4136-2
32" (813)							
32" (813)	ECD2140-2	ECD2540-2	ECD2940-2	ECD3140-2	ECD3340-2	ECD3740-2	ECD4140-2
32" (813)							
32" (813)	ECD2144-2	ECD2544-2	ECD2944-2	ECD3144-2	ECD3344-2	ECD3744-2	ECD4144-2
32" (813)							
32" (813)	ECD2148-2	ECD2548-2	ECD2948-2	ECD3148-2	ECD3348-2	ECD3748-2	ECD4148-2
32" (813)							
32" (813)	ECD2152-2	ECD2552-2	ECD2952-2	ECD3152-2	ECD3352-2	ECD3752-2	ECD4152-2
32" (813)							
32" (813)	ECD2156-2	ECD2556-2	ECD2956-2	ECD3156-2	ECD3356-2	ECD3756-2	ECD4156-2
32" (813)							
32" (813)	ECD2160-2	ECD2560-2	ECD2960-2	ECD3160-2	ECD3360-2	ECD3760-2	ECD4160-2
32" (813)							
32" (813)	ECD2164-2	ECD2564-2	ECD2964-2	ECD3164-2	ECD3364-2	ECD3764-2	ECD4164-2
32" (813)							
32" (813)	ECD2168-2	ECD2568-2	ECD2968-2	ECD3168-2	ECD3368-2	ECD3768-2	ECD4168-2
32" (813)							
32" (813)	ECD2172-2	ECD2572-2	ECD2972-2	ECD3172-2	ECD3372-2	ECD3772-2	ECD4172-2

**ELEVATION SYMBOL LEGEND:**  
**M.O.** = MASONRY OPENING  
 VALUES IN ( ) ARE IN MILLIMETER CONVERSIONS  
 VALUES IN [ ] ARE NUMBER OF DAYLIGHT OPENINGS PER UNIT

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 1/8" = 1"




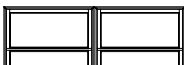



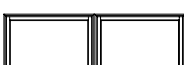



**2-WIDE UNITS**


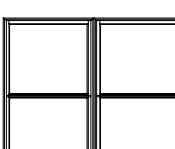
M.O. BRICKMOULD	46 1/4"(1175)	54 1/4"(1378)	62 1/4"(1581)	66 1/4"(1683)	70 1/4"(1784)	78 1/4"(1988)	86 1/4"(2191)
M.O. ADAMS/FLAT CASING	49 1/4"(1251)	57 1/4"(1454)	65 1/4"(1657)	69 1/4"(1759)	73 1/4"(1861)	81 1/4"(2064)	89 1/4"(2267)
ROUGH OPENING	43 1/2"(1105)	51 1/2"(1308)	59 1/2"(1511)	63 1/2"(1613)	67 1/2"(1715)	75 1/2"(1918)	83 1/2"(2121)
FRAME SIZE	42 3/4"(1086)	50 3/4"(1289)	58 3/4"(1492)	62 3/4"(1594)	66 3/4"(1695)	74 3/4"(1899)	82 3/4"(2102)
DAYLIGHT OPENING	14 13/16"(376)[2]	18 13/16"(478)[2]	22 13/16"(579)[2]	24 13/16"(630)[2]	26 13/16"(681)[2]	30 13/16"(783)[2]	34 13/16"(884)[2]
78 5/16"(1989)							
79 1/16"(2027)	ECD2176-2	ECD2576-2	ECD2976-2	ECD3176-2	ECD3376-2	ECD3776-2	ECD4176-2
76 3/4"(1949)							
76"(1930)							
33 1/16"(840)[2]							
82 5/16"(2091)							
83 1/16"(2129)	ECD2180-2	ECD2580-2	ECD2980-2	ECD3180-2	ECD3380-2	ECD3780-2	ECD4180-2
80 3/4"(2051)							
80"(2032)							
35 1/16"(891)[2]							

**ELEVATION SYMBOL LEGEND:**  
**M.O.** = MASONRY OPENING  
 VALUES IN ( ) ARE IN MILLIMETER CONVERSIONS  
 VALUES IN [ ] ARE NUMBER OF DAYLIGHT OPENINGS PER UNIT

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.

**2-WIDE UNITS**

M.O. BRICKMOULD M.O. ADAMS/FLAT CASING ROUGH OPENING FRAME SIZE DAYLIGHT OPENING	94 1/4" (2394) 97 1/4" (2470) 91 1/2" (2324) 90 3/4" (2305) 38 13/16" (986)[2]
34 5/16" (872) 35 13/16" (910) 32 3/4" (832) 32" (813) 11 1/16" (281)[2]	 ECD4532-2
38 5/16" (973) 39 13/16" (1011) 36 3/4" (933) 36" (914) 13 1/16" (332)[2]	 ECD4536-2
42 5/16" (1075) 43 13/16" (1113) 40 3/4" (1035) 40" (1016) 15 1/16" (383)[2]	 ECD4540-2
46 5/16" (1176) 47 13/16" (1214) 44 3/4" (1137) 44" (1118) 17 1/16" (433)[2]	 ECD4544-2
50 5/16" (1278) 51 13/16" (1316) 48 3/4" (1238) 48" (1219) 19 1/16" (484)[2]	 ECD4548-2
54 5/16" (1380) 55 13/16" (1418) 52 3/4" (1340) 52" (1321) 21 1/16" (535)[2]	 ECD4552-2
58 5/16" (1481) 59 13/16" (1519) 56 3/4" (1441) 56" (1422) 23 1/16" (586)[2]	 ECD4556-2
62 5/16" (1583) 63 13/16" (1621) 60 3/4" (1543) 60" (1524) 25 1/16" (637)[2]	 ECD4560-2
66 5/16" (1684) 67 13/16" (1722) 64 3/4" (1645) 64" (1626) 27 1/16" (687)[2]	 ECD4564-2
70 5/16" (1786) 71 13/16" (1824) 68 3/4" (1746) 68" (1727) 29 1/16" (738)[2]	 ECD4568-2
74 5/16" (1888) 75 13/16" (1926) 72 3/4" (1848) 72" (1829) 31 1/16" (789)[2]	 ECD4572-2

M.O. BRICKMOULD M.O. ADAMS/FLAT CASING ROUGH OPENING FRAME SIZE DAYLIGHT OPENING	94 1/4" (2394) 97 1/4" (2470) 91 1/2" (2324) 90 3/4" (2305) 38 13/16" (986)[2]
78 5/16" (1989) 79 13/16" (2027) 76 3/4" (1949) 76" (1930) 33 1/16" (840)[2]	 ECD4576-2
82 5/16" (2091) 83 13/16" (2129) 80 3/4" (2051) 80" (2032) 35 1/16" (891)[2]	 ECD4580-2

**ELEVATION SYMBOL LEGEND:**  
M.O. = MASONRY OPENING  
VALUES IN ( ) ARE IN MILLIMETER CONVERSIONS  
VALUES IN [ ] ARE NUMBER OF DAYLIGHT OPENINGS PER UNIT

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 1/8" = 1'

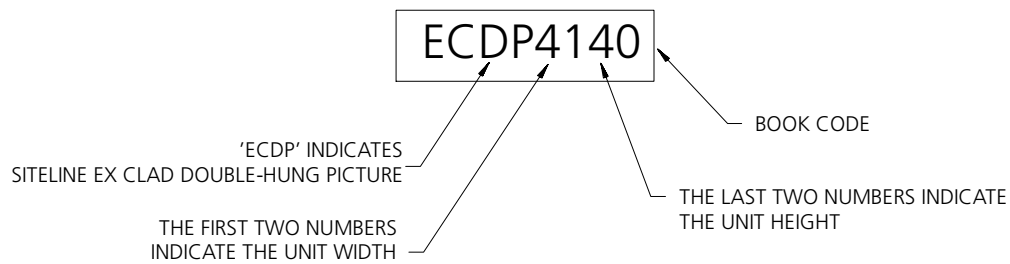
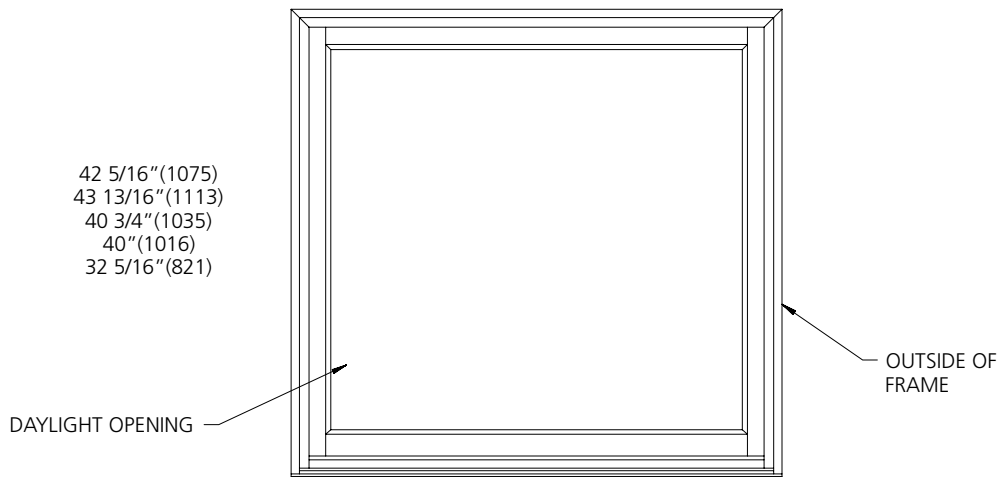
**ELEVATION NOTES**  
**DOUBLE-HUNG PICTURE**

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.

M.O. Brickmould  
M.O. Adams/Flat Casing  
Rough Opening  
Frame Size  
Daylight Opening

44 7/8" (1140)  
47 7/8" (1216)  
42 1/8" (1070)  
41 3/8" (1051)  
34 13/16" (884)

Masonry Openings for Brickmould, Flat & Adams Casing.  
Vertical measurements include sillnose.  
(Subtract 1/2" from Masonry Opening for Unit Size)



**GENERAL DOUBLE-HUNG PICTURE NOTES**

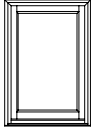
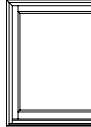
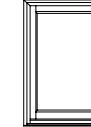
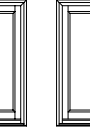
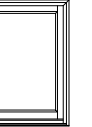


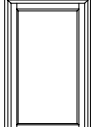
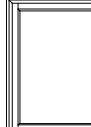
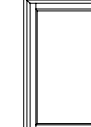
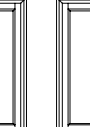
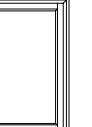


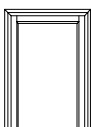
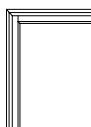
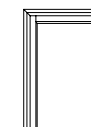
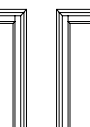
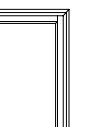

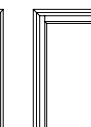

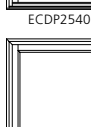
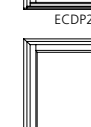
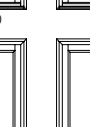
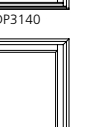
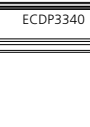
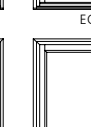



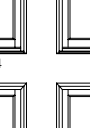
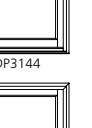
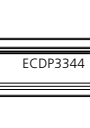

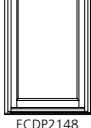


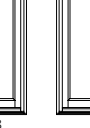
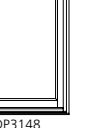


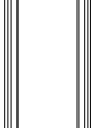
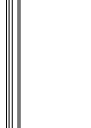
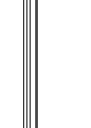
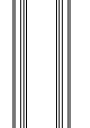
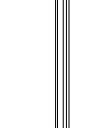


1. ALL UNITS SHOWN ARE AVAILABLE AS STATIONARY ONLY.
2. UNIT ELEVATIONS ARE SHOWN WITHOUT EXTERIOR TRIM.
3. DIMENSIONAL VALUES IN BRACKETS ARE MILLIMETER CONVERSIONS.

**ELEVATION SYMBOL LEGEND:**

**MO** MASONRY OPENING



**PICTURE UNITS**

M.O. BRICKMOUND	24 7/8"(632)	28 7/8"(733)	32 7/8"(835)	34 7/8"(886)	36 7/8"(937)	40 7/8"(1038)	44 7/8"(1140)
M.O. ADAMS/FLAT CASING	27 7/8"(708)	31 7/8"(810)	35 7/8"(911)	37 7/8"(962)	39 7/8"(1013)	43 7/8"(1114)	47 7/8"(1216)
ROUGH OPENING	22 1/8"(562)	26 1/8"(664)	30 1/8"(765)	32 1/8"(816)	34 1/8"(867)	38 1/8"(968)	42 1/8"(1070)
FRAME SIZE	21 3/8"(543)	25 3/8"(645)	29 3/8"(746)	31 3/8"(797)	33 3/8"(848)	37 3/8"(949)	41 3/8"(1051)
DAYLIGHT OPENING	14 13/16"(376)	18 13/16"(478)	22 13/16"(579)	24 13/16"(630)	26 13/16"(681)	30 13/16"(783)	34 13/16"(884)
34 5/16"(872) 35 13/16"(910) 32 3/4"(832) 32"(813) 24 5/16"(618)							
	ECDP2132	ECDP2532	ECDP2932	ECDP3132	ECDP3332	ECDP3732	ECDP4132
38 5/16"(973) 39 13/16"(1011) 36 3/4"(933) 36"(914) 28 5/16"(719)							
	ECDP2136	ECDP2536	ECDP2936	ECDP3136	ECDP3336	ECDP3736	ECDP4136
42 5/16"(1075) 43 13/16"(1113) 40 3/4"(1035) 40"(1016) 32 5/16"(821)							
	ECDP2140	ECDP2540	ECDP2940	ECDP3140	ECDP3340	ECDP3740	ECDP4140
46 5/16"(1176) 47 13/16"(1214) 44 3/4"(1137) 44"(1118) 36 5/16"(922)							
	ECDP2144	ECDP2544	ECDP2944	ECDP3144	ECDP3344	ECDP3744	ECDP4144
50 5/16"(1278) 51 13/16"(1316) 48 3/4"(1238) 48"(1219) 40 5/16"(1024)							
	ECDP2148	ECDP2548	ECDP2948	ECDP3148	ECDP3348	ECDP3748	ECDP4148
54 5/16"(1380) 55 13/16"(1418) 52 3/4"(1340) 52"(1321) 44 5/16"(1126)							
	ECDP2152	ECDP2552	ECDP2952	ECDP3152	ECDP3352	ECDP3752	ECDP4152
58 5/16"(1481) 59 13/16"(1519) 56 3/4"(1441) 56"(1422) 48 5/16"(1227)							
	ECDP2156	ECDP2556	ECDP2956	ECDP3156	ECDP3356	ECDP3756	ECDP4156

**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.

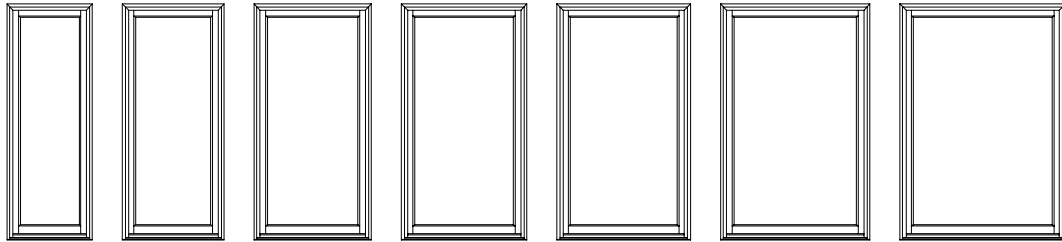
SCALE 1/4" = 1'

**PICTURE UNITS**

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

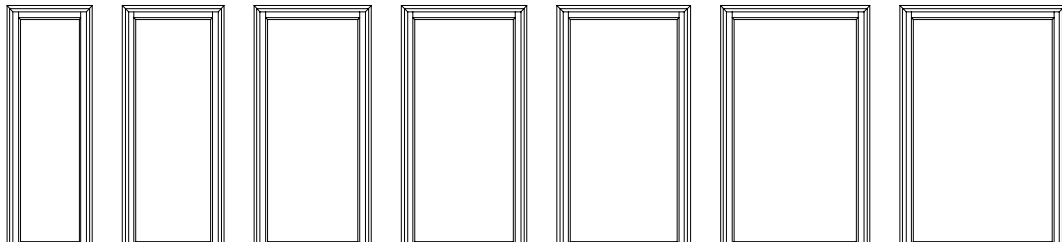
24 7/8" (632)	28 7/8" (733)	32 7/8" (835)	34 7/8" (886)	36 7/8" (937)	40 7/8" (1038)	44 7/8" (1140)
27 7/8" (708)	31 7/8" (810)	35 7/8" (911)	37 7/8" (962)	39 7/8" (1013)	43 7/8" (1114)	47 7/8" (1216)
22 1/8" (562)	26 1/8" (664)	30 1/8" (765)	32 1/8" (816)	34 1/8" (867)	38 1/8" (968)	42 1/8" (1070)
21 3/8" (543)	25 3/8" (645)	29 3/8" (670)	31 3/8" (797)	33 3/8" (848)	37 3/8" (949)	41 3/8" (1051)
14 13/16" (376)	18 13/16" (478)	22 13/16" (579)	24 13/16" (630)	26 13/16" (681)	30 13/16" (783)	34 13/16" (884)

62 5/16" (1583)  
63 13/16" (1621)  
60 3/4" (1543)  
60" (1524)  
52 5/16" (1329)



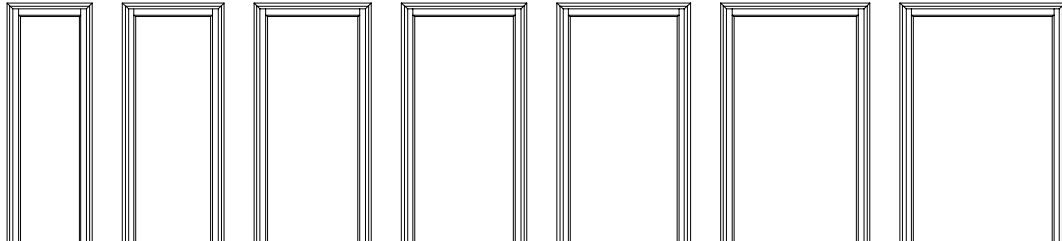
ECDP2160 ECDP2560 ECDP2960 ECDP3160 ECDP3360 ECDP3760 ECDP4160

66 5/16" (1684)  
69 13/16" (1773)  
64 3/4" (1645)  
64" (1626)  
56 5/16" (1430)



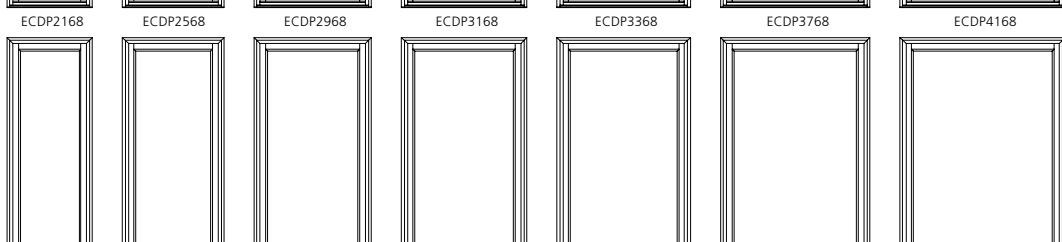
ECDP2164 ECDP2564 ECDP2964 ECDP3164 ECDP3364 ECDP3764 ECDP4164

70 5/16" (1786)  
71 13/16" (1824)  
68 3/4" (1746)  
68" (1727)  
60 5/16" (1532)



ECDP2168 ECDP2568 ECDP2968 ECDP3168 ECDP3368 ECDP3768 ECDP4168

74 5/16" (1888)  
75 13/16" (1926)  
72 3/4" (1848)  
72" (1829)  
64 5/16" (1634)



ECDP2172 ECDP2572 ECDP2972 ECDP3172 ECDP3372 ECDP3772 ECDP4172

78 5/16" (1989)  
79 13/16" (2027)  
76 3/4" (1949)  
76" (1930)  
68 5/16" (1735)



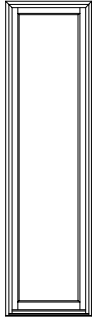
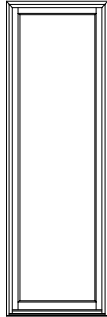
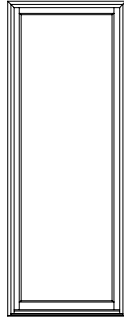
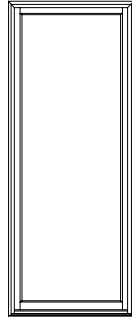
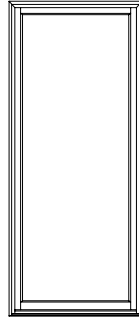
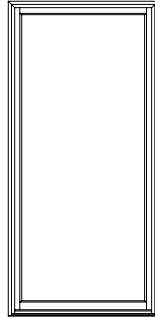
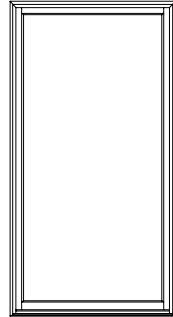
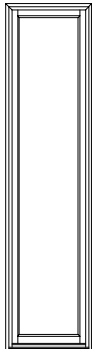
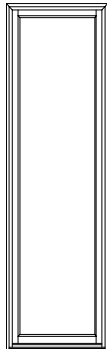
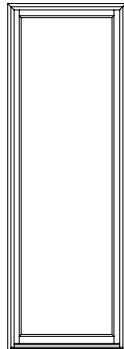
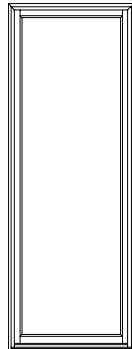
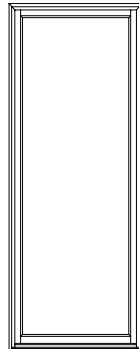
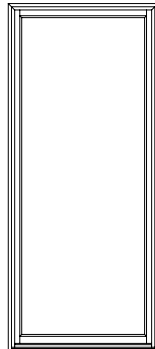
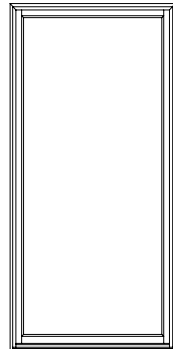
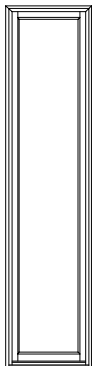
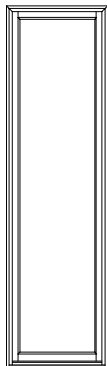
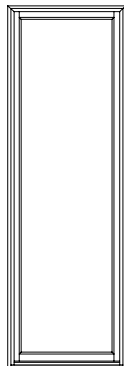
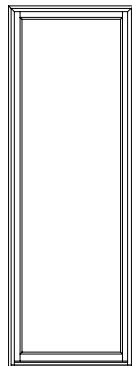
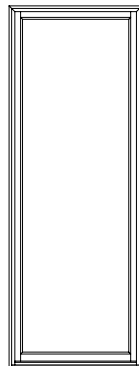
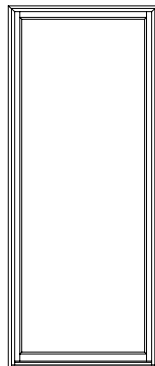
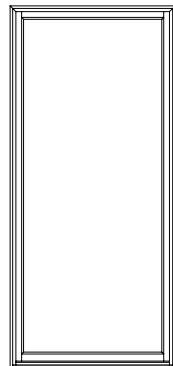
ECDP2176 ECDP2576 ECDP2976 ECDP3176 ECDP3376 ECDP3776 ECDP4176

**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'

**PICTURE UNITS**

M.O. BRICKMOULD	24 7/8"(632)	28 7/8"(733)	32 7/8"(835)	34 7/8"(886)	36 7/8"(937)	40 7/8"(1038)	44 7/8"(1140)
M.O. ADAMS/FLAT CASING	27 7/8"(708)	31 7/8"(810)	35 7/8"(911)	37 7/8"(962)	39 7/8"(1013)	43 7/8"(1114)	47 7/8"(1216)
ROUGH OPENING	22 1/8"(562)	26 1/8"(664)	30 1/8"(765)	32 1/8"(816)	34 1/8"(867)	38 1/8"(968)	42 1/8"(1070)
FRAME SIZE	21 3/8"(543)	25 3/8"(645)	29 3/8"(746)	31 3/8"(797)	33 3/8"(848)	37 3/8"(949)	41 3/8"(1051)
DAYLIGHT OPENING	14 13/16"(376)	18 13/16"(478)	22 13/16"(579)	24 13/16"(630)	26 13/16"(681)	30 13/16"(783)	34 13/16"(884)
82 5/16"(2091)							
83 13/16"(2129)	ECDP2180	ECDP2580	ECDP2980	ECDP3180	ECDP3380	ECDP3780	ECDP4180
80 3/4"(2051)							
80"(2032)							
72 5/16"(1837)							
90 5/16"(2294)							
91 13/16"(2332)	ECDP2188	ECDP2588	ECDP2988	ECDP3188	ECDP3388	ECDP3788	ECDP4188
88 3/4"(2254)							
88"(2235)							
80 5/16"(2040)							
94 5/16"(2396)							
95 13/16"(2434)	ECDP2192	ECDP2592	ECDP2992	ECDP3192	ECDP3392	ECDP3792	ECDP4192
92 3/4"(2356)							
92"(2337)							
84 5/16"(2142)							





























**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'

**PICTURE UNITS**

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

48 7/8" (1241) 51 7/8" (1318) 46 1/8" (1172) 45 3/8" (1153) 38 13/16" (986)	52 7/8" (1343) 55 7/8" (1419) 50 1/8" (1273) 49 3/8" (1254) 42 13/16" (1087)	56 7/8" (1445) 59 7/8" (1581) 54 1/8" (1375) 53 3/8" (1356) 46 13/16" (1189)	64 7/8" (1648) 67 7/8" (1724) 62 1/8" (1578) 61 3/8" (1559) 54 13/16" (1392)
34 5/16" (872) 35 13/16" (910) 32 3/4" (832) 32 (813) 24 5/16" (618)			
38 5/16" (973) 39 13/16" (1011) 36 3/4" (933) 36 (914) 28 5/16" (719)			
42 5/16" (1075) 43 13/16" (1113) 40 3/4" (1035) 40 (1016) 32 5/16" (821)			
46 5/16" (1176) 47 13/16" (1214) 44 3/4" (1137) 44 (1118) 36 5/16" (922)			
50 5/16" (1278) 51 13/16" (1316) 48 3/4" (1238) 48 (1219) 40 5/16" (1024)			
54 5/16" (1380) 55 13/16" (1418) 52 3/4" (1340) 52 (1321) 44 5/16" (1126)			
58 5/16" (1481) 59 13/16" (1519) 56 3/4" (1441) 56 (1422) 48 5/16" (1227)			
			
			
			

**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'

**PICTURE UNITS**

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

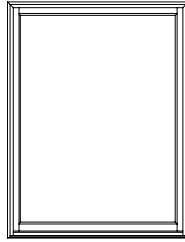
48 7/8" (1241)  
51 7/8" (1318)  
46 1/8" (1172)  
45 3/8" (1153)  
38 13/16" (986)

52 7/8" (1343)  
55 7/8" (1419)  
50 1/8" (1273)  
49 3/8" (1254)  
42 13/16" (1087)

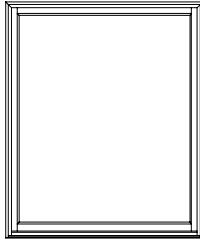
56 7/8" (1445)  
59 7/8" (1581)  
54 1/8" (1375)  
53 3/8" (1356)  
46 13/16" (1189)

64 7/8" (1648)  
67 7/8" (1724)  
62 1/8" (1578)  
61 3/8" (1559)  
54 13/16" (1392)

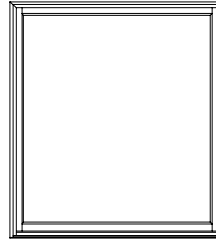
62 5/16" (1583)  
63 13/16" (1621)  
60 3/4" (1543)  
60" (1524)  
52 5/16" (1329)



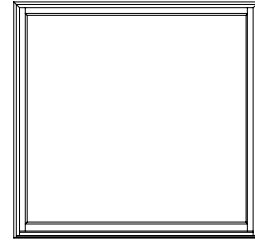
ECDP4560



ECDP4960

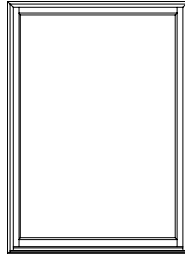


ECDP5360

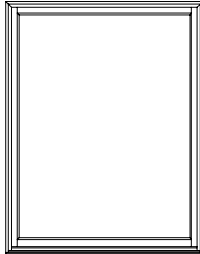


ECDP6160

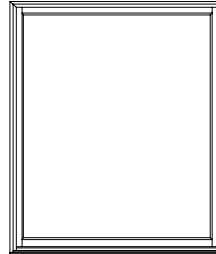
66 5/16" (1684)  
69 13/16" (1773)  
64 3/4" (1645)  
64" (1626)  
56 5/16" (1430)



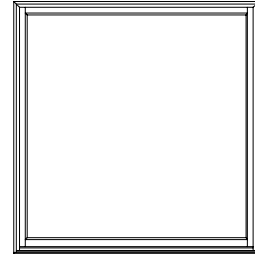
ECDP4564



ECDP4964

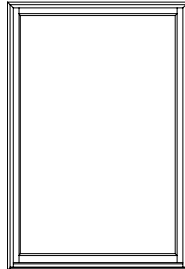


ECDP5364

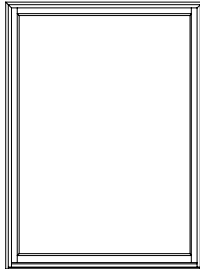


ECDP6164

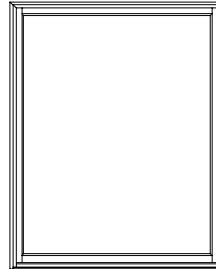
70 5/16" (1786)  
71 13/16" (1824)  
68 3/4" (1746)  
68" (1727)  
60 5/16" (1532)



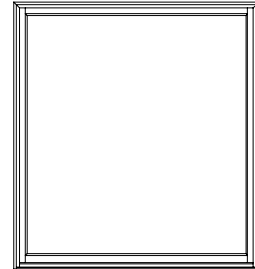
ECDP4568



ECDP4968

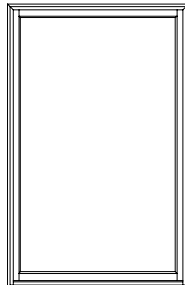


ECDP5368

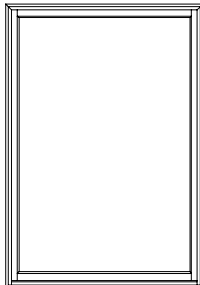


ECDP6168

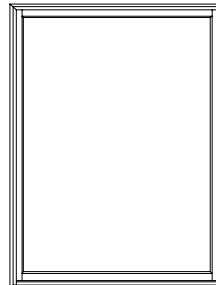
74 5/16" (1888)  
75 13/16" (1926)  
72 3/4" (1848)  
72" (1829)  
64 5/16" (1634)



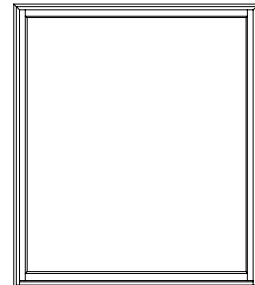
ECDP4572



ECDP4972

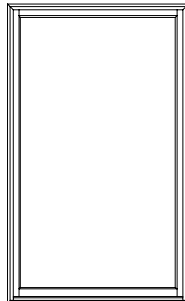


ECDP5372

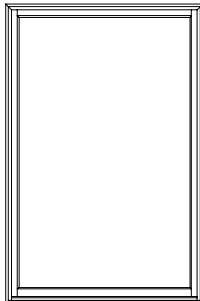


ECDP6172

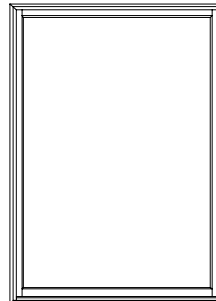
78 5/16" (1989)  
79 13/16" (2027)  
76 3/4" (1949)  
76" (1930)  
68 5/16" (1735)



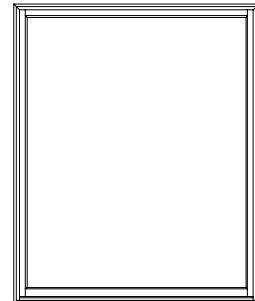
ECDP4576



ECDP4976



ECDP5376



ECDP6176

**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'

**PICTURE UNITS**

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

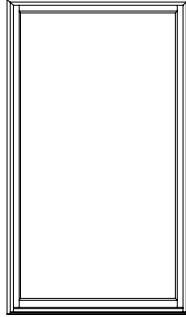
48 7/8" (1241)  
51 7/8" (1318)  
46 1/8" (1172)  
45 3/8" (1153)  
38 13/16" (986)

52 7/8" (1343)  
55 7/8" (1419)  
50 1/8" (1273)  
49 3/8" (1254)  
42 13/16" (1087)

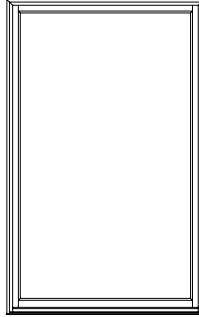
56 7/8" (1445)  
59 7/8" (1581)  
54 1/8" (1375)  
53 3/8" (1356)  
46 13/16" (1189)

64 7/8" (1648)  
67 7/8" (1724)  
62 1/8" (1578)  
61 3/8" (1559)  
54 13/16" (1392)

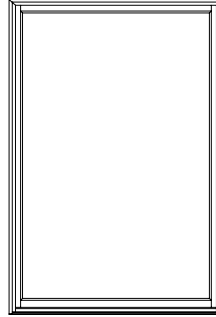
82 5/16" (2091)  
83 13/16" (2129)  
80 3/4" (2051)  
80" (2032)  
72 5/16" (1837)



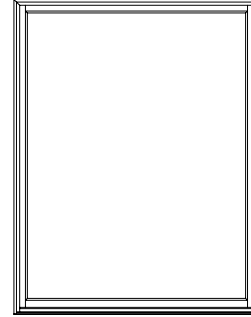
ECDP4580



ECDP4980

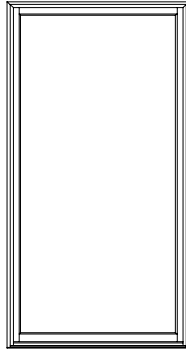


ECDP5380



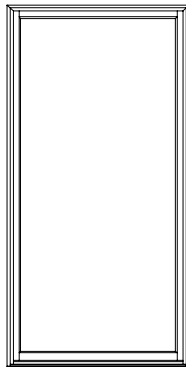
ECDP6180

90 5/16" (2294)  
91 13/16" (2332)  
88 3/4" (2254)  
88" (2235)  
80 5/16" (2040)



ECDP4588

94 5/16" (2396)  
95 13/16" (2434)  
92 3/4" (2356)  
92" (2337)  
84 5/16" (2142)



ECDP4592

**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'

**PICTURE UNITS**

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

72 7/8"(1851)  
75 7/8"(1927)  
70 1/8"(1781)  
69 3/8"(1762)  
62 13/16"(1595)

80 7/8"(2054)  
83 7/8"(2130)  
78 1/8"(1984)  
77 3/8"(1965)  
70 13/16"(1799)

34 5/16"(872)  
35 13/16"(910)  
32 3/4"(832)  
32"(813)  
24 5/16"(618)



ECDP6932



ECDP7732

38 5/16"(973)  
39 13/16"(1011)  
36 3/4"(933)  
36"(914)  
28 5/16"(719)

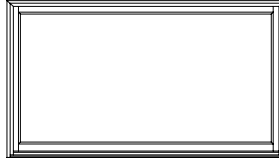


ECDP6936

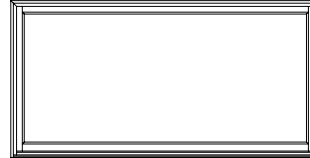


ECDP7736

42 5/16"(1075)  
43 13/16"(1113)  
40 3/4"(1035)  
40"(1016)  
32 5/16"(821)



ECDP6940



ECDP7740

46 5/16"(1176)  
47 13/16"(1214)  
44 3/4"(1137)  
44"(1118)  
36 5/16"(922)

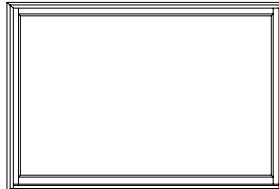


ECDP6944

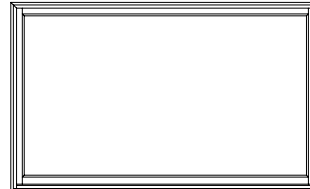


ECDP7744

50 5/16"(1278)  
51 13/16"(1316)  
48 3/4"(1238)  
48"(1219)  
40 5/16"(1024)

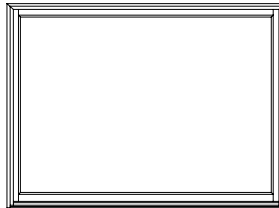


ECDP6948

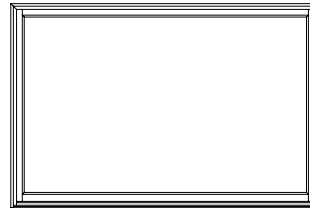


ECDP7748

54 5/16"(1380)  
55 13/16"(1418)  
52 3/4"(1340)  
52"(1321)  
44 5/16"(1126)

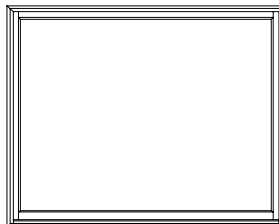


ECDP6952

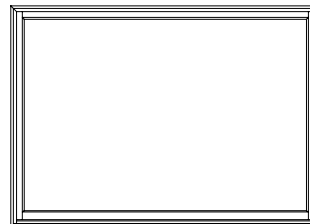


ECDP7752

58 5/16"(1481)  
59 13/16"(1519)  
56 3/4"(1441)  
56"(1422)  
48 5/16"(1227)



ECDP6956



ECDP7756

**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'

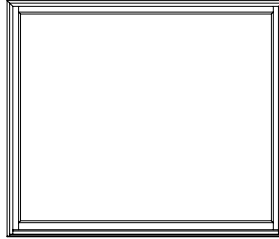
**PICTURE UNITS**

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

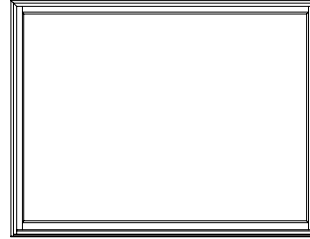
72 7/8" (1851)  
75 7/8" (1927)  
70 1/8" (1781)  
69 3/8" (1762)  
62 13/16" (1595)

80 7/8" (2054)  
83 7/8" (2130)  
78 1/8" (1984)  
77 3/8" (1965)  
70 13/16" (1799)

62 5/16" (1583)  
63 13/16" (1621)  
60 3/4" (1543)  
60" (1524)  
52 5/16" (1329)

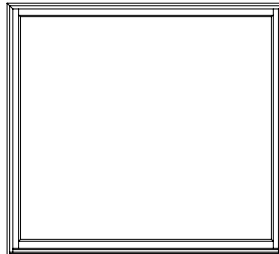


ECDP6960

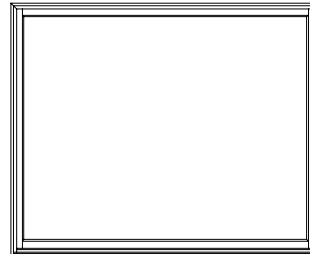


ECDP7760

66 5/16" (1684)  
69 13/16" (1773)  
64 3/4" (1645)  
64" (1626)  
56 5/16" (1430)

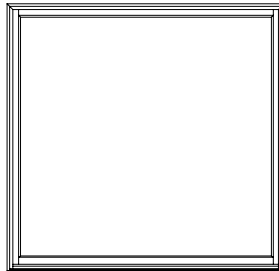


ECDP6964

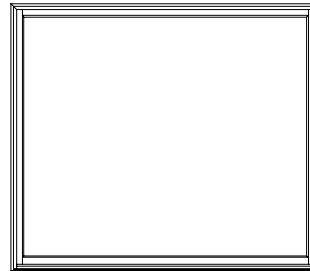


ECDP7764

70 5/16" (1786)  
71 13/16" (1824)  
68 3/4" (1746)  
68" (1727)  
60 5/16" (1532)

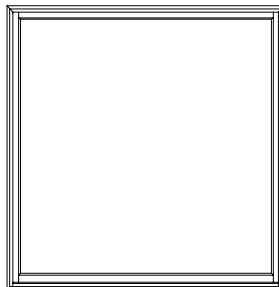


ECDP6968

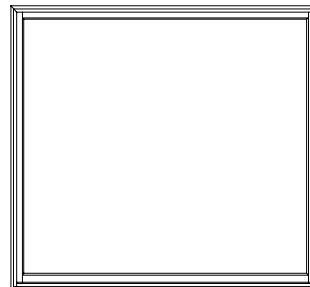


ECDP7768

74 5/16" (1888)  
75 13/16" (1926)  
72 3/4" (1848)  
72" (1829)  
64 5/16" (1634)

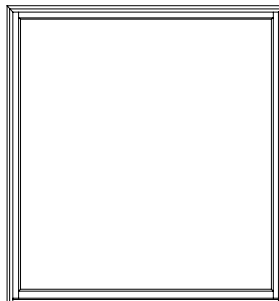


ECDP6972

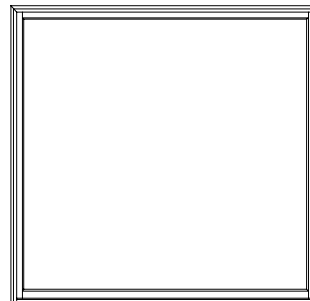


ECDP7772

78 5/16" (1989)  
79 13/16" (2027)  
76 3/4" (1949)  
76" (1930)  
68 5/16" (1735)



ECDP6976



ECDP7776

**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'



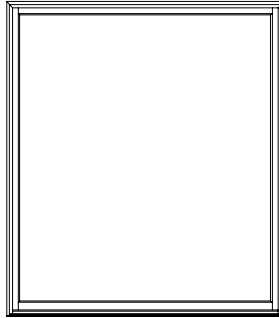
**PICTURE UNITS**

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

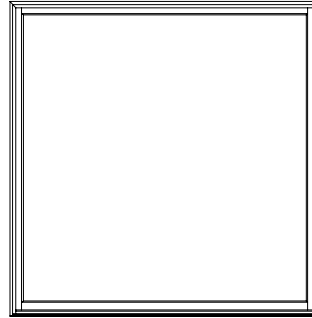
72 7/8" (1851)  
75 7/8" (1927)  
70 1/8" (1781)  
69 3/8" (1762)  
62 13/16" (1595)

80 7/8" (2054)  
83 7/8" (2130)  
78 1/8" (1984)  
77 3/8" (1965)  
70 13/16" (1799)

82 5/16" (2091)  
83 13/16" (2129)  
80 3/4" (2051)  
80" (2032)  
72 5/16" (1837)



ECDP6980



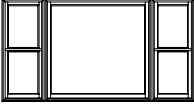

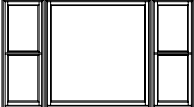

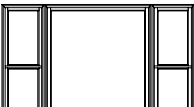

ECDP7780

**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.







**PICTURE UNITS WITH 16" FLANKERS**

M.O. BRICKMOULD	99 5/8" (2530)	107 5/8" (2734)
M.O. ADAMS/FLAT CASING	102 5/8" (2607)	110 5/8" (2810)
ROUGH OPENING	96 7/8" (2461)	104 7/8" (2664)
FRAME SIZE	96 1/8" (2442)	104 1/8" (2645)
DAYLIGHT OPENING	14 13/16" (376)[2] 46 13/16" (1189)	14 13/16" (376)[2] 54 13/16" (1392)
54 5/16" (1380) 57 13/16" (1468) 52 3/4" (1340) 52" (1321) 21 1/16" (535)[2] 44 5/16" (1126)		
	ECD5352-16	ECD6152-16
58 5/16" (1481) 59 13/16" (1519) 56 3/4" (1441) 56" (1402) 23 1/16" (586)[2] 48 5/16" (1227)		
	ECD5356-16	ECD6156-16
66 5/16" (1684) 67 13/16" (1722) 64 3/4" (1645) 64" (1626) 27 1/16" (687)[2] 56 5/16" (1430)		
	ECD5364-16	ECD6164-16

**ELEVATION SYMBOL LEGEND:**  
**M.O.** = MASONRY OPENING  
 VALUES IN ( ) ARE IN MILLIMETER CONVERSIONS  
 VALUES IN [ ] ARE NUMBER OF DAYLIGHT OPENINGS PER UNIT

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.

**PICTURE UNITS WITH 20" FLANKERS**

M.O. BRICKMOULD	107 5/8" (2734)	115 5/8" (2937)
M.O. ADAMS/FLAT CASING	110 5/8" (2810)	118 5/8" (3013)
ROUGH OPENING	104 7/8" (2664)	112 7/8" (2867)
FRAME SIZE	104 1/8" (2645)	112 1/8" (2848)
DAYLIGHT OPENING	18 13/16" (478)[2] 54 13/16" (1392)	18 13/16" (478)[2] 62 13/16" (1595)
54 5/16" (1380) 57 13/16" (1468) 52 3/4" (1340) 52" (1321) 21 1/16" (535)[2] 44 5/16" (1126)		
	ECD6152-20	ECD6952-20
58 5/16" (1481) 59 13/16" (1519) 56 3/4" (1441) 56" (1422) 23 1/16" (586)[2] 48 5/16" (1227)		
	ECD6156-20	ECD6956-20
66 5/16" (1684) 67 13/16" (1722) 64 3/4" (1645) 64" (1626) 27 1/16" (687)[2] 56 5/16" (1430)		
	ECD6164-20	ECD6964-20

**ELEVATION SYMBOL LEGEND:**

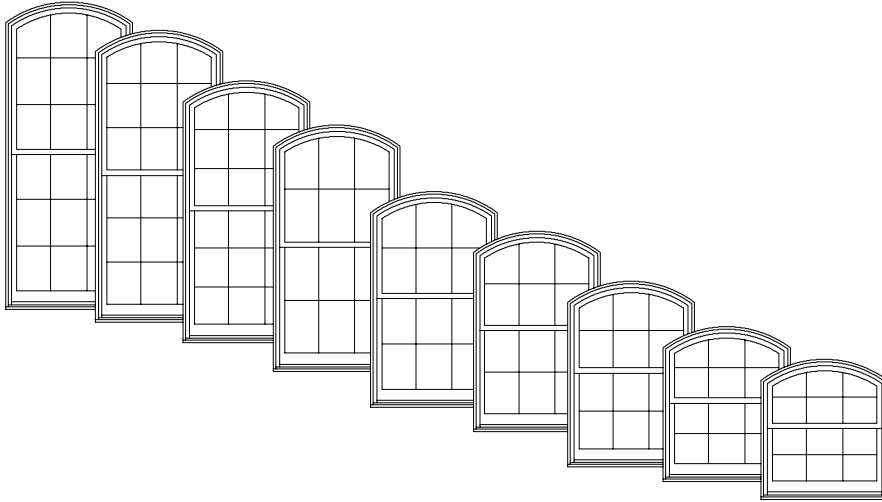
M.O. = MASONRY OPENING  
VALUES IN ( ) ARE IN MILLIMETER CONVERSIONS  
VALUES IN [ ] ARE NUMBER OF DAYLIGHT OPENINGS PER UNIT

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.

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**GENERAL INFORMATION**  
**SECTOR TOP SINGLE-HUNG UNITS**

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**DIMENSIONAL WINDOWS**

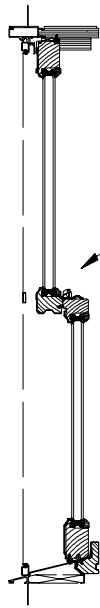
Clad sector top single-hung windows may be specified as "dimensional" by adjusting the desired rough opening width or height in 1/4" increments from standard.

Clad sector top single-hung windows feature stationary (fixed) upper sash and an operating lower sash. Counterbalancing is achieved with block and tackle spring extension systems hidden in weatherable PVC jamb liners. Operating units are supplied with cam-type sash locks installed. Die-cast lower sash lifts supplied for field installation are an option. Recessed sash retainers provide simple sash installation and removal. There are several hardware finish options. Refer to the Specifications for available finish options.

SITELINE EX CLAD SECTOR TOP SINGLE-HUNG WINDOWS utilize some of the same options as SITELINE EX CLAD DOUBLE-HUNG WINDOWS. Those options have not been repeated here in this sub-section.

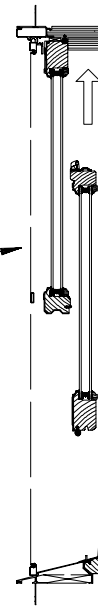
See the SITELINE EX CLAD DOUBLE-HUNG section for:  
Jamb Extender Options.

**HANDING & OPERATION**  
**SECTOR TOP SINGLE-HUNG UNITS**



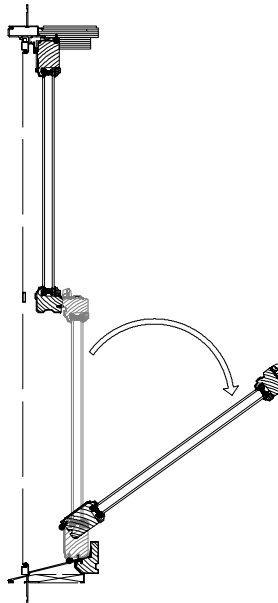
**SINGLE-HUNG OPERATION:**  
When the sash are locked at the check rails the sash are closed and sealed in the sash opening of the frame.

When the sash are unlocked the lower sash travels vertically to any position desired. The upper sash is fixed.



**SASH TILTING FOR WASHING**

The Clad Single-Hung window will allow the lower sash to be tilted or removed for easy cleaning.



**ELEVATION NOTES**  
**SECTOR TOP SINGLE-HUNG UNITS**

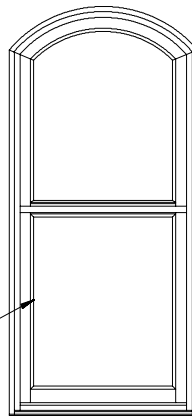
ELEVATION DRAWINGS UTILIZE A LIMITED NUMBER OF PROJECTED LINES TO PRODUCE A RUDIMENTARY DRAWING INTENDED TO BE USED IN A SMALL GRAPHICAL SCALE. ELEVATIONS ARE VIEWED PERPENDICULAR FROM THE EXTERIOR OF THE STRUCTURE. IF MORE DIMENSIONS ARE NEEDED, USE THE SECTION DRAWINGS FOR MORE COMPLETE DEPICTIONS.

M.O. Brickmould  
M.O. Adams/Flat Casing  
Rough Opening  
Frame Size  
Daylight Opening

28 7/8"(733)  
31 7/8"(810)  
26 1/8"(664)  
25 3/8"(645)  
18 13/16"(478)

Masonry Openings for Brickmould, Flat & Adams Casing.  
Vertical measurements include sillnose.  
(Subtract 1/2" from Masonry Opening for Unit Size)

58 5/16"(1481)  
59 13/16"(1519)  
56 3/4"(1441)  
56"(1422)  
23 1/16"(586) 23 5/16"(592)



DAYLIGHT OPENING

OUTSIDE OF FRAME

ECDS2556

BOOK CODE

'ECDS' INDICATES  
SITELINE EX CLAD SECTOR TOP SINGLE-HUNG

THE FIRST TWO NUMBERS  
INDICATE THE UNIT WIDTH

THE LAST TWO NUMBERS INDICATE  
THE UNIT HEIGHT

**GENERAL SINGLE-HUNG NOTES**

1. ALL UNITS SHOWN ARE AVAILABLE AS OPERATORS ONLY.
2. UNIT ELEVATIONS ARE SHOWN WITHOUT EXTERIOR TRIM.
3. ALL OPERATING SASH ARE INSTALLED WITH VINYL JAMB LINERS AND OPERATED WITH AN INTERNAL BLOCK AND TACKLE SPRING SYSTEM.
4. DIMENSIONAL VALUES IN PARENTHESES ARE MILLIMETER CONVERSIONS.
5. VALUES IN BRACKETS ARE NUMBER OF DAYLIGHT OPENINGS.

**ELEVATION SYMBOL LEGEND:**

**MO** MASONRY OPENING

**SECTOR TOP UNITS - 1-WIDE**

	M.O. BRICKMOULD	28 7/8" (733)	32 7/8" (835)	34 7/8" (886)	36 7/8" (937)	40 7/8" (1038)	44 7/8" (1140)
	M.O. ADAMS/FLAT CASING	31 7/8" (810)	35 7/8" (911)	37 7/8" (962)	39 7/8" (1013)	43 7/8" (1114)	47 7/8" (1216)
	ROUGH OPENING	26 1/8" (664)	30 1/8" (765)	32 1/8" (816)	34 1/8" (867)	38 1/8" (968)	42 1/8" (1070)
	FRAME SIZE	25 3/8" (645)	29 3/8" (670)	31 3/8" (797)	33 3/8" (848)	37 3/8" (949)	41 3/8" (1051)
	DAYLIGHT OPENING	18 13/16" (478)	22 13/16" (579)	24 13/16" (630)	26 13/16" (681)	30 13/16" (783)	34 13/16" (884)
58 5/16" (1481) 59 13/16" (1519) 56 3/4" (1441) 56" (1402) 23 1/16" (586) 23 5/16" (592)							
62 5/16" (1583) 63 13/16" (1621) 60 3/4" (1543) 60" (1524) 25 1/16" (637) 25 5/16" (643)							
66 5/16" (1684) 67 13/16" (1722) 64 3/4" (1645) 64" (1626) 27 1/16" (687) 27 5/16" (694)							
70 5/16" (1786) 71 13/16" (1824) 68 3/4" (1746) 68" (1727) 29 1/16" (738) 29 5/16" (745)							
74 5/16" (1888) 75 13/16" (1926) 72 3/4" (1848) 72" (1829) 31 1/16" (789) 31 5/16" (795)							

**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.

**SECTOR TOP UNITS - 2-WIDE**

M.O. BRICKMOULD	54 1/4" (1378)	62 1/4" (1581)	70 1/4" (1784)	78 1/4" (1988)
M.O. ADAMS/FLAT CASING	57 1/4" (1454)	65 1/4" (1657)	73 1/4" (1861)	81 1/4" (2064)
ROUGH OPENING	51 1/2" (1308)	59 1/2" (1511)	67 1/2" (1715)	75 1/2" (1918)
FRAME SIZE	50 3/4" (1289)	58 3/4" (1492)	66 3/4" (1695)	74 3/4" (1899)
DAYLIGHT OPENING	18 13/16" (478)[2]	22 13/16" (579)[2]	26 13/16" (681)[2]	30 13/16" (783)[2]
58 5/16" (1481) 59 13/16" (1519) 56 3/4" (1441) 56" (1422) 23 1/16" (586) 23 5/16" (592)				
63 5/16" (1583) 63 13/16" (1621) 60 3/4" (1543) 60" (1524) 25 1/16" (637) 25 5/16" (643)				
66 5/16" (1684) 67 13/16" (1722) 64 3/4" (1645) 64" (1626) 27 1/16" (687) 27 5/16" (694)				
70 5/16" (1786) 71 13/16" (1824) 68 3/4" (1746) 68" (1727) 29 1/16" (738) 29 5/16" (745)				
74 5/16" (1888) 75 13/16" (1926) 72 3/4" (1848) 72" (1829) 31 1/16" (789) 31 5/16" (795)				

**ELEVATION SYMBOL LEGEND:**  
**M.O.** = MASONRY OPENING  
 VALUES IN ( ) ARE IN MILLIMETER CONVERSIONS  
 VALUES IN [ ] ARE NUMBER OF DAYLIGHT OPENINGS PER UNIT

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.



**FULL RADIUS UNITS**

M.O. BRICKMOULD	32 7/8" (835)	34 7/8" (886)	36 7/8" (937)	40 7/8" (1038)	44 7/8" (1140)	48 7/8" (1241)
M.O. ADAMS/FLAT CASING	35 7/8" (911)	37 7/8" (962)	39 7/8" (1013)	43 7/8" (1114)	47 7/8" (1216)	51 7/8" (1318)
ROUGH OPENING	30 1/8" (765)	32 1/8" (816)	34 1/8" (867)	38 1/8" (968)	42 1/8" (1070)	46 1/8" (1172)
FRAME SIZE	29 3/8" (670)	31 3/8" (797)	33 3/8" (848)	37 3/8" (949)	41 3/8" (1051)	45 3/8" (1153)
DAYLIGHT OPENING	22 13/16" (579)	24 13/16" (630)	26 13/16" (681)	30 13/16" (783)	34 13/16" (884)	38 13/16" (986)
58 5/16" (1481) 59 13/16" (1519) 56 3/4" (1441) 56" (1422) 23 1/16" (586) 23 5/16" (592)						
62 5/16" (1583) 63 13/16" (1621) 60 3/4" (1543) 60" (1524) 25 1/16" (637) 25 5/16" (643)						
66 5/16" (1684) 67 13/16" (1722) 64 3/4" (1645) 64" (1626) 27 1/16" (687) 27 5/16" (694)						
70 5/16" (1786) 71 13/16" (1824) 68 3/4" (1746) 68" (1727) 29 1/16" (738) 29 5/16" (745)						
74 5/16" (1888) 75 13/16" (1926) 72 3/4" (1848) 72" (1829) 31 1/16" (789) 31 5/16" (795)						

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

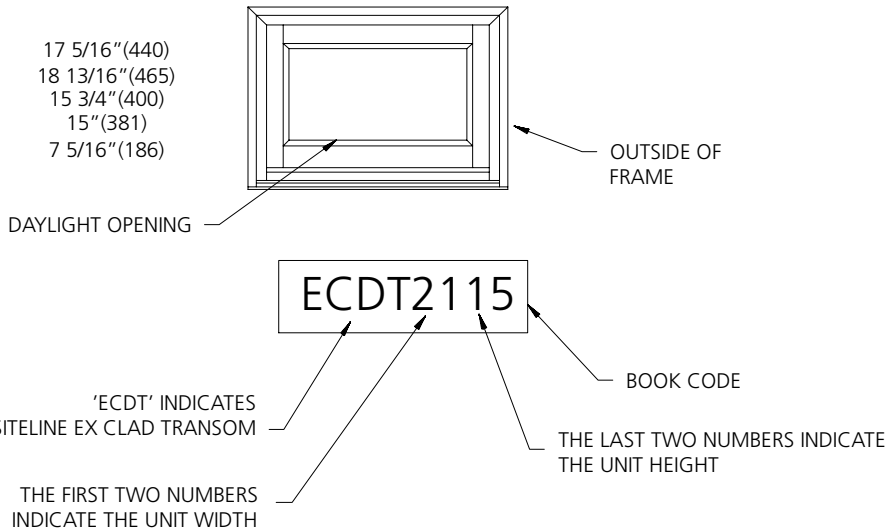
Note: Elevations shown DO NOT have exterior trim. Subtract 1/2" (12.7) from M.O. (Masonry Opening) for Unit Sizes. Masonry Openings above include Sill Nose, see Trim Options page for Sill Nose specifications. For other Trim Options refer to the Unit Sizing, Rough Opening & Masonry Openings page.

SCALE 1/4" = 1'

**ELEVATION NOTES**  
**DOUBLE-HUNG TRANSOM**

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.

M.O. Brickmould	24 7/8" (632)	Masonry Openings for Brickmould, Flat & Adams Casing. Vertical measurements include sillnose. (Subtract 1/2" from Masonry Opening for Unit Size)
M.O. Adams/Flat Casing	27 7/8" (708)	
Rough Opening	22 1/8" (562)	
Frame Size	21 3/8" (543)	
Daylight Opening	14 13/16" (376)	



**GENERAL DOUBLE-HUNG TRANSOM NOTES**

1. ALL UNITS SHOWN ARE AVAILABLE AS STATIONARY ONLY.
2. UNIT ELEVATIONS ARE SHOWN WITHOUT EXTERIOR TRIM.
3. DIMENSIONAL VALUES IN PARENTHESES ARE MILLIMETER CONVERSIONS.

**ELEVATION SYMBOL LEGEND:**

**MO** MASONRY OPENING

**TRANSOM UNITS**

<b>M.O. BRICKMOULD</b>	24 7/8"(632)	28 7/8"(733)	32 7/8"(835)	34 7/8"(886)	36 7/8"(937)	40 7/8"(1038)	44 7/8"(1140)
<b>M.O. ADAMS/FLAT CASING</b>	27 7/8"(708)	31 7/8"(810)	35 7/8"(911)	37 7/8"(962)	39 7/8"(1013)	43 7/8"(1114)	47 7/8"(1216)
<b>ROUGH OPENING</b>	22 1/8"(562)	26 1/8"(664)	30 1/8"(765)	32 1/8"(816)	34 1/8"(867)	38 1/8"(968)	42 1/8"(1070)
<b>FRAME SIZE</b>	21 3/8"(543)	25 3/8"(645)	29 3/8"(670)	31 3/8"(797)	33 3/8"(848)	37 3/8"(949)	41 3/8"(1051)
<b>DAYLIGHT OPENING</b>	14 13/16"(376)	18 13/16"(478)	22 13/16"(579)	24 13/16"(630)	26 13/16"(681)	30 13/16"(783)	34 13/16"(884)
17 5/16"(440) 18 13/16"(465) 15 3/4"(400) 15"(381) 7 5/16"(186)							
ECDT2115	ECDT2515	ECDT2915	ECDT3115	ECDT3315	ECDT3715	ECDT4115	
20 5/16"(515) 21 13/16"(541) 18 3/4"(476) 18"(457) 10 5/16"(262)							
ECDT2118	ECDT2518	ECDT2918	ECDT3118	ECDT3318	ECDT3718	ECDT4118	
26 5/16"(668) 27 13/16"(694) 24 3/4"(629) 24"(610) 16 5/16"(414)							
ECDT2124	ECDT2524	ECDT2924	ECDT3124	ECDT3324	ECDT3724	ECDT4124	

<b>M.O. BRICKMOULD</b>	48 7/8"(1241)
<b>M.O. ADAMS/FLAT CASING</b>	51 7/8"(1318)
<b>ROUGH OPENING</b>	46 1/8"(1172)
<b>FRAME SIZE</b>	45 3/8"(1153)
<b>DAYLIGHT OPENING</b>	38 13/16"(986)
17 5/16"(440) 18 13/16"(465) 15 3/4"(400) 15"(381) 7 5/16"(186)	
ECDT4515	
20 5/16"(515) 21 13/16"(541) 18 3/4"(476) 18"(457) 10 5/16"(262)	
ECDT4518	
26 5/16"(668) 27 13/16"(694) 24 3/4"(629) 24"(610) 16 5/16"(414)	
ECDT4524	

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

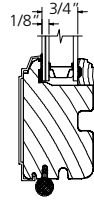
Note: Elevations shown DO NOT have exterior trim. Subtract 1/2" (12.7) from M.O. (Masonry Opening) for Unit Sizes. Masonry Openings above include Sill Nose, see Trim Options page for Sill Nose specifications. For other Trim Options refer to the Unit Sizing, Rough Opening & Masonry Openings page.

SCALE 1/4" = 1'

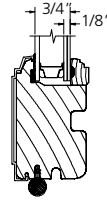
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SASH GLAZING OPTIONS

INTERIOR GLAZING OPTIONS

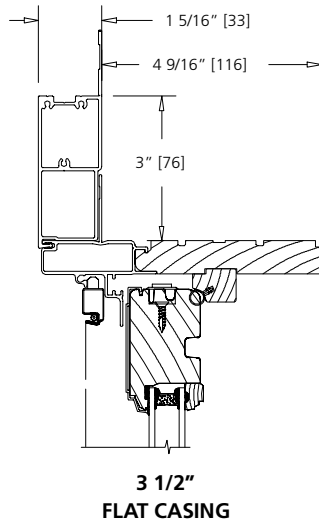
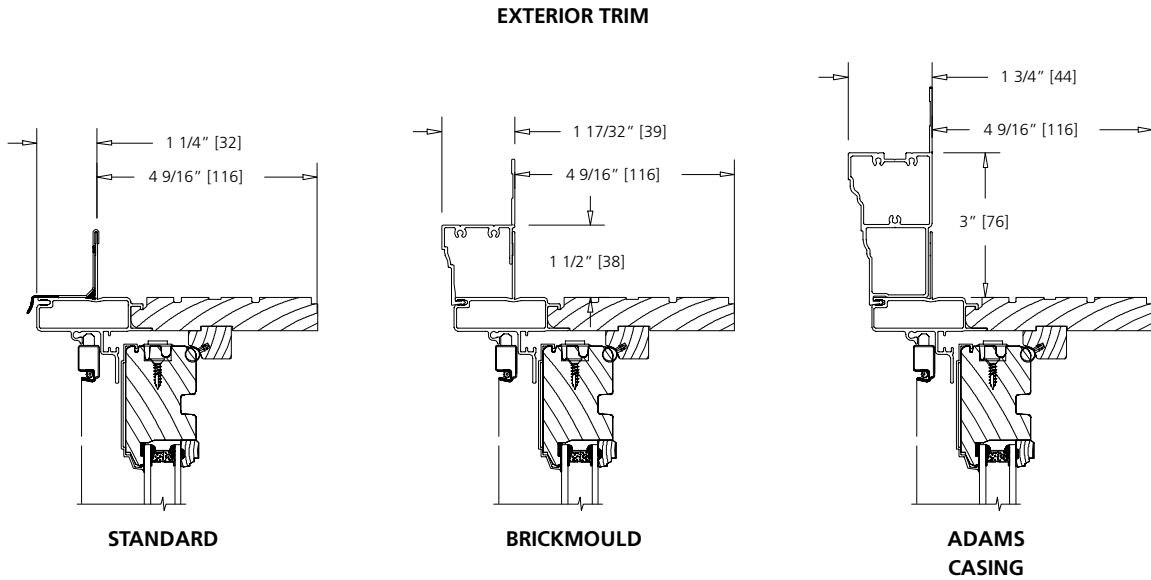


DOUBLE-HUNG  
3.5L/SS

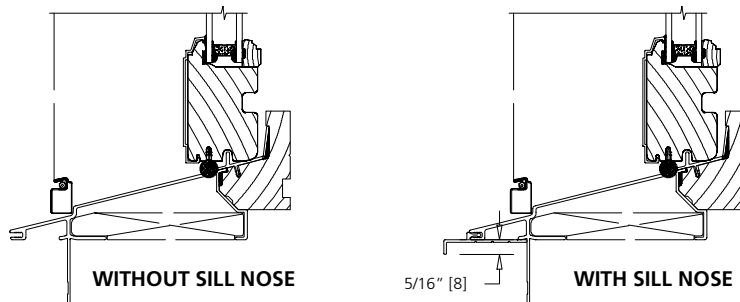


DOUBLE-HUNG  
SS/3.5L

**TRIM & SILL OPTIONS  
DOUBLE-HUNG**



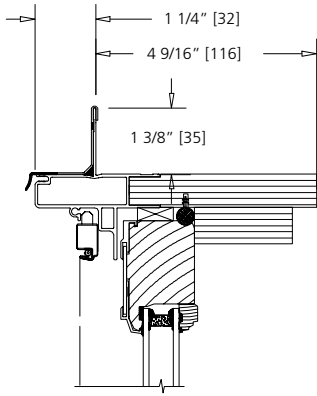
**SILL OPTIONS**



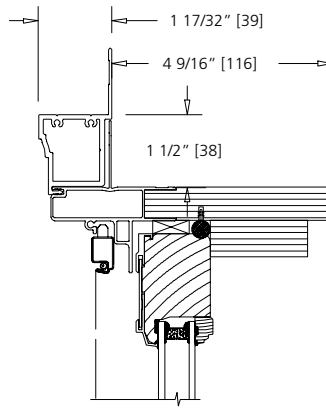
SCALE: 3" = 1'

**TRIM OPTIONS  
SECTOR TOP SINGLE-HUNG**

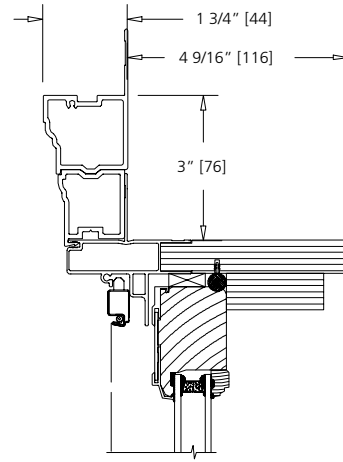
**EXTERIOR TRIM**



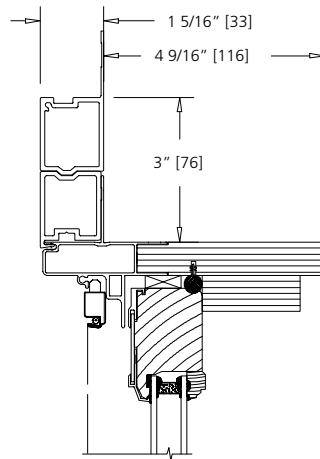
**STANDARD**



**BRICKMOULD**

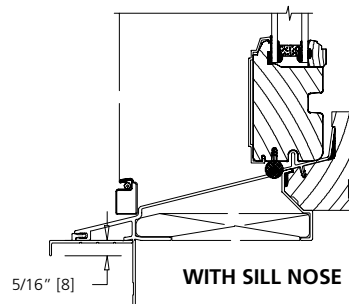
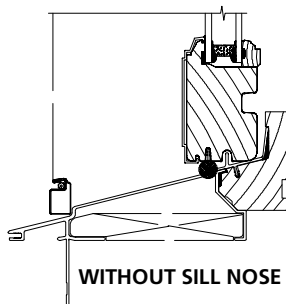


**ADAMS  
CASING**



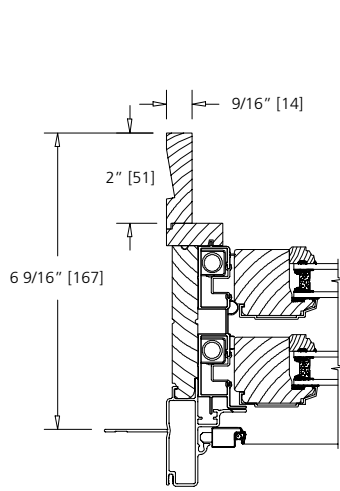
**3 1/2\"/>  
FLAT CASING**

**SILL OPTIONS**

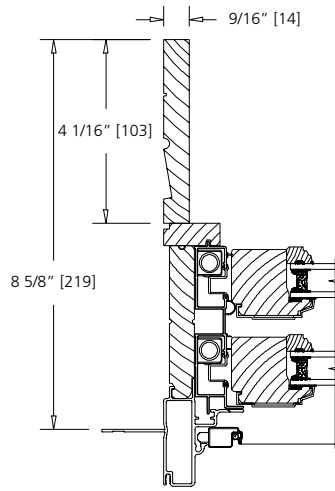


SCALE: 3" = 1'

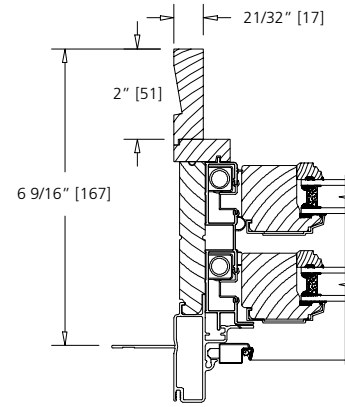
**JAMB EXTENDER & STOOL OPTIONS**



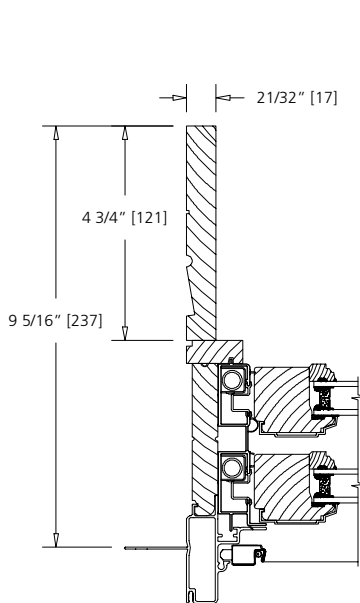
**6 9/16" WALL**  
9/16" JAMB THICKNESS (OPTION)



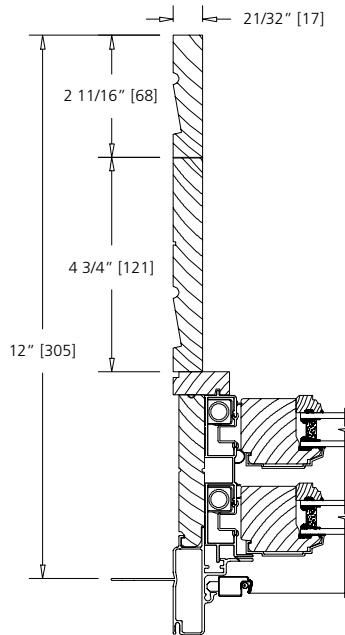
**8 5/8" WALL**



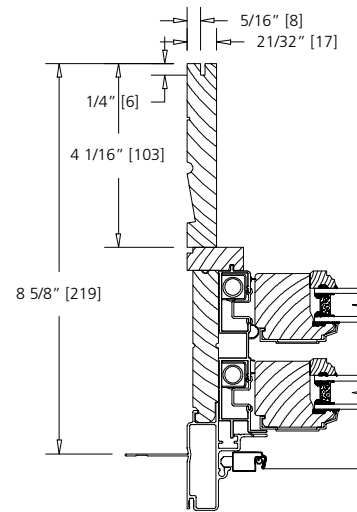
**6 9/16" WALL**  
4/4 JAMB THICKNESS (STANDARD)



**9 5/16" WALL**  
MAX 1-PC JAMB EXTENDER



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



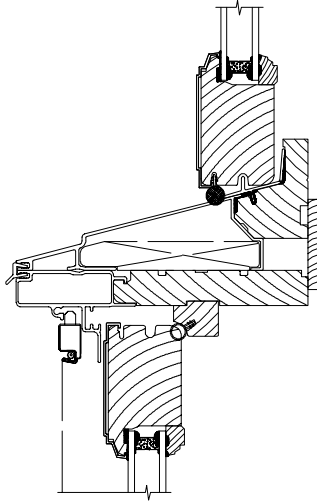
**8 5/8" WALL**  
4/4 JAMB THICKNESS (STANDARD)  
KERFED EXTENSION SHOWN

**Notes:**

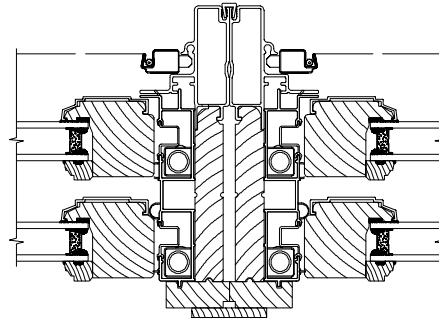
Double-Hung units to have standard (4/4 thick) extension option.  
Double-Hung units to have 9/16" thickness option & 4/4 kerfed option.

SCALE: 3" = 1'

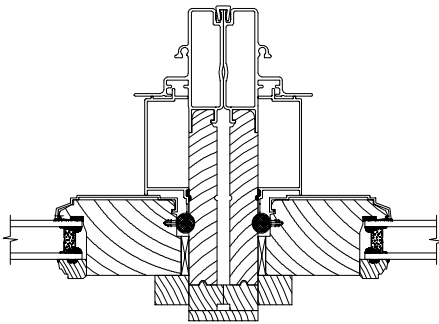
STANDARD MULLION OPTIONS



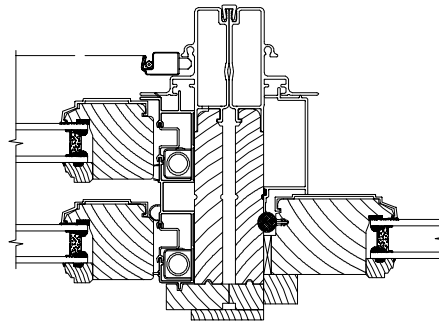
**OPERATING DOUBLE-HUNG  
WITH FIXED TRANSOM**



**TWIN OPERATING DOUBLE-HUNG**



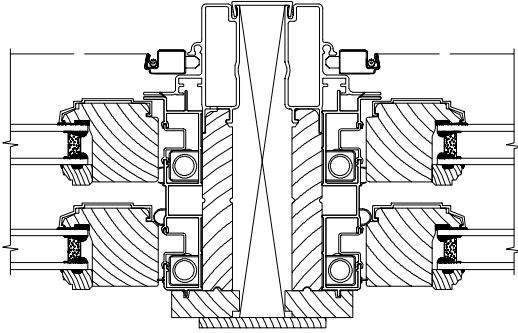
**DOUBLE-HUNG PICTURE  
WITH DOUBLE-HUNG PICTURE**



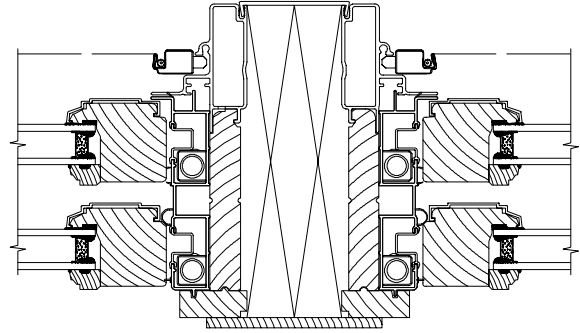
**TWIN OPERATING DOUBLE-HUNG  
WITH PICTURE FLANKERS**



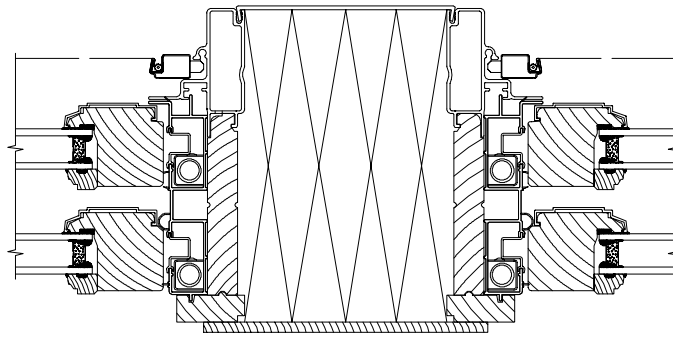
STANDARD MULLION OPTIONS



TWIN OPERATING DOUBLE-HUNG  
WITH 1" SOLID SPREAD MULLION



TWIN OPERATING DOUBLE-HUNG  
WITH 2" SOLID SPREAD MULLION



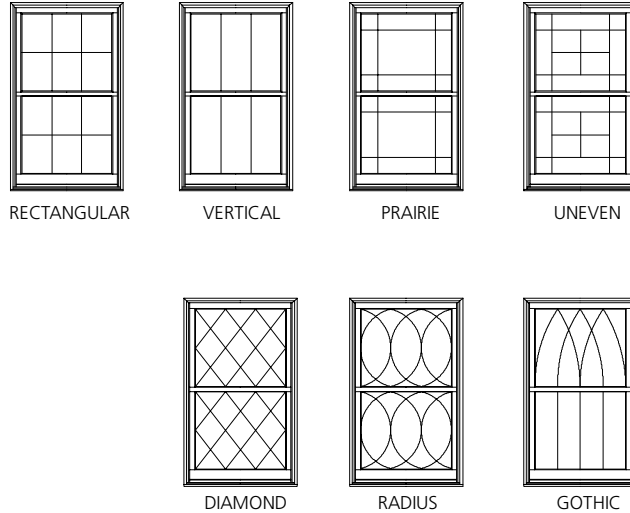
TWIN OPERATING DOUBLE-HUNG  
WITH 4" SOLID SPREAD MULLION

**LITE CUT INFORMATION**

Clad double-hung windows are available in 7/8", 1-1/8" and 1-3/8" widths for SDL (Simulated Divided Lites), 5/8", 23/32" and 1" GBG (Grilles between the Glass) and 7/8" removable grilles. Standard lite cuts are rectangular.

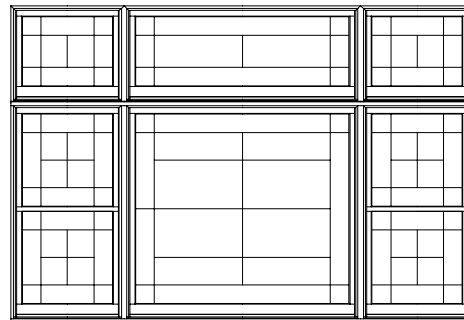
**LITE CUT OPTIONS**

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 clad double-hung 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.

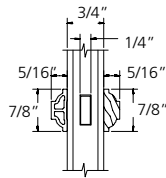


**BAR ALIGNMENT**

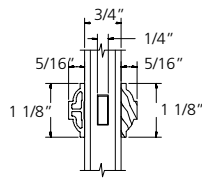
Alignment of divided lite muntin bars from one window to the next is often required by fine architectural design. Wood grilles, GBG (Grilles between the Glass), and Simulated Divided lites may be specified with muntin bars aligned.



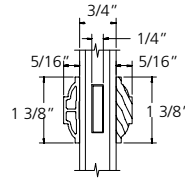
**DIVIDED LITE OPTIONS**



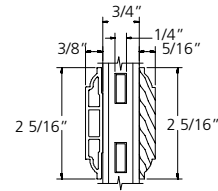
**7/8" SDL**



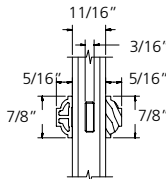
**1 1/8" SDL**



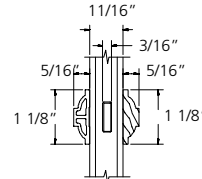
**1 3/8" SDL**



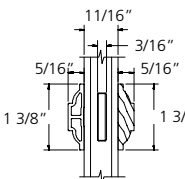
**2 5/16" SDL**



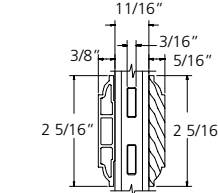
**7/8" SDL**



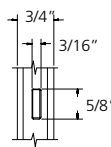
**1 1/8" SDL**



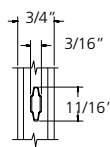
**1 3/8" SDL**



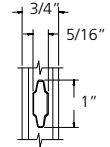
**2 5/16" SDL**



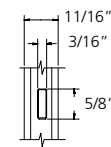
**5/8" GRILLE**



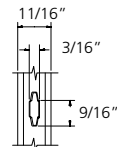
**23/32" GRILLE**



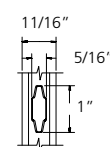
**1" GRILLE**



**5/8" GRILLE**



**23/32" GRILLE**



**1" GRILLE**

**GRILLES MEETING**

NFRC 3mm RULE

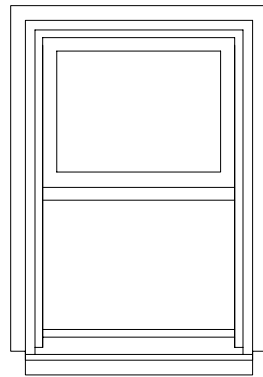
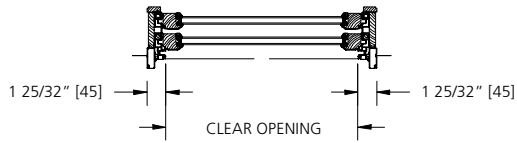
**GRILLE PROFILES:**

3/16" x 5/8"	ALLMETAL 1021101018XX140
3/16" x 1"	ALLMETAL 1020101018XX164
1/4" x 5/8"	ALLMETAL 1020102018XX140
1/4" x 1"	ALLMETAL 1020102018XX164
5.5mm x 18mm CONTOUR	ALLMETAL 1020301010XX255
8mm x 25mm CONTOUR	ALLMETAL 1020301018XX380

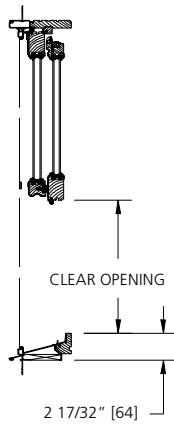
**Note:** All glass and airspace dimensions per current cardinal glass specs. Lites with shapes, angles or radii outside the Lisec Bender capabilities for stainless steel warm edge spacer will have aluminum box spacer with the same airspace dimension shown here.

SCALE 3" = 1'

**CLEAR OPENING INFORMATION  
DOUBLE-HUNG & COTTAGE AND REVERSE COTTAGE**



**DOUBLE-HUNG WINDOW**



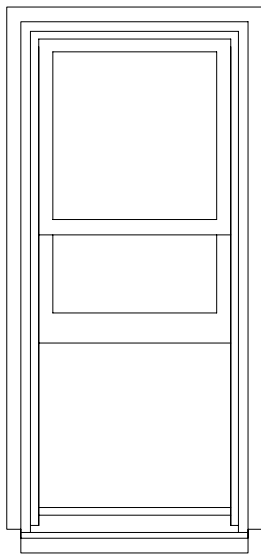
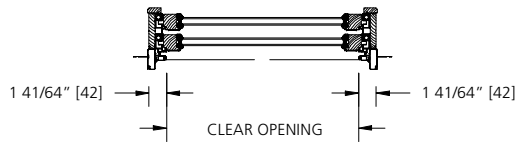
**DOUBLE-HUNG CLEAR OPENING FORMULA:**

**VERTICAL**

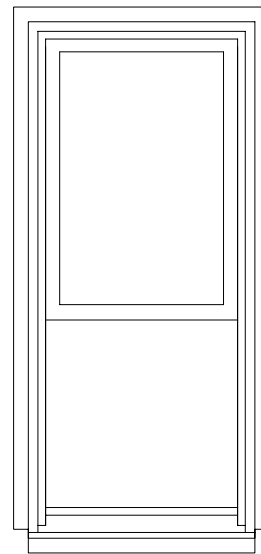
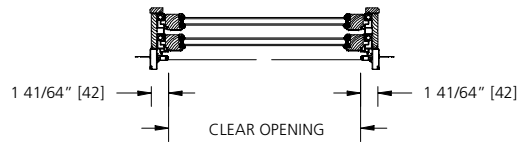
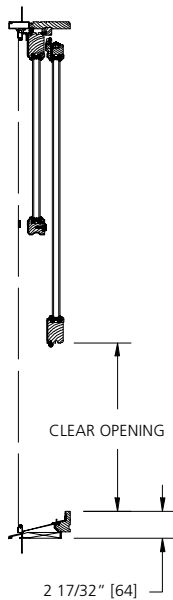
(Frame Height / 2) - 4 13/16" = Clear Opening

**HORIZONTAL**

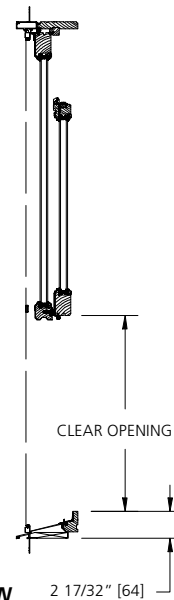
Frame Width - 3 9/16" = Clear Opening



**COTTAGE WINDOW**



**REVERSE COTTAGE WINDOW**



**COTTAGE & REVERSE COTTAGE**

Consult the Design Data Tables for clear opening information. For dimensional units, contact Jeld-Wen - Bend Window Division, Technical Services Department for clear opening information.

**CLEAR OPENING AND DAYLIGHT SPECIFICATIONS**

**Double-Hung Units**

Unit		Glass		Daylight Opening (sq.ft.)	Clear Opp. Width (in.)	DP35					DP50				
						Clear Opening		Subfloor to Top of Sill Height	Egress		Clear Opening		Subfloor to Top of Sill Height	Egress	
						Height (in.)	Area (sq.ft.)		At 5.0 sq.ft.	At 5.7 sq.ft.	Height (in.)	Area (sq.ft.)		At 5.0 sq.ft.	At 5.7 sq.ft.
21.375	32	15.75	12	2.3	17.825	12.332	1.5	53.281	NO	NO	12.250	1.5	53.5	NO	NO
21.375	36	15.75	14	2.7	17.825	14.332	1.8	49.281	NO	NO	14.250	1.8	49.5	NO	NO
21.375	40	15.75	16	3.1	17.825	16.332	2.0	45.281	NO	NO	16.250	2.0	45.5	NO	NO
21.375	44	15.75	18	3.5	17.825	18.332	2.3	41.281	NO	NO	18.250	2.3	41.5	NO	NO
21.375	48	15.75	20	3.9	17.825	20.332	2.5	37.281	NO	NO	20.250	2.5	37.5	NO	NO
21.375	52	15.75	22	4.3	17.825	22.332	2.8	33.281	NO	NO	22.250	2.8	33.5	NO	NO
21.375	56	15.75	24	4.7	17.825	24.332	3.0	29.281	NO	NO	24.250	3.0	29.5	NO	NO
21.375	60	15.75	26	5.2	17.825	26.332	3.3	25.281	NO	NO	26.250	3.2	25.5	NO	NO
21.375	64	15.75	28	5.6	17.825	28.332	3.5	21.281	NO	NO	28.250	3.5	21.5	NO	NO
21.375	68	15.75	30	6.0	17.825	30.332	3.8	17.281	NO	NO	30.250	3.7	17.5	NO	NO
21.375	68 Cottage	15.75	24 / 36	6.0	17.825	24.332	3.0	17.281	NO	NO	24.250	3.0	17.5	NO	NO
21.375	72	15.75	32	6.4	17.825	32.332	4.0	13.281	NO	NO	32.250	4.0	13.5	NO	NO
21.375	76	15.75	34	6.8	17.825	34.332	4.2	9.281	NO	NO	34.250	4.2	9.5	NO	NO
21.375	80	15.75	36	7.2	17.825	36.332	4.5	5.281	NO	NO	36.250	4.5	5.5	NO	NO
21.375	88	15.75	40	8.0	17.825	40.332	5.0	-2.719	NO	NO	40.250	5.0	-2.5	NO	NO
21.375	92	15.75	42	8.4	17.825	42.332	5.2	-6.719	NO	NO	42.250	5.2	-6.5	NO	NO
25.375	32	19.75	12	2.9	21.825	12.332	1.9	53.281	NO	NO	12.250	1.9	53.5	NO	NO
25.375	36	19.75	14	3.4	21.825	14.332	2.2	49.281	NO	NO	14.250	2.2	49.5	NO	NO
25.375	40	19.75	16	3.9	21.825	16.332	2.5	45.281	NO	NO	16.250	2.5	45.5	NO	NO
25.375	44	19.75	18	4.5	21.825	18.332	2.8	41.281	NO	NO	18.250	2.8	41.5	NO	NO
25.375	48	19.75	20	5.0	21.825	20.332	3.1	37.281	NO	NO	20.250	3.1	37.5	NO	NO
25.375	52	19.75	22	5.5	21.825	22.332	3.4	33.281	NO	NO	22.250	3.4	33.5	NO	NO
25.375	56	19.75	24	6.0	21.825	24.332	3.7	29.281	NO	NO	24.250	3.7	29.5	NO	NO
25.375	60	19.75	26	6.5	21.825	26.332	4.0	25.281	NO	NO	26.250	4.0	25.5	NO	NO
25.375	64	19.75	28	7.1	21.825	28.332	4.3	21.281	NO	NO	28.250	4.3	21.5	NO	NO
25.375	68	19.75	30	7.6	21.825	30.332	4.6	17.281	NO	NO	30.250	4.6	17.5	NO	NO
25.375	68 Cottage	19.75	24 / 36	7.6	21.825	24.332	3.7	17.281	NO	NO	24.250	3.7	17.5	NO	NO
25.375	72	19.75	32	8.1	21.825	32.332	4.9	13.281	NO	NO	32.250	4.9	13.5	NO	NO
25.375	76	19.75	34	8.6	21.825	34.332	5.2	9.281	YES*	NO	34.250	5.2	9.5	YES*	NO
25.375	80	19.75	36	9.2	21.825	36.332	5.5	5.281	YES*	NO	36.250	5.5	5.5	YES*	NO
25.375	88	19.75	40	10.2	21.825	40.332	6.1	-2.719	YES*	YES*	40.250	6.1	-2.5	YES*	YES*
25.375	92	19.75	42	10.7	21.825	42.332	6.4	-6.719	YES*	YES*	42.250	6.4	-6.5	YES*	YES*
29.375	32	23.75	12	3.5	25.825	12.332	2.2	53.281	NO	NO	12.250	2.2	53.5	NO	NO
29.375	36	23.75	14	4.1	25.825	14.332	2.6	49.281	NO	NO	14.250	2.6	49.5	NO	NO
29.375	40	23.75	16	4.8	25.825	16.332	2.9	45.281	NO	NO	16.250	2.9	45.5	NO	NO
29.375	44	23.75	18	5.4	25.825	18.332	3.3	41.281	NO	NO	18.250	3.3	41.5	NO	NO
29.375	48	23.75	20	6.0	25.825	20.332	3.6	37.281	NO	NO	20.250	3.6	37.5	NO	NO
29.375	52	23.75	22	6.7	25.825	22.332	4.0	33.281	NO	NO	22.250	4.0	33.5	NO	NO
29.375	56	23.75	24	7.3	25.825	24.332	4.4	29.281	NO	NO	24.250	4.3	29.5	NO	NO
29.375	60	23.75	26	7.9	25.825	26.332	4.7	25.281	NO	NO	26.250	4.7	25.5	NO	NO
29.375	64	23.75	28	8.6	25.825	28.332	5.1	21.281	YES*	NO	28.250	5.1	21.5	YES*	NO
29.375	68	23.75	30	9.2	25.825	30.332	5.4	17.281	YES*	NO	30.250	5.4	17.5	YES*	NO
29.375	68 Cottage	23.75	24 / 36	9.2	25.825	24.332	4.4	17.281	NO	NO	24.250	4.3	17.5	NO	NO
29.375	72	23.75	32	9.8	25.825	32.332	5.8	13.281	YES*	YES*	32.250	5.8	13.5	YES*	YES*
29.375	76	23.75	34	10.5	25.825	34.332	6.2	9.281	YES*	YES*	34.250	6.1	9.5	YES*	YES*
29.375	80	23.75	36	11.1	25.825	36.332	6.5	5.281	YES*	YES*	36.250	6.5	5.5	YES*	YES*
29.375	88	23.75	40	12.4	25.825	40.332	7.2	-2.719	YES*	YES*	40.250	7.2	-2.5	YES*	YES*
29.375	92	23.75	42	13.0	25.825	42.332	7.6	-6.719	YES*	YES*	42.250	7.6	-6.5	YES*	YES*

Values for Cottage apply to both standard and reverse cottages.

\*To meet egress, the minimum clear opening width must be 20", minimum clear opening height must be 24", minimum clear opening square feet must be 5.7, and minimum subfloor to sill height must be 44".

Note: If on ground floor, the square feet of clear opening need only be 5.0.

Continued on next page

**CLEAR OPENING AND DAYLIGHT SPECIFICATIONS**

**Double-Hung Units**

Unit		Glass		Daylight Opening (sq.ft.)	Clear Opg. Width (in.)	DP35					DP50				
						Clear Opening		Subfloor to Top of Sill Height	Egress		Clear Opening		Subfloor to Top of Sill Height	Egress	
						Height (in.)	Area (sq.ft.)		At 5.0 sq.ft.	At 5.7 sq.ft.	Height (in.)	Area (sq.ft.)		At 5.0 sq.ft.	At 5.7 sq.ft.
31.375	32	25.75	12	3.8	27.825	12.332	2.4	53.281	NO	NO	12.250	2.4	53.5	NO	NO
31.375	36	25.75	14	4.5	27.825	14.332	2.8	49.281	NO	NO	14.250	2.8	49.5	NO	NO
31.375	40	25.75	16	5.2	27.825	16.332	3.2	45.281	NO	NO	16.250	3.1	45.5	NO	NO
31.375	44	25.75	18	5.9	27.825	18.332	3.5	41.281	NO	NO	18.250	3.5	41.5	NO	NO
31.375	48	25.75	20	6.6	27.825	20.332	3.9	37.281	NO	NO	20.250	3.9	37.5	NO	NO
31.375	52	25.75	22	7.3	27.825	22.332	4.3	33.281	NO	NO	22.250	4.3	33.5	NO	NO
31.375	56	25.75	24	7.9	27.825	24.332	4.7	29.281	NO	NO	24.250	4.7	29.5	NO	NO
31.375	60	25.75	26	8.6	27.825	26.332	5.1	25.281	YES*	NO	26.250	5.1	25.5	YES*	NO
31.375	64	25.75	28	9.3	27.825	28.332	5.5	21.281	YES*	NO	28.250	5.5	21.5	YES*	NO
31.375	68	25.75	30	10.0	27.825	30.332	5.9	17.281	YES*	YES*	30.250	5.8	17.5	YES*	YES*
31.375	68 Cottage	25.75	24 / 36	10.0	27.825	24.332	4.7	17.281	NO	NO	24.250	4.7	17.5	NO	NO
31.375	72	25.75	32	10.7	27.825	32.332	6.2	13.281	YES*	YES*	32.250	6.2	13.5	YES*	YES*
31.375	76	25.75	34	11.4	27.825	34.332	6.6	9.281	YES*	YES*	34.250	6.6	9.5	YES*	YES*
31.375	80	25.75	36	12.1	27.825	36.332	7.0	5.281	YES*	YES*	36.250	7.0	5.5	YES*	YES*
31.375	88	25.75	40	13.5	27.825	40.332	7.8	-2.719	YES*	YES*	40.250	7.8	-2.5	YES*	YES*
31.375	92	25.75	42	14.2	27.825	42.332	8.2	-6.719	YES*	YES*	42.250	8.2	-6.5	YES*	YES*
33.375	32	27.75	12	4.1	29.825	12.332	2.6	53.281	NO	NO	12.250	2.5	53.5	NO	NO
33.375	36	27.75	14	4.9	29.825	14.332	3.0	49.281	NO	NO	14.250	3.0	49.5	NO	NO
33.375	40	27.75	16	5.6	29.825	16.332	3.4	45.281	NO	NO	16.250	3.4	45.5	NO	NO
33.375	44	27.75	18	6.4	29.825	18.332	3.8	41.281	NO	NO	18.250	3.8	41.5	NO	NO
33.375	48	27.75	20	7.1	29.825	20.332	4.2	37.281	NO	NO	20.250	4.2	37.5	NO	NO
33.375	52	27.75	22	7.8	29.825	22.332	4.6	33.281	NO	NO	22.250	4.6	33.5	NO	NO
33.375	56	27.75	24	8.6	29.825	24.332	5.0	29.281	YES*	NO	24.250	5.0	29.5	YES*	NO
33.375	60	27.75	26	9.3	29.825	26.332	5.5	25.281	YES*	NO	26.250	5.4	25.5	YES*	NO
33.375	64	27.75	28	10.1	29.825	28.332	5.9	21.281	YES*	YES*	28.250	5.9	21.5	YES*	YES*
33.375	68	27.75	30	10.8	29.825	30.332	6.3	17.281	YES*	YES*	30.250	6.3	17.5	YES*	YES*
33.375	68 Cottage	27.75	24 / 36	10.8	29.825	24.332	5.0	17.281	YES*	NO	24.250	5.0	17.5	YES*	NO
33.375	72	27.75	32	11.6	29.825	32.332	6.7	13.281	YES*	YES*	32.250	6.7	13.5	YES*	YES*
33.375	76	27.75	34	12.3	29.825	34.332	7.1	9.281	YES*	YES*	34.250	7.1	9.5	YES*	YES*
33.375	80	27.75	36	13.1	29.825	36.332	7.5	5.281	YES*	YES*	36.250	7.5	5.5	YES*	YES*
33.375	88	27.75	40	14.5	29.825	40.332	8.4	-2.719	YES*	YES*	40.250	8.3	-2.5	YES*	YES*
33.375	92	27.75	42	15.3	29.825	42.332	8.8	-6.719	YES*	YES*	42.250	8.8	-6.5	YES*	YES*
37.375	32	31.75	12	4.7	33.825	12.332	2.9	53.281	NO	NO	12.250	2.9	53.5	NO	NO
37.375	36	31.75	14	5.6	33.825	14.332	3.4	49.281	NO	NO	14.250	3.3	49.5	NO	NO
37.375	40	31.75	16	6.4	33.825	16.332	3.8	45.281	NO	NO	16.250	3.8	45.5	NO	NO
37.375	44	31.75	18	7.3	33.825	18.332	4.3	41.281	NO	NO	18.250	4.3	41.5	NO	NO
37.375	48	31.75	20	8.2	33.825	20.332	4.8	37.281	NO	NO	20.250	4.8	37.5	NO	NO
37.375	52	31.75	22	9.0	33.825	22.332	5.2	33.281	NO	NO	22.250	5.2	33.5	NO	NO
37.375	56	31.75	24	9.9	33.825	24.332	5.7	29.281	YES*	YES*	24.250	5.7	29.5	YES*	YES*
37.375	60	31.75	26	10.7	33.825	26.332	6.2	25.281	YES*	YES*	26.250	6.2	25.5	YES*	YES*
37.375	64	31.75	28	11.6	33.825	28.332	6.7	21.281	YES*	YES*	28.250	6.6	21.5	YES*	YES*
37.375	68	31.75	30	12.4	33.825	30.332	7.1	17.281	YES*	YES*	30.250	7.1	17.5	YES*	YES*
37.375	68 Cottage	31.75	24 / 36	12.4	33.825	24.332	5.7	17.281	YES*	YES*	24.250	5.7	17.5	YES*	YES*
37.375	72	31.75	32	13.3	33.825	32.332	7.6	13.281	YES*	YES*	32.250	7.6	13.5	YES*	YES*
37.375	76	31.75	34	14.1	33.825	34.332	8.1	9.281	YES*	YES*	34.250	8.0	9.5	YES*	YES*
37.375	80	31.75	36	15.0	33.825	36.332	8.5	5.281	YES*	YES*	36.250	8.5	5.5	YES*	YES*
37.375	88	31.75	40	16.7	33.825	40.332	9.5	-2.719	YES*	YES*	40.250	9.5	-2.5	YES*	YES*
37.375	92	31.75	42	17.6	33.825	42.332	9.9	-6.719	YES*	YES*	42.250	9.9	-6.5	YES*	YES*

Values for Cottage apply to both standard and reverse cottages.

\*To meet egress, the minimum clear opening width must be 20", minimum clear opening height must be 24", minimum clear opening square feet must be 5.7, and minimum subfloor to sill height must be 44".

Note: If on ground floor, the square feet of clear opening need only be 5.0.

Continued on next page

**CLEAR OPENING AND DAYLIGHT SPECIFICATIONS**

**Double-Hung Units**

Unit		Glass		Daylight Opening (sq.ft.)	Clear Opg. Width (in.)	DP35					DP50				
						Clear Opening		Subfloor to Top of Sill Height	Egress		Clear Opening		Subfloor to Top of Sill Height	Egress	
						Height (in.)	Area (sq.ft.)		At 5.0 sq.ft.	At 5.7 sq.ft.	Height (in.)	Area (sq.ft.)		At 5.0 sq.ft.	At 5.7 sq.ft.
41.375	32	35.75	12	5.3	37.825	12.332	3.2	53.281	NO	NO	12.250	3.2	53.5	NO	NO
41.375	36	35.75	14	6.3	37.825	14.332	3.8	49.281	NO	NO	14.250	3.7	49.5	NO	NO
41.375	40	35.75	16	7.3	37.825	16.332	4.3	45.281	NO	NO	16.250	4.3	45.5	NO	NO
41.375	44	35.75	18	8.2	37.825	18.332	4.8	41.281	NO	NO	18.250	4.8	41.5	NO	NO
41.375	48	35.75	20	9.2	37.825	20.332	5.3	37.281	NO	NO	20.250	5.3	37.5	NO	NO
41.375	52	35.75	22	10.2	37.825	22.332	5.9	33.281	NO	NO	22.250	5.8	33.5	NO	NO
41.375	56	35.75	24	11.2	37.825	24.332	6.4	29.281	YES*	YES*	24.250	6.4	29.5	YES*	YES*
41.375	60	35.75	26	12.1	37.825	26.332	6.9	25.281	YES*	YES*	26.250	6.9	25.5	YES*	YES*
41.375	64	35.75	28	13.1	37.825	28.332	7.4	21.281	YES*	YES*	28.250	7.4	21.5	YES*	YES*
41.375	68	35.75	30	14.1	37.825	30.332	8.0	17.281	YES*	YES*	30.250	7.9	17.5	YES*	YES*
41.375	68 Cottage	35.75	24 / 36	14.1	37.825	24.332	6.4	17.281	YES*	YES*	24.250	6.4	17.5	YES*	YES*
41.375	72	35.75	32	15.0	37.825	32.332	8.5	13.281	YES*	YES*	32.250	8.5	13.5	YES*	YES*
41.375	76	35.75	34	16.0	37.825	34.332	9.0	9.281	YES*	YES*	34.250	9.0	9.5	YES*	YES*
41.375	80	35.75	36	17.0	37.825	36.332	9.5	5.281	YES*	YES*	36.250	9.5	5.5	YES*	YES*
41.375	88	35.75	40	18.9	37.825	40.332	10.6	-2.719	YES*	YES*	40.250	10.6	-2.5	YES*	YES*
41.375	92	35.75	42	19.9	37.825	42.332	11.1	-6.719	YES*	YES*	42.250	11.1	-6.5	YES*	YES*
45.375	32	39.75	12	6.0	41.825	12.332	3.6	53.281	NO	NO	12.250	3.6	53.5	NO	NO
45.375	36	39.75	14	7.0	41.825	14.332	4.2	49.281	NO	NO	14.250	4.1	49.5	NO	NO
45.375	40	39.75	16	8.1	41.825	16.332	4.7	45.281	NO	NO	16.250	4.7	45.5	NO	NO
45.375	44	39.75	18	9.2	41.825	18.332	5.3	41.281	NO	NO	18.250	5.3	41.5	NO	NO
45.375	48	39.75	20	10.3	41.825	20.332	5.9	37.281	NO	NO	20.250	5.9	37.5	NO	NO
45.375	52	39.75	22	11.4	41.825	22.332	6.5	33.281	NO	NO	22.250	6.5	33.5	NO	NO
45.375	56	39.75	24	12.4	41.825	24.332	7.1	29.281	YES*	YES*	24.250	7.0	29.5	YES*	YES*
45.375	60	39.75	26	13.5	41.825	26.332	7.6	25.281	YES*	YES*	26.250	7.6	25.5	YES*	YES*
45.375	64	39.75	28	14.6	41.825	28.332	8.2	21.281	YES*	YES*	28.250	8.2	21.5	YES*	YES*
45.375	68	39.75	30	15.7	41.825	30.332	8.8	17.281	YES*	YES*	30.250	8.8	17.5	YES*	YES*
45.375	68 Cottage	39.75	24 / 36	15.7	41.825	24.332	7.1	17.281	YES*	YES*	24.250	7.0	17.5	YES*	YES*
45.375	72	39.75	32	16.7	41.825	32.332	9.4	13.281	YES*	YES*	32.250	9.4	13.5	YES*	YES*
45.375	76	39.75	34	17.8	41.825	34.332	10.0	9.281	YES*	YES*	34.250	9.9	9.5	YES*	YES*
45.375	80	39.75	36	18.9	41.825	36.332	10.6	5.281	YES*	YES*	36.250	10.5	5.5	YES*	YES*
45.375	88	39.75	40	21.1	41.825	40.332	11.7	-2.719	YES*	YES*	40.250	11.7	-2.5	YES*	YES*
45.375	92	39.75	42	22.1	41.825	42.332	12.3	-6.719	YES*	YES*	42.250	12.3	-6.5	YES*	YES*

Values for Cottage apply to both standard and reverse cottages.

\*To meet egress, the minimum clear opening width must be 20", minimum clear opening height must be 24", minimum clear opening square feet must be 5.7, and minimum subfloor to sill height must be 44".

Note: If on ground floor, the square feet of clear opening need only be 5.0.

**CLEAR OPENING AND DAYLIGHT SPECIFICATIONS**

**Double-Hung Units with Phantom Screen**

Unit		Glass		Daylight Opening (sq.ft.)	Clear Opg. Width (in.)	DP35					DP50				
						Clear Opening		Subfloor to Top of Sill Height	Egress		Clear Opening		Subfloor to Top of Sill Height	Egress	
						Height (in.)	Area (sq.ft.)		At 5.0 sq.ft.	At 5.7 sq.ft.	Height (in.)	Area (sq.ft.)		At 5.0 sq.ft.	At 5.7 sq.ft.
21.375	32	15.75	12	2.3	17.487	12.332	1.5	53.281	NO	NO	12.250	1.5	53.5	NO	NO
21.375	36	15.75	14	2.7	17.487	14.332	1.7	49.281	NO	NO	14.250	1.7	49.5	NO	NO
21.375	40	15.75	16	3.1	17.487	16.332	2.0	45.281	NO	NO	16.250	2.0	45.5	NO	NO
21.375	44	15.75	18	3.5	17.487	18.332	2.2	41.281	NO	NO	18.250	2.2	41.5	NO	NO
21.375	48	15.75	20	3.9	17.487	20.332	2.5	37.281	NO	NO	20.250	2.5	37.5	NO	NO
21.375	52	15.75	22	4.3	17.487	22.332	2.7	33.281	NO	NO	22.250	2.7	33.5	NO	NO
21.375	56	15.75	24	4.7	17.487	24.332	3.0	29.281	NO	NO	24.250	2.9	29.5	NO	NO
21.375	60	15.75	26	5.2	17.487	26.332	3.2	25.281	NO	NO	26.250	3.2	25.5	NO	NO
21.375	64	15.75	28	5.6	17.487	28.332	3.4	21.281	NO	NO	28.250	3.4	21.5	NO	NO
21.375	68	15.75	30	6.0	17.487	30.332	3.7	17.281	NO	NO	30.250	3.7	17.5	NO	NO
21.375	68/Cottage	15.75	24 / 36	6.0	17.487	24.332	3.0	17.281	NO	NO	24.250	2.9	17.5	NO	NO
21.375	72	15.75	32	6.4	17.487	32.332	3.9	13.281	NO	NO	32.250	3.9	13.5	NO	NO
21.375	76	15.75	34	6.8	17.487	34.332	4.2	9.281	NO	NO	34.250	4.2	9.5	NO	NO
21.375	80	15.75	36	7.2	17.487	36.332	4.4	5.281	NO	NO	36.250	4.4	5.5	NO	NO
21.375	88	15.75	40	8.0	17.487	40.332	4.9	-2.719	NO	NO	40.250	4.9	-2.5	NO	NO
21.375	92	15.75	42	8.4	17.487	42.332	5.1	-6.719	NO	NO	42.250	5.1	-6.5	NO	NO
25.375	32	19.75	12	2.9	21.487	12.332	1.8	53.281	NO	NO	12.250	1.8	53.5	NO	NO
25.375	36	19.75	14	3.4	21.487	14.332	2.1	49.281	NO	NO	14.250	2.1	49.5	NO	NO
25.375	40	19.75	16	3.9	21.487	16.332	2.4	45.281	NO	NO	16.250	2.4	45.5	NO	NO
25.375	44	19.75	18	4.5	21.487	18.332	2.7	41.281	NO	NO	18.250	2.7	41.5	NO	NO
25.375	48	19.75	20	5.0	21.487	20.332	3.0	37.281	NO	NO	20.250	3.0	37.5	NO	NO
25.375	52	19.75	22	5.5	21.487	22.332	3.3	33.281	NO	NO	22.250	3.3	33.5	NO	NO
25.375	56	19.75	24	6.0	21.487	24.332	3.6	29.281	NO	NO	24.250	3.6	29.5	NO	NO
25.375	60	19.75	26	6.5	21.487	26.332	3.9	25.281	NO	NO	26.250	3.9	25.5	NO	NO
25.375	64	19.75	28	7.1	21.487	28.332	4.2	21.281	NO	NO	28.250	4.2	21.5	NO	NO
25.375	68	19.75	30	7.6	21.487	30.332	4.5	17.281	NO	NO	30.250	4.5	17.5	NO	NO
25.375	68/Cottage	19.75	24 / 36	7.6	21.487	24.332	3.6	17.281	NO	NO	24.250	3.6	17.5	NO	NO
25.375	72	19.75	32	8.1	21.487	32.332	4.8	13.281	NO	NO	32.250	4.8	13.5	NO	NO
25.375	76	19.75	34	8.6	21.487	34.332	5.1	9.281	YES*	NO	34.250	5.1	9.5	YES*	NO
25.375	80	19.75	36	9.2	21.487	36.332	5.4	5.281	YES*	NO	36.250	5.4	5.5	YES*	NO
25.375	88	19.75	40	10.2	21.487	40.332	6.0	-2.719	YES*	YES*	40.250	6.0	-2.5	YES*	YES*
25.375	92	19.75	42	10.7	21.487	42.332	6.3	-6.719	YES*	YES*	42.250	6.3	-6.5	YES*	YES*
29.375	32	23.75	12	3.5	25.487	12.332	2.2	53.281	NO	NO	12.250	2.2	53.5	NO	NO
29.375	36	23.75	14	4.1	25.487	14.332	2.5	49.281	NO	NO	14.250	2.5	49.5	NO	NO
29.375	40	23.75	16	4.8	25.487	16.332	2.9	45.281	NO	NO	16.250	2.9	45.5	NO	NO
29.375	44	23.75	18	5.4	25.487	18.332	3.2	41.281	NO	NO	18.250	3.2	41.5	NO	NO
29.375	48	23.75	20	6.0	25.487	20.332	3.6	37.281	NO	NO	20.250	3.6	37.5	NO	NO
29.375	52	23.75	22	6.7	25.487	22.332	4.0	33.281	NO	NO	22.250	3.9	33.5	NO	NO
29.375	56	23.75	24	7.3	25.487	24.332	4.3	29.281	NO	NO	24.250	4.3	29.5	NO	NO
29.375	60	23.75	26	7.9	25.487	26.332	4.7	25.281	NO	NO	26.250	4.6	25.5	NO	NO
29.375	64	23.75	28	8.6	25.487	28.332	5.0	21.281	YES*	NO	28.250	5.0	21.5	YES*	NO
29.375	68	23.75	30	9.2	25.487	30.332	5.4	17.281	YES*	NO	30.250	5.4	17.5	YES*	NO
29.375	68/Cottage	23.75	24 / 36	9.2	25.487	24.332	4.3	17.281	NO	NO	24.250	4.3	17.5	NO	NO
29.375	72	23.75	32	9.8	25.487	32.332	5.7	13.281	YES*	YES*	32.250	5.7	13.5	YES*	YES*
29.375	76	23.75	34	10.5	25.487	34.332	6.1	9.281	YES*	YES*	34.250	6.1	9.5	YES*	YES*
29.375	80	23.75	36	11.1	25.487	36.332	6.4	5.281	YES*	YES*	36.250	6.4	5.5	YES*	YES*
29.375	88	23.75	40	12.4	25.487	40.332	7.1	-2.719	YES*	YES*	40.250	7.1	-2.5	YES*	YES*
29.375	92	23.75	42	13.0	25.487	42.332	7.5	-6.719	YES*	YES*	42.250	7.5	-6.5	YES*	YES*

Values for Cottage apply to both standard and reverse cottages.

\*To meet egress, the minimum clear opening width must be 20", minimum clear opening height must be 24", minimum clear opening square feet must be 5.7, and minimum subfloor to sill height must be 44".

Note: If on ground floor, the square feet of clear opening need only be 5.0.



**CLEAR OPENING AND DAYLIGHT SPECIFICATIONS**

**Double-Hung Units with Phantom Screen**

Unit		Glass		Daylight Opening (sq.ft.)	Clear Opg. Width (in.)	DP35					DP50				
						Clear Opening		Subfloor to Top of Sill Height	Egress		Clear Opening		Subfloor to Top of Sill Height	Egress	
						Height (in.)	Area (sq.ft.)		At 5.0 sq.ft.	At 5.7 sq.ft.	Height (in.)	Area (sq.ft.)		At 5.0 sq.ft.	At 5.7 sq.ft.
31.375	32	25.75	12	3.8	27.487	12.332	2.4	53.281	NO	NO	12.250	2.3	53.5	NO	NO
31.375	36	25.75	14	4.5	27.487	14.332	2.7	49.281	NO	NO	14.250	2.7	49.5	NO	NO
31.375	40	25.75	16	5.2	27.487	16.332	3.1	45.281	NO	NO	16.250	3.1	45.5	NO	NO
31.375	44	25.75	18	5.9	27.487	18.332	3.5	41.281	NO	NO	18.250	3.5	41.5	NO	NO
31.375	48	25.75	20	6.6	27.487	20.332	3.9	37.281	NO	NO	20.250	3.9	37.5	NO	NO
31.375	52	25.75	22	7.3	27.487	22.332	4.3	33.281	NO	NO	22.250	4.2	33.5	NO	NO
31.375	56	25.75	24	7.9	27.487	24.332	4.6	29.281	NO	NO	24.250	4.6	29.5	NO	NO
31.375	60	25.75	26	8.6	27.487	26.332	5.0	25.281	YES*	NO	26.250	5.0	25.5	YES*	NO
31.375	64	25.75	28	9.3	27.487	28.332	5.4	21.281	YES*	NO	28.250	5.4	21.5	YES*	NO
31.375	68	25.75	30	10.0	27.487	30.332	5.8	17.281	YES*	YES*	30.250	5.8	17.5	YES*	YES*
31.375	68/Cottage	25.75	24 / 36	10.0	27.487	24.332	4.6	17.281	NO	NO	24.250	4.6	17.5	NO	NO
31.375	72	25.75	32	10.7	27.487	32.332	6.2	13.281	YES*	YES*	32.250	6.2	13.5	YES*	YES*
31.375	76	25.75	34	11.4	27.487	34.332	6.6	9.281	YES*	YES*	34.250	6.5	9.5	YES*	YES*
31.375	80	25.75	36	12.1	27.487	36.332	6.9	5.281	YES*	YES*	36.250	6.9	5.5	YES*	YES*
31.375	88	25.75	40	13.5	27.487	40.332	7.7	-2.719	YES*	YES*	40.250	7.7	-2.5	YES*	YES*
31.375	92	25.75	42	14.2	27.487	42.332	8.1	-6.719	YES*	YES*	42.250	8.1	-6.5	YES*	YES*
33.375	32	27.75	12	4.1	29.487	12.332	2.5	53.281	NO	NO	12.250	2.5	53.5	NO	NO
33.375	36	27.75	14	4.9	29.487	14.332	2.9	49.281	NO	NO	14.250	2.9	49.5	NO	NO
33.375	40	27.75	16	5.6	29.487	16.332	3.3	45.281	NO	NO	16.250	3.3	45.5	NO	NO
33.375	44	27.75	18	6.4	29.487	18.332	3.8	41.281	NO	NO	18.250	3.7	41.5	NO	NO
33.375	48	27.75	20	7.1	29.487	20.332	4.2	37.281	NO	NO	20.250	4.1	37.5	NO	NO
33.375	52	27.75	22	7.8	29.487	22.332	4.6	33.281	NO	NO	22.250	4.6	33.5	NO	NO
33.375	56	27.75	24	8.6	29.487	24.332	5.0	29.281	YES*	NO	24.250	5.0	29.5	YES*	NO
33.375	60	27.75	26	9.3	29.487	26.332	5.4	25.281	YES*	NO	26.250	5.4	25.5	YES*	NO
33.375	64	27.75	28	10.1	29.487	28.332	5.8	21.281	YES*	YES*	28.250	5.8	21.5	YES*	YES*
33.375	68	27.75	30	10.8	29.487	30.332	6.2	17.281	YES*	YES*	30.250	6.2	17.5	YES*	YES*
33.375	68/Cottage	27.75	24 / 36	10.8	29.487	24.332	5.0	17.281	YES*	NO	24.250	5.0	17.5	YES*	NO
33.375	72	27.75	32	11.6	29.487	32.332	6.6	13.281	YES*	YES*	32.250	6.6	13.5	YES*	YES*
33.375	76	27.75	34	12.3	29.487	34.332	7.0	9.281	YES*	YES*	34.250	7.0	9.5	YES*	YES*
33.375	80	27.75	36	13.1	29.487	36.332	7.4	5.281	YES*	YES*	36.250	7.4	5.5	YES*	YES*
33.375	88	27.75	40	14.5	29.487	40.332	8.3	-2.719	YES*	YES*	40.250	8.2	-2.5	YES*	YES*
33.375	92	27.75	42	15.3	29.487	42.332	8.7	-6.719	YES*	YES*	42.250	8.7	-6.5	YES*	YES*
37.375	32	31.75	12	4.7	33.487	12.332	2.9	53.281	NO	NO	12.250	2.8	53.5	NO	NO
37.375	36	31.75	14	5.6	33.487	14.332	3.3	49.281	NO	NO	14.250	3.3	49.5	NO	NO
37.375	40	31.75	16	6.4	33.487	16.332	3.8	45.281	NO	NO	16.250	3.8	45.5	NO	NO
37.375	44	31.75	18	7.3	33.487	18.332	4.3	41.281	NO	NO	18.250	4.2	41.5	NO	NO
37.375	48	31.75	20	8.2	33.487	20.332	4.7	37.281	NO	NO	20.250	4.7	37.5	NO	NO
37.375	52	31.75	22	9.0	33.487	22.332	5.2	33.281	NO	NO	22.250	5.2	33.5	NO	NO
37.375	56	31.75	24	9.9	33.487	24.332	5.7	29.281	YES*	YES*	24.250	5.6	29.5	YES*	NO
37.375	60	31.75	26	10.7	33.487	26.332	6.1	25.281	YES*	YES*	26.250	6.1	25.5	YES*	YES*
37.375	64	31.75	28	11.6	33.487	28.332	6.6	21.281	YES*	YES*	28.250	6.6	21.5	YES*	YES*
37.375	68	31.75	30	12.4	33.487	30.332	7.1	17.281	YES*	YES*	30.250	7.0	17.5	YES*	YES*
37.375	68/Cottage	31.75	24 / 36	12.4	33.487	24.332	5.7	17.281	YES*	YES*	24.250	5.6	17.5	YES*	NO
37.375	72	31.75	32	13.3	33.487	32.332	7.5	13.281	YES*	YES*	32.250	7.5	13.5	YES*	YES*
37.375	76	31.75	34	14.1	33.487	34.332	8.0	9.281	YES*	YES*	34.250	8.0	9.5	YES*	YES*
37.375	80	31.75	36	15.0	33.487	36.332	8.4	5.281	YES*	YES*	36.250	8.4	5.5	YES*	YES*
37.375	88	31.75	40	16.7	33.487	40.332	9.4	-2.719	YES*	YES*	40.250	9.4	-2.5	YES*	YES*
37.375	92	31.75	42	17.6	33.487	42.332	9.8	-6.719	YES*	YES*	42.250	9.8	-6.5	YES*	YES*

Values for Cottage apply to both standard and reverse cottages.

\*To meet egress, the minimum clear opening width must be 20", minimum clear opening height must be 24", minimum clear opening square feet must be 5.7, and minimum subfloor to sill height must be 44".

Note: If on ground floor, the square feet of clear opening need only be 5.0.

**CLEAR OPENING AND DAYLIGHT SPECIFICATIONS**

**Double-Hung Units with Phantom Screen**

Unit		Glass		Daylight Opening (sq.ft.)	Clear Opg. Width (in.)	DP35					DP50				
						Clear Opening		Subfloor to Top of Sill Height	Egress		Clear Opening		Subfloor to Top of Sill Height	Egress	
						Height (in.)	Area (sq.ft.)		At 5.0 sq.ft.	At 5.7 sq.ft.	Height (in.)	Area (sq.ft.)		At 5.0 sq.ft.	At 5.7 sq.ft.
41.375	32	35.75	12	5.3	37.487	12.332	3.2	53.281	NO	NO	12.250	3.2	53.5	NO	NO
41.375	36	35.75	14	6.3	37.487	14.332	3.7	49.281	NO	NO	14.250	3.7	49.5	NO	NO
41.375	40	35.75	16	7.3	37.487	16.332	4.3	45.281	NO	NO	16.250	4.2	45.5	NO	NO
41.375	44	35.75	18	8.2	37.487	18.332	4.8	41.281	NO	NO	18.250	4.8	41.5	NO	NO
41.375	48	35.75	20	9.2	37.487	20.332	5.3	37.281	NO	NO	20.250	5.3	37.5	NO	NO
41.375	52	35.75	22	10.2	37.487	22.332	5.8	33.281	NO	NO	22.250	5.8	33.5	NO	NO
41.375	56	35.75	24	11.2	37.487	24.332	6.3	29.281	YES*	YES*	24.250	6.3	29.5	YES*	YES*
41.375	60	35.75	26	12.1	37.487	26.332	6.9	25.281	YES*	YES*	26.250	6.8	25.5	YES*	YES*
41.375	64	35.75	28	13.1	37.487	28.332	7.4	21.281	YES*	YES*	28.250	7.4	21.5	YES*	YES*
41.375	68	35.75	30	14.1	37.487	30.332	7.9	17.281	YES*	YES*	30.250	7.9	17.5	YES*	YES*
41.375	68/Cottage	35.75	24/36	14.1	37.487	24.332	6.3	17.281	YES*	YES*	24.250	6.3	17.5	YES*	YES*
41.375	72	35.75	32	15.0	37.487	32.332	8.4	13.281	YES*	YES*	32.250	8.4	13.5	YES*	YES*
41.375	76	35.75	34	16.0	37.487	34.332	8.9	9.281	YES*	YES*	34.250	8.9	9.5	YES*	YES*
41.375	80	35.75	36	17.0	37.487	36.332	9.5	5.281	YES*	YES*	36.250	9.4	5.5	YES*	YES*
41.375	88	35.75	40	18.9	37.487	40.332	10.5	-2.719	YES*	YES*	40.250	10.5	-2.5	YES*	YES*
41.375	92	35.75	42	19.9	37.487	42.332	11.0	-6.719	YES*	YES*	42.250	11.0	-6.5	YES*	YES*
45.375	32	39.75	12	6.0	41.487	12.332	3.6	53.281	NO	NO	12.250	3.5	53.5	NO	NO
45.375	36	39.75	14	7.0	41.487	14.332	4.1	49.281	NO	NO	14.250	4.1	49.5	NO	NO
45.375	40	39.75	16	8.1	41.487	16.332	4.7	45.281	NO	NO	16.250	4.7	45.5	NO	NO
45.375	44	39.75	18	9.2	41.487	18.332	5.3	41.281	NO	NO	18.250	5.3	41.5	NO	NO
45.375	48	39.75	20	10.3	41.487	20.332	5.9	37.281	NO	NO	20.250	5.8	37.5	NO	NO
45.375	52	39.75	22	11.4	41.487	22.332	6.4	33.281	NO	NO	22.250	6.4	33.5	NO	NO
45.375	56	39.75	24	12.4	41.487	24.332	7.0	29.281	YES*	YES*	24.250	7.0	29.5	YES*	YES*
45.375	60	39.75	26	13.5	41.487	26.332	7.6	25.281	YES*	YES*	26.250	7.6	25.5	YES*	YES*
45.375	64	39.75	28	14.6	41.487	28.332	8.2	21.281	YES*	YES*	28.250	8.1	21.5	YES*	YES*
45.375	68	39.75	30	15.7	41.487	30.332	8.7	17.281	YES*	YES*	30.250	8.7	17.5	YES*	YES*
45.375	68/Cottage	39.75	24/36	15.7	41.487	24.332	7.0	17.281	YES*	YES*	24.250	7.0	17.5	YES*	YES*
45.375	72	39.75	32	16.7	41.487	32.332	9.3	13.281	YES*	YES*	32.250	9.3	13.5	YES*	YES*
45.375	76	39.75	34	17.8	41.487	34.332	9.9	9.281	YES*	YES*	34.250	9.9	9.5	YES*	YES*
45.375	80	39.75	36	18.9	41.487	36.332	10.5	5.281	YES*	YES*	36.250	10.4	5.5	YES*	YES*
45.375	88	39.75	40	21.1	41.487	40.332	11.6	-2.719	YES*	YES*	40.250	11.6	-2.5	YES*	YES*
45.375	92	39.75	42	22.1	41.487	42.332	12.2	-6.719	YES*	YES*	42.250	12.2	-6.5	YES*	YES*

Values for Cottage apply to both standard and reverse cottages.

\*To meet egress, the minimum clear opening width must be 20", minimum clear opening height must be 24", minimum clear opening square feet must be 5.7, and minimum subfloor to sill height must be 44".

Note: If on ground floor, the square feet of clear opening need only be 5.0.

**CLEAR OPENING AND DAYLIGHT SPECIFICATIONS**

**Picture Units**

Picture Call Size	Daylight Opening		
	Width (in.)	Height (in.)	Area (sq.ft.)
29 36	22.683	28.192	4.4
29 40	22.683	32.192	5.1
29 44	22.683	36.192	5.7
29 48	22.683	40.192	6.3
29 52	22.683	44.192	7.0
29 56	22.683	48.192	7.6
29 60	22.683	52.192	8.2
29 64	22.683	56.192	8.9
29 68	22.683	60.192	9.5
29 72	22.683	64.192	10.1
29 76	22.683	68.192	10.7
29 80	22.683	72.192	11.4
29 88	22.683	80.192	12.6
29 92	22.683	84.192	13.3
31 36	24.683	28.192	4.8
31 40	24.683	32.192	5.5
31 44	24.683	36.192	6.2
31 48	24.683	40.192	6.9
31 52	24.683	44.192	7.6
31 56	24.683	48.192	8.3
31 60	24.683	52.192	8.9
31 64	24.683	56.192	9.6
31 68	24.683	60.192	10.3
31 72	24.683	64.192	11.0
31 76	24.683	68.192	11.7
31 80	24.683	72.192	12.4
31 88	24.683	80.192	13.7
31 92	24.683	84.192	14.4
33 36	26.683	28.192	5.2
33 40	26.683	32.192	6.0
33 44	26.683	36.192	6.7
33 48	26.683	40.192	7.4
33 52	26.683	44.192	8.2
33 56	26.683	48.192	8.9
33 60	26.683	52.192	9.7
33 64	26.683	56.192	10.4
33 68	26.683	60.192	11.2
33 72	26.683	64.192	11.9
33 76	26.683	68.192	12.6
33 80	26.683	72.192	13.4
33 88	26.683	80.192	14.9
33 92	26.683	84.192	15.6
37 36	30.683	28.192	6.0
37 40	30.683	32.192	6.9
37 44	30.683	36.192	7.7
37 48	30.683	40.192	8.6
37 52	30.683	44.192	9.4
37 56	30.683	48.192	10.3
37 60	30.683	52.192	11.1
37 64	30.683	56.192	12.0
37 68	30.683	60.192	12.8
37 72	30.683	64.192	13.7
37 76	30.683	68.192	14.5
37 80	30.683	72.192	15.4
37 88	30.683	80.192	17.1
37 92	30.683	84.192	17.9

Picture Call Size	Daylight Opening		
	Width (in.)	Height (in.)	Area (sq.ft.)
41 36	34.683	28.192	6.8
41 40	34.683	32.192	7.8
41 44	34.683	36.192	8.7
41 48	34.683	40.192	9.7
41 52	34.683	44.192	10.6
41 56	34.683	48.192	11.6
41 60	34.683	52.192	12.6
41 64	34.683	56.192	13.5
41 68	34.683	60.192	14.5
41 72	34.683	64.192	15.5
41 76	34.683	68.192	16.4
41 80	34.683	72.192	17.4
41 88	34.683	80.192	19.3
41 92	34.683	84.192	20.3
45 36	38.683	28.192	7.6
45 40	38.683	32.192	8.6
45 44	38.683	36.192	9.7
45 48	38.683	40.192	10.8
45 52	38.683	44.192	11.9
45 56	38.683	48.192	12.9
45 60	38.683	52.192	14.0
45 64	38.683	56.192	15.1
45 68	38.683	60.192	16.2
45 72	38.683	64.192	17.2
45 76	38.683	68.192	18.3
45 80	38.683	72.192	19.4
45 88	38.683	80.192	21.5
45 92	38.683	84.192	22.6
49 36	42.683	28.192	8.4
49 40	42.683	32.192	9.5
49 44	42.683	36.192	10.7
49 48	42.683	40.192	11.9
49 52	42.683	44.192	13.1
49 56	42.683	48.192	14.3
49 60	42.683	52.192	15.5
49 64	42.683	56.192	16.7
49 68	42.683	60.192	17.8
49 72	42.683	64.192	19.0
49 76	42.683	68.192	20.2
49 80	42.683	72.192	21.4
53 36	46.683	28.192	9.1
53 40	46.683	32.192	10.4
53 44	46.683	36.192	11.7
53 48	46.683	40.192	13.0
53 52	46.683	44.192	14.3
53 56	46.683	48.192	15.6
53 60	46.683	52.192	16.9
53 64	46.683	56.192	18.2
53 68	46.683	60.192	19.5
53 72	46.683	64.192	20.8
53 76	46.683	68.192	22.1
53 80	46.683	72.192	23.4

*Continued on next page*

**CLEAR OPENING AND DAYLIGHT SPECIFICATIONS**

**Picture Units**

Picture Call Size	Daylight Opening		
	Width (in.)	Height (in.)	Area (sq.ft.)
61 36	54.683	28.192	10.7
61 40	54.683	32.192	12.2
61 44	54.683	36.192	13.7
61 48	54.683	40.192	15.3
61 52	54.683	44.192	16.8
61 56	54.683	48.192	18.3
61 60	54.683	52.192	19.8
61 64	54.683	56.192	21.3
61 68	54.683	60.192	22.9
61 72	54.683	64.192	24.4
61 76	54.683	68.192	25.9
61 80	54.683	72.192	27.4
69 36	62.683	28.192	12.3
69 40	62.683	32.192	14.0
69 44	62.683	36.192	15.8
69 48	62.683	40.192	17.5
69 52	62.683	44.192	19.2
69 56	62.683	48.192	21.0
69 60	62.683	52.192	22.7
69 64	62.683	56.192	24.5
69 68	62.683	60.192	26.2
69 72	62.683	64.192	27.9
69 76	62.683	68.192	29.7
69 80	62.683	72.192	31.4

Picture Call Size	Daylight Opening		
	Width (in.)	Height (in.)	Area (sq.ft.)
77 36	70.683	28.192	13.8
77 40	70.683	32.192	15.8
77 44	70.683	36.192	17.8
77 48	70.683	40.192	19.7
77 52	70.683	44.192	21.7
77 56	70.683	48.192	23.7
77 60	70.683	52.192	25.6
77 64	70.683	56.192	27.6
77 68	70.683	60.192	29.5
77 72	70.683	64.192	31.5
77 76	70.683	68.192	33.5
77 80	70.683	72.192	35.4

**CLEAR OPENING INFORMATION  
SECTOR TOP SINGLE-HUNG**

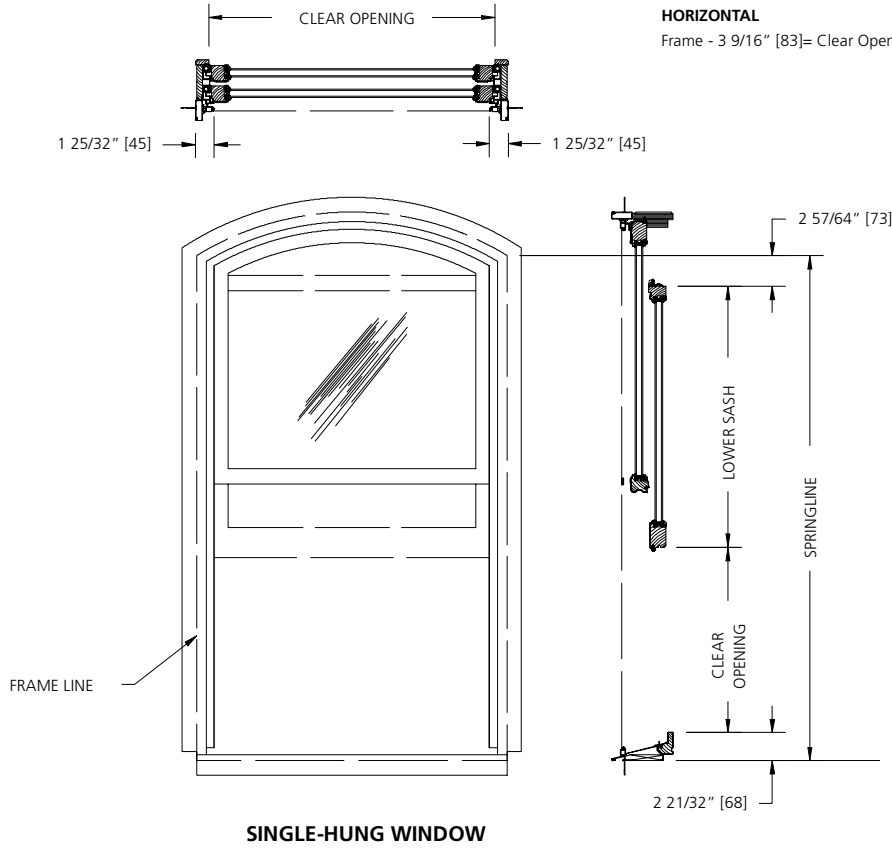
**SINGLE-HUNG CLEAR OPENING FORMULA:**

**VERTICAL**

Springline - (Lower Sash + 5 13/16" [148]) = Clear Opening

**HORIZONTAL**

Frame - 3 9/16" [83] = Clear Opening



**CLEAR OPENING AND DAYLIGHT SPECIFICATIONS**

**Sector Top Units**

Unit		Glass		Daylight Opening (sq.ft.)	Clear Opg. Width (in.)	DP35					DP50				
						Clear Opening		Subfloor to Top of Sill Height	Egress		Clear Opening		Subfloor to Top of Sill Height	Egress	
						Height (in.)	Area (sq.ft.)		At 5.0 sq.ft.	At 5.7 sq.ft.	Height (in.)	Area (sq.ft.)		At 5.0 sq.ft.	At 5.7 sq.ft.
25.375	56	19.75	24.25 / 24	5.9	21.825	19.562	3.0	29.281	NO	NO	19.344	2.9	29.5	NO	NO
25.375	60	19.75	26.25 / 26	6.2	21.825	21.562	3.3	25.281	NO	NO	21.344	3.2	25.5	NO	NO
25.375	64	19.75	28.25 / 28	6.4	21.825	23.562	3.6	21.281	NO	NO	23.344	3.5	21.5	NO	NO
25.375	68	19.75	30.25 / 30	6.7	21.825	25.562	3.9	17.281	NO	NO	25.344	3.8	17.5	NO	NO
25.375	72	19.75	32.25 / 32	6.9	21.825	27.562	4.2	13.281	NO	NO	27.344	4.1	13.5	NO	NO
29.375	56	23.75	24.25 / 24	7.1	25.825	19.562	3.5	29.281	NO	NO	19.344	3.5	29.5	NO	NO
29.375	60	23.75	26.25 / 26	7.5	25.825	21.562	3.9	25.281	NO	NO	21.344	3.8	25.5	NO	NO
29.375	64	23.75	28.25 / 28	7.8	25.825	23.562	4.2	21.281	NO	NO	23.344	4.2	21.5	NO	NO
29.375	68	23.75	30.25 / 30	8.1	25.825	25.562	4.6	17.281	NO	NO	25.344	4.5	17.5	NO	NO
29.375	72	23.75	32.25 / 32	8.4	25.825	27.562	4.9	13.281	NO	NO	27.344	4.9	13.5	NO	NO
31.375	56	25.75	24.25 / 24	7.8	27.825	19.562	3.8	29.281	NO	NO	19.344	3.7	29.5	NO	NO
31.375	60	25.75	26.25 / 26	8.1	27.825	21.562	4.2	25.281	NO	NO	21.344	4.1	25.5	NO	NO
31.375	64	25.75	28.25 / 28	8.4	27.825	23.562	4.6	21.281	NO	NO	23.344	4.5	21.5	NO	NO
31.375	68	25.75	30.25 / 30	8.8	27.825	25.562	4.9	17.281	NO	NO	25.344	4.9	17.5	NO	NO
31.375	72	25.75	32.25 / 32	9.1	27.825	27.562	5.3	13.281	YES*	NO	27.344	5.3	13.5	YES*	NO
33.375	56	27.75	24.25 / 24	8.4	29.825	19.562	4.1	29.281	NO	NO	19.344	4.0	29.5	NO	NO
33.375	60	27.75	26.25 / 26	8.7	29.825	21.562	4.5	25.281	NO	NO	21.344	4.4	25.5	NO	NO
33.375	64	27.75	28.25 / 28	9.1	29.825	23.562	4.9	21.281	NO	NO	23.344	4.8	21.5	NO	NO
33.375	68	27.75	30.25 / 30	9.5	29.825	25.562	5.3	17.281	YES*	NO	25.344	5.2	17.5	YES*	NO
33.375	72	27.75	32.25 / 32	9.9	29.825	27.562	5.7	13.281	YES*	YES*	27.344	5.7	13.5	YES*	YES*
37.375	56	31.75	24.25 / 24	9.6	33.825	19.562	4.6	29.281	NO	NO	19.344	4.5	29.5	NO	NO
37.375	60	31.75	26.25 / 26	10.0	33.825	21.562	5.1	25.281	NO	NO	21.344	5.0	25.5	NO	NO
37.375	64	31.75	28.25 / 28	10.5	33.825	23.562	5.5	21.281	NO	NO	23.344	5.5	21.5	NO	NO
37.375	68	31.75	30.25 / 30	10.9	33.825	25.562	6.0	17.281	YES*	YES*	25.344	6.0	17.5	YES*	YES*
37.375	72	31.75	32.25 / 32	11.3	33.825	27.562	6.5	13.281	YES*	YES*	27.344	6.4	13.5	YES*	YES*
41.375	56	35.75	24.25 / 24	10.9	37.825	19.562	5.1	29.281	NO	NO	19.344	5.1	29.5	NO	NO
41.375	60	35.75	26.25 / 26	11.3	37.825	21.562	5.7	25.281	NO	NO	21.344	5.6	25.5	NO	NO
41.375	64	35.75	28.25 / 28	11.8	37.825	23.562	6.2	21.281	NO	NO	23.344	6.1	21.5	NO	NO
41.375	68	35.75	30.25 / 30	12.3	37.825	25.562	6.7	17.281	YES*	YES*	25.344	6.7	17.5	YES*	YES*
41.375	72	35.75	32.25 / 32	12.8	37.825	27.562	7.2	13.281	YES*	YES*	27.344	7.2	13.5	YES*	YES*
45.375	56	39.75	24.25 / 24	12.1	41.825	19.562	5.7	29.281	NO	NO	19.344	5.6	29.5	NO	NO
45.375	60	39.75	26.25 / 26	12.6	41.825	21.562	6.3	25.281	NO	NO	21.344	6.2	25.5	NO	NO
45.375	64	39.75	28.25 / 28	13.2	41.825	23.562	6.8	21.281	NO	NO	23.344	6.8	21.5	NO	NO
45.375	68	39.75	30.25 / 30	13.7	41.825	25.562	7.4	17.281	YES*	YES*	25.344	7.4	17.5	YES*	YES*
45.375	72	39.75	32.25 / 32	14.2	41.825	27.562	8.0	13.281	YES*	YES*	27.344	7.9	13.5	YES*	YES*

\*To meet egress, the minimum clear opening width must be 20", minimum clear opening height must be 24", minimum clear opening square feet must be 5.7, and minimum subfloor to sill height must be 44".

Note: If on ground floor, the square feet of clear opening need only be 5.0.

**CLEAR OPENING AND DAYLIGHT SPECIFICATIONS**

**Twin Sector Top Units**

Unit		Glass		Daylight Opening (sq.ft.)	Clear Opp. Width (in.)	DP35					DP50				
						Clear Opening		Subfloor to Top of Sill Height	Egress		Clear Opening		Subfloor to Top of Sill Height	Egress	
						Height (in.)	Area (sq.ft.)		At 5.0 sq.ft.	At 5.7 sq.ft.	Height (in.)	Area (sq.ft.)		At 5.0 sq.ft.	At 5.7 sq.ft.
25.375	56	19.75	24.25 / 24	5.9	21.825	16.992	2.6	29.281	NO	NO	16.773	2.5	29.5	NO	NO
25.375	60	19.75	26.25 / 26	6.4	21.825	18.922	2.9	25.281	NO	NO	18.703	2.8	25.5	NO	NO
25.375	68	19.75	30.25 / 30	7.2	21.825	22.922	3.5	17.281	NO	NO	22.703	3.4	17.5	NO	NO
25.375	72	19.75	32.25 / 32	7.8	21.825	24.922	3.8	13.281	NO	NO	24.703	3.7	13.5	NO	NO
29.375	56	23.75	24.25 / 24	7.1	25.825	13.642	2.4	29.281	NO	NO	13.423	2.4	29.5	NO	NO
29.375	60	23.75	26.25 / 26	7.7	25.825	15.642	2.8	25.281	NO	NO	15.423	2.8	25.5	NO	NO
29.375	68	23.75	30.25 / 30	9.0	25.825	19.642	3.5	17.281	NO	NO	19.423	3.5	17.5	NO	NO
29.375	72	23.75	32.25 / 32	9.7	25.825	21.642	3.9	13.281	NO	NO	21.423	3.8	13.5	NO	NO
33.375	56	27.75	24.25 / 24	8.3	29.825	9.221	1.9	29.281	NO	NO	9.002	1.9	29.5	NO	NO
33.375	60	27.75	26.25 / 26	9.1	29.825	11.221	2.3	25.281	NO	NO	11.002	2.3	25.5	NO	NO
33.375	68	27.75	30.25 / 30	10.6	29.825	15.221	3.2	17.281	NO	NO	15.002	3.1	17.5	NO	NO
33.375	72	27.75	32.25 / 32	11.3	29.825	17.221	3.6	13.281	NO	NO	17.002	3.5	13.5	NO	NO
37.375	56	31.75	24.25 / 24	9.5	33.825	2.979	0.7	29.281	NO	NO	2.76	0.6	29.5	NO	NO
37.375	60	31.75	26.25 / 26	10.4	33.825	4.979	1.2	25.281	NO	NO	4.76	1.1	25.5	NO	NO
37.375	68	31.75	30.25 / 30	12.1	33.825	8.979	2.1	17.281	NO	NO	8.76	2.1	17.5	NO	NO
37.375	72	31.75	32.25 / 32	13.0	33.825	10.979	2.6	13.281	NO	NO	10.76	2.5	13.5	NO	NO

**CLEAR OPENING AND DAYLIGHT SPECIFICATIONS**

**Full Radius Units**

Unit		Glass		Daylight Opening (sq.ft.)	Clear Opp- Width (in.)	DP35					DP50				
						Clear Opening		Subfloor to Top of Sill Height	Egress		Clear Opening		Subfloor to Top of Sill Height	Egress	
						Height (in.)	Area (sq.ft.)		At 5.0 sq.ft.	At 5.7 sq.ft.	Height (in.)	Area (sq.ft.)		At 5.0 sq.ft.	At 5.7 sq.ft.
29.375	56	23.75	24.25 / 24	7.0	25.825	11.455	2.1	29.281	NO	NO	11.236	2.0	29.5	NO	NO
29.375	60	23.75	26.25 / 26	7.3	25.825	13.455	2.4	25.281	NO	NO	13.236	2.4	25.5	NO	NO
29.375	64	23.75	28.25 / 28	7.7	25.825	15.455	2.8	21.281	NO	NO	15.236	2.7	21.5	NO	NO
29.375	68	23.75	30.25 / 30	8.0	25.825	17.455	3.1	17.281	NO	NO	17.236	3.1	17.5	NO	NO
29.375	72	23.75	32.25 / 32	8.3	25.825	19.455	3.5	13.281	NO	NO	19.236	3.4	13.5	NO	NO
31.375	56	25.75	24.25 / 24	7.6	27.825	10.455	2.0	29.281	NO	NO	10.236	2.0	29.5	NO	NO
31.375	60	25.75	26.25 / 26	7.9	27.825	12.455	2.4	25.281	NO	NO	12.236	2.4	25.5	NO	NO
31.375	64	25.75	28.25 / 28	8.3	27.825	14.455	2.8	21.281	NO	NO	14.236	2.8	21.5	NO	NO
31.375	68	25.75	30.25 / 30	8.6	27.825	16.455	3.2	17.281	NO	NO	16.236	3.1	17.5	NO	NO
31.375	72	25.75	32.25 / 32	9.0	27.825	18.455	3.6	13.281	NO	NO	18.236	3.5	13.5	NO	NO
33.375	56	27.75	24.25 / 24	8.2	29.825	9.455	2.0	29.281	NO	NO	9.236	1.9	29.5	NO	NO
33.375	60	27.75	26.25 / 26	8.5	29.825	11.455	2.4	25.281	NO	NO	11.236	2.3	25.5	NO	NO
33.375	64	27.75	28.25 / 28	8.9	29.825	13.455	2.8	21.281	NO	NO	13.236	2.7	21.5	NO	NO
33.375	68	27.75	30.25 / 30	9.3	29.825	15.455	3.2	17.281	NO	NO	15.236	3.2	17.5	NO	NO
33.375	72	27.75	32.25 / 32	9.6	29.825	17.455	3.6	13.281	NO	NO	17.236	3.6	13.5	NO	NO
37.375	56	31.75	24.25 / 24	9.3	33.825	7.455	1.8	29.281	NO	NO	7.236	1.7	29.5	NO	NO
37.375	60	31.75	26.25 / 26	9.7	33.825	9.455	2.2	25.281	NO	NO	9.236	2.2	25.5	NO	NO
37.375	64	31.75	28.25 / 28	10.1	33.825	11.455	2.7	21.281	NO	NO	11.236	2.6	21.5	NO	NO
37.375	68	31.75	30.25 / 30	10.5	33.825	13.455	3.2	17.281	NO	NO	13.236	3.1	17.5	NO	NO
37.375	72	31.75	32.25 / 32	11.0	33.825	15.455	3.6	13.281	NO	NO	15.236	3.6	13.5	NO	NO
41.375	60	35.75	26.25 / 26	10.8	37.825	7.455	2.0	25.281	NO	NO	7.236	1.9	25.5	NO	NO
41.375	64	35.75	28.25 / 28	11.3	37.825	9.455	2.5	21.281	NO	NO	9.236	2.4	21.5	NO	NO
41.375	68	35.75	30.25 / 30	11.8	37.825	11.455	3.0	17.281	NO	NO	11.236	3.0	17.5	NO	NO
41.375	72	35.75	32.25 / 32	12.3	37.825	13.455	3.5	13.281	NO	NO	13.236	3.5	13.5	NO	NO
45.375	64	39.75	28.25 / 28	12.5	41.825	7.455	2.2	21.281	NO	NO	7.236	2.1	21.5	NO	NO
45.375	68	39.75	30.25 / 30	13.0	41.825	9.455	2.7	17.281	NO	NO	9.236	2.7	17.5	NO	NO
45.375	72	39.75	32.25 / 32	13.6	41.825	11.455	3.3	13.281	NO	NO	11.236	3.3	13.5	NO	NO

\*To meet egress, the minimum clear opening width must be 20", minimum clear opening height must be 24", minimum clear opening square feet must be 5.7, and minimum subfloor to sill height must be 44".

Note: If on ground floor, the square feet of clear opening need only be 5.0.



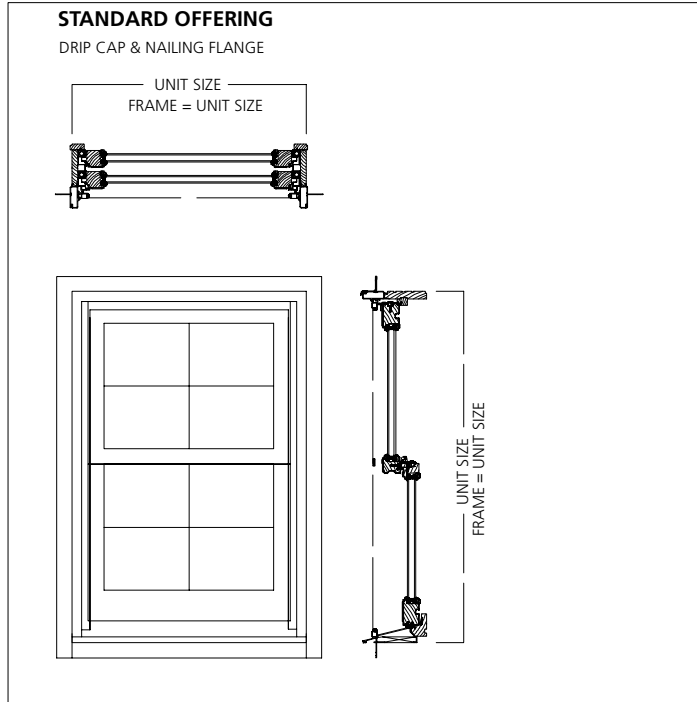
**CLEAR OPENING AND DAYLIGHT SPECIFICATIONS**

**Transom Units**

Transom Call Size	Daylight Opening		
	Width (in.)	Height (in.)	Area (sq.ft.)
21 15	14.683	7.192	0.7
21 18	14.683	10.192	1.0
21 24	14.683	16.192	1.7
25 15	18.683	7.192	0.9
25 18	18.683	10.192	1.3
25 24	18.683	16.192	2.1
29 15	22.683	7.192	1.1
29 18	22.683	10.192	1.6
29 24	22.683	16.192	2.6
31 15	24.683	7.192	1.2
31 18	24.683	10.192	1.7
31 24	24.683	16.192	2.8

Transom Call Size	Daylight Opening		
	Width (in.)	Height (in.)	Area (sq.ft.)
33 15	26.683	7.192	1.3
33 18	26.683	10.192	1.9
33 24	26.683	16.192	3.0
37 15	30.683	7.192	1.5
37 18	30.683	10.192	2.2
37 24	30.683	16.192	3.5
41 15	34.683	7.192	1.7
41 18	34.683	10.192	2.5
41 24	34.683	16.192	3.9
45 15	38.683	7.192	1.9
45 18	38.683	10.192	2.7
45 24	38.683	16.192	4.3

**UNIT SIZING, ROUGH OPENINGS  
& MASONRY OPENINGS  
DOUBLE-HUNG**

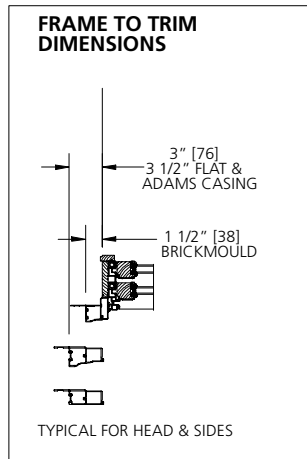
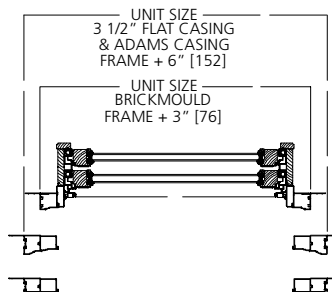
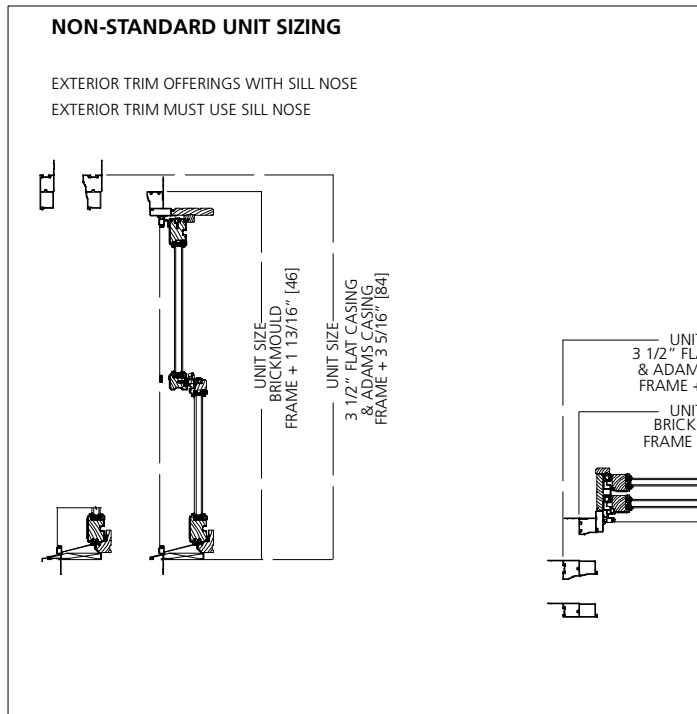
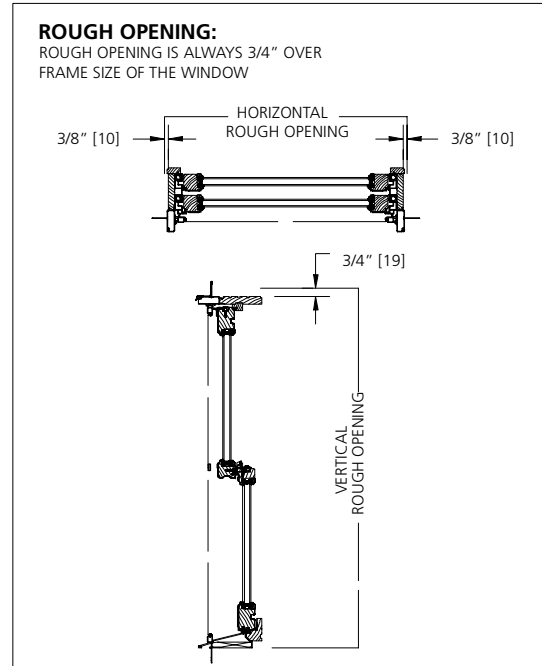


**GENERAL NOTES:**

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

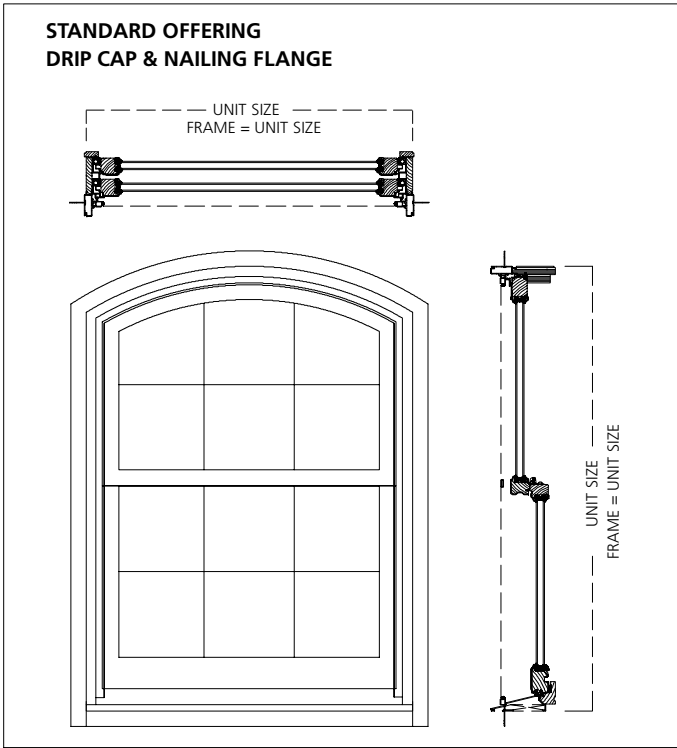
UNIT SIZE IS ALWAYS THE  
EXTREME SIZE OF THE WINDOW  
WITH OR WITHOUT TRIM  
(DRIP CAP & NAILING FLANGE ARE  
NOT ADDED TO ANY UNIT SIZING)

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



**UNIT SIZING, ROUGH OPENINGS  
& MASONRY OPENINGS  
SECTOR TOP SINGLE-HUNG**

**STANDARD OFFERING  
DRIP CAP & NAILING FLANGE**



**GENERAL NOTES:**

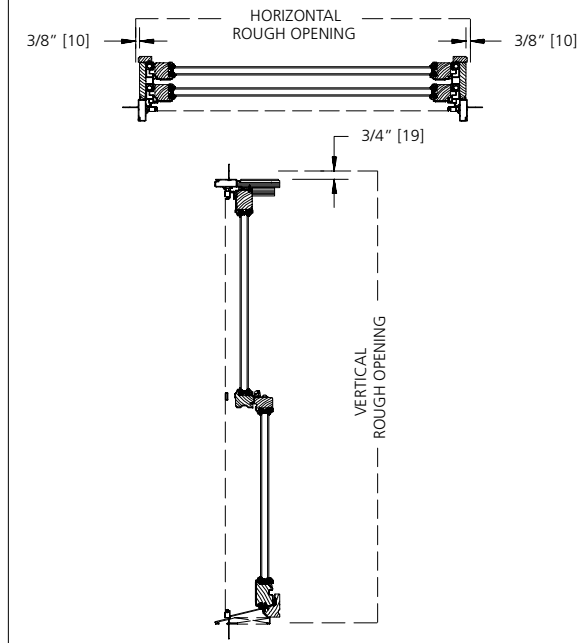
UNITS WITH NO TRIM AND SILL NOSE:  
UNIT SIZE = FRAME SIZE

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

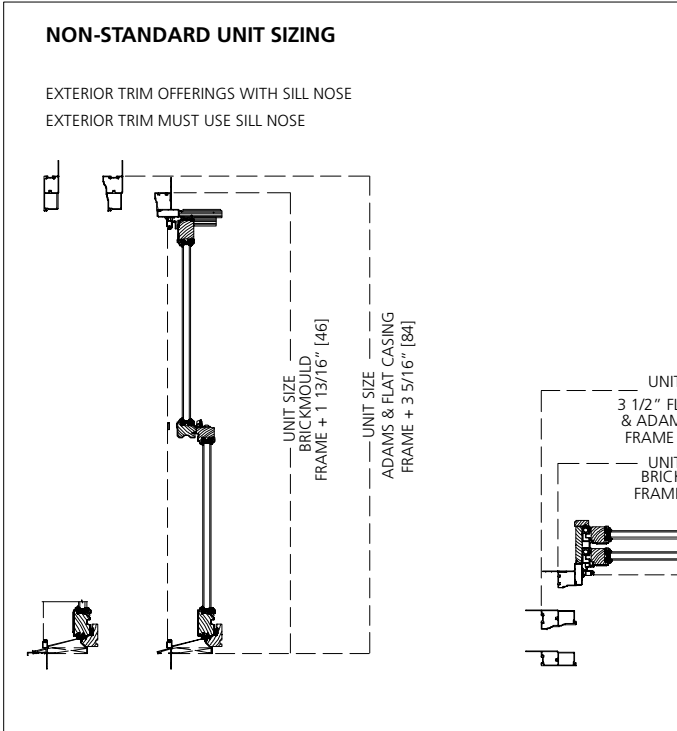
**ROUGH OPENING:**

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

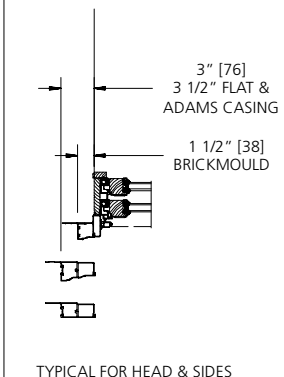


**NON-STANDARD UNIT SIZING**

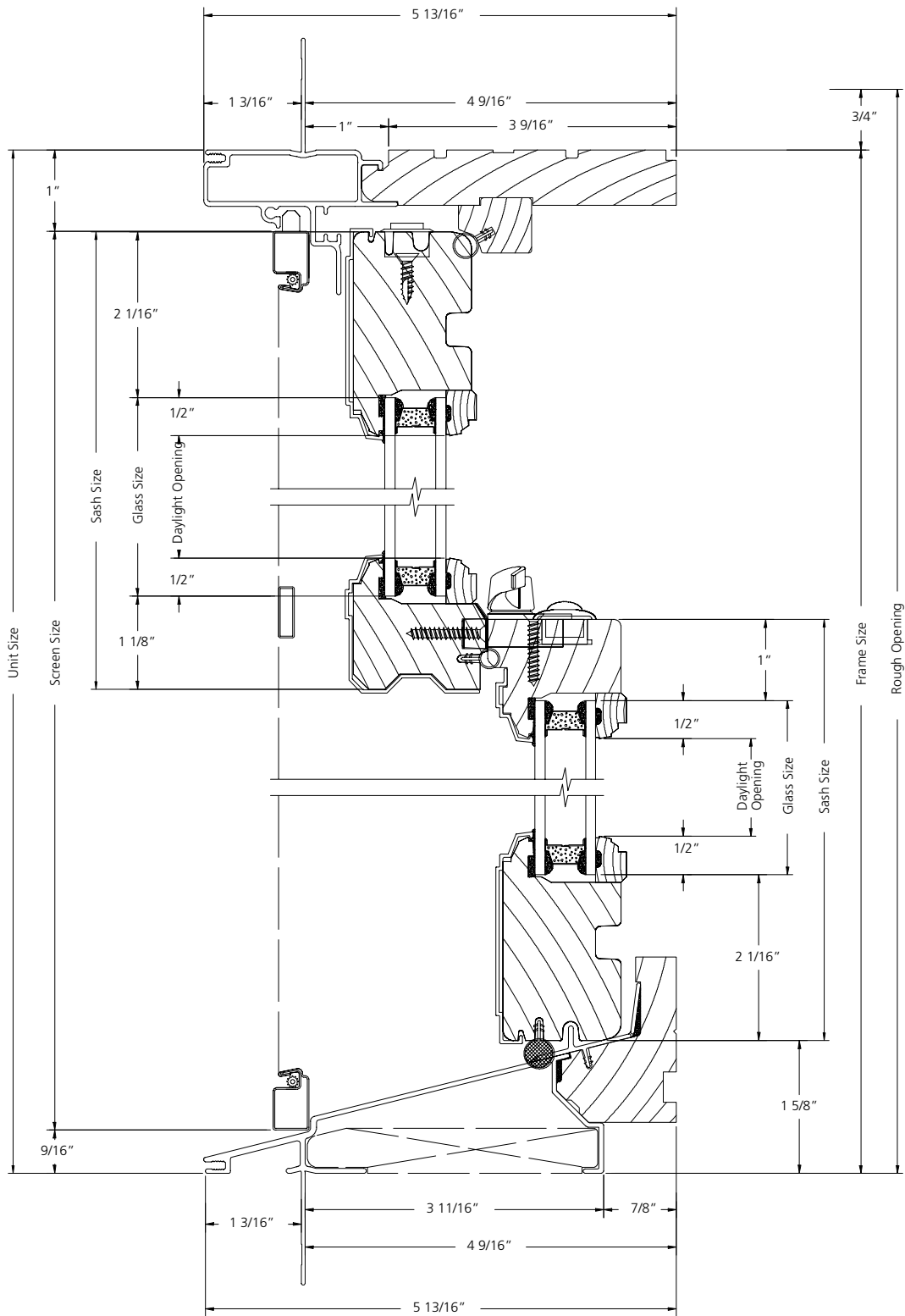
EXTERIOR TRIM OFFERINGS WITH SILL NOSE  
EXTERIOR TRIM MUST USE SILL NOSE



**FRAME TO TRIM  
DIMENSIONS**



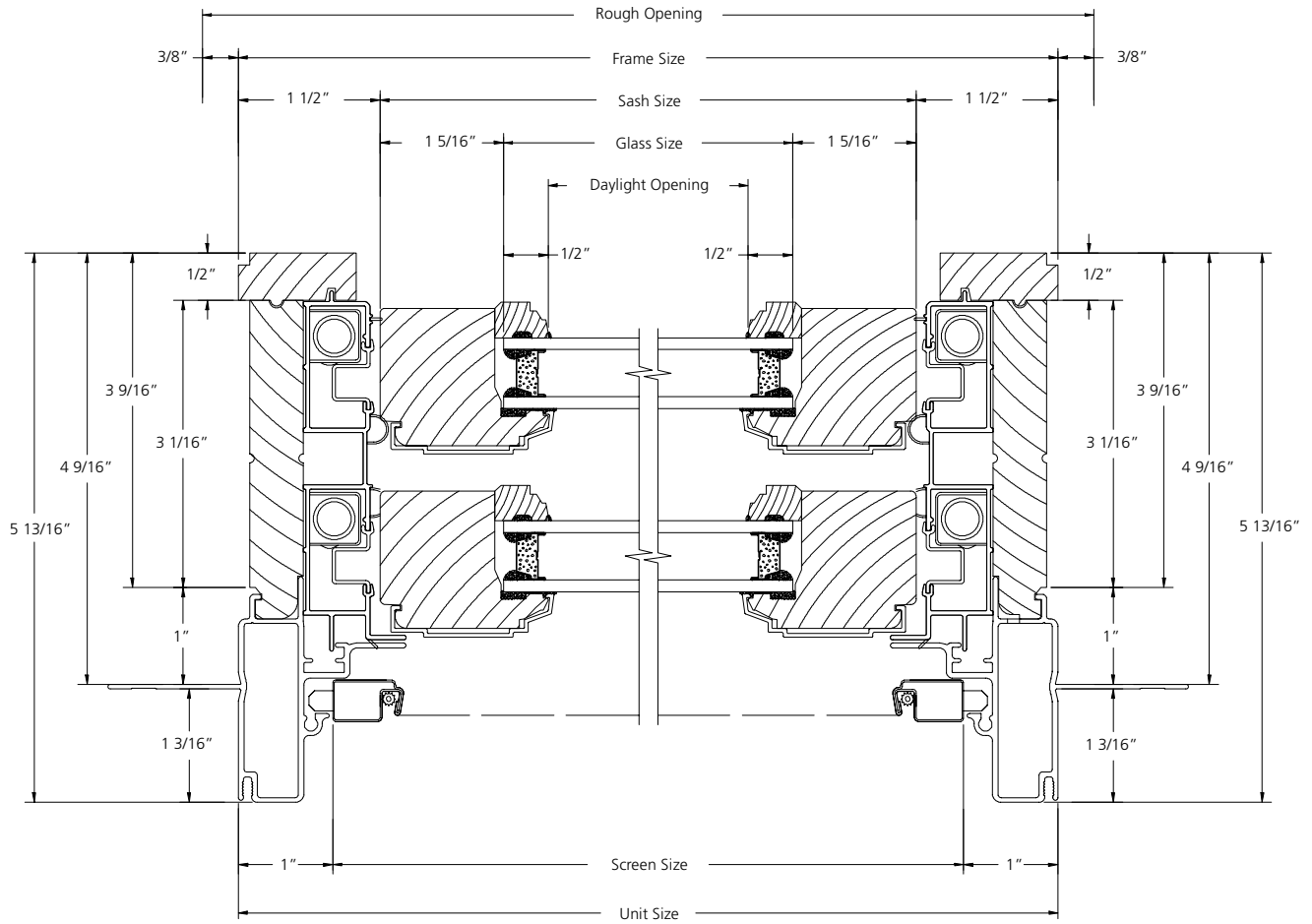
**1-WIDE UNIT**



**VERTICAL SECTION**

SCALE: 6" = 1'

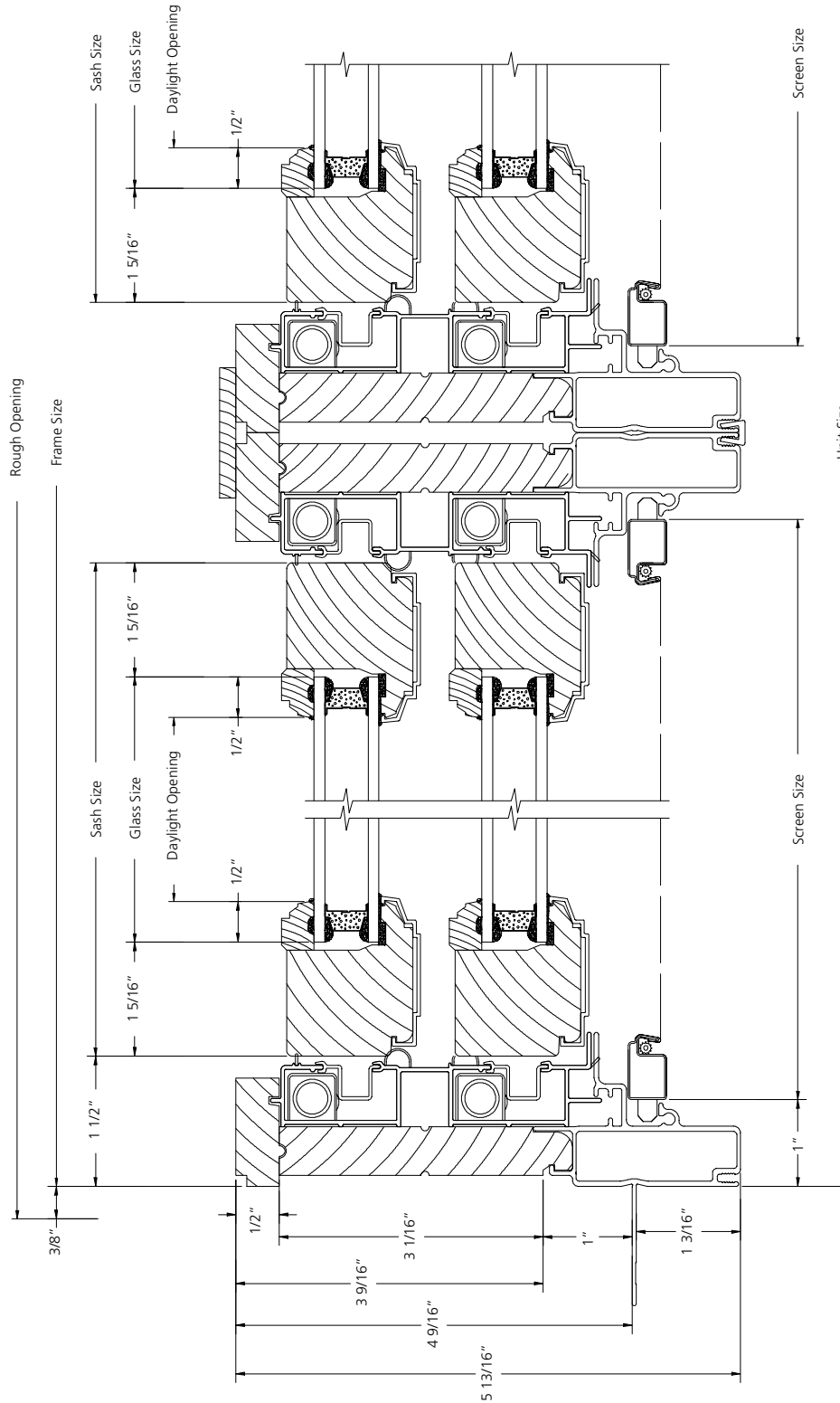
**1-WIDE UNIT**



**HORIZONTAL SECTION**

SCALE: 6" = 1'

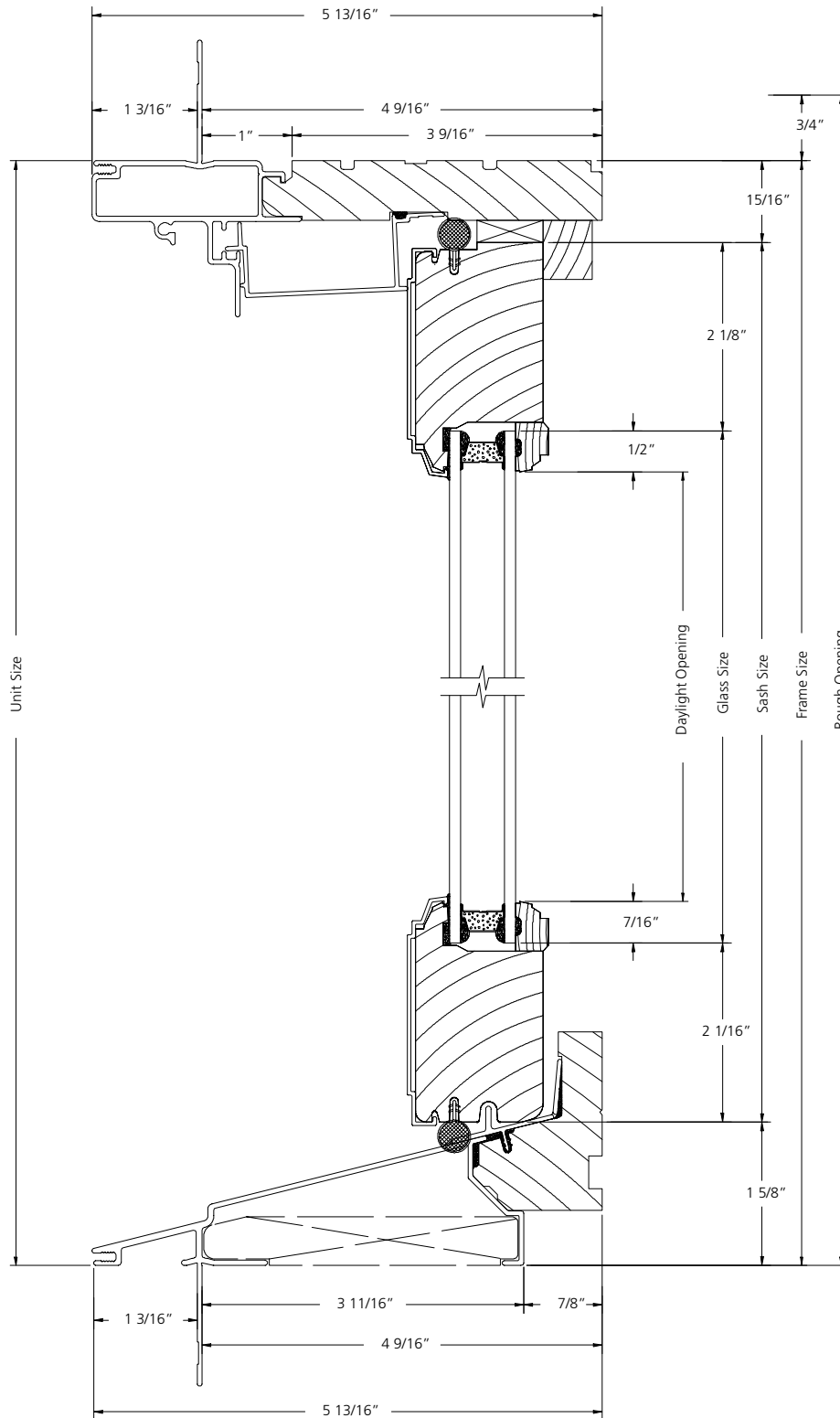
**2-WIDE UNIT**



**HORIZONTAL SECTION**

SCALE: 6" = 1'

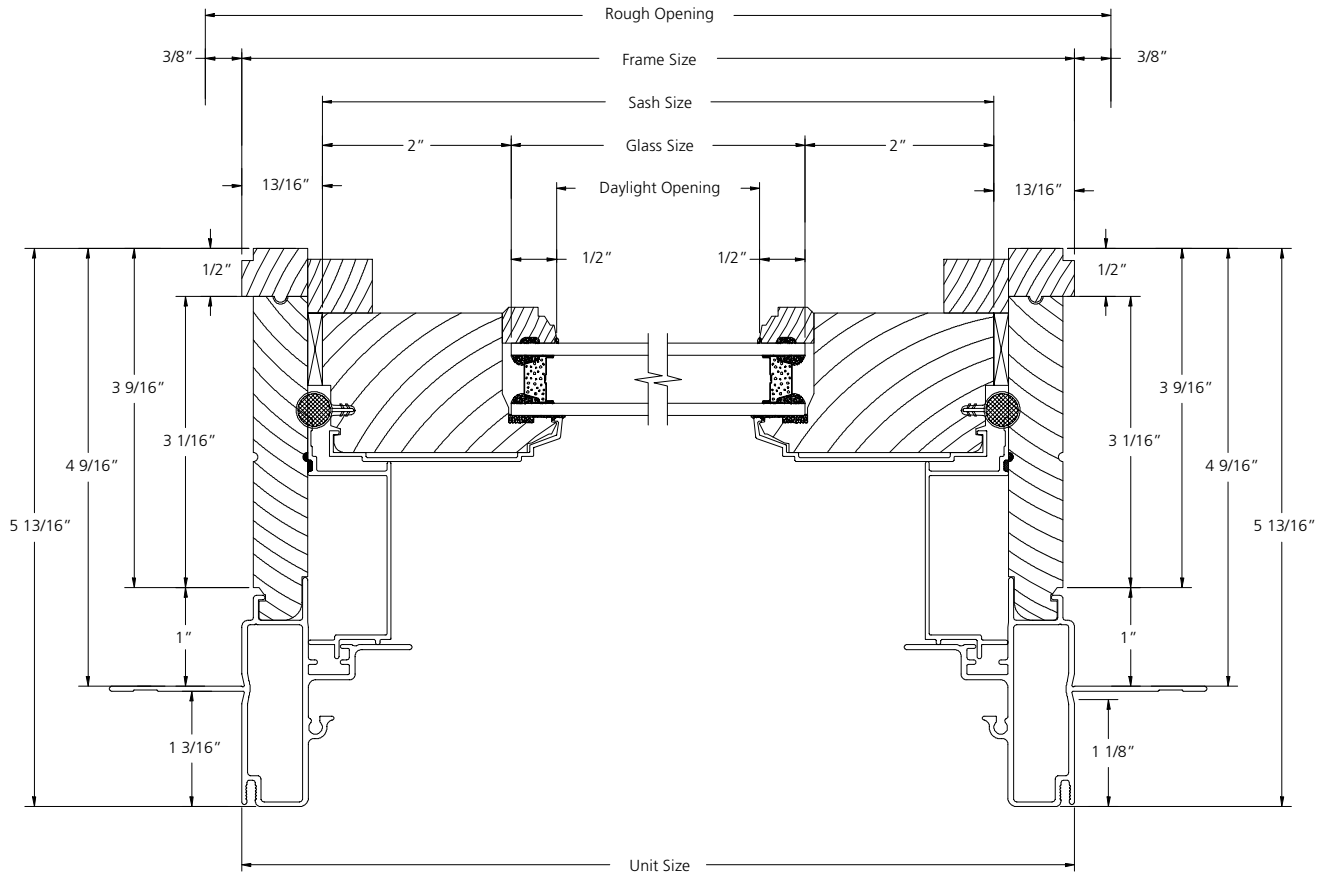
**PICTURE UNIT**



**VERTICAL SECTION**

SCALE: 6" = 1'

**PICTURE UNIT**

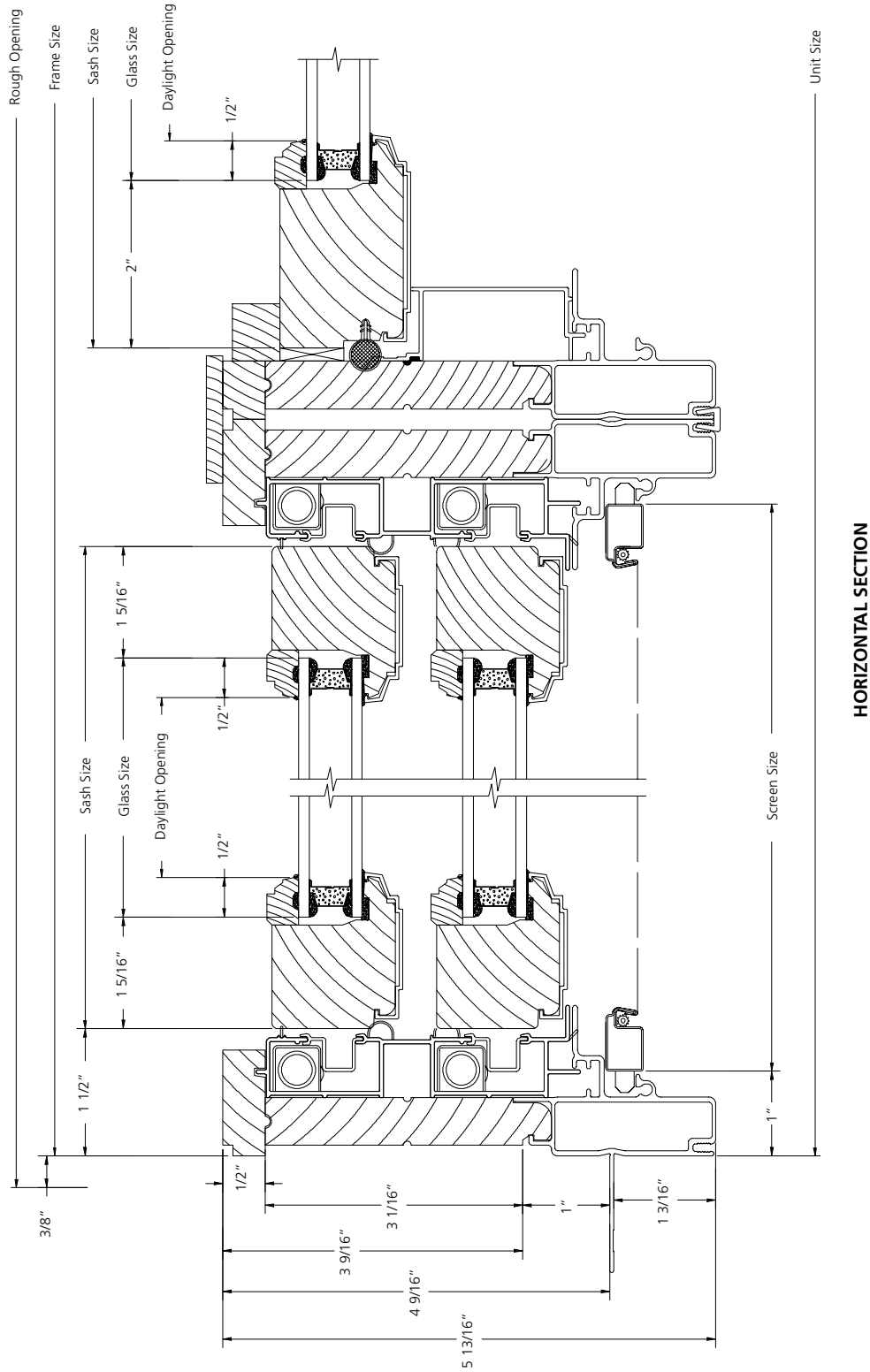


**HORIZONTAL SECTION**

SCALE: 6" = 1'

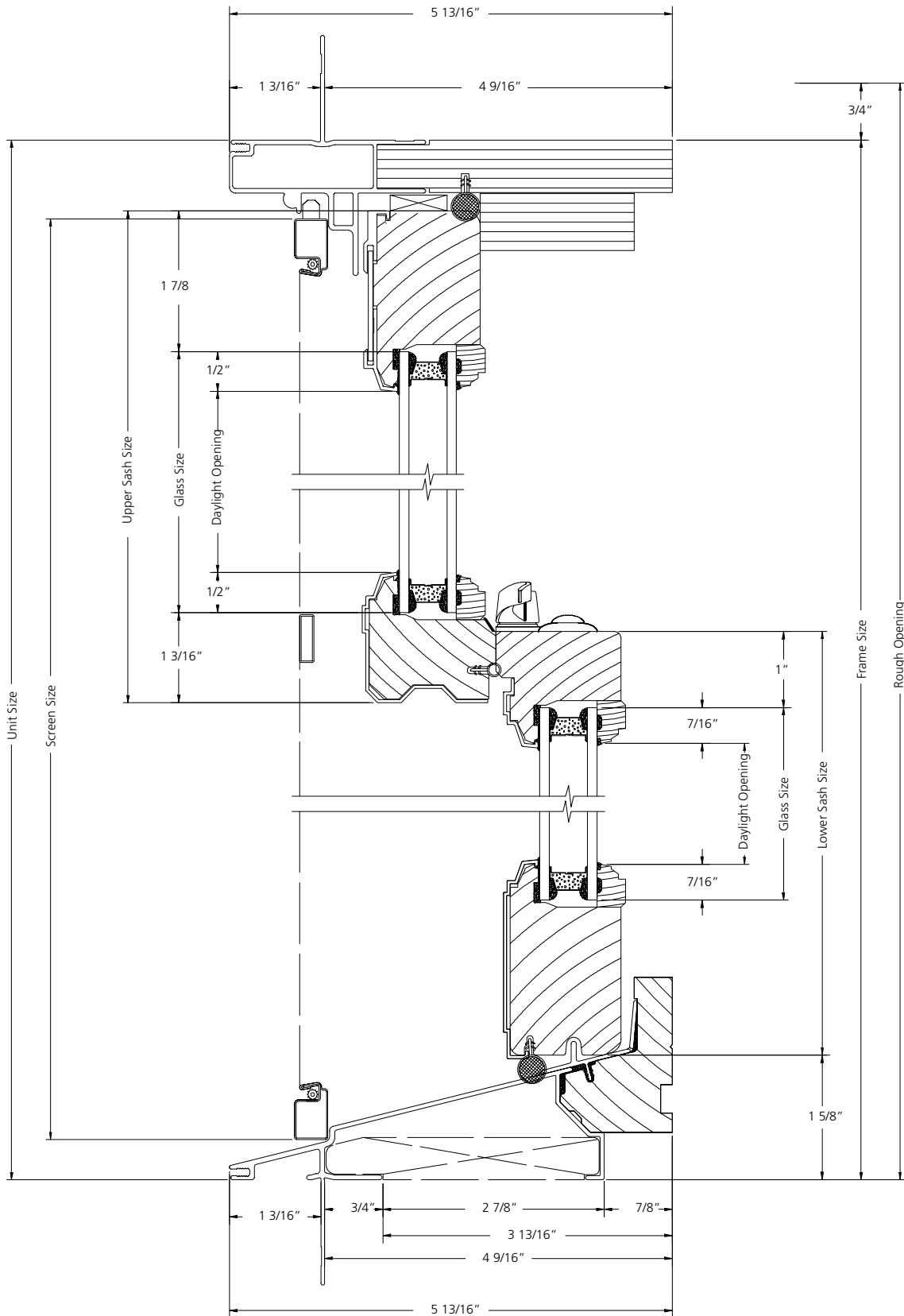


**PICTURE UNIT WITH FLANKER**



SCALE: 6" = 1'

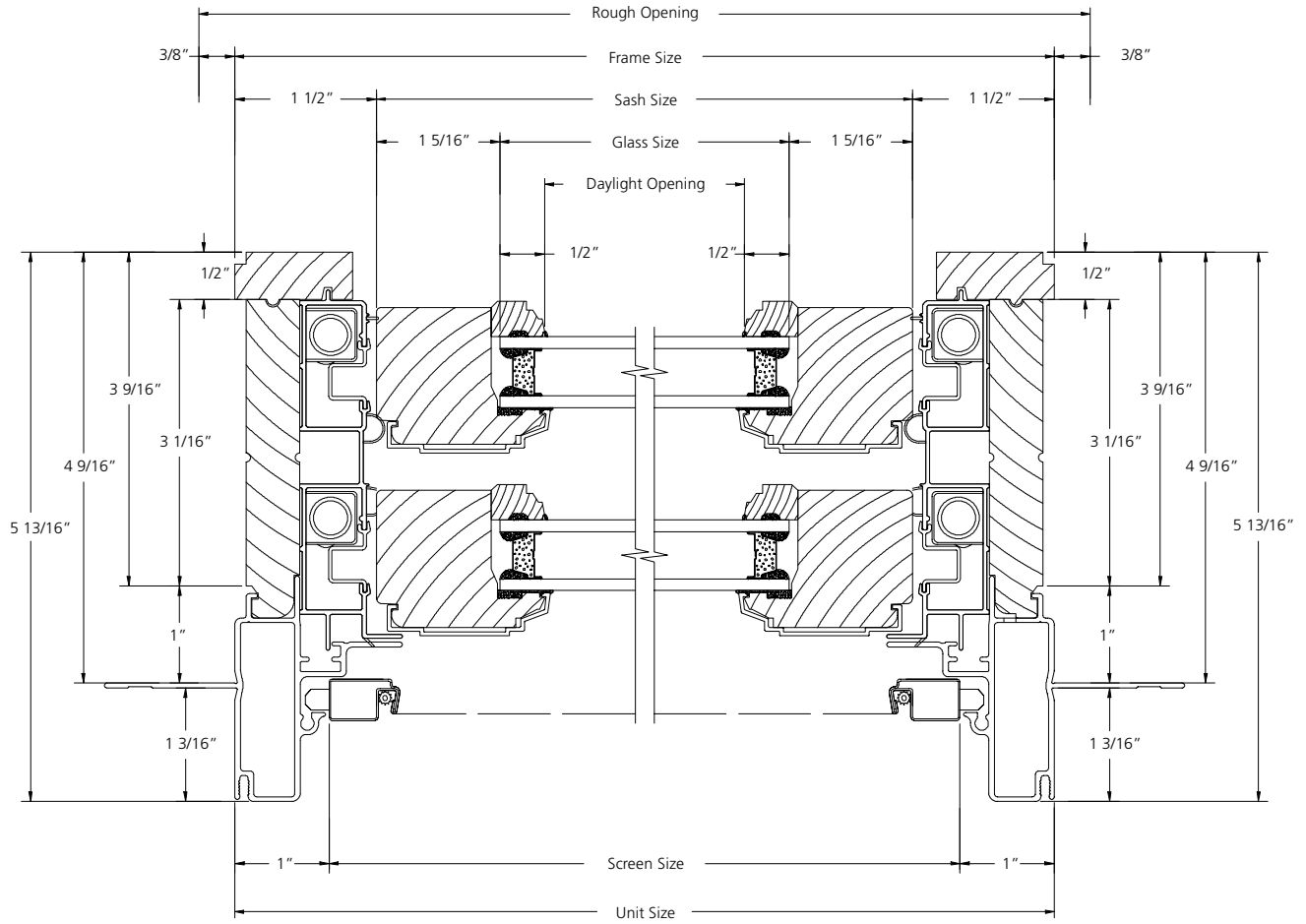
**SECTOR TOP UNIT**



**VERTICAL SECTION**

SCALE: 6" = 1'

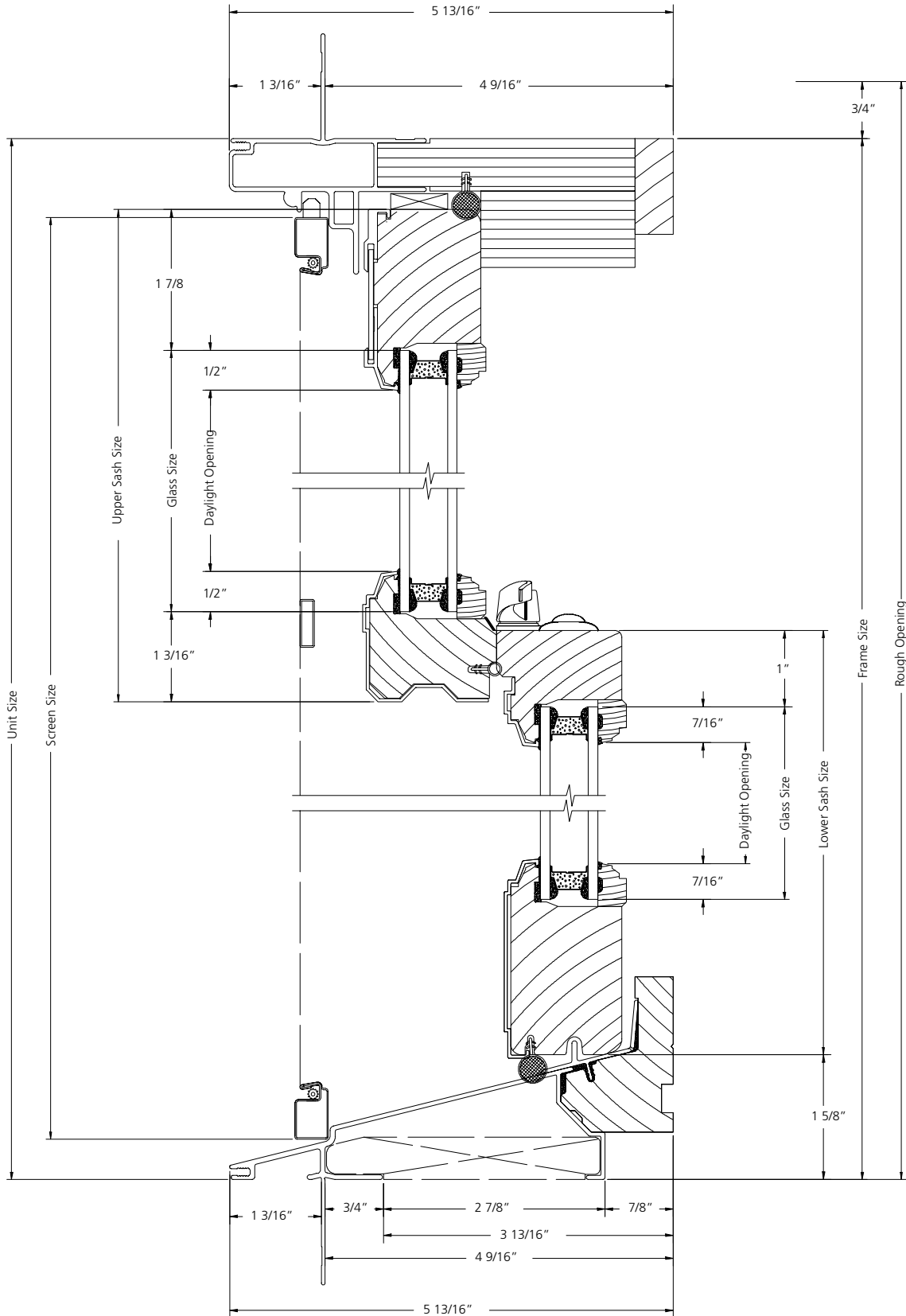
**SECTOR TOP UNIT**



**HORIZONTAL SECTION**

SCALE: 6" = 1'

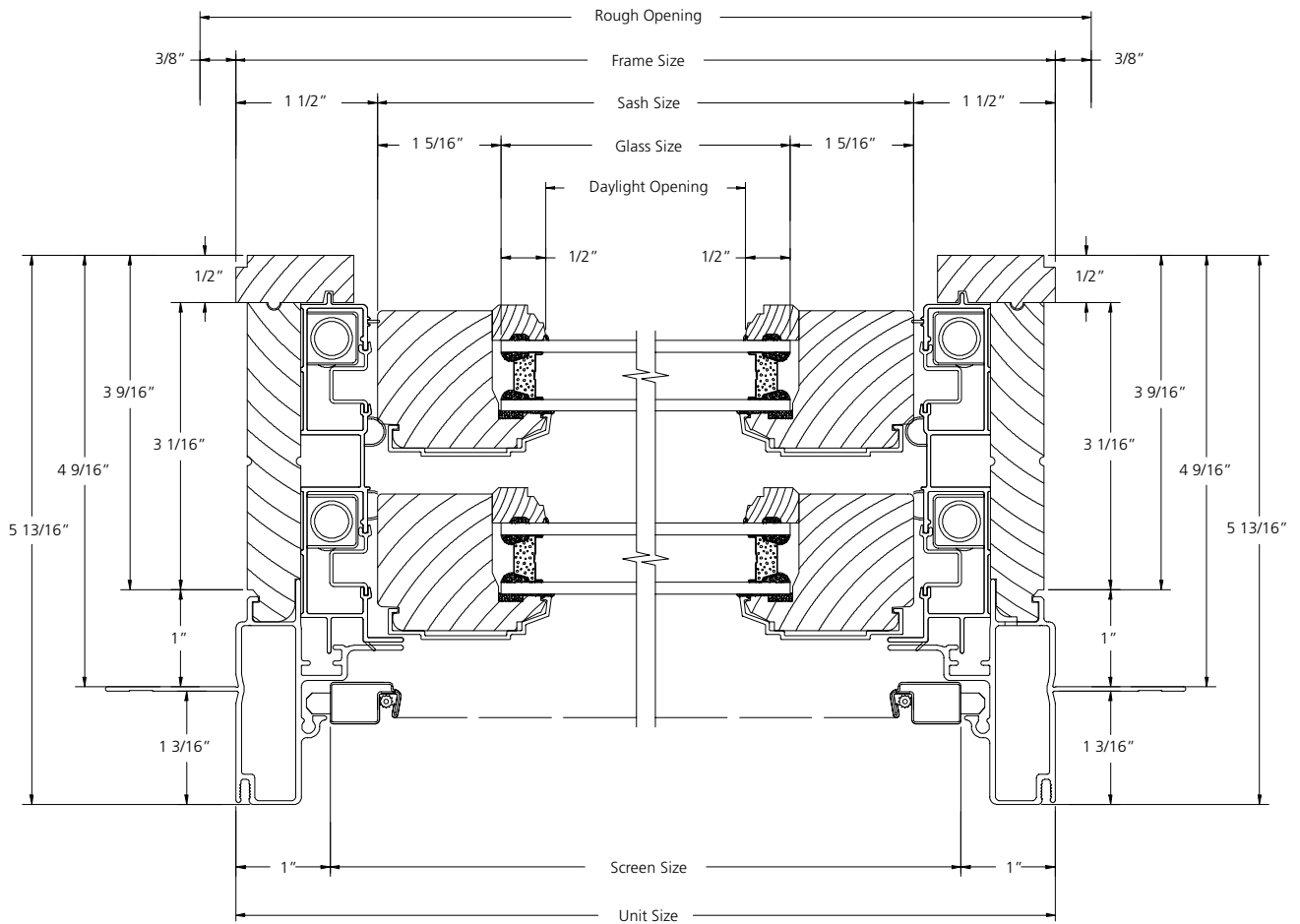
**FULL RADIUS UNIT**



**VERTICAL SECTION**

SCALE: 6" = 1'

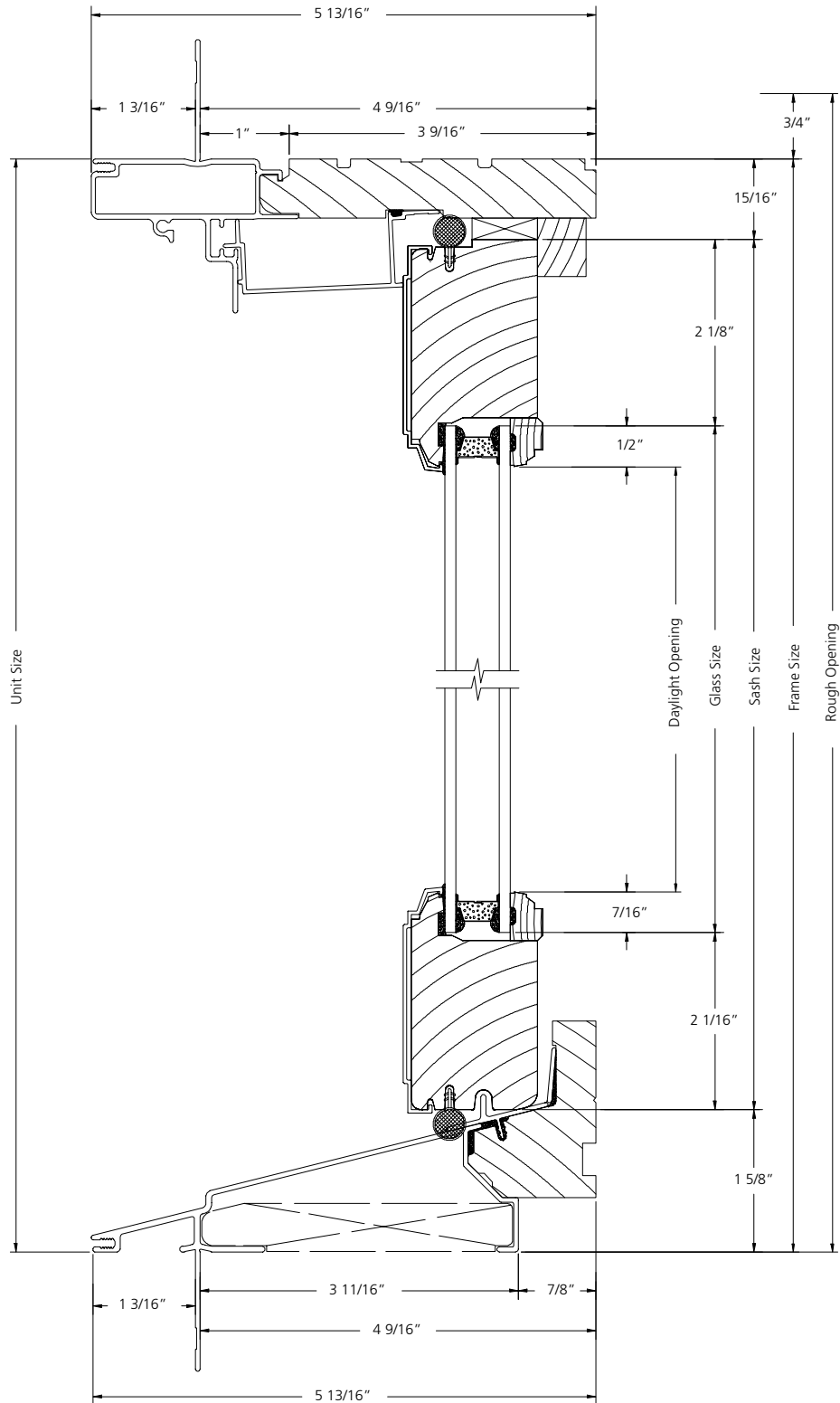
**FULL RADIUS UNIT**



**HORIZONTAL SECTION**

SCALE: 6" = 1'

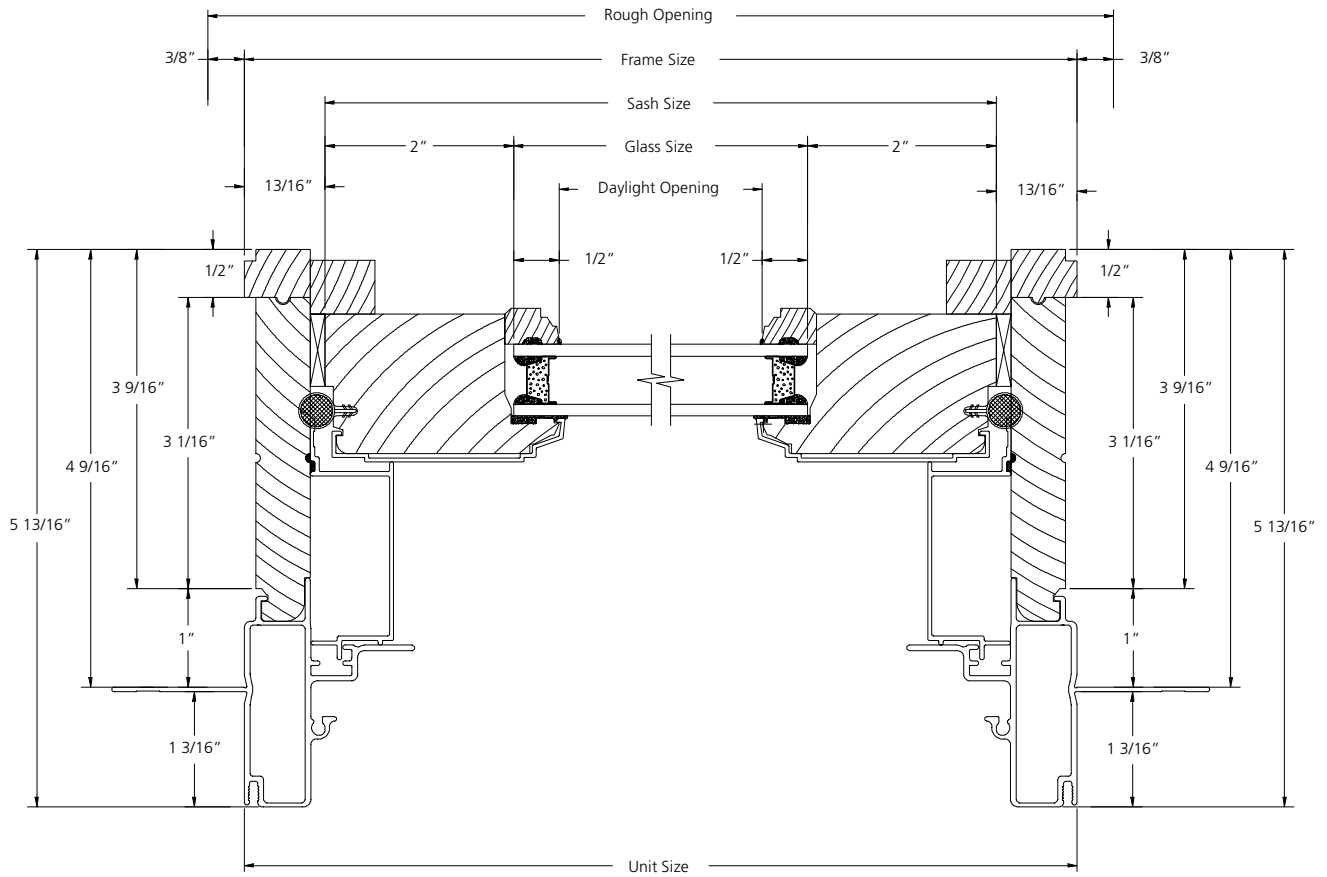
**TRANSOM UNIT**



**VERTICAL SECTION**

SCALE: 6" = 1'

**TRANSOM UNIT**

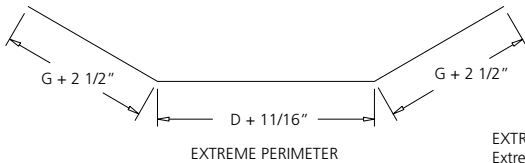
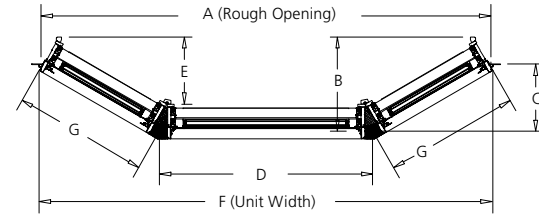


**HORIZONTAL SECTION**

SCALE: 6" = 1'

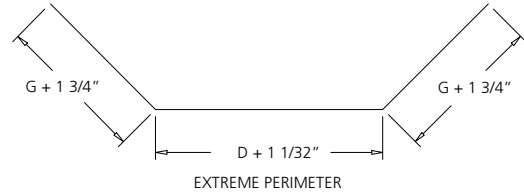
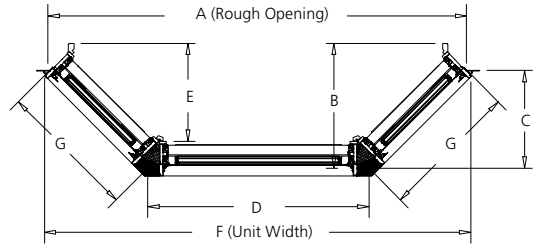
**BAY WINDOW HORIZONTAL SPECIFICATION TABLES**

**30° ANGLE BAY**



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

**45° ANGLE BAY**



**EXTREME PERIMETER**

30° BAY								
Flanker Width (Call Size)	Center Width (Call Size)	A Rough Opening	F Overall Unit Width	B Overall Projection*	C Projection Exterior Wall	E Seating Depth*	D Outside Mull to Mull	G Outside Mull to Unit
21	21	63 11/16	64 5/16	15 7/8	11 5/16	11 5/16	23 13/16	22 5/8
21	41	83 11/16	84 5/16	15 7/8	11 5/16	11 5/16	43 13/16	22 5/8
21	49	91 11/16	92 5/16	15 7/8	11 5/16	11 5/16	51 13/16	22 5/8
21	53	95 11/16	96 5/16	15 7/8	11 5/16	11 5/16	55 13/16	22 5/8
21	61	103 11/16	104 5/16	15 7/8	11 5/16	11 5/16	63 13/16	22 5/8
21	69	111 11/16	112 5/16	15 7/8	11 5/16	11 5/16	71 13/16	22 5/8
25	25	74 5/8	75 1/4	17 7/8	13 5/16	13 5/16	27 13/16	26 5/8
25	41	90 5/8	91 1/4	17 7/8	13 5/16	13 5/16	43 13/16	26 5/8
25	49	98 5/8	99 1/4	17 7/8	13 5/16	13 5/16	51 13/16	26 5/8
25	53	102 5/8	103 1/4	17 7/8	13 5/16	13 5/16	55 13/16	26 5/8
25	61	110 5/8	111 1/4	17 7/8	13 5/16	13 5/16	63 13/16	26 5/8
25	69	118 5/8	119 1/4	17 7/8	13 5/16	13 5/16	71 13/16	26 5/8
29	29	85 9/16	86 3/16	19 7/8	15 5/16	15 5/16	31 13/16	30 5/8
29	41	97 9/16	98 3/16	19 7/8	15 5/16	15 5/16	43 13/16	30 5/8
29	49	105 9/16	106 3/16	19 7/8	15 5/16	15 5/16	51 13/16	30 5/8
29	53	109 9/16	110 3/16	19 7/8	15 5/16	15 5/16	55 13/16	30 5/8
29	61	117 9/16	118 3/16	19 7/8	15 5/16	15 5/16	63 13/16	30 5/8
29	69	125 9/16	126 3/16	19 7/8	15 5/16	15 5/16	71 13/16	30 5/8

45° BAY								
Flanker Width (Call Size)	Center Width (Call Size)	A Rough Opening	F Overall Unit Width	B Overall Projection*	C Projection Exterior Wall	E Seating Depth*	D Outside Mull to Mull	G Outside Mull to Unit
21	21	58 13/16	59 15/16	21	16 7/16	16 7/16	25 1/8	23 1/4
21	41	78 13/16	79 15/16	21	16 7/16	16 7/16	45 1/8	23 1/4
21	49	86 13/16	87 15/16	21	16 7/16	16 7/16	53 1/8	23 1/4
21	53	90 13/16	91 15/16	21	16 7/16	16 7/16	57 1/8	23 1/4
21	61	98 13/16	99 15/16	21	16 7/16	16 7/16	65 1/8	23 1/4
21	69	106 13/16	107 15/16	21	16 7/16	16 7/16	73 1/8	23 1/4
25	25	68 1/2	69 9/16	24	19 1/4	19 1/4	29 1/8	27 1/4
25	41	84 1/2	85 9/16	24	19 1/4	19 1/4	45 1/8	29 1/4
25	49	92 1/2	93 9/16	24	19 1/4	19 1/4	53 1/8	29 1/4
25	53	96 1/2	97 9/16	24	19 1/4	19 1/4	57 1/8	29 1/4
25	61	104 1/2	105 9/16	24	19 1/4	19 1/4	65 1/8	29 1/4
25	69	112 1/2	113 9/16	24	19 1/4	19 1/4	73 1/8	29 1/4
29	29	78	79 1/4	27	22 1/8	22 1/8	33 1/8	31 1/4
29	41	90	91 1/4	27	22 1/8	22 1/8	45 1/8	31 1/4
29	49	98	99 1/4	27	22 1/8	22 1/8	53 1/8	31 1/4
29	53	102	103 1/4	27	22 1/8	22 1/8	57 1/8	31 1/4
29	61	110	111 1/4	27	22 1/8	22 1/8	65 1/8	31 1/4
29	69	118	119 1/4	27	22 1/8	22 1/8	73 1/8	31 1/4

The tables above reflect a 4 9/16" wall application. To convert to a 6 9/16" wall application, add 2" to the figures in the columns which shown an asterisk (\*), B and E. ROUGH OPENING data reflects FRAME + 3/4".



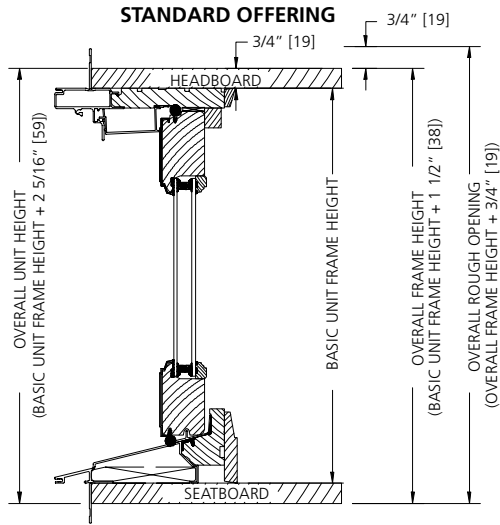
**BAY WINDOW ROUGH OPENINGS**

**BAY WINDOW TRIM OPTIONS**

The standard offerings for clad double hung bay windows is 'frame only' and brickmould and sillnose. Other trim options subject to approval.

**VERTICAL ROUGH OPENING**

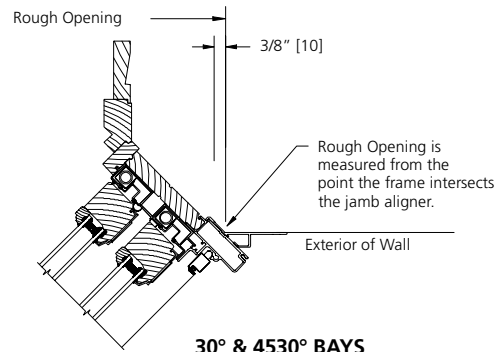
Rough Opening typical for all Units



Vertical Masonry Opening will be 1/2" [13] larger than the Overall Unit Height.

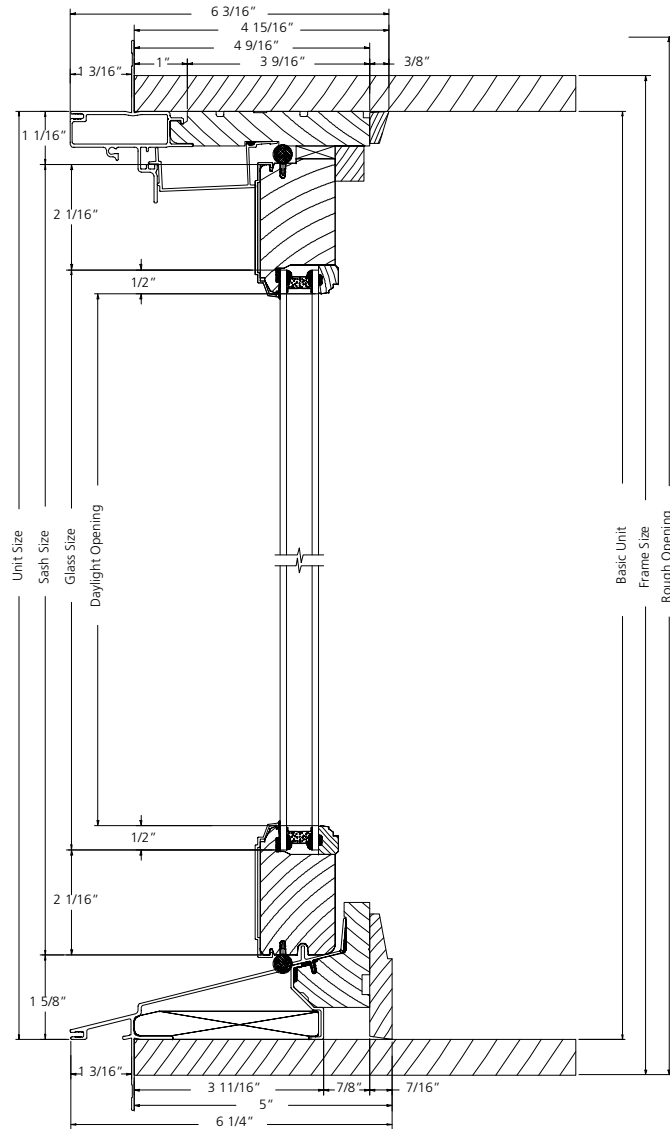
**HORIZONTAL ROUGH OPENING**

Rough Opening typical for all Units



**30° & 4530° BAYS**  
45° Bay Shown  
without trim

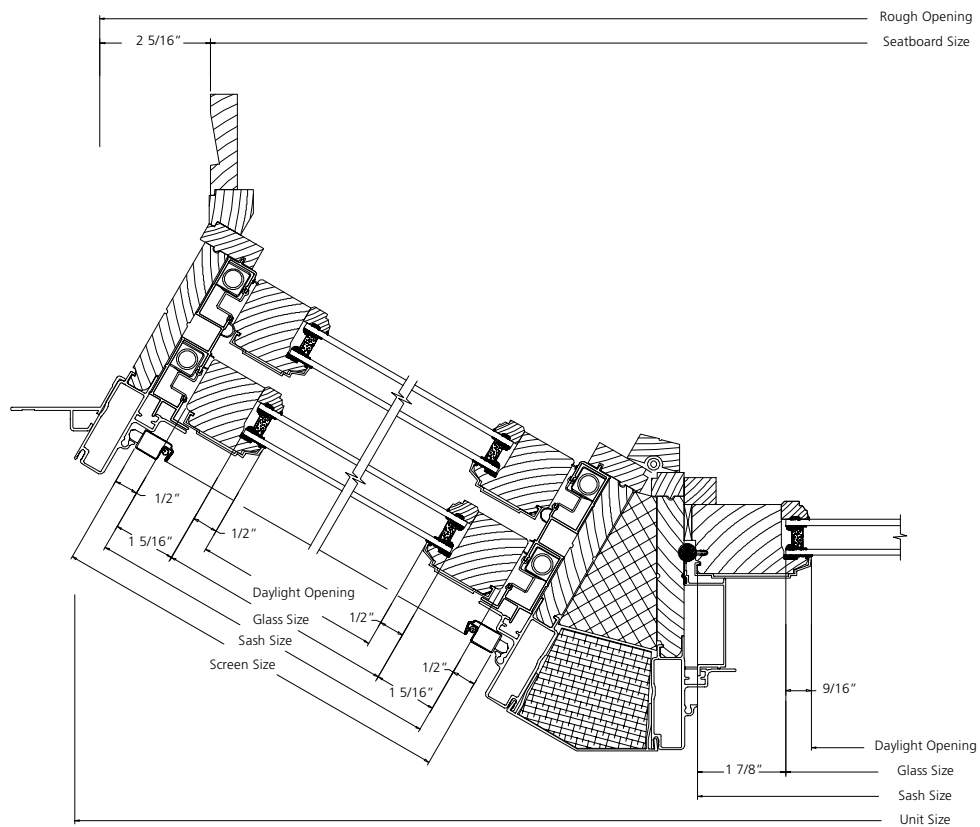
**30° ANGLE BAY UNIT**  
**NO TRIM**



**VERTICAL SECTION**

SCALE: 3" = 1'

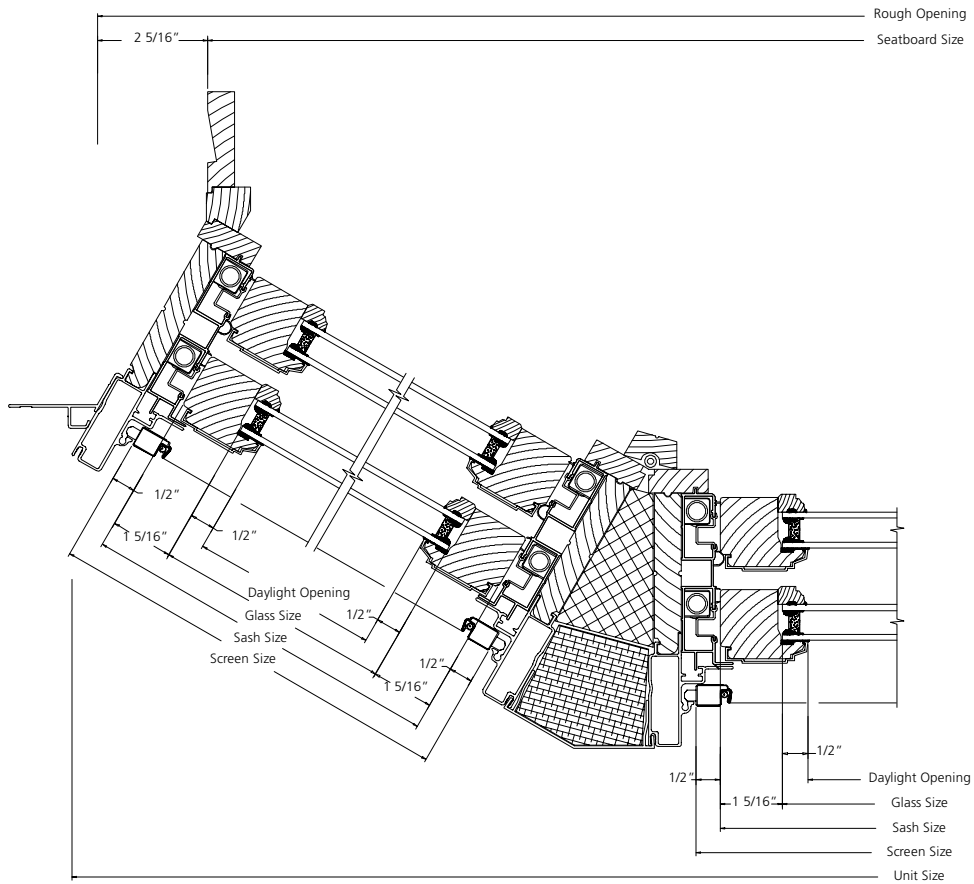
**30° ANGLE BAY UNIT  
WITH STATIONARY CENTER**



**HORIZONTAL SECTION**

SCALE: 3" = 1'

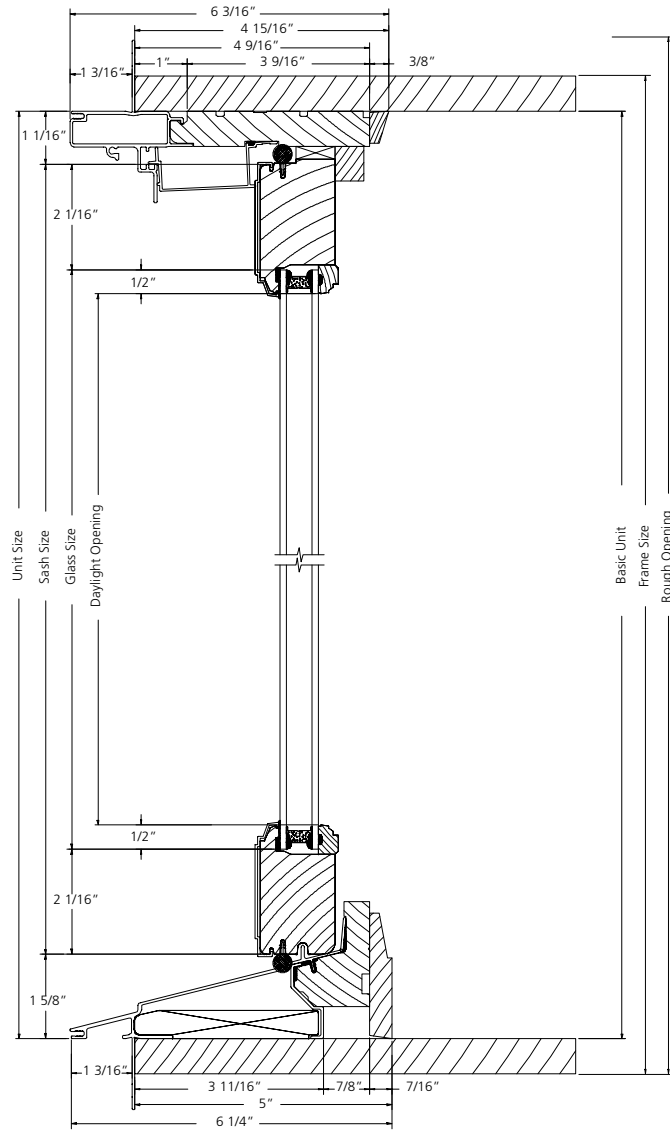
**30° ANGLE BAY UNIT  
WITH OPERABLE CENTER**



**HORIZONTAL SECTION**

SCALE: 3" = 1'

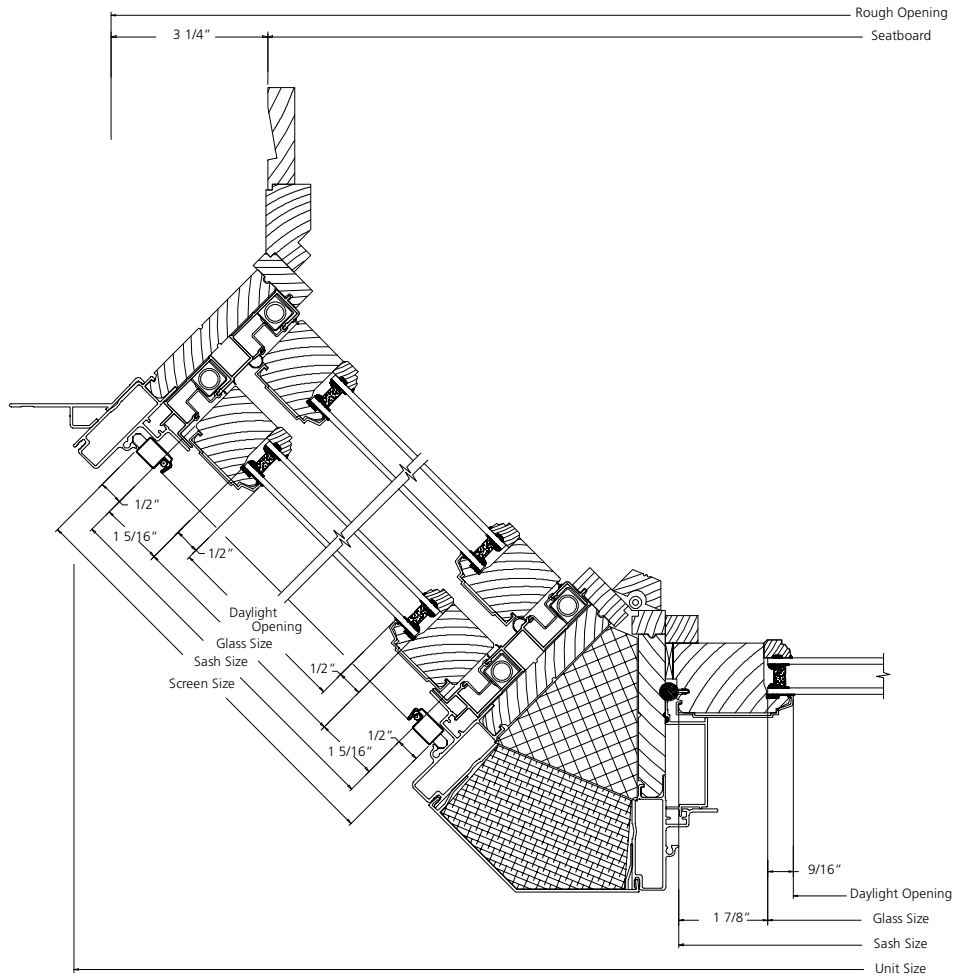
**45° ANGLE BAY UNIT**  
**NO TRIM**



**VERTICAL SECTION**

SCALE: 3" = 1'

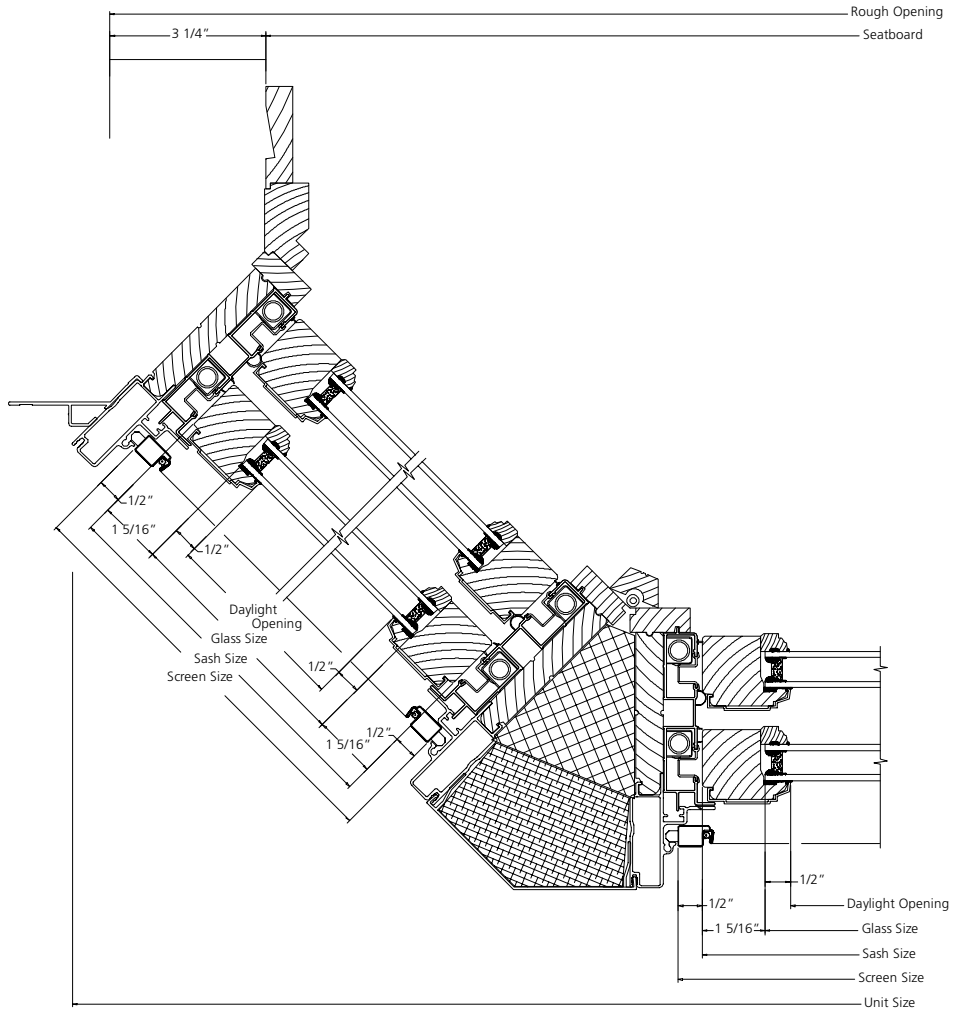
**45° ANGLE BAY UNIT  
WITH STATIONARY CENTER**



**HORIZONTAL SECTION**

SCALE: 3" = 1'

**45° ANGLE BAY UNIT  
WITH OPERABLE CENTER**



**HORIZONTAL SECTION**

SCALE: 3" = 1'