

# ULTIMATE

MARVIN SIGNATURE® COLLECTION

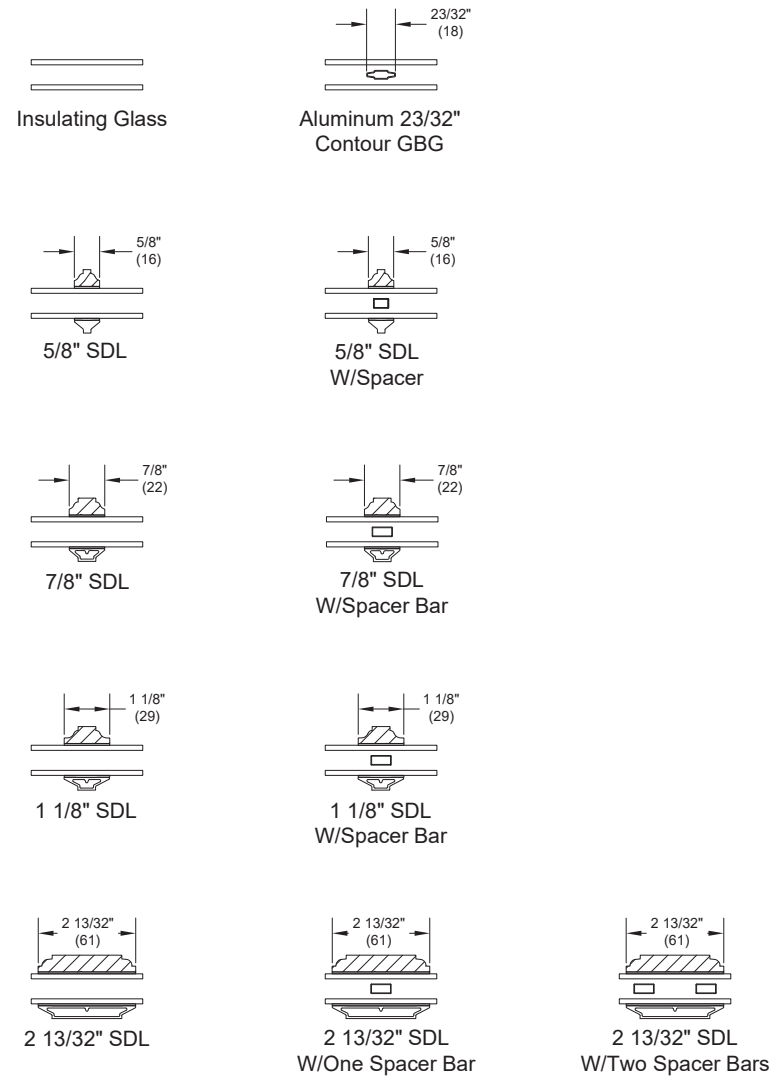


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**PRODUCT OPTIONS**

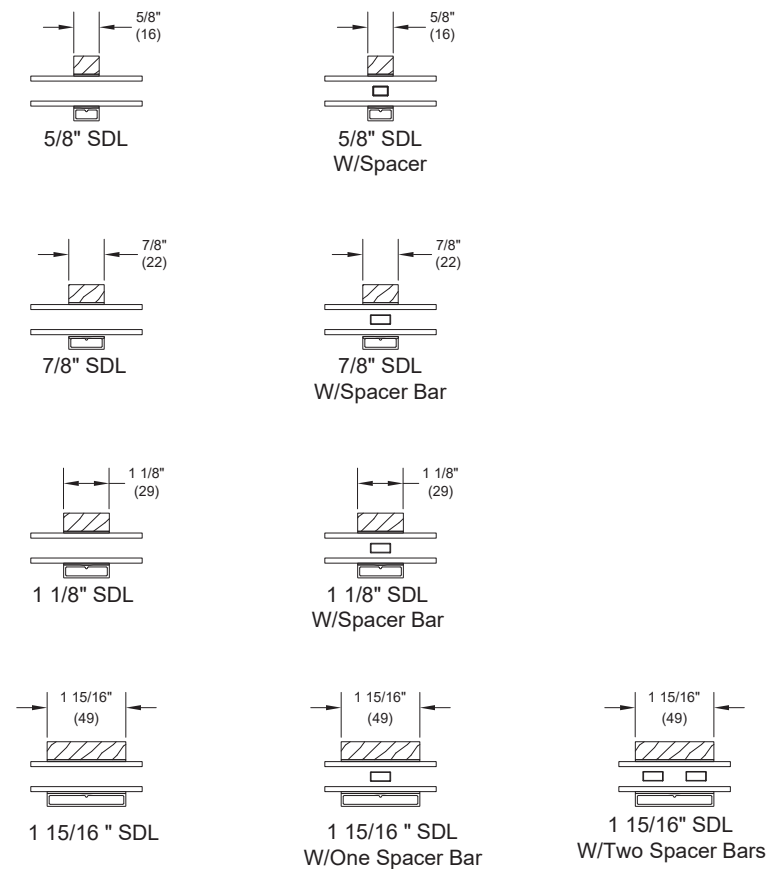
MUNTIN PROFILES



**PRODUCT OPTIONS**

MUNTIN PROFILES

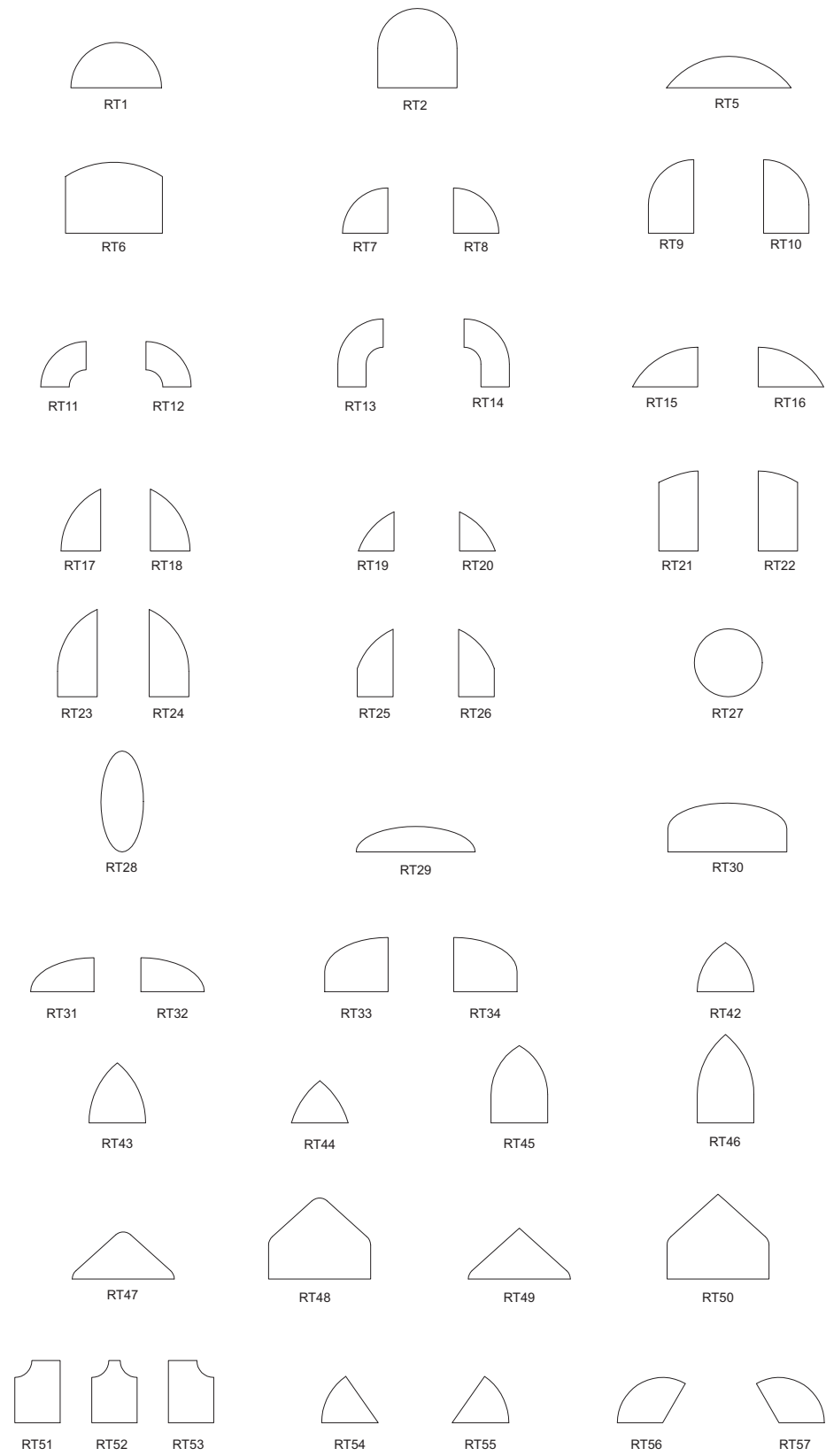
SQUARE STICKING



\* For additional ADL profiles consult with your local Marvin representative.

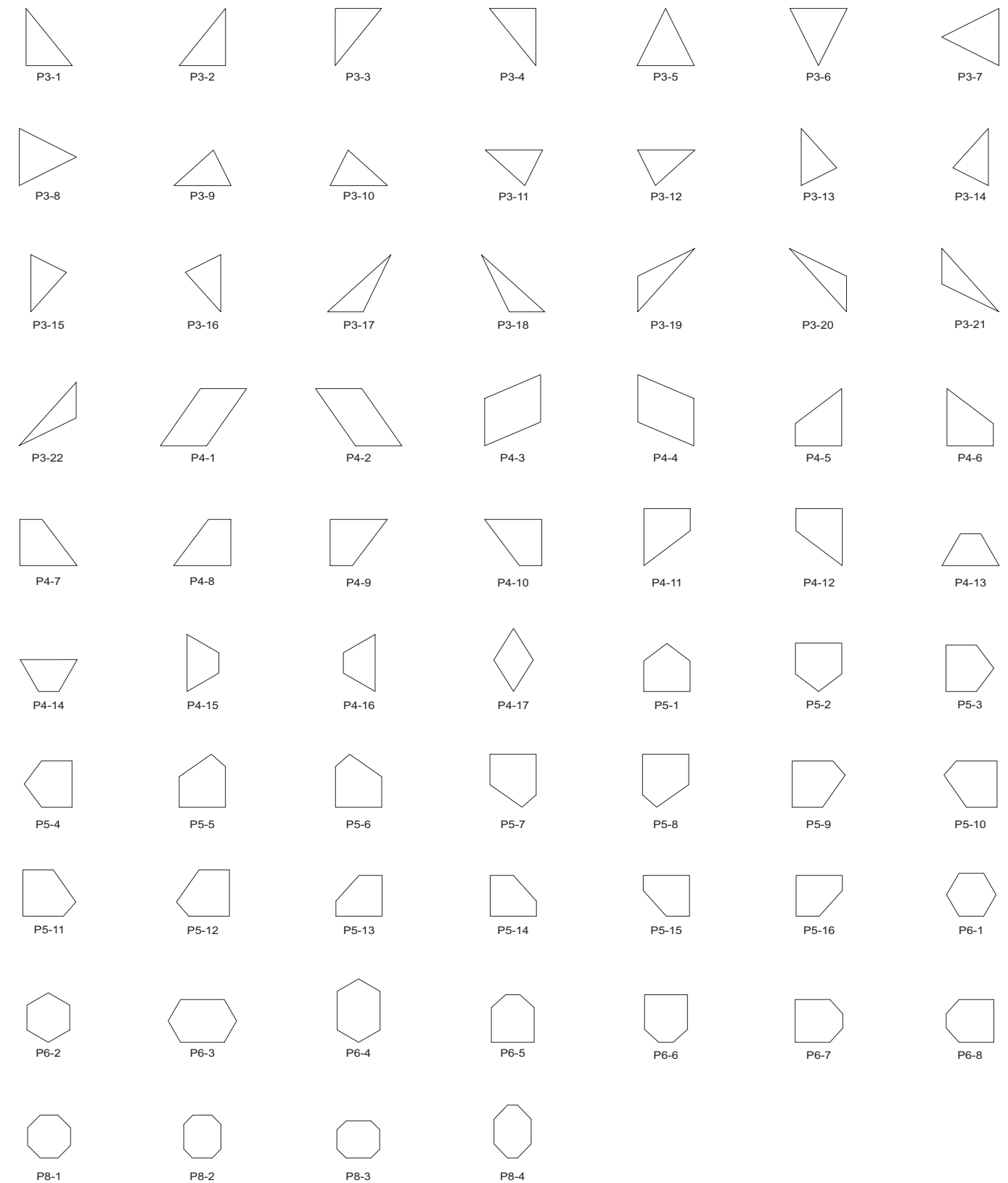
# PRODUCT OPTIONS

## QUICK REFERENCE TO ROUND TOP SHAPES



# PRODUCT OPTIONS

## QUICK REFERENCE TO POLYGON SHAPES



Details and Elevations not to scale.  
For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

\* For additional ADL profiles consult with your local Marvin representative.

## ORDERING

The following pages include specifications for many of the standard windows and doors Marvin manufactures. For complete specification information, visit [Marvin.com](http://Marvin.com) or contact your local Marvin representative. There's a lot of information here, but once you understand the different elements, these pages will become the first step in seeing your window and door dreams become a reality. So when you meet with your local Marvin representative, you'll be speaking the same language. And should you have something special in mind, remember that in addition to the thousands of standard offerings listed here, our favorite challenge is creating a custom window or door that has never been built before.

## SPECIFICATION INFORMATION

Each product section is divided into wood and clad, with metric measurements in parenthesis. Cross section drawings are also included. Product codes for ordering are listed under each unit but do not necessarily indicate product size.

You'll notice width and height measurements are given for each size. The masonry opening (MO) is the size of the hole needed if the window is to be installed within a brick, block or stone opening; rough openings (RO) are the required hole size in houses covered with wood, vinyl or metal siding. Frame size (FS) measures from edge to edge of your window (excluding exterior casings); daylight opening (DLO) indicates the dimensions of the visible glass in a single sash (operating or stationary). See chart below.

<b>MO (mm)</b>	1-7 5/8 (499)	1-11 5/8 (600)	2-3 5/8 (702)
<b>RO (mm)</b>	1-5 (432)	1-9 (533)	2-0 (610)
<b>FS (mm)</b>	1-4 (406)	1-8 (508)	2-1 (635)
<b>DLO (mm)</b>	0-10 3/16 (259)	1-2 3/16 (360)	1-6 3/16 (462)



## OPERATING VS. STATIONARY

Marvin drawings always illustrate the window sash or door panels as if you are looking from the outside in. Identifying which sash or panels are operating is a little counter-intuitive. X means operating, O means stationary. So when listing the sash or panels, start from the left to right looking from the exterior. For example, a two panel French Door with a left operating panel and a right stationary panel would be identified as XO. A French Door with two operating panels would be identified as XX.

The identification of stationary/operating panels is then followed by the handing of the primary operating panel (the one that would be opened first, in the case of two operating panels). If you stand straddling the sill of a door with your back to the hinge of the operating panel, notice which hand you would use to reach out and close the door. That indicates whether a door panel is "R" – right handing or "L" – left handing for Marvin residential doors.



## ORDERING CONSIDERATIONS

All products are ordered through window and door professionals. They'll take care of you every step of the way, working with you to specify each detail. Since Marvin products are not warehoused and are made to order to your exact needs, product returns are at the discretion of your individual dealer.

Listed below are some of the details you may want to consider:

- Wood species
- Bare Wood, primed interior and interior stains
- Bare Wood, primed or clad exterior
- Glazing options such as insulating glass and Low E3 to optimize energy efficiency
- Divided Lite options: Authentic Divided Lite, Simulated Divided Lite, Simulated Divided Lite with spacers, Grilles-Between-the-Glass
- Hardware styles and finishes
- Exterior casings and subsills
- Operating vs. stationary sash and panels
- Screen or combination storm/screen needs
- Jamb depth needs

Details and Elevations not to scale.

- Numbers listed in parentheses ( ) are metric equivalents in millimeters rounded to the nearest whole number
- Allow 1/16" (2) tolerance on all measurements
- On clad units, all masonry openings are based on units without casing
- All performance information is based on Marvin installation recommendations for standard products
- Due to the variety of combinations of casing and subsill options available, special dimensional considerations for different installation methods will be required. Please contact your local Marvin retailer when specifying these casing and subsill combinations

Please consult your local Marvin representative for more information.

For further details and drawings visit the 'Technical Specifications' section at [Marvin.com](http://Marvin.com).

The information provided in this catalog has been gathered and assembled with every effort made to validate accuracy and consistency of the content. However, Marvin does not make any warranty or guarantee as to this information.

Please verify critical product data in Marvin Order Management System (OMS) quotes and at the time of ordering.

## PERFORMANCE RATING INFORMATION AND STANDARDS

As you flip through this catalog, you'll see different ratings on the performance of Marvin windows and doors.

Here's some brief background information:

## WDMA STANDARDS

The Window and Door Manufacturers Association (WDMA) in conjunction with other organizations in the industry developed standards that make it easy to compare windows and doors from different manufacturers, testing product performance regarding air and water infiltration, as well as physical loads on the exterior and interior (very important when you consider the pressure differentials that can occur in coastal areas, as well as forced entry resistance). Marvin products are rated in accordance with the AAMA/WDMA/CSA 101/I.S.2/A440. Standards are certified in compliance with the WDMA Hallmark program.

## PERFORMANCE GRADE (PG)

A Performance Grade (PG) Rating is given to products that comply with and attain a specific level of performance in accordance with current testing standards/specifications created by AAMA/WDMA/CSA standards. Once all applicable testing has been successfully completed for air infiltration, water penetration resistance, and structural loading which also includes load deflection, ease of operation, and forced entry resistance testing, a PG rating is given. The higher a PG number the product is rated, the better the performance.

## NFRC

Marvin is a founding member of the National Fenestration Rating Council, an independent, non-profit organization that has established an energy performance rating system for accurately comparing different window and door products. Some factors considered in creating an individual window or door's rating include: the U-factor (measuring heat loss), the solar heat gain coefficient, and visible light transmission, evaluating the frame, sash and glass in its entirety. See [Marvin.com/support/energy-data](http://Marvin.com/support/energy-data) for complete and up to date NFRC values by product.

## ENERGY STAR®

The U.S. Department of Energy and the U.S. Environmental Protection Agency created this standard to help consumers identify products that reduce energy use. Windows and doors that qualify for ENERGY STAR are much more efficient as an average window produced ten years ago and must be rated, certified, and labeled according to the NFRC. To get current energy data, go to [energystar.gov](http://energystar.gov).

## EGRESS CODE

International Building Code – 2012 and 2015 Section 1009 Emergency Escape and Rescue.

**1026.2 Minimum size:** Emergency escape and rescue openings shall have a minimum net clear opening of 5.7 sq ft (0.53 m2).

Exception: The minimum net clear opening for emergency escape and rescue openings on the ground level at grade is 5.0 sq ft (0.46 m2).

**1026.2.1 Minimum dimensions:** The minimum net clear opening height dimension shall be 24 inches (610 mm). The net clear opening width dimension shall be 20 inches (508 mm). The net clear opening dimensions shall be the result of normal operation of the opening.

**1026.3 Maximum height from the floor:** Emergency escape and rescue opening shall have the bottom of the clear opening not greater than 44 inches (1118 mm) measured from the floor.

**1026.4 Operational constraints:** Emergency escape and rescue openings shall be operational from the inside of the room without the use of keys or tools. Bars, grilles, grates or similar devices are permitted to be placed over emergency escape and rescue openings provided the minimum net clear opening size complies with Section 1026.2 and such devices shall be releasable or removable from the inside without the use of a key, tool or force greater than that which is required for normal operation of the escape and rescue opening. Where such bars, grilles, grates or similar devices are installed in existing buildings, smoke alarms shall be installed in accordance with section 907.2.10 regardless of the valuation of the alteration.

Code restrictions may vary depending on your local building codes.

# WOOD DOUBLE HUNG

	2-0 1/2 (622)	2-4 1/2 (724)	2-8 1/2 (826)	2-10 1/2 (876)	3-0 1/2 (927)	3-2 1/2 (978)	3-4 1/2 (1029)	3-8 1/2 (1130)	4-0 1/2 (1232)
<b>MO (mm)</b>	2-0 1/2 (622)	2-4 1/2 (724)	2-8 1/2 (826)	2-10 1/2 (876)	3-0 1/2 (927)	3-2 1/2 (978)	3-4 1/2 (1029)	3-8 1/2 (1130)	4-0 1/2 (1232)
<b>RO (mm)</b>	1-10 3/8 (568)	2-2 3/8 (670)	2-6 3/8 (772)	2-8 3/8 (822)	2-10 3/8 (873)	3-0 3/8 (924)	3-2 3/8 (975)	3-6 3/8 (1076)	3-10 3/8 (1178)
<b>FS (mm)</b>	1-9 3/8 (543)	2-1 3/8 (645)	2-5 3/8 (746)	2-7 3/8 (797)	2-9 3/8 (848)	2-11 3/8 (899)	3-1 3/8 (949)	3-5 3/8 (1051)	3-9 3/8 (1153)
<b>DLO (mm)</b>	1-2 15/16 (379)	1-6 15/16 (481)	1-10 15/16 (583)	2-0 15/16 (633)	2-2 15/16 (684)	2-4 15/16 (735)	2-6 15/16 (786)	2-10 15/16 (887)	3-2 15/16 (989)
2-10 9/16 (878)									
2-9 1/2 (851)									
2-9 (838)									
0-1 15/16 (278)									
3-2 9/16 (980)									
3-1 1/2 (853w)									
3-1 (840)									
1-0 15/16 (329)									
3-6 9/16 (1081)									
3-5 1/2 (1054)									
3-5 (1041)									
1-2 15/16 (379)									
3-10 9/16 (1183)									
3-9 1/2 (1156)									
3-9 (1143)									
1-4 15/16 (430)									
4-2 9/16 (1284)									
4-1 1/2 (1257)									
4-1 (1245)									
1-6 15/16 (481)									
4-6 9/16 (1386)									
4-5 1/2 (1359)									
4-5 (1346)									
1-8 15/16 (532)									
4-10 9/16 (1488)									
4-9 1/2 (1461)									
4-9 (1448)									
1-10 15/16 (683)									
5-2 9/16 (1589)									
5-1 1/2 (1562)									
5-1 (1549)									
2-0 15/16 (633)									
5-6 9/16 (1691)									
5-5 1/2 (1664)									
5-5 (1651)									
2-2 15/16 (684)									

## MULTIPLE ASSEMBLY CONVERSIONS

ROUGH OPENING		MASONRY OPENING WITH BMC	
Width	Height	Width	Height
Add all frame sizes plus 1" (25)	Add frame sizes plus 1/2" (13)	Add all frame sizes plus 3 1/8" (79)	Add frame sizes plus 1 9/16" (39)

Details and Elevations not to scale.

E These windows meet national Egress codes for fire evacuation. Local codes may differ.

\* For more Cottage Style sizes than the sample shown, please contact your Marvin representative. Ultimate Double Hung cottage call number formula is figured in fifths. Top sash is 2/5 and bottom is 3/5.

1. Standard call number; 2024
2. Add the two glass heights; 24" + 24" = 48"
3. Divide 48" by 2/5; 19-13/64"
4. Round to the nearest standard glass height; 20"
5. Subtract from total glass height; 48" - 20" = 28" The call number for the above example is: 2020/28. The top sash will be a 2020 and the bottom sash will be a 2028

Ultimate Wood Double Hung: UWDH

# WOOD DOUBLE HUNG

	2-0 1/2 (622)	2-4 1/2 (724)	2-8 1/2 (826)	2-10 1/2 (876)	3-0 1/2 (927)	3-2 1/2 (978)	3-4 1/2 (1029)	3-8 1/2 (1130)	4-0 1/2 (1232)
<b>MO (mm)</b>	2-0 1/2 (622)	2-4 1/2 (724)	2-8 1/2 (826)	2-10 1/2 (876)	3-0 1/2 (927)	3-2 1/2 (978)	3-4 1/2 (1029)	3-8 1/2 (1130)	4-0 1/2 (1232)
<b>RO (mm)</b>	1-10 3/8 (568)	2-2 3/8 (670)	2-6 3/8 (772)	2-8 3/8 (822)	2-10 3/8 (873)	3-0 3/8 (924)	3-2 3/8 (975)	3-6 3/8 (1076)	3-10 3/8 (1178)
<b>FS (mm)</b>	1-9 3/8 (543)	2-1 3/8 (645)	2-5 3/8 (746)	2-7 3/8 (797)	2-9 3/8 (848)	2-11 3/8 (899)	3-1 3/8 (949)	3-5 3/8 (1051)	3-9 3/8 (1153)
<b>DLO (mm)</b>	1-2 15/16 (379)	1-6 15/16 (481)	1-10 15/16 (583)	2-0 15/16 (633)	2-2 15/16 (684)	2-4 15/16 (735)	2-6 15/16 (786)	2-10 15/16 (887)	3-2 15/16 (989)
5-10 9/16 (1792)									
5-9 1/2 (1765)									
5-9 (1753)									
2-4 15/16 (735)									
6-2 9/16 (1894)									
6-1 1/2 (1867)									
6-1 (1854)									
2-6 15/16 (786)									
6-6 9/16 (1966)									
6-5 1/2 (1969)									
6-5 (1956)									
2-8 15/16 (837)									
6-10 9/16 (2097)									
6-9 1/2 (2070)									
6-9 (2057)									
2-10 15/16 (887)									
7-6 9/16 (2300)									
7-5 1/2 (2273)									
7-5 (2261)									
3-2 15/16 (989)									
7-10 9/16 (2402)									
7-9 1/2 (2375)									
7-9 (2362)									
3-4 15/16 (1040)									

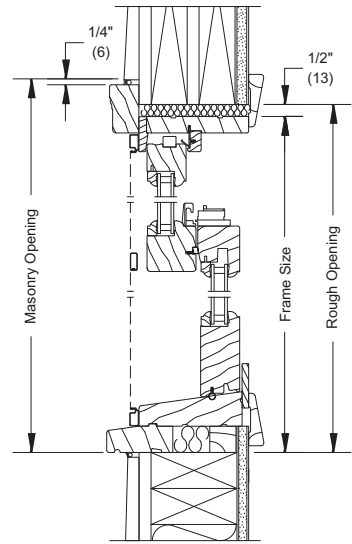
## COTTAGE STYLE\*

	2-0 1/2 (622)	2-4 1/2 (724)	2-8 1/2 (826)	2-10 1/2 (876)	3-0 1/2 (927)	3-2 1/2 (978)	3-4 1/2 (1029)	3-8 1/2 (1130)	4-0 1/2 (1232)
<b>MO (mm)</b>	2-0 1/2 (622)	2-4 1/2 (724)	2-8 1/2 (826)	2-10 1/2 (876)	3-0 1/2 (927)	3-2 1/2 (978)	3-4 1/2 (1029)	3-8 1/2 (1130)	4-0 1/2 (1232)
<b>RO (mm)</b>	1-10 3/8 (568)	2-2 3/8 (670)	2-6 3/8 (772)	2-8 3/8 (822)	2-10 3/8 (873)	3-0 3/8 (924)	3-2 3/8 (975)	3-6 3/8 (1076)	3-10 3/8 (1178)
<b>FS (mm)</b>	1-9 3/8 (543)	2-1 3/8 (645)	2-5 3/8 (746)	2-7 3/8 (797)	2-9 3/8 (848)	2-11 3/8 (899)	3-1 3/8 (949)	3-5 3/8 (1051)	3-9 3/8 (1153)
<b>DLO (mm)</b>	1-2 15/16 (379)	1-6 15/16 (481)	1-10 15/16 (583)	2-0 15/16 (633)	2-2 15/16 (684)	2-4 15/16 (735)	2-6 15/16 (786)	2-10 15/16 (887)	3-2 15/16 (989)
5-10 9/16 (1792)									
5-9 1/2 (1765)									
5-9 (1753)									
1-10 15/16 (583) / 2-10 15/16 (887)									

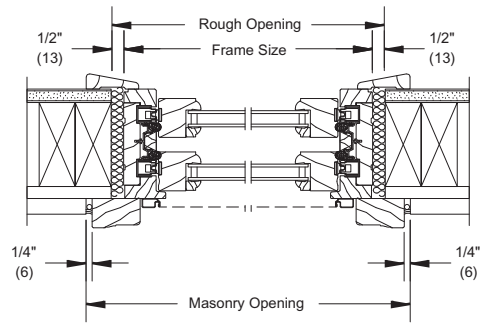
Please consult your local Marvin representative for more information. For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

# WOOD DOUBLE HUNG

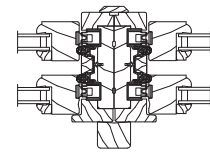
## CONSTRUCTION DETAILS



HEAD JAMB AND SILL - OPERATOR



JAMB - OPERATOR



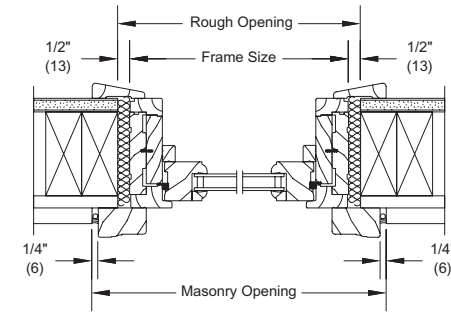
VERTICAL MULLION OPERATOR

# WOOD DOUBLE HUNG TRANSOM

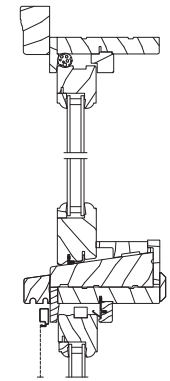
<b>MO (mm)</b>	2-0 1/2 (622)	2-4 1/2 (724)	2-8 1/2 (826)	2-10 1/2 (876)	3-0 1/2 (927)	3-2 1/2 (978)	3-4 1/2 (1029)	3-8 1/2 (1130)	4-0 1/2 (1232)
<b>RO (mm)</b>	1-10 3/8 (568)	2-2 3/8 (670)	2-6 3/8 (772)	2-8 3/8 (822)	2-10 3/8 (873)	3-0 3/8 (924)	3-2 3/8 (975)	3-6 3/8 (1076)	3-10 3/8 (1178)
<b>FS (mm)</b>	1-9 3/8 (543)	2-1 3/8 (645)	2-5 3/8 (746)	2-7 3/8 (797)	2-9 3/8 (848)	2-11 3/8 (899)	3-1 3/8 (949)	3-5 3/8 (1051)	3-9 3/8 (1153)
<b>DLO (mm)</b>	1-2 15/16 (379)	1-6 15/16 (481)	1-10 15/16 (583)	2-0 15/16 (633)	2-2 15/16 (684)	2-4 15/16 (735)	2-6 15/16 (786)	2-10 15/16 (887)	3-2 15/16 (989)

1-6 15/16 (481)									
1-5 7/8 (454)									
1-5 3/8 (441)									
0-1 15/16 (278)									
	UWDHTR1612	UWDHTR2012	UWDHTR2412	UWDHTR2612	UWDHTR2812	UWDHTR3012	UWDHTR3212	UWDHTR3612	UWDHTR4012
2-2 15/16 (684)									
2-1 7/8 (657)									
2-1 3/8 (645)									
1-6 15/16 (481)									
	UWDHTR1620	UWDHTR2020	UWDHTR2420	UWDHTR2620	UWDHTR2820	UWDHTR3020	UWDHTR3220	UWDHTR3620	UWDHTR4020

## CONSTRUCTION DETAILS



JAMB - OPERATOR



TRANSOM MULLION OVER ULTIMATE WOOD DOUBLE HUNG

Details and Elevations not to scale.

- Transom heights do not include subsill. Add 1 3/32" (28) for stand alone heights if subsill is wanted.

Please consult your local Marvin representative for more information.

For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

Ultimate Wood Double Hung Transom: UWDHTR

WOOD DOUBLE HUNG PICTURE

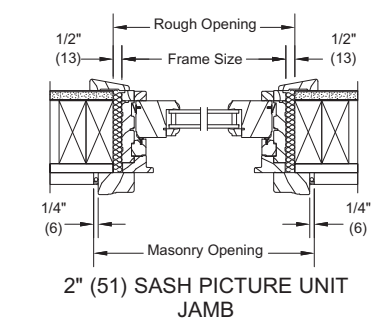
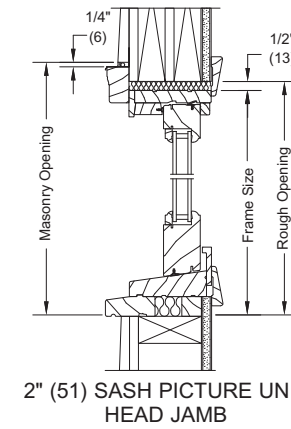
MO (mm)	3-8 1/2 (1130)	4-4 1/2 (1334)	4-8 1/2 (1435)	5-4 1/2 (1638)	6-0 1/2 (1842)
RO (mm)	3-6 3/8 (1076)	4-2 3/8 (1280)	4-6 3/8 (1381)	5-2 3/8 (1584)	5-10 3/8 (1788)
FS (mm)	3-5 3/8 (1051)	4-1 3/8 (1254)	4-5 3/8 (1356)	5-1 3/8 (1559)	5-9 3/8 (1762)
DLO (mm)	2-10 15/16 (887)	3-6 15/16 (1091)	3-10 15/16 (1192)	4-6 15/16 (1395)	5-2 15/16 (1599)
3-6 9/16 (1081)					
3-5 1/2 (1054)					
3-5 (1041)					
2-8 1/4 (819)					
3-10 9/16 (1183)					
3-9 1/2 (1156)					
3-9 (1143)					
3-0 1/4 (921)					
4-2 9/16 (1284)					
4-1 1/2 (1257)					
4-1 (1245)					
3-4 1/4 (1022)					
4-6 9/16 (1386)					
4-5 1/2 (1359)					
4-5 (1346)					
3-8 1/4 (1124)					
4-10 9/16 (1488)					
4-9 1/2 (1461)					
4-9 (1448)					
4-0 1/4 (1226)					
5-2 9/16 (1589)					
5-1 1/2 (1562)					
5-1 (1549)					
4-4 1/4 (1327)					
5-6 9/16 (1691)					
5-5 1/2 (1664)					
5-5 (1651)					
4-8 1/4 (1429)					
5-10 9/16 (1792)					
5-9 1/2 (1765)					
5-9 (1753)					
5-0 1/4 (1530)					
6-2 9/16 (1894)					
6-1 1/2 (1867)					
6-1 (1854)					
5-4 1/4 (1632)					
6-6 9/16 (1996)					
6-5 1/2 (1969)					
6-5 (1956)					
5-8 1/4 (1734)					

Ultimate Wood Double Hung Picture: UWDHP

WOOD DOUBLE HUNG PICTURE

MO (mm)	3-8 1/2 (1130)	4-4 1/2 (1334)	4-8 1/2 (1435)	5-4 1/2 (1638)	6-0 1/2 (1842)
RO (mm)	3-6 3/8 (1076)	4-2 3/8 (1280)	4-6 3/8 (1381)	5-2 3/8 (1584)	5-10 3/8 (1788)
FS (mm)	3-5 3/8 (1051)	4-1 3/8 (1254)	4-5 3/8 (1356)	5-1 3/8 (1559)	5-9 3/8 (1762)
DLO (mm)	2-10 15/16 (887)	3-6 15/16 (1091)	3-10 15/16 (1192)	4-6 15/16 (1395)	5-2 15/16 (1599)
6-10 9/16 (2097)					
6-9 1/2 (2070)					
6-9 (2057)					
6-0 1/4 (1835)					
7-8 9/16 (2300)					
7-5 1/2 (2273)					
7-5 (2261)					
6-8 1/4 (2038)					
7-10 9/16 (2402)					
7-9 1/2 (2375)					
7-9 (2362)					
7-0 1/4 (2140)					

CONSTRUCTION DETAILS



Details and Elevations not to scale.  
 • 2" Picture Sash shown. 1 5/8" also available.  
 Please consult your local Marvin representative for more information.  
 For further details and drawings visit the 'Technical Specifications' section at Marvin.com.



# WOOD DOUBLE HUNG ROUND TOP

RT6 EYEBROW ABOVE SPRINGLINE STANDARD SIZES ONE WIDE OPERATOR

RO (mm)	2-2 3/8 (670)	2-6 3/8 (772)	2-10 3/8 (873)	3-2 3/8 (975)	3-6 3/8 (1076)	3-10 3/8 (1178)
RO Rad. (mm)	2-0 1/2 (622)	2-0 1/2 (622)	2-6 1/2 (775)	3-4 1/2 (1029)	3-4 1/2 (1029)	3-4 1/2 (1029)
RO (mm)	3-5 1/8 (1045)	3-6 17/32 (1080)	3-6 9/16 (1081)	3-6 7/8 (1070)	3-7 9/32 (1099)	3-8 9/16 (1132)
RO Spln. (mm)	3-1 9/32 (947)	3-1 1/4 (946)	3-1 9/32 (947)	3-1 5/16 (947)	3-1 9/32 (947)	3-1 9/32 (947)
	UWDHRT2014	UWDHRT2414	UWDHRT2814	UWDHRT3214	UWDHRT3614	UWDHRT4014
RO (mm)	3-9 1/8 (1146)	3-10 17/32 (1182)	3-10 9/16 (1183)	3-10 18 (1172)	3-11 9/32 (1201)	4-0 9/16 (1233)
RO Spln. (mm)	3-5 9/32 (1048)	3-5 1/4 (1048)	3-5 9/32 (1048)	3-5 5/16 (1049)	3-5 9/32 (1049)	3-5 9/32 (1048)
	UWDHRT2016	UWDHRT2416	UWDHRT2816	UWDHRT3216	UWDHRT3616	UWDHRT4016
RO (mm)	4-1 1/8 (1248)	4-2 17/32 (1283)	4-2 9/16 (1285)	4-2 18 (1273)	4-3 9/32 (1302)	4-4 9/16 (1335)
RO Spln. (mm)	3-9 9/32 (1150)	3-9 1/4 (1149)	3-9 9/32 (1150)	3-9 5/16 (1151)	3-9 9/32 (1150)	3-9 9/32 (1150)
	UWDHRT2018	UWDHRT2418	UWDHRT2818	UWDHRT3218	UWDHRT3618	UWDHRT4018
RO (mm)	4-5 1/8 (1349)	4-6 17/32 (1385)	4-6 9/16 (1386)	4-6 18 (1375)	4-7 9/32 (1404)	4-8 9/16 (1437)
RO Spln. (mm)	4-1 9/32 (1252)	4-1 1/4 (1251)	4-1 9/32 (1252)	4-1 5/16 (1253)	4-1 9/32 (1252)	4-1 9/32 (1251)
	UWDHRT2020	UWDHRT2420	UWDHRT2820	UWDHRT3220	UWDHRT3620	UWDHRT4020
RO (mm)	4-9 1/8 (1451)	4-10 17/32 (1486)	4-10 9/16 (1488)	4-10 18 (1477)	4-11 9/32 (1505)	5-0 9/16 (1538)
RO Spln. (mm)	4-5 9/32 (1353)	4-5 1/4 (1352)	4-5 9/32 (1353)	4-5 5/16 (1354)	4-5 9/32 (1359)	4-5 9/32 (1353)
	UWDHRT2022	UWDHRT2422	UWDHRT2822	UWDHRT3222	UWDHRT3622	UWDHRT4022
RO (mm)	5-1 1/8 (1553)	5-2 17/32 (1588)	5-2 9/16 (1589)	5-2 18 (1578)	5-3 9/32 (1607)	5-4 9/16 (1640)
RO Spln. (mm)	4-9 9/32 (1455)	4-9 1/4 (1454)	4-9 9/32 (1455)	4-9 5/16 (1455)	4-9 9/32 (1455)	4-9 9/32 (1455)
	UWDHRT2024	UWDHRT2424	UWDHRT2824	UWDHRT3224	UWDHRT3624	UWDHRT4024
RO (mm)	5-5 1/8 (1654)	5-6 17/32 (1690)	5-6 9/16 (1691)	5-6 18 (1680)	5-7 9/32 (1709)	5-8 9/16 (1741)
RO Spln. (mm)	5-1 9/32 (1556)	5-1 1/4 (1556)	5-1 9/32 (1556)	5-1 5/16 (1557)	5-1 9/32 (1557)	5-1 9/32 (1556)
	UWDHRT2026	UWDHRT2426	UWDHRT2826	UWDHRT3226	UWDHRT3626	UWDHRT4026

# WOOD DOUBLE HUNG ROUND TOP

RT6 EYEBROW ABOVE SPRINGLINE STANDARD SIZES ONE WIDE OPERATOR

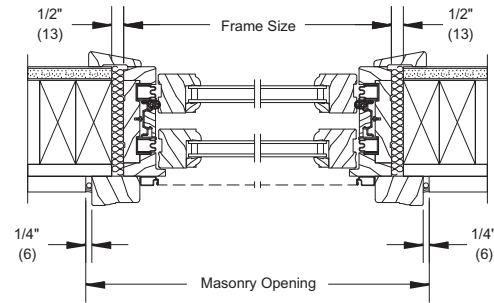
RO (mm)	2-2 3/8 (670)	2-6 3/8 (772)	2-10 3/8 (837)	3-2 3/8 (975)	3-6 3/8 (1076)	3-10 3/8 (1178)
RO Rad. (mm)	2-0 1/2 (622)	2-0 1/2 (622)	2-6 1/2 (775)	3-4 1/2 (1029)	3-4 1/2 (1029)	3-4 1/2 (1029)
RO (mm)	5-9 1/8 (1756)	5-10 17/32 (1791)	5-10 9/16 (1792)	5-11 9/32 (1810)	6-0 9/16 (1843)	6-10 1/8 (1883)
RO Spln. (mm)	5-5 9/32 (1658)	5-5 1/4 (1657)	5-5 9/32 (1658)	5-5 9/32 (1658)	5-5 9/32 (1658)	5-5 5/16 (1659)
	UWDHRT2028	UWDHRT2428	UWDHRT2828	UWDHRT3228 E	UWDHRT3628 E	UWDHRT4028 E
RO (mm)	6-1 1/8 (1858)	6-2 17/32 (1893)	6-2 9/16 (1894)	6-3 9/32 (1912)	6-4 9/16 (1945)	6-4 9/16 (1945)
RO Spln. (mm)	5-9 9/32 (1760)	5-9 1/4 (1759)	5-9 9/32 (1759)	5-9 9/32 (1760)	5-9 9/32 (1760)	5-9 9/32 (1759)
	UWDHRT2030	UWDHRT2430	UWDHRT2830 E	UWDHRT3230 E	UWDHRT3630 E	UWDHRT4030 E
RO (mm)	6-5 1/8 (1959)	6-6 17/32 (1994)	6-6 9/16 (1996)	6-7 9/32 (2013)	6-8 9/16 (2046)	6-8 9/16 (2046)
RO Spln. (mm)	6-1 9/32 (1861)	6-1 1/4 (1860)	6-1 9/32 (1861)	6-1 9/32 (1861)	6-1 9/32 (1861)	6-1 9/32 (1861)
	UWDHRT2032	UWDHRT2432	UWDHRT2832 E	UWDHRT3232 E	UWDHRT3632 E	UWDHRT4032 E
RO (mm)	6-9 1/8 (2061)	6-10 17/32 (2096)	6-10 9/16 (2097)	6-11 9/32 (2115)	7-0 9/16 (2148)	7-0 9/16 (2148)
RO Spln. (mm)	6-5 9/32 (1963)	6-5 1/4 (1962)	6-5 9/32 (1963)	6-5 9/32 (1963)	6-5 9/32 (1963)	6-5 9/32 (1963)
	UWDHRT2034	UWDHRT2434 E	UWDHRT2834 E	UWDHRT3234 E	UWDHRT3634 E	UWDHRT4034 E
RO (mm)	7-1 1/8 (2162)	7-2 17/32 (2198)	7-2 9/16 (2199)	7-3 9/32 (2217)	7-4 9/16 (2249)	7-4 9/16 (2249)
RO Spln. (mm)	6-9 9/32 (2064)	6-9 1/4 (2064)	6-9 9/32 (2064)	6-9 9/32 (2065)	6-9 9/32 (2064)	6-9 9/32 (2064)
	UWDHRT2036	UWDHRT2436 E	UWDHRT2836 E	UWDHRT3236 E	UWDHRT3636 E	UWDHRT4036 E

Ultimate Wood Double Hung Round Top: UWDHRT

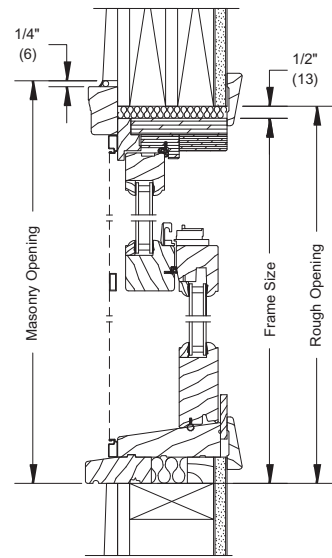
Details and Elevations not to scale.  
 E These windows meet national Egress codes for fire evacuation.  
 Local codes may differ.  
 Please consult your local Marvin representative for more information.  
 For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

# WOOD DOUBLE HUNG ROUND TOP

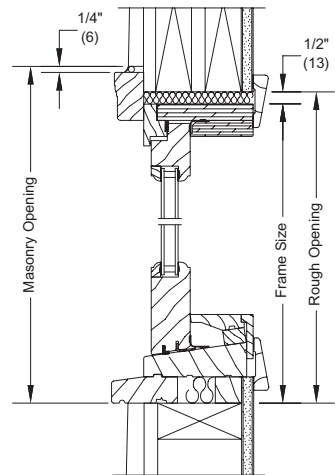
## CONSTRUCTION DETAILS



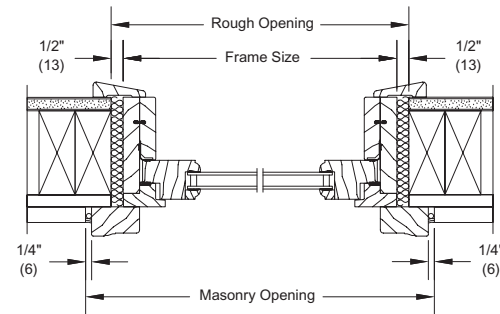
JAMB - OPERATOR



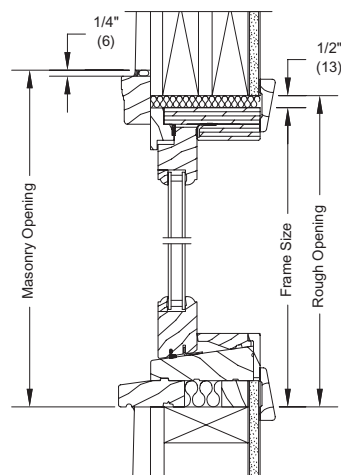
HEAD JAMB AND SILL - OPERATOR



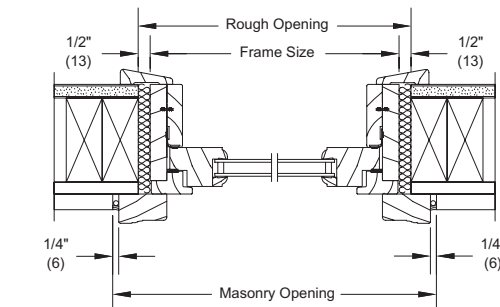
1 5/8" SASH  
HEAD JAMB AND SILL - PICTURE



1 5/8" SASH  
JAMB - PICTURE



1 5/8" SASH  
HEAD JAMB AND SILL - TRANSOM



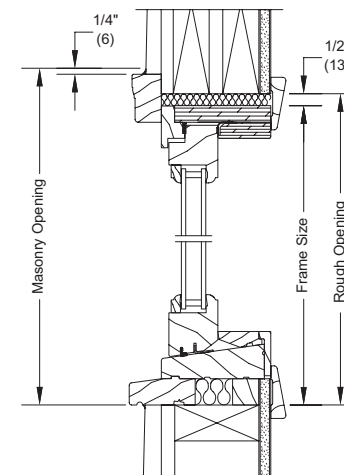
1 5/8" SASH  
JAMB - TRANSOM

# WOOD DOUBLE HUNG TRANSOM ROUND TOP

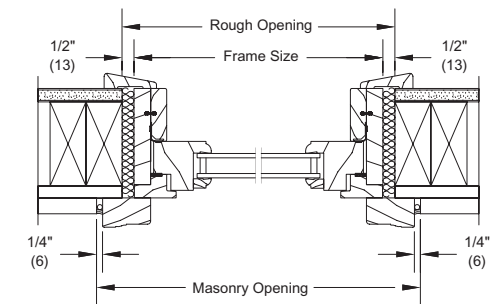
## RT1 TRUE HALF CIRCLE - IN SASH TRANSOM

RO (mm)	2-2 3/8 (670)	2-6 3/8 (772)	2-8 3/8 (822)	2-10 3/8 (873)	3-0 3/8 (924)	3-2 3/8 (975)
RO Rad. (mm)	1-1 3/16 (335)	1-3 3/16 (386)	1-4 3/16 (411)	1-5 3/16 (437)	1-6 3/16 (462)	1-7 3/16 (487)
RO (mm)	1-1 3/16 (335)	1-3 3/16 (386)	1-4 3/16 (411)	1-5 3/16 (437)	1-6 3/16 (462)	1-7 3/16 (487)
	UWDHTRRT2015	UWDHTRRT2417	UWDHTRRT2618	UWDHTRRT2819	UWDHTRRT3020	UWDHTRRT3221
RO (mm)	3-6 3/8 (1076)	3-10 3/8 (1178)	4-3 3/4 (1314)	4-11 3/4 (1518)	5-7 3/4 (1721)	6-3 3/4 (1924)
RO Rad. (mm)	1-9 3/16 (538)	1-11 3/16 (589)	2-1 7/8 (657)	2-5 7/8 (759)	2-9 7/8 (860)	3-1 7/8 (962)
RO (mm)	1-9 3/16 (538)	1-11 3/16 (589)	2-1 7/8 (657)	2-5 7/8 (759)	2-9 7/8 (860)	3-1 7/8 (962)
	UWDHTRRT3623	UWDHTRRT4025	UWDHTRRT5027	UWDHTRRT5831	UWDHTRRT6635	UWDHTRRT7439

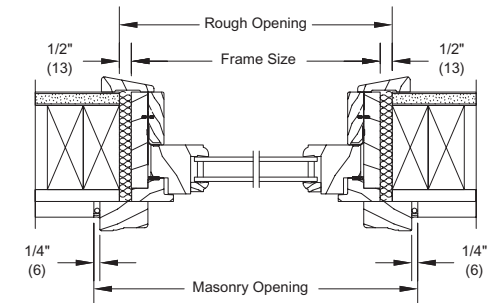
## CONSTRUCTION DETAILS



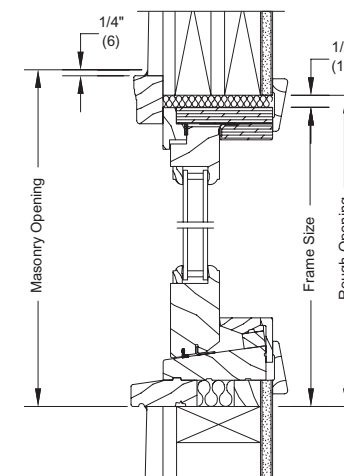
2" SASH HEAD JAMB AND SILL - TRANSOM



2" SASH JAMB - TRANSOM



2" SASH JAMB - PICTURE



2" SASH HEAD JAMB AND SILL - PICTURE

Details and Elevations not to scale.  
 • Elevations shown represent standard transoms without subsill. Add 15/16" (24) for direct glaze and 1 3/32" (28) for in sash to the rough opening height for standalone unit.  
 • Construction details without subsill not shown.  
 Please consult your local Marvin representative for more information.  
 For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

Ultimate Wood Double Hung Transom Round Top: UWDHTRRT

## WOOD DIRECT GLAZE ROUND TOP – Double Hung

RT6 EYEBROW ABOVE SPRINGLINE STANDARD SIZES - DIRECT GLAZE

RO (mm)	2-2 3/8 (670)	2-6 3/8 (772)	2-8 3/8 (822)	2-10 3/8 (873)	3-0 3/8 (924)	3-2 3/8 (975)	3-6 3/8 (1076)
RO Rad. (mm)	2-0 1/2 (622)		2-6 1/2 (775)		3-4 1/2 (1029)		3-4 1/2 (1029)
RO (mm)	1-0 1/2 (318)	0-7 7/32 (183)	0-7 7/8 (200)	0-7 3/16 (183)	0-6 1/2 (165)	0-7 11/16 (195)	0-6 1/2 (165)
RO SpIn. (mm)	0-8 5/8 (219)						
	UWDGRT2511	UWDGRT2911	UWDGRT3111	UWDGRT3311	UWDGRT3511	UWDGRT3711	UWDGRT4111
RO (mm)	1-6 1/2 (470)	1-1 7/32 (336)	1-1 7/8 (352)	1-1 3/16 (335)	1-0 1/2 (318)	1-1 11/16 (348)	1-0 1/2 (318)
RO SpIn. (mm)	1-2 5/8 (372)						
	UWDGRT2519	UWDGRT2919	UWDGRT3119	UWDGRT3319	UWDGRT3519	UWDGRT3719	UWDGRT4119
RO (mm)	2-0 1/2 (622)	1-7 7/32 (488)	1-7 7/8 (505)	1-7 3/16 (487)	1-6 1/2 (470)	1-7 11/16 (500)	1-6 1/2 (470)
RO SpIn. (mm)	1-8 5/8 (524)						
	UWDGRT2523	UWDGRT2923	UWDGRT3123	UWDGRT3323	UWDGRT3523	UWDGRT3723	UWDGRT4123
RO (mm)	3-0 1/2 (927)	2-7 7/32 (793)	2-7 7/8 (810)	2-7 3/16 (792)	2-6 1/2 (775)	2-7 11/16 (805)	2-6 1/2 (775)
RO SpIn. (mm)	2-8 5/8 (829)						
	UWDGRT2535	UWDGRT2935	UWDGRT3135	UWDGRT3335	UWDGRT3535	UWDGRT3735	UWDGRT4135
RO (mm)	4-0 1/2 (1232)	3-7 7/32 (1098)	3-7 7/8 (1114)	3-7 3/16 (1097)	3-6 1/2 (1080)	3-7 11/16 (1110)	3-6 1/2 (1080)
RO SpIn. (mm)	3-8 5/8 (1133)						
	UWDGRT2547	UWDGRT2947	UWDGRT3147	UWDGRT3347	UWDGRT3547	UWDGRT3747	UWDGRT4147
RO (mm)	5-0 1/2 (1537)	4-7 7/32 (1403)	4-7 7/8 (1419)	4-7 3/16 (1402)	4-6 1/2 (1384)	4-7 11/16 (1414)	4-6 1/2 (1384)
RO SpIn. (mm)	4-8 5/8 (1438)						
	UWDGRT2559	UWDGRT2959	UWDGRT3159	UWDGRT3359	UWDGRT3559	UWDGRT3759	UWDGRT4159
RO (mm)	6-0 1/2 (1842)	5-7 7/32 (1707)	5-7 7/8 (1724)	5-7 3/16 (1707)	5-6 1/2 (1689)	5-7 11/16 (1719)	5-6 1/2 (1689)
RO SpIn. (mm)	5-8 5/8 (1745)						
	UWDGRT2571	UWDGRT2971	UWDGRT3171	UWDGRT3371	UWDGRT3571	UWDGRT3771	UWDGRT4171

## WOOD DIRECT GLAZE ROUND TOP – Double Hung

RT6 EYEBROW ABOVE SPRINGLINE STANDARD SIZES - DIRECT GLAZE

RO (mm)	3-10 3/8 (1178)	4-3 3/4 (1314)	4-11 3/4 (1518)	5-7 3/4 (1721)	6-3 3/4 (1924)
RO Rad. (mm)	3-4 1/2 (1029)		4-6 1/2 (1384)		6-0 1/2 (1842)
RO (mm)	1-6 1/2 (470)	0-9 5/32 (233)	0-9 9/16 (243)	0-10 7/8 (257)	0-7 13/16 (198)
RO SpIn. (mm)	0-11 7/32 (285)				
	UWDGRT4519	UWDGRT5119	UWDGRT5919	UWDGRT6719	UWDGRT7519
RO (mm)	2-0 1/2 (622)	1-3 5/32 (385)	1-3 9/16 (395)	1-4 1/8 (410)	1-1 13/16 (351)
RO SpIn. (mm)	1-5 7/32 (437)				
	UWDGRT4523	UWDGRT5123	UWDGRT5923	UWDGRT6723	UWDGRT7523
RO (mm)	3-0 1/2 (927)	2-3 5/32 (690)	2-3 9/16 (700)	2-4 7/8 (714)	2-1 13/16 (656)
RO SpIn. (mm)	2-5 7/32 (742)				
	UWDGRT4535	UWDGRT5135	UWDGRT5935	UWDGRT6735	UWDGRT7535
RO (mm)	4-0 1/2 (1232)	3-3 5/32 (895)	3-3 9/16 (1005)	3-4 7/8 (1019)	3-1 13/16 (960)
RO SpIn. (mm)	3-5 7/32 (1047)				
	UWDGRT4547	UWDGRT5147	UWDGRT5947	UWDGRT6747	UWDGRT7547
RO (mm)	5-0 1/2 (1537)	4-3 5/32 (1299)	4-3 9/16 (1310)	4-4 7/8 (1324)	4-1 13/16 (1265)
RO SpIn. (mm)	4-5 7/32 (1352)				
	UWDGRT4559	UWDGRT5159	UWDGRT5959	UWDGRT6759	UWDGRT7559
RO (mm)	6-0 1/2 (1842)	5-3 5/32 (1604)	5-3 9/16 (1614)	5-4 7/8 (1629)	5-1 13/16 (1570)
RO SpIn. (mm)	5-5 7/32 (1657)				
	UWDGRT4571	UWDGRT5171	UWDGRT5971	UWDGRT6771	UWDGRT7571

Details and Elevations not to scale.

- If these units are NOT used as transoms, ADD 1 3/32" (28) to the rough opening height for subsill.

Please consult your local Marvin representative for more information.

For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

Ultimate Wood Direct Glaze Round Top: UWDGRT

# WOOD DIRECT GLAZE ROUND TOP – Double Hung

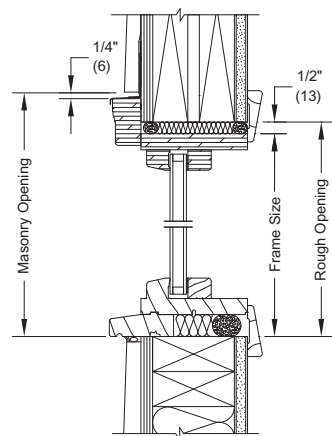
## RT1 TRUE HALF CIRCLE STANDARD SIZES - DIRECT GLAZE

RO (mm)	2-6 3/8 (772)	2-8 3/8 (822)	2-10 3/8 (873)	3-0 3/8 (924)	3-2 3/8 (975)	3-6 3/8 (1076)
	1-3 3/16 (386)	1-4 3/16 (411)	1-5 3/16 (437)	1-6 3/16 (462)	1-7 3/16 (487)	1-9 3/16 (538)
	UWDGRT2914	UWDGRT3115	UWDGRT3316	UWDGRT3517	UWDGRT3718	UWDGRT4120
RO (mm)						
RO (mm)	3-10 3/8 (1178)	4-3 3/4 (1314)	4-11 3/4 (1518)	5-7 3/4 (1721)	6-3 3/4 (1924)	
	1-11 3/16 (689)	2-1 7/8 (667)	2-5 7/8 (769)	2-9 7/8 (860)	3-1 7/8 (962)	
	UWDGRT4522	UWDGRT5025	UWDGRT5828	UWDGRT6632	UWDGRT7437	
RO (mm)						

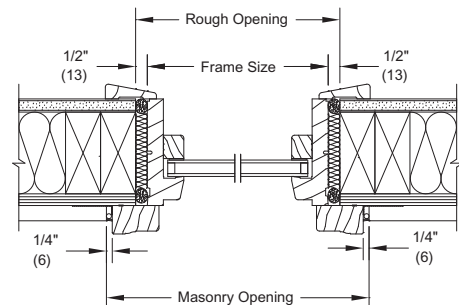
## RT29 ELLIPTICAL STANDARD SIZES - DIRECT GLAZE

RO (mm)	4-3 3/4 (1314)	4-11 3/4 (1518)	5-7 3/4 (1721)	6-3 3/4 (1924)
	1-5 5/16 (456)			
	UWDGRT5118	UWDGRT5918	UWDGRT6718	UWDGRT7518
RO (mm)				

## CONSTRUCTION DETAILS



HEAD JAMB AND SILL - DIRECT GLAZE



JAMB - DIRECT GLAZE

Details and Elevations not to scale.

- If these units are NOT used as transoms, ADD 1 3/32" (28) to the rough opening height for subsill.

Please consult your local Marvin representative for more information.

For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

# DOUBLE HUNG G2

MO (mm)	1-9 3/4 (552)	2-1 3/4 (654)	2-5 3/4 (756)	2-7 3/4 (806)	2-9 3/4 (857)	2-11 3/4 (908)
RO (mm)	1-10 1/4 (565)	2-2 1/4 (667)	2-6 1/4 (768)	2-8 1/4 (819)	2-10 1/4 (870)	3-0 1/4 (921)
FS (mm)	1-9 1/4 (540)	2-1 1/4 (641)	2-5 1/4 (743)	2-7 1/4 (794)	2-9 1/4 (845)	2-11 1/4 (895)
DLO (mm)	14 47/64 (347)	18 47/64 (476)	22 47/64 (577)	24 47/64 (628)	26 47/64 (679)	28 47/64 (730)
	2-7 3/4 (806)					
	2-8 (813)					
	2-7 1/2 (800)					
	10 3/4 (273)					
	UDHG2 1612	UDHG2 2012	UDHG2 2412	UDHG2 2612	UDHG2 2812	UDHG2 3012
	2-11 3/4 (908)					
	3-0 (914)					
	2-11 1/2 (902)					
	12 3/4 (324)					
	UDHG2 1614	UDHG2 2014	UDHG2 2414	UDHG2 2614	UDHG2 2814	UDHG2 3014
	3-3 3/4 (1010)					
	3-4 (1016)					
	3-3 1/2 (1003)					
	14 3/4 (375)					
	UDHG2 1616	UDHG2 2016	UDHG2 2416	UDHG2 2616	UDHG2 2816	UDHG2 3016
	3-7 3/4 (1111)					
	3-8 (1118)					
	3-7 1/2 (1105)					
	16 3/4 (425)					
	UDHG2 1618	UDHG2 2018	UDHG2 2418	UDHG2 2618	UDHG2 2818	UDHG2 3018
	3-11 3/4 (1213)					
	4-0 (1219)					
	3-11 1/2 (1207)					
	18 3/4 (476)					
	UDHG2 1620	UDHG2 2020	UDHG2 2420	UDHG2 2620	UDHG2 2820	UDHG2 3020
	4-3 3/4 (1314)					
	4-4 (1321)					
	4-3 1/2 (1308)					
	20 3/4 (527)					
	UDHG2 1622	UDHG2 2022	UDHG2 2422	UDHG2 2622	UDHG2 2822	UDHG2 3022
	4-7 3/4 (1416)					
	4-8 (1422)					
	4-7 1/2 (1410)					
	22 3/4 (578)					
	UDHG2 1624	UDHG2 2024	UDHG2 2424	UDHG2 2624	UDHG2 2824	UDHG2 3024
	4-11 3/4 (1518)					
	5-0 (1524)					
	4-11 1/2 (1511)					
	24 3/4 (629)					
	UDHG2 1626	UDHG2 2026	UDHG2 2426	UDHG2 2626	UDHG2 2826	UDHG2 3026
	5-3 3/4 (1619)					
	5-4 (1626)					
	5-3 1/2 (1613)					
	26 3/4 (679)					
	UDHG2 1628	UDHG2 2028	UDHG2 2428	UDHG2 2628	UDHG2 2828	UDHG2 3028 E

## MULTIPLE ASSEMBLY CONVERSIONS

ROUGH OPENING		MASONRY OPENING WITHOUT BMC	
Width	Height	Width	Height
Add all frame sizes plus 1" (25)	Add frame sizes plus 1/2" (13)	Add all frame sizes plus 1/2" (13)	Add frame sizes plus 1/4" (6)

Ultimate Double Hung G2: UDHG2

### DOUBLE HUNG G2

<b>MO (mm)</b>	3-1 3/4 (959)	3-5 3/4 (1060)	3-9 3/4 (1162)	4-1 3/4 (1264)	4-5 3/4 (1365)	4-11 3/4 (1518)	5-5 3/4 (1670)
<b>RO (mm)</b>	3-2 1/4 (972)	3-6 1/4 (1073)	3-10 1/4 (1175)	4-2 1/4 (1276)	4-6 1/4 (1378)	5-0 1/4 (1530)	5-6 1/4 (1683)
<b>FS (mm)</b>	3-1 1/4 (946)	3-5 1/4 (1048)	3-9 1/4 (1149)	4-1 1/4 (1251)	4-5 1/4 (1353)	4-11 1/4 (1505)	5-5 1/4 (1657)
<b>DLO (mm)</b>	30 47/64 (781)	34 47/64 (882)	38 47/64 (984)	42 47/64 (1085)	46 47/64 (984)	52 47/64 (984)	58 47/64 (1492)

2-7 3/4 (806) 2-8 (813) 2-7 1/2 (800) 10 3/4 (273)							
2-11 3/4 (908) 3-0 (914) 2-11 1/2 (902) 12 3/4 (324)							
3-3 3/4 (1010) 3-4 (1016) 3-3 1/2 (1003) 14 3/4 (375)							
3-7 3/4 (1111) 3-8 (1118) 3-7 1/2 (1105) 16 3/4 (425)							
3-11 3/4 (1213) 4-0 (1219) 3-11 1/2 (1207) 18 3/4 (476)							
4-3 3/4 (1314) 4-4 (1321) 4-3 1/2 (1308) 20 3/4 (527)							
4-7 3/4 (1416) 4-8 (1422) 4-7 1/2 (1410) 22 3/4 (578)							
4-11 3/4 (1518) 5-0 (1524) 4-11 1/2 (1511) 24 3/4 (629)							
5-3 3/4 (1619) 5-4 (1626) 5-3 1/2 (1613) 26 3/4 (679)							

### DOUBLE HUNG G2

<b>MO (mm)</b>	1-9 3/4 (552)	2-1 3/4 (654)	2-5 3/4 (756)	2-7 3/4 (806)	2-9 3/4 (857)	2-11 3/4 (908)
<b>RO (mm)</b>	1-10 1/4 (565)	2-2 1/4 (667)	2-6 1/4 (768)	2-8 1/4 (819)	2-10 1/4 (870)	3-0 1/4 (921)
<b>FS (mm)</b>	1-9 1/4 (540)	2-1 1/4 (641)	2-5 1/4 (743)	2-7 1/4 (794)	2-9 1/4 (845)	2-11 1/4 (895)
<b>DLO (mm)</b>	14 47/64 (347)	18 47/64 (476)	22 47/64 (577)	24 47/64 (628)	26 47/64 (679)	28 47/64 (730)

5-7 3/4 (1721) 5-8 (1727) 5-7 1/2 (1715) 28 3/4 (730)						
5-11 3/4 (1822) 6-0 (1829) 5-11 1/2 (1816) 30 3/4 (781)						
6-3 3/4 (1924) 6-4 (1930) 6-3 1/2 (1918) 32 3/4 (832)						
6-7 3/4 (2026) 6-8 (2032) 6-7 1/2 (2019) 34 3/4 (883)						
7-3 3/4 (2229) 7-4 (2235) 7-3 1/2 (2223) 38 3/4 (984)						
7-7 3/4 (2330) 7-8 (2337) 7-7 1/2 (2324) 40 3/4 (1035)						

Details and Elevations not to scale.  
 E These windows meet national Egress codes for fire evacuation.  
 Local codes may differ.  
 Please consult your local Marvin representative for more information.  
 For further details and drawings visit the 'Technical Specifications'  
 section at Marvin.com.

## DOUBLE HUNG G2

<b>MO (mm)</b>	3-1 3/4 (959)	3-5 3/4 (1060)	3-9 3/4 (1162)	4-1 3/4 (1264)	4-5 3/4 (1365)	4-11 3/4 (1518)	5-5 3/4 (1670)
<b>RO (mm)</b>	3-2 1/4 (972)	3-6 1/4 (1073)	3-10 1/4 (1175)	4-2 1/4 (1276)	4-6 1/4 (1378)	5-0 1/4 (1530)	5-6 1/4 (1683)
<b>FS (mm)</b>	3-1 1/4 (946)	3-5 1/4 (1048)	3-9 1/4 (1149)	4-1 1/4 (1251)	4-5 1/4 (1353)	4-11 1/4 (1505)	5-5 1/4 (1657)
<b>DLO (mm)</b>	30 47/64 (781)	34 47/64 (882)	38 47/64 (984)	42 47/64 (1085)	46 47/64 (984)	52 47/64 (984)	58 47/64 (1492)

5-7 3/4 (1721) 5-8 (1727) 5-7 1/2 (1715) 28 3/4 (730)							
5-11 3/4 (1822) 6-0 (1829) 5-11 1/2 (1816) 30 3/4 (781)							
6-3 3/4 (1924) 6-4 (1930) 6-3 1/2 (1918) 32 3/4 (832)							
6-7 3/4 (2026) 6-8 (2032) 6-7 1/2 (2019) 34 3/4 (883)							
7-3 3/4 (2228) 7-4 (2235) 7-3 1/2 (2223) 38 3/4 (984)							
7-7 3/4 (2330) 7-8 (2337) 7-7 1/2 (2324) 40 3/4 (1035)							

Details and Elevations not to scale.

E These windows meet national Egress codes for fire evacuation. Local codes may differ.

Please consult your local Marvin representative for more information.

For further details and drawings visit the "Technical Specifications" section at Marvin.com.

## DOUBLE HUNG G2

<b>MO (mm)</b>	1-9 3/4 (552)	2-1 3/4 (654)	2-5 3/4 (756)	2-7 3/4 (806)	2-9 3/4 (857)	2-11 3/4 (908)
<b>RO (mm)</b>	1-10 1/4 (565)	2-2 1/4 (667)	2-6 1/4 (768)	2-8 1/4 (819)	2-10 1/4 (870)	3-0 1/4 (921)
<b>FS (mm)</b>	1-9 1/4 (540)	2-1 1/4 (641)	2-5 1/4 (743)	2-7 1/4 (794)	2-9 1/4 (845)	2-11 1/4 (895)
<b>DLO (mm)</b>	14 47/64 (347)	18 47/64 (476)	22 47/64 (577)	24 47/64 (628)	26 47/64 (679)	28 47/64 (730)

8-11 3/4 (2737) 9-0 (2743) 8-11 1/2 (2731) 48 3/4 (1238)						
9-11 3/4 (3042) 10-0 (3048) 9-11 1/2 (3035) 54 3/4 (1391)						
10-7 3/4 (3245) 10-8 (3251) 10-7 1/2 (3239) 58 3/4 (1492)						

### COTTAGE STYLE\*

<b>MO (mm)</b>	1-9 3/4 (552)	2-1 3/4 (654)	2-5 3/4 (756)	2-7 3/4 (806)	2-9 3/4 (857)
<b>RO (mm)</b>	1-10 1/4 (565)	2-2 1/4 (667)	2-6 1/4 (768)	2-8 1/4 (819)	2-10 1/4 (870)
<b>FS (mm)</b>	1-9 1/4 (540)	2-1 1/4 (641)	2-5 1/4 (743)	2-7 1/4 (794)	2-9 1/4 (845)
<b>DLO (mm)</b>	14 47/64 (347)	18 47/64 (476)	22 47/64 (577)	24 47/64 (628)	26 47/64 (679)

5-7 3/4 (1721) 5-8 (1727) 5-7 1/2 (1715) 22 3/4 (578)/34 3/4 (883)					
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\* Cottage Formula:

1. Select the standard size double hung that will fit the rough opening
2. Subtract 7 1/2" (191) from the frame size height to get total glass height
3. Multiply the total glass height by the desired top sash ratio, this is the top sash glass height
4. Subtract the top sash height from the total glass height, this is the bottom sash glass height

### EXAMPLE:

1. UDHG2 with a 0.400 top sash ratio (<sup>2</sup>/<sub>5</sub> - <sup>3</sup>/<sub>5</sub>) cottage style. If the rough opening is 2'-2 1/4" x 4' (RO for a CUDH 2020) the frame size will be 25 1/4" x 47 1/2"
2. 47 1/2" - 7 1/2" = 40"
3. 40" multiplied by 0.400 (<sup>2</sup>/<sub>5</sub>) = 16"
4. 40" - 16" = 24"
5. The top sash will be a 2016 and the bottom sash will be a 2024. The call number for the example is: UDHG2 2016-24

## DOUBLE HUNG G2

<b>MO (mm)</b>	3-1 3/4 (959)	3-5 3/4 (1060)	3-9 3/4 (1162)	4-1 3/4 (1264)	4-5 3/4 (1365)	4-11 3/4 (1518)	5-5 3/4 (1670)
<b>RO (mm)</b>	3-2 1/4 (972)	3-6 1/4 (1073)	3-10 1/4 (1175)	4-2 1/4 (1276)	4-6 1/4 (1378)	5-0 1/4 (1530)	5-6 1/4 (1683)
<b>FS (mm)</b>	3-1 1/4 (946)	3-5 1/4 (1048)	3-9 1/4 (1149)	4-1 1/4 (1251)	4-5 1/4 (1353)	4-11 1/4 (1505)	5-5 1/4 (1657)
<b>DLO (mm)</b>	30 47/64 (781)	34 47/64 (882)	38 47/64 (984)	42 47/64 (1085)	46 47/64 (984)	52 47/64 (984)	58 47/64 (1492)

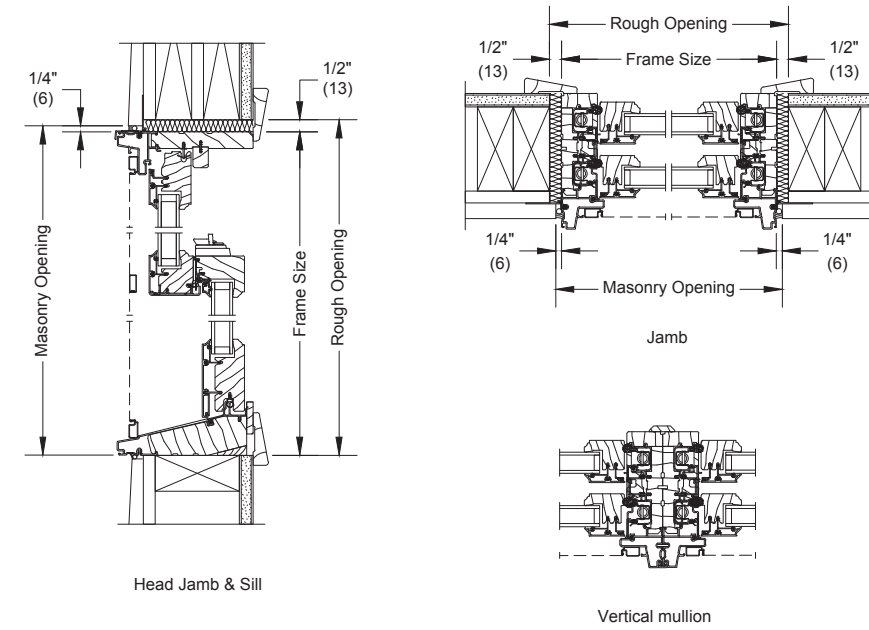
8-11 3/4 (2737) 9-0 (2743) 8-11 1/2 (2731) 48 3/4 (1238)							
9-11 3/4 (3042) 10-0 (3048) 9-11 1/2 (3035) 54 3/4 (1391)							
10-7 3/4 (3245) 10-8 (3251) 10-7 1/2 (3239) 58 3/4 (1492)							

## COTTAGE STYLE\*

<b>MO (mm)</b>	2-11 3/4 (908)	3-1 3/4 (959)	3-5 3/4 (1060)	3-9 3/4 (1162)
<b>RO (mm)</b>	3-0 1/4 (921)	3-2 1/4 (972)	3-6 1/4 (1073)	3-10 1/4 (1175)
<b>FS (mm)</b>	2-11 1/4 (895)	3-1 1/4 (946)	3-5 1/4 (1048)	3-9 1/4 (1149)
<b>DLO (mm)</b>	28 47/64 (730)	30 47/64 (781)	34 47/64 (882)	38 47/64 (984)

5-7 3/4 (1721) 5-8 (1727) 5-7 1/2 (1715) 22 3/4 (578)/34 3/4 (883)				
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## DOUBLE HUNG G2



Details and Elevations not to scale.

E These windows meet national Egress codes for fire evacuation. Local codes may differ.

\* Cottage Formula:

1. Select the standard size double hung that will fit the rough opening
2. Subtract 7 1/2" (191) from the frame size height to get total glass height
3. Multiply the total glass height by the desired top sash ratio, this is the top sash glass height
4. Subtract the top sash height from the total glass height, this is the bottom sash glass height

Please consult your local Marvin representative for more information.

For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

### DOUBLE HUNG TRANSOM G2

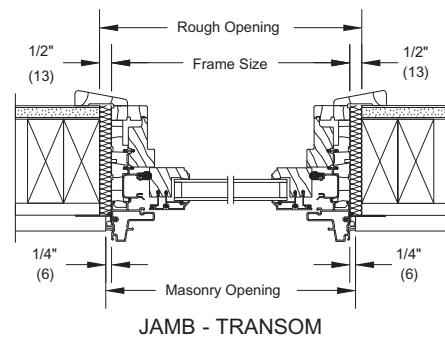
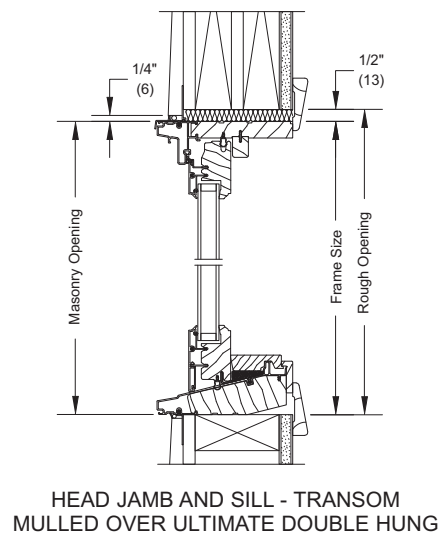
<b>MO (mm)</b>	1-9 3/4 (552)	2-1 3/4 (654)	2-5 3/4 (756)	2-7 3/4 (806)	2-9 3/4 (857)
<b>RO (mm)</b>	1-10 1/4 (565)	2-2 1/4 (667)	2-6 1/4 (768)	2-8 1/4 (819)	2-10 1/4 (870)
<b>FS (mm)</b>	1-9 1/4 (540)	2-1 1/4 (641)	2-5 1/4 (743)	2-7 1/4 (794)	2-9 1/4 (845)
<b>DLO (mm)</b>	14 47/64 (347)	18 47/64 (476)	22 47/64 (577)	24 47/64 (628)	26 47/64 (679)

1-7 15/16 (506)					
1-8 3/16 (513)					
1-7 11/16 (500)					
12 3/4 (324)					
2-3 15/16 (710)					
2-4 3/16 (716)					
2-3 11/16 (703)					
20 3/4 (527)					

<b>MO (mm)</b>	2-11 3/4 (908)	3-1 3/4 (959)	3-5 3/4 (1060)	3-9 3/4 (1162)	4-11 3/4 (1518)
<b>RO (mm)</b>	3-0 1/4 (921)	3-2 1/4 (972)	3-6 1/4 (1073)	3-10 1/4 (1175)	5-0 1/4 (1530)
<b>FS (mm)</b>	2-11 1/4 (895)	3-1 1/4 (946)	3-5 1/4 (1048)	3-9 1/4 (1149)	4-11 1/4 (1505)
<b>DLO (mm)</b>	28 47/64 (730)	30 47/64 (781)	34 47/64 (882)	38 47/64 (984)	52 47/64 (1339)

1-7 15/16 (506)					
1-8 3/16 (513)					
1-7 11/16 (500)					
12 3/4 (324)					
2-3 15/16 (710)					
2-4 3/16 (716)					
2-3 11/16 (703)					
20 3/4 (527)					

### CONSTRUCTION DETAILS



Details and Elevations not to scale.  
E These windows meet national Egress codes for fire evacuation. Local codes may differ.

Please consult your local Marvin representative for masonry openings that include casings and subsills.  
For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

Ultimate Double Hung Transom G2: UDHTRG2  
Ultimate Double Hung Picture G2: UDHPG2

### DOUBLE HUNG PICTURE G2

<b>MO (mm)</b>	3-5 3/4 (1060)	4-1 3/4 (1264)	4-5 3/4 (1365)	5-1 3/4 (1568)	5-9 3/4 (1772)
<b>RO (mm)</b>	3-6 1/4 (1073)	4-2 1/4 (1276)	4-6 1/4 (1378)	5-2 1/4 (1581)	5-10 1/4 (1784)
<b>FS (mm)</b>	3-5 1/4 (1048)	4-1 1/4 (1251)	4-5 1/4 (1353)	5-1 1/4 (1556)	5-9 1/4 (1759)
<b>DLO (mm)</b>	34 47/64 (882)	42 47/64 (1085)	46 47/64 (1187)	54 47/64 (1390)	62 47/64 (1594)

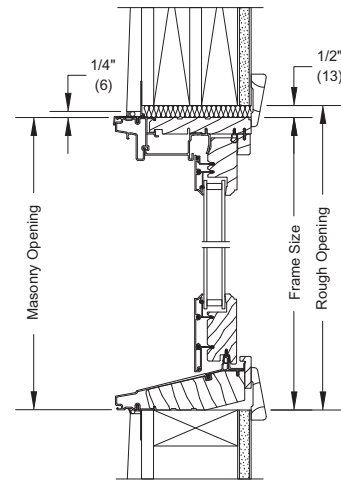
3-3 3/4 (1010)					
3-4 (1016)					
3-3 1/2 (1003)					
31 27/64 (798)					
3-7 3/4 (1111)					
3-8 (1118)					
3-7 1/2 (1105)					
35 27/64 (900)					
4-0 5/8 (1235)					
4-0 (1219)					
4-0 (1219)					
3-1 1/2 (1207)					
39 27/64 (1001)					
4-4 5/8 (1337)					
4-4 (1321)					
4-3 1/2 (1308)					
43 27/64 (1103)					
4-8 5/8 (1438)					
4-8 (1422)					
4-7 1/2 (1410)					
47 27/64 (1204)					
5-0 5/8 (1540)					
5-0 (1524)					
4-11 1/2 (1511)					
51 27/64 (1306)					
5-4 5/8 (1641)					
5-4 (1626)					
5-3 1/2 (1613)					
55 27/64 (1408)					
5-8 5/8 (1743)					
5-8 (1727)					
5-7 1/2 (1715)					
59 27/64 (1509)					
6-0 5/8 (1845)					
6-0 (1829)					
5-11 1/2 (1816)					
63 27/64 (1611)					
6-4 5/8 (1946)					
6-4 (1930)					
6-3 1/2 (1918)					
67 27/64 (1712)					



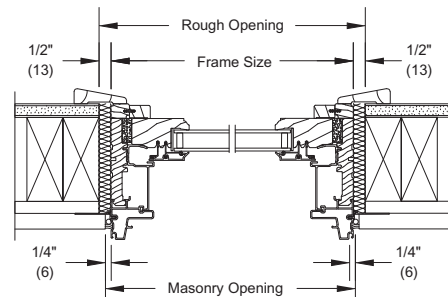
**DOUBLE HUNG PICTURE G2**

MO (mm)	3-5 3/4 (1060)	4-1 3/4 (1264)	4-5 3/4 (1365)	5-1 3/4 (1568)	5-9 3/4 (1772)
RO (mm)	3-6 1/4 (1073)	4-2 1/4 (1276)	4-6 1/4 (1378)	5-2 1/4 (1581)	5-10 1/4 (1784)
FS (mm)	3-5 1/4 (1048)	4-1 1/4 (1251)	4-5 1/4 (1353)	5-1 1/4 (1556)	5-9 1/4 (1759)
DLO (mm)	34 47/64 (882)	42 47/64 (1085)	46 47/64 (1187)	54 47/64 (1390)	62 47/64 (1594)
	6-8 5/8 (2048) 6-8 (2032) 6-7 1/2 (2019) 71 27/64 (1814)				
	UDHPG2 4078	UDHPG2 4878	UDHPG2 5278	UDHPG2 6078	UDHPG2 6878
	7-4 5/8 (2251) 7-4 (2235) 7-3 1/2 (2223) 79 27/64 (2017)				
	UDHPG2 4086	UDHPG2 4886	UDHPG2 5286	UDHPG2 6086	UDHPG2 6886
	7-8 5/8 (2353) 7-8 (2337) 7-7 1/2 (2324) 83 27/64 (2119)				
	UDHPG2 4090	UDHPG2 4890	UDHPG2 5290	UDHPG2 6090	UDHPG2 6890

**CONSTRUCTION DETAILS**



HEAD JAMB AND SILL - PICTURE



JAMB - PICTURE

Details and Elevations not to scale.  
E These windows meet national Egress codes for fire evacuation. Local codes may differ.  
Please consult your local Marvin representative for masonry openings that include casings and subsills.  
For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

**DOUBLE HUNG ROUND TOP G2**

RT6 EYEBROW ABOVE SPRINGLINE STANDARD SIZES OPERATORS

RO (mm)	1-10 1/4 (565)	2-2 1/4 (667)	2-6 1/4 (768)	2-8 1/4 (819)	2-10 1/4 (870)	3-0 1/4 (921)
RO Rad. (mm)	2-0 1/2 (622)	2-0 1/2 (622)	2-0 1/2 (622)	2-6 1/2 (775)	2-6 1/2 (775)	2-6 1/2 (775)
	2-10 31/64 (676) 2-7 13/16 (808)	2-11 19/32 (694) 2-7 25/32 (807)	3-0 31/32 (939) 2-7 3/4 (806)	3-0 25/64 (924) 2-7 29/32 (807)		
	UDHRTG2 1612	UDHRTG2 2012	UDHRTG2 2412	UDHRTG2 2612	UDHRTG2 2812	UDHRTG2 3012
	3-2 31/64 (977) 2-11 13/16 (910)	3-3 19/32 (1006) 2-11 29/32 (909)	3-4 31/32 (1041) 2-11 3/4 (908)	3-4 25/64 (1026) 2-11 29/32 (909)	3-5 1/32 (1042) 2-11 49/64 (907)	3-1 23/32 (968) 2-7 3/4 (807)
	UDHRTG2 1614	UDHRTG2 2014	UDHRTG2 2414	UDHRTG2 2614	UDHRTG2 2814	UDHRTG2 3014
	3-6 31/64 (1079) 3-3 13/16 (1011)	3-7 19/32 (1107) 3-3 29/32 (1010)	3-8 31/32 (1142) 3-3 3/4 (1010)	3-8 25/64 (1128) 3-3 29/32 (1010)	3-9 1/32 (1144) 3-3 49/64 (1010)	3-9 23/32 (1161) 3-3 3/4 (1010)
	UDHRTG2 1616	UDHRTG2 2016	UDHRTG2 2416	UDHRTG2 2616	UDHRTG2 2816	UDHRTG2 3016
	3-10 31/64 (1181) 3-7 13/16 (1113)	3-11 19/32 (1209) 3-7 25/32 (1112)	4-0 31/32 (1244) 3-7 3/4 (1111)	4-0 25/64 (1229) 3-7 25/32 (1112)	4-1 1/32 (1245) 3-7 49/64 (1112)	4-1 23/32 (1263) 3-7 3/4 (1111)
	UDHRTG2 1618	UDHRTG2 2018	UDHRTG2 2418	UDHRTG2 2618	UDHRTG2 2818	UDHRTG2 3018
	4-2 31/64 (1282) 3-11 13/16 (1214)	4-3 19/32 (1310) 3-11 25/32 (1214)	4-4 31/32 (1345) 3-11 3/4 (1213)	4-4 25/64 (1331) 3-11 25/32 (1214)	4-5 1/32 (1347) 3-11 49/64 (1213)	4-5 23/32 (1365) 3-11 3/4 (1213)
	UDHRTG2 1620	UDHRTG2 2020	UDHRTG2 2420	UDHRTG2 2620	UDHRTG2 2820	UDHRTG2 3020
	3-11 13/16 (1214) 4-3 13/16 (1316)	3-11 25/32 (1214) 4-3 25/32 (1315)	4-8 31/32 (1447) 4-3 3/4 (1314)	4-8 25/64 (1432) 4-3 25/32 (1315)	4-9 1/32 (1449) 4-3 49/64 (1315)	4-9 23/32 (1466) 4-3 3/4 (1315)
	UDHRTG2 1622	UDHRTG2 2022	UDHRTG2 2422	UDHRTG2 2622	UDHRTG2 2822	UDHRTG2 3022
	4-10 31/64 (1485) 4-7 13/16 (1418)	4-11 19/32 (1514) 4-7 25/32 (1417)	5-0 31/32 (1549) 4-7 3/4 (1416)	5-0 25/64 (1534) 4-7 25/32 (1417)	5-1 1/32 (1550) 4-7 49/64 (1416)	5-1 23/32 (1568) 4-7 3/4 (1416)
	UDHRTG2 1624	UDHRTG2 2024	UDHRTG2 2424	UDHRTG2 2624	UDHRTG2 2824	UDHRTG2 3024
	5-2 31/64 (1587) 4-11 13/16 (1519)	5-3 19/32 (1615) 4-11 25/32 (1518)	5-4 31/32 (1650) 4-11 3/4 (1518)	5-4 25/64 (1636) 4-11 25/32 (1518)	5-5 1/32 (1652) 4-11 49/64 (1518)	5-5 23/32 (1669) 4-11 3/4 (1518)
	UDHRTG2 1626	UDHRTG2 2026	UDHRTG2 2426	UDHRTG2 2626	UDHRTG2 2826	UDHRTG2 3026
	5-6 31/64 (1689) 5-3 13/16 (1621)	5-7 19/32 (1717) 5-3 25/32 (1620)	5-8 31/32 (1752) 5-3 3/4 (1619)	5-8 25/64 (1737) 5-3 25/32 (1620)	5-9 1/32 (1753) 5-3 49/64 (1620)	5-9 23/32 (1771) 5-3 3/4 (1619)
	UDHRTG2 1628	UDHRTG2 2028	UDHRTG2 2428	UDHRTG2 2628	UDHRTG2 2828	UDHRTG2 3028 E
	5-10 31/64 (1790) 5-7 13/16 (1722)	5-11 19/32 (1818) 5-7 25/32 (1722)	6-0 31/32 (1853) 5-7 3/4 (1721)	6-0 25/64 (1839) 5-7 25/32 (1722)	6-1 1/32 (1855) 5-7 49/64 (1721)	6-1 23/32 (1873) 5-7 3/4 (1721)
	UDHRTG2 1630	UDHRTG2 2030	UDHRTG2 2430	UDHRTG2 2630	UDHRTG2 2830 E	UDHRTG2 3030 E

# DOUBLE HUNG ROUND TOP G2

RT6 EYEBROW ABOVE SPRINGLINE STANDARD SIZES OPERATORS

RO (mm) RO Rad. (mm)	3-2 1/4 (972) 3-4 1/2 (1029)	3-6 1/4 (1073) 3-4 1/2 (1029)	3-10 1/4 (1175) 3-4 1/2 (1029)	4-2 1/4 (1276) 3-4 1/2 (1029)	4-6 1/4 (1378) 4-6 1/2 (1384)	5-0 1/4 (1530) 4-6 1/2 (1384)
RO (mm) RO Splin. (mm)	3-0 19/32 (930) 2-7 5/16 (808)	3-1 47/64 (958) 2-7 25/32 (807)	3-3 1/64 (991) 2-7 49/64 (807)	3-8 19/32 (1133) 3-3 31/64 (1011)	3-4 19/32 (1031) 2-11 51/64 (909)	3-4 19/32 (930) 2-7 5/16 (808)
RO (mm) RO Splin. (mm)	3-4 19/32 (1234) 3-7 51/64 (1113)	3-5 47/64 (1060) 2-11 25/32 (909)	3-7 1/64 (1093) 2-11 49/64 (908)	3-8 19/32 (1234) 3-3 31/64 (1011)	3-4 19/32 (1031) 2-11 51/64 (909)	3-4 19/32 (1031) 2-11 51/64 (909)
RO (mm) RO Splin. (mm)	4-0 19/32 (1336) 3-11 51/64 (1214)	3-9 47/64 (1161) 3-3 25/32 (1010)	3-11 1/64 (1194) 3-3 49/64 (1010)	3-8 19/32 (1234) 3-3 31/64 (1011)	3-5 47/64 (1060) 2-11 25/32 (909)	3-4 19/32 (1031) 2-11 51/64 (909)
RO (mm) RO Splin. (mm)	4-4 19/32 (1438) 4-3 51/64 (1316)	4-1 47/64 (1263) 3-7 25/32 (1112)	4-3 1/64 (1296) 3-7 49/64 (1112)	4-0 19/32 (1234) 3-3 31/64 (1011)	3-9 47/64 (1060) 2-11 25/32 (909)	3-4 19/32 (1031) 2-11 51/64 (909)
RO (mm) RO Splin. (mm)	4-8 19/32 (1539) 4-7 51/64 (1417)	4-5 47/64 (1365) 3-11 25/32 (1214)	4-7 1/64 (1397) 3-11 49/64 (1213)	4-4 19/32 (1336) 4-3 51/64 (1316)	3-8 19/32 (1234) 3-3 31/64 (1011)	3-4 19/32 (1031) 2-11 51/64 (909)
RO (mm) RO Splin. (mm)	5-0 19/32 (1641) 4-7 51/64 (1519)	5-1 47/64 (1466) 4-3 25/32 (1315)	5-1 1/64 (1499) 4-3 49/64 (1315)	4-8 19/32 (1336) 4-3 51/64 (1316)	3-9 47/64 (1060) 2-11 25/32 (909)	3-4 19/32 (1031) 2-11 51/64 (909)
RO (mm) RO Splin. (mm)	5-4 19/32 (1742) 5-3 51/64 (1621)	5-5 47/64 (1669) 4-11 25/32 (1518)	5-3 1/64 (1601) 4-7 49/64 (1416)	5-0 19/32 (1336) 4-3 51/64 (1316)	3-9 47/64 (1060) 2-11 25/32 (909)	3-4 19/32 (1031) 2-11 51/64 (909)
RO (mm) RO Splin. (mm)	5-8 19/32 (1844) 5-7 51/64 (1722)	5-9 47/64 (1771) 5-3 25/32 (1620)	5-7 1/64 (1702) 4-11 49/64 (1518)	5-4 19/32 (1336) 4-3 51/64 (1316)	3-9 47/64 (1060) 2-11 25/32 (909)	3-4 19/32 (1031) 2-11 51/64 (909)
RO (mm) RO Splin. (mm)	6-0 19/32 (1844) 5-7 51/64 (1722)	6-1 47/64 (1873) 5-7 25/32 (1620)	6-1 1/64 (1804) 5-3 49/64 (1620)	5-8 19/32 (1336) 4-3 51/64 (1316)	3-9 47/64 (1060) 2-11 25/32 (909)	3-4 19/32 (1031) 2-11 51/64 (909)
RO (mm) RO Splin. (mm)	6-3 1/64 (1905) 5-7 49/64 (1721)	6-4 1/64 (1943) 5-7 3/4 (1721)	6-3 1/64 (1804) 5-3 49/64 (1620)	5-8 19/32 (1336) 4-3 51/64 (1316)	3-9 47/64 (1060) 2-11 25/32 (909)	3-4 19/32 (1031) 2-11 51/64 (909)
RO (mm) RO Splin. (mm)	6-3 1/64 (1906) 5-7 51/64 (1722)	6-3 1/64 (1943) 5-7 3/4 (1721)	6-3 1/64 (1804) 5-3 49/64 (1620)	5-8 19/32 (1336) 4-3 51/64 (1316)	3-9 47/64 (1060) 2-11 25/32 (909)	3-4 19/32 (1031) 2-11 51/64 (909)
RO (mm) RO Splin. (mm)	6-4 55/64 (1952) 5-7 49/64 (1721)	6-0 55/64 (1850) 5-3 49/64 (1620)	6-0 55/64 (1850) 5-3 49/64 (1620)	5-8 19/32 (1336) 4-3 51/64 (1316)	3-9 47/64 (1060) 2-11 25/32 (909)	3-4 19/32 (1031) 2-11 51/64 (909)
RO (mm) RO Splin. (mm)	6-4 55/64 (1952) 5-7 49/64 (1721)	6-0 55/64 (1850) 5-3 49/64 (1620)	6-0 55/64 (1850) 5-3 49/64 (1620)	5-8 19/32 (1336) 4-3 51/64 (1316)	3-9 47/64 (1060) 2-11 25/32 (909)	3-4 19/32 (1031) 2-11 51/64 (909)
RO (mm) RO Splin. (mm)	6-4 55/64 (1952) 5-7 49/64 (1721)	6-0 55/64 (1850) 5-3 49/64 (1620)	6-0 55/64 (1850) 5-3 49/64 (1620)	5-8 19/32 (1336) 4-3 51/64 (1316)	3-9 47/64 (1060) 2-11 25/32 (909)	3-4 19/32 (1031) 2-11 51/64 (909)
RO (mm) RO Splin. (mm)	6-4 55/64 (1952) 5-7 49/64 (1721)	6-0 55/64 (1850) 5-3 49/64 (1620)	6-0 55/64 (1850) 5-3 49/64 (1620)	5-8 19/32 (1336) 4-3 51/64 (1316)	3-9 47/64 (1060) 2-11 25/32 (909)	3-4 19/32 (1031) 2-11 51/64 (909)

# DOUBLE HUNG ROUND TOP G2

RT6 EYEBROW ABOVE SPRINGLINE STANDARD SIZES OPERATORS

RO (mm) RO Rad. (mm)	1-10 1/4 (565) 2-0 1/2 (622)	2-2 1/4 (667) 2-0 1/2 (622)	2-6 1/4 (768) 2-0 1/2 (622)	2-8 1/4 (819) 2-6 1/2 (775)	2-10 1/4 (870) 2-6 1/2 (775)	3-0 1/4 (921) 2-6 1/2 (775)
RO (mm) RO Splin. (mm)	6-2 31/64 (1892) 5-11 13/16 (1824)	6-3 19/32 (1920) 5-11 25/32 (1823)	6-4 31/32 (1965) 5-11 3/4 (1822)	6-4 25/64 (1940) 5-11 25/32 (1823)	6-5 1/32 (1957) 5-11 49/64 (1823)	6-5 23/32 (1974) 5-11 3/4 (1823)
RO (mm) RO Splin. (mm)	6-6 31/64 (1993) 6-3 13/16 (1926)	6-7 19/32 (2022) 6-3 25/32 (1925)	6-8 31/32 (2057) 6-3 3/4 (1924)	6-8 25/64 (2042) 6-3 25/32 (1925)	6-9 1/32 (2058) 6-3 49/64 (1924)	6-9 23/32 (2076) 6-3 3/4 (1924)
RO (mm) RO Splin. (mm)	6-10 31/64 (2095) 6-7 13/16 (2027)	6-11 19/32 (2123) 6-7 25/32 (2026)	7-0 31/32 (2158) 6-7 3/4 (2026)	7-0 25/64 (2144) 6-7 25/32 (2026)	7-1 1/32 (2160) 6-7 49/64 (2026)	7-1 23/32 (2177) 6-7 3/4 (2026)
RO (mm) RO Splin. (mm)	7-6 31/64 (2298) 7-3 13/16 (2230)	7-7 19/32 (2326) 7-3 25/32 (2230)	7-8 31/32 (2361) 7-3 3/4 (2228)	7-8 25/64 (2347) 7-3 25/32 (2230)	7-9 1/32 (2363) 7-3 49/64 (2229)	7-9 23/32 (2381) 7-3 3/4 (2229)
RO (mm) RO Splin. (mm)	7-10 31/64 (2400) 7-7 13/16 (2332)	7-11 19/32 (2428) 7-7 25/32 (2331)	8-0 31/32 (2463) 7-7 3/4 (2330)	8-0 25/64 (2448) 7-7 25/32 (2331)	8-1 1/32 (2465) 7-7 49/64 (2331)	8-1 23/32 (2482) 7-7 3/4 (2331)
RO (mm) RO Splin. (mm)	7-6 31/64 (2298) 7-3 13/16 (2230)	7-7 19/32 (2326) 7-3 25/32 (2230)	7-8 31/32 (2361) 7-3 3/4 (2228)	7-8 25/64 (2347) 7-3 25/32 (2230)	7-9 1/32 (2363) 7-3 49/64 (2229)	7-9 23/32 (2381) 7-3 3/4 (2229)
RO (mm) RO Splin. (mm)	7-10 31/64 (2400) 7-7 13/16 (2332)	7-11 19/32 (2428) 7-7 25/32 (2331)	8-0 31/32 (2463) 7-7 3/4 (2330)	8-0 25/64 (2448) 7-7 25/32 (2331)	8-1 1/32 (2465) 7-7 49/64 (2331)	8-1 23/32 (2482) 7-7 3/4 (2331)
RO (mm) RO Splin. (mm)	8-2 31/64 (2506) 8-11 13/16 (2438)	8-3 19/32 (2534) 8-11 25/32 (2437)	8-4 31/32 (2569) 8-11 3/4 (2437)	8-4 25/64 (2554) 8-11 25/32 (2437)	8-5 1/32 (2571) 8-11 49/64 (2437)	8-5 23/32 (2589) 8-11 3/4 (2437)
RO (mm) RO Splin. (mm)	8-2 31/64 (2506) 8-11 13/16 (2438)	8-3 19/32 (2534) 8-11 25/32 (2437)	8-4 31/32 (2569) 8-11 3/4 (2437)	8-4 25/64 (2554) 8-11 25/32 (2437)	8-5 1/32 (2571) 8-11 49/64 (2437)	8-5 23/32 (2589) 8-11 3/4 (2437)
RO (mm) RO Splin. (mm)	8-2 31/64 (2506) 8-11 13/16 (2438)	8-3 19/32 (2534) 8-11 25/32 (2437)	8-4 31/32 (2569) 8-11 3/4 (2437)	8-4 25/64 (2554) 8-11 25/32 (2437)	8-5 1/32 (2571) 8-11 49/64 (2437)	8-5 23/32 (2589) 8-11 3/4 (2437)
RO (mm) RO Splin. (mm)	8-2 31/64 (2506) 8-11 13/16 (2438)	8-3 19/32 (2534) 8-11 25/32 (2437)	8-4 31/32 (2569) 8-11 3/4 (2437)	8-4 25/64 (2554) 8-11 25/32 (2437)	8-5 1/32 (2571) 8-11 49/64 (2437)	8-5 23/32 (2589) 8-11 3/4 (2437)

# DOUBLE HUNG ROUND TOP G2

RT6 EYEBROW ABOVE SPRINGLINE STANDARD SIZES OPERATORS

RO (mm)	3-2 1/4 (972)	3-6 1/4 (1073)	3-10 1/4 (1175)	4-2 1/4 (1276)	4-6 1/4 (1378)	5-0 1/4 (1530)
RO Rad. (mm)	3-4 1/2 (1029)	3-4 1/2 (1029)	3-4 1/2 (1029)	3-4 1/2 (1029)	4-6 1/2 (1384)	4-6 1/2 (1384)
RO (mm)	6-4 19/32 (1946)	6-5 47/64 (1974)	6-7 1/64 (2007)	6-8 31/64 (2044)	6-7 1/64 (2007)	6-8 55/64 (2054)
RO Spln. (mm)	5-11 51/64 (1824)	5-11 25/32 (1823)	5-11 49/64 (1823)	5-11 3/4 (1822)	5-11 51/64 (1823)	5-11 49/64 (1823)
	UDHRTG2 3232 E	UDHRTG2 3632 E	UDHRTG2 4032 E	UDHRTG2 4432 E	UDHRTG2 4832 E	UDHRTG2 5432 E
RO (mm)	6-8 19/32 (2047)	6-9 47/64 (2076)	6-11 1/64 (2109)	7-0 31/64 (2146)	6-11 1/64 (2109)	7-0 55/64 (2155)
RO Spln. (mm)	6-3 51/64 (1925)	6-3 25/32 (1925)	6-3 49/64 (1924)	6-3 3/4 (1924)	6-3 51/64 (1925)	6-3 49/64 (1925)
	UDHRTG2 3234 E	UDHRTG2 3634 E	UDHRTG2 4034 E	UDHRTG2 4434 E	UDHRTG2 4834 E	UDHRTG2 5434 E
RO (mm)	7-0 19/32 (2149)	7-1 47/64 (2177)	7-3 1/64 (2210)	7-4 31/64 (2247)	7-3 1/64 (2210)	7-4 55/64 (2257)
RO Spln. (mm)	6-7 51/64 (2027)	6-7 25/32 (2026)	6-7 49/64 (2026)	6-7 3/4 (2025)	6-7 51/64 (2027)	6-7 49/64 (2026)
	UDHRTG2 3236 E	UDHRTG2 3636 E	UDHRTG2 4036 E	UDHRTG2 4436 E	UDHRTG2 4836 E	UDHRTG2 5436 E
RO (mm)	7-8 19/32 (2352)	7-9 47/64 (2381)	7-11 1/64 (2413)	8-0 31/64 (2451)	7-11 1/64 (2414)	8-0 55/64 (2460)
RO Spln. (mm)	7-3 51/64 (2230)	7-3 25/32 (2230)	7-3 49/64 (2229)	7-3 3/4 (2229)	7-3 51/64 (2230)	7-3 49/64 (2229)
	UDHRTG2 3240 E	UDHRTG2 3640 E	UDHRTG2 4040 E	UDHRTG2 4440 E	UDHRTG2 4840 E	UDHRTG2 5440 E
RO (mm)	8-0 19/32 (2454)	8-1 47/64 (2482)	8-3 1/64 (2515)	8-4 31/64 (2552)	8-3 1/64 (2515)	8-4 55/64 (2562)
RO Spln. (mm)	7-7 51/64 (2332)	7-7 25/32 (2331)	7-7 49/64 (2331)	7-7 3/4 (2330)	7-7 51/64 (2331)	7-7 49/64 (2331)
	UDHRTG2 3242 E	UDHRTG2 3642 E	UDHRTG2 4042 E	UDHRTG2 4442 E	UDHRTG2 4842 E	UDHRTG2 5442 E
RO (mm)	9-4 19/32 (2860)	9-5 47/64 (2889)	9-7 1/64 (2921)	9-8 31/64 (2959)	9-7 1/64 (2921)	9-8 55/64 (2968)
RO Spln. (mm)	8-11 51/64 (2738)	8-11 25/32 (2738)	8-11 49/64 (2737)	8-11 3/4 (2737)	8-11 51/64 (2738)	8-11 49/64 (2737)
	UDHRTG2 3250 E	UDHRTG2 3650 E	UDHRTG2 4050 E	UDHRTG2 4450 E	UDHRTG2 4850 E	UDHRTG2 5450 E

# DOUBLE HUNG ROUND TOP G2

RT2 HALF CIRCLE ABOVE SPRINGLINE STANDARD SIZES OPERATORS

RO (mm)	2-2 1/4 (667)	2-6 1/4 (768)	2-8 1/4 (819)	2-10 1/4 (870)	3-0 1/4 (921)	3-2 1/4 (972)
RO Rad. (mm)	1-1 1/8 (333)	1-3 1/8 (384)	1-4 1/8 (410)	1-5 1/8 (435)	1-6 1/8 (460)	1-7 1/8 (486)
RO (mm)	3-8 5/8 (1133)	3-10 5/8 (1184)	3-11 5/8 (1210)	4-0 5/8 (1235)	4-1 5/8 (1260)	4-2 5/8 (1286)
RO Spln. (mm)	2-7 25/32 (807)	2-7 3/4 (806)	2-7 25/32 (807)	2-7 49/64 (807)	2-7 3/4 (807)	2-7 51/64 (808)
	UDHRTG2 2012	UDHRTG2 2412	UDHRTG2 2612	UDHRTG2 2812	UDHRTG2 3012	UDHRTG2 3212
RO (mm)	4-0 5/8 (1235)	4-2 5/8 (1286)	4-3 5/8 (1311)	4-4 5/8 (1337)	4-5 5/8 (1362)	4-6 5/8 (1387)
RO Spln. (mm)	2-11 25/32 (909)	2-11 3/4 (908)	2-11 25/32 (909)	2-11 49/64 (908)	2-11 3/4 (908)	2-11 51/64 (909)
	UDHRTG2 2014	UDHRTG2 2414	UDHRTG2 2614	UDHRTG2 2814	UDHRTG2 3014	UDHRTG2 3214
RO (mm)	4-4 5/8 (1337)	4-6 5/8 (1387)	4-7 5/8 (1413)	4-8 5/8 (1438)	4-9 5/8 (1464)	4-10 5/8 (1489)
RO Spln. (mm)	3-3 25/32 (1010)	3-3 3/4 (1010)	3-3 25/32 (1010)	3-3 49/64 (1010)	3-3 3/4 (1010)	3-3 51/64 (1011)
	UDHRTG2 2016	UDHRTG2 2416	UDHRTG2 2616	UDHRTG2 2816	UDHRTG2 3016	UDHRTG2 3216
RO (mm)	4-8 5/8 (1438)	4-10 5/8 (1489)	4-11 5/8 (1514)	5-0 5/8 (1540)	5-1 5/8 (1565)	5-2 5/8 (1591)
RO Spln. (mm)	3-7 25/32 (1112)	3-7 3/4 (1111)	3-7 25/32 (1112)	3-7 49/64 (1112)	3-7 3/4 (1111)	3-7 51/64 (1113)
	UDHRTG2 2018	UDHRTG2 2418	UDHRTG2 2618	UDHRTG2 2818	UDHRTG2 3018	UDHRTG2 3218
RO (mm)	5-0 5/8 (1540)	5-2 5/8 (1591)	5-3 5/8 (1616)	5-4 5/8 (1641)	5-5 5/8 (1667)	5-6 5/8 (1692)
RO Spln. (mm)	3-11 25/32 (1214)	3-11 3/4 (1213)	3-11 25/32 (1214)	3-11 49/64 (1213)	3-11 3/4 (1213)	3-11 51/64 (1214)
	UDHRTG2 2020	UDHRTG2 2420	UDHRTG2 2620	UDHRTG2 2820	UDHRTG2 3020	UDHRTG2 3220
RO (mm)	5-4 5/8 (1641)	5-6 5/8 (1692)	5-7 5/8 (1718)	5-8 5/8 (1743)	5-9 5/8 (1768)	5-10 5/8 (1794)
RO Spln. (mm)	4-3 25/32 (1315)	4-3 3/4 (1314)	4-3 25/32 (1315)	4-3 49/64 (1315)	4-3 3/4 (1315)	4-3 51/64 (1316)
	UDHRTG2 2022	UDHRTG2 2422	UDHRTG2 2622	UDHRTG2 2822	UDHRTG2 3022	UDHRTG2 3222
RO (mm)	5-8 5/8 (1743)	5-10 5/8 (1794)	5-11 5/8 (1819)	6-0 5/8 (1845)	6-1 5/8 (1870)	6-2 5/8 (1895)
RO Spln. (mm)	4-7 25/32 (1417)	4-7 3/4 (1416)	4-7 25/32 (1417)	4-7 49/64 (1416)	4-7 3/4 (1416)	4-7 51/64 (1417)
	UDHRTG2 2024	UDHRTG2 2424	UDHRTG2 2624	UDHRTG2 2824	UDHRTG2 3024	UDHRTG2 3224
RO (mm)	6-0 5/8 (1845)	6-2 5/8 (1895)	6-3 5/8 (1921)	6-4 5/8 (1946)	6-5 5/8 (1972)	6-6 5/8 (1997)
RO Spln. (mm)	4-11 25/32 (1518)	4-11 3/4 (1518)	4-11 25/32 (1518)	4-11 49/64 (1518)	4-11 3/4 (1518)	4-11 51/64 (1519)
	UDHRTG2 2026	UDHRTG2 2426	UDHRTG2 2626	UDHRTG2 2826	UDHRTG2 3026	UDHRTG2 3226 E

### DOUBLE HUNG ROUND TOP G2

RT2 HALF CIRCLE ABOVE SPRINGLINE STANDARD SIZES OPERATORS

RO (mm)	3-6 1/4 (1073)	3-10 1/4 (1175)	4-2 1/4 (1276)	4-6 1/4 (1378)	5-0 1/4 (1530)
RO Rad. (mm)	1-9 1/8 (537)	1-11 1/8 (587)	2-1 1/8 (638)	2-3 1/8 (689)	2-6 1/8 (765)
RO (mm)	4-4 5/8 (1337)	4-6 5/8 (1387)	4-8 5/8 (1438)	4-10 5/8 (1489)	5-1 5/8 (1565)
RO Splin. (mm)	2-7 25/32 (807)	2-7 49/64 (807)	2-7 3/4 (806)	2-7 51/64 (807)	2-7 49/64 (807)
UDHRTG2 3612		UDHRTG2 4012	UDHRTG2 4412	UDHRTG2 4812	UDHRTG2 5412
RO (mm)	4-8 5/8 (1438)	4-10 5/8 (1489)	5-0 5/8 (1540)	5-5 5/8 (1667)	5-5 5/8 (1667)
RO Splin. (mm)	2-11 25/32 (909)	2-11 49/64 (908)	2-11 3/4 (908)	2-11 49/64 (909)	2-11 49/64 (909)
UDHRTG2 3614		UDHRTG2 4014	UDHRTG2 4414	UDHRTG2 4814	UDHRTG2 5414
RO (mm)	5-0 5/8 (1540)	5-2 5/8 (1591)	5-6 5/8 (1692)	5-9 5/8 (1768)	5-9 5/8 (1768)
RO Splin. (mm)	3-3 25/32 (1010)	3-3 49/64 (1010)	3-3 3/4 (1009)	3-3 49/64 (1010)	3-3 49/64 (1010)
UDHRTG2 3616		UDHRTG2 4016	UDHRTG2 4416	UDHRTG2 4816	UDHRTG2 5416
RO (mm)	5-4 5/8 (1641)	5-6 5/8 (1692)	5-8 5/8 (1743)	6-1 5/8 (1870)	6-1 5/8 (1870)
RO Splin. (mm)	3-7 25/32 (1112)	3-7 49/64 (1112)	3-7 3/4 (1111)	3-7 49/64 (1112)	3-7 49/64 (1112)
UDHRTG2 3618		UDHRTG2 4018	UDHRTG2 4418	UDHRTG2 4818	UDHRTG2 5418
RO (mm)	5-8 5/8 (1743)	6-0 5/8 (1794)	6-2 5/8 (1845)	6-5 5/8 (1972)	6-5 5/8 (1972)
RO Splin. (mm)	3-11 25/32 (1214)	3-11 49/64 (1213)	3-11 3/4 (1213)	3-11 49/64 (1213)	3-11 49/64 (1213)
UDHRTG2 3620		UDHRTG2 4020	UDHRTG2 4420	UDHRTG2 4820	UDHRTG2 5420
RO (mm)	6-0 5/8 (1845)	6-2 5/8 (1895)	6-4 5/8 (1946)	6-6 5/8 (1997)	6-6 5/8 (1997)
RO Splin. (mm)	4-3 25/32 (1315)	4-3 49/64 (1315)	4-3 3/4 (1314)	4-3 51/64 (1315)	4-3 49/64 (1315)
UDHRTG2 3622		UDHRTG2 4022	UDHRTG2 4422	UDHRTG2 4822	UDHRTG2 5422
RO (mm)	6-4 5/8 (1946)	6-6 5/8 (1997)	6-8 5/8 (2048)	7-1 5/8 (2175)	7-1 5/8 (2175)
RO Splin. (mm)	4-7 25/32 (1417)	4-7 49/64 (1416)	4-7 3/4 (1416)	4-7 49/64 (1417)	4-7 49/64 (1417)
UDHRTG2 3624		UDHRTG2 4024	UDHRTG2 4424	UDHRTG2 4824	UDHRTG2 5424
RO (mm)	6-8 5/8 (2048)	7-0 5/8 (2099)	7-2 5/8 (2149)	7-5 5/8 (2276)	7-5 5/8 (2276)
RO Splin. (mm)	4-11 25/32 (1518)	4-11 49/64 (1518)	4-11 3/4 (1517)	4-11 51/64 (1519)	4-11 49/64 (1518)
UDHRTG2 3626 E		UDHRTG2 4026 E	UDHRTG2 4426 E	UDHRTG2 4826 E	UDHRTG2 5426 E

### DOUBLE HUNG ROUND TOP G2

RT2 HALF CIRCLE ABOVE SPRINGLINE STANDARD SIZES OPERATORS

RO (mm)	2-2 1/4 (667)	2-6 1/4 (768)	2-8 1/4 (819)	2-10 1/4 (870)	3-0 1/4 (921)	3-2 1/4 (972)
RO Rad. (mm)	1-1 1/8 (333)	1-3 1/8 (384)	1-4 1/8 (410)	1-5 1/8 (435)	1-6 1/8 (460)	1-7 1/8 (486)
RO (mm)	6-4 5/8 (1946)	6-6 5/8 (1997)	6-7 5/8 (2022)	6-8 5/8 (2048)	6-9 5/8 (2073)	6-10 5/8 (2099)
RO Splin. (mm)	5-3 25/32 (1620)	5-3 3/4 (1619)	5-3 25/32 (1620)	5-3 49/64 (1620)	5-3 3/4 (1619)	5-3 51/64 (1621)
UDHRTG2 2028		UDHRTG2 2428	UDHRTG2 2628	UDHRTG2 2828	UDHRTG2 3028 E	UDHRTG2 3228 E
RO (mm)	6-8 5/8 (2048)	6-10 5/8 (2099)	6-11 5/8 (2124)	7-0 5/8 (2149)	7-1 5/8 (2175)	7-2 5/8 (2200)
RO Splin. (mm)	5-7 25/32 (1722)	5-7 3/4 (1721)	5-7 25/32 (1722)	5-7 49/64 (1721)	5-7 3/4 (1721)	5-7 51/64 (1722)
UDHRTG2 2030		UDHRTG2 2430	UDHRTG2 2630	UDHRTG2 2830 E	UDHRTG2 3030 E	UDHRTG2 3230 E
RO (mm)	7-0 5/8 (2149)	7-2 5/8 (2200)	7-3 5/8 (2226)	7-4 5/8 (2251)	7-5 5/8 (2276)	7-6 5/8 (2302)
RO Splin. (mm)	5-11 25/32 (1823)	5-11 3/4 (1822)	5-11 25/32 (1823)	5-11 49/64 (1823)	5-11 3/4 (1823)	5-11 51/64 (1824)
UDHRTG2 2032		UDHRTG2 2432	UDHRTG2 2632 E	UDHRTG2 2832 E	UDHRTG2 3032 E	UDHRTG2 3232 E
RO (mm)	7-4 5/8 (2251)	7-6 5/8 (2302)	7-7 5/8 (2327)	7-8 5/8 (2353)	7-9 5/8 (2378)	7-10 5/8 (2403)
RO Splin. (mm)	6-3 25/32 (1925)	6-3 3/4 (1924)	6-3 25/32 (1925)	6-3 49/64 (1924)	6-3 3/4 (1924)	6-3 51/64 (1925)
UDHRTG2 2034		UDHRTG2 2434 E	UDHRTG2 2634 E	UDHRTG2 2834 E	UDHRTG2 3034 E	UDHRTG2 3234 E
RO (mm)	7-8 5/8 (2353)	7-10 5/8 (2403)	7-11 5/8 (2429)	8-0 5/8 (2454)	8-1 5/8 (2480)	8-2 5/8 (2505)
RO Splin. (mm)	6-7 25/32 (2026)	6-7 3/4 (2026)	6-7 25/32 (2026)	6-7 49/64 (2026)	6-7 3/4 (2026)	6-7 51/64 (2027)
UDHRTG2 2036		UDHRTG2 2436 E	UDHRTG2 2636 E	UDHRTG2 2836 E	UDHRTG2 3036 E	UDHRTG2 3236 E
RO (mm)	8-4 5/8 (2556)	8-6 5/8 (2607)	8-7 5/8 (2632)	8-8 5/8 (2657)	8-9 5/8 (2683)	8-10 5/8 (2708)
RO Splin. (mm)	7-3 25/32 (2230)	7-3 3/4 (2229)	7-3 25/32 (2230)	7-3 49/64 (2229)	7-3 3/4 (2229)	7-3 51/64 (2230)
UDHRTG2 2040 E		UDHRTG2 2440 E	UDHRTG2 2640 E	UDHRTG2 2840 E	UDHRTG2 3040 E	UDHRTG2 3240 E
RO (mm)	8-8 5/8 (2657)	8-10 5/8 (2708)	8-11 5/8 (2734)	9-0 5/8 (2759)	9-1 5/8 (2784)	9-2 5/8 (2810)
RO Splin. (mm)	7-7 25/32 (2331)	7-7 3/4 (2330)	7-7 25/32 (2331)	7-7 49/64 (2331)	7-7 3/4 (2331)	7-7 51/64 (2332)
UDHRTG2 2042 E		UDHRTG2 2442 E	UDHRTG2 2642 E	UDHRTG2 2842 E	UDHRTG2 3042 E	UDHRTG2 3242 E

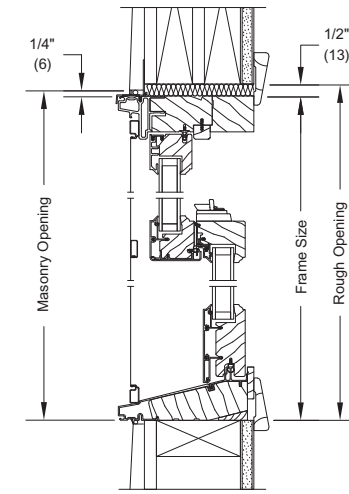
# DOUBLE HUNG ROUND TOP G2

RT2 HALF CIRCLE ABOVE SPRINGLINE STANDARD SIZES OPERATORS

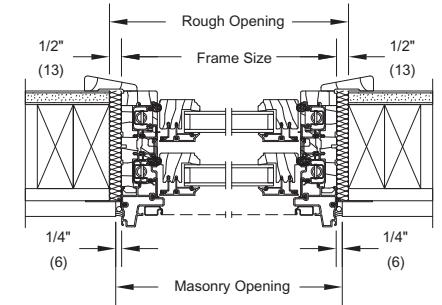
RO (mm)	3-6 1/4 (1073)	3-10 1/4 (1175)	4-2 1/4 (1276)	4-6 1/4 (1378)	5-0 1/4 (1530)
RO Rad. (mm)	1-9 1/8 (537)	1-11 1/8 (587)	2-1 1/8 (638)	2-3 1/8 (689)	2-6 1/8 (765)
RO (mm)	7-0 5/8 (2149)	7-2 5/8 (2200)	7-4 5/8 (2251)	7-6 5/8 (2302)	7-9 5/8 (2378)
RO Spin. (mm)	5-3 25/32 (1620)	5-3 49/64 (1620)	5-3 3/4 (1619)	5-3 51/64 (1620)	5-3 49/64 (1620)
RO (mm)	7-4 5/8 (2251)	7-6 5/8 (2302)	7-8 5/8 (2353)	7-10 5/8 (2403)	8-1 5/8 (2480)
RO Spin. (mm)	5-7 25/32 (1722)	5-7 49/64 (1721)	5-7 3/4 (1721)	5-7 51/64 (1722)	5-7 49/64 (1721)
RO (mm)	7-8 5/8 (2353)	7-10 5/8 (2403)	8-0 5/8 (2454)	8-2 5/8 (2505)	8-5 5/8 (2581)
RO Spin. (mm)	5-11 25/32 (1823)	5-11 49/64 (1823)	5-11 3/4 (1822)	5-11 51/64 (1823)	5-11 49/64 (1823)
RO (mm)	8-0 5/8 (2454)	8-2 5/8 (2505)	8-4 5/8 (2556)	8-6 5/8 (2607)	8-9 5/8 (2683)
RO Spin. (mm)	6-3 25/32 (1925)	6-3 49/64 (1924)	6-3 3/4 (1924)	6-3 51/64 (1925)	6-3 49/64 (1925)
RO (mm)	8-4 5/8 (2556)	8-6 5/8 (2607)	8-8 5/8 (2657)	8-10 5/8 (2708)	9-1 5/8 (2784)
RO Spin. (mm)	6-7 25/32 (2026)	6-7 49/64 (2026)	6-7 3/4 (2025)	6-7 51/64 (2027)	6-7 49/64 (2026)
RO (mm)	9-0 5/8 (2759)	9-2 5/8 (2810)	9-4 5/8 (2861)	9-6 5/8 (2911)	9-9 5/8 (2988)
RO Spin. (mm)	7-3 25/32 (2230)	7-3 49/64 (2229)	7-3 3/4 (2229)	7-3 51/64 (2230)	7-3 49/64 (2229)
RO (mm)	9-4 5/8 (2861)	9-6 5/8 (2911)	9-8 5/8 (2962)	9-10 5/8 (3013)	9-9 5/8 (2988)
RO Spin. (mm)	7-7 25/32 (2331)	7-7 49/64 (2331)	7-7 3/4 (2330)	7-7 51/64 (2331)	7-7 49/64 (2331)
RO (mm)	9-8 5/8 (2962)	9-10 5/8 (3013)	9-12 5/8 (3064)	9-14 5/8 (3115)	9-17 5/8 (3191)
RO Spin. (mm)	7-7 25/32 (2331)	7-7 49/64 (2331)	7-7 3/4 (2330)	7-7 51/64 (2331)	7-7 49/64 (2331)

# DOUBLE HUNG ROUND TOP G2

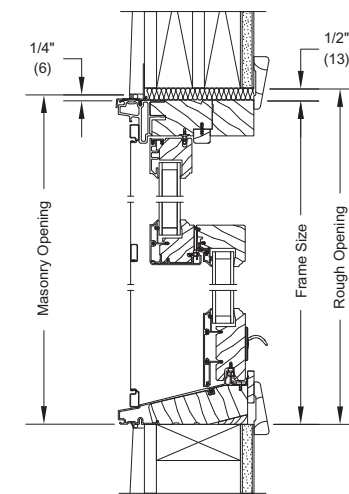
CONSTRUCTION DETAILS - OPERATOR



HEAD JAMB AND SILL - OPERATOR



JAMB - OPERATOR



HEAD JAMB AND SILL - OPERATOR WITH LIFT LOCK

# DOUBLE HUNG TRANSOM ROUND TOP G2

## RT6 TRANSOM EYEBROW ABOVE SPRINGLINE

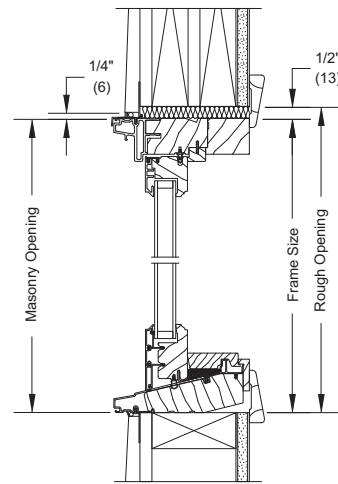
RO (mm) RO Rad. (mm)	1-10 1/4 (565) 2-0 1/2 (622)	2-2 1/4 (667) 2-0 1/2 (622)	2-6 1/4 (768) 2-0 1/2 (622)	2-8 1/4 (819) 2-6 1/2 (775)	2-10 1/4 (870) 2-6 1/2 (775)
RO (mm) RO Spln. (mm)	1-10 43/64 (576) 1-8 (508)	1-11 25/32 (604) 1-7 31/32 (507)	2-1 5/32 (639) 1-7 15/16 (506)	2-0 37/64 (624) 1-7 31/32 (507)	2-1 7/32 (640) 1-7 61/64 (507)
	UDHTRRTG2 1612	UDHTRRTG2 2012	UDHTRRTG2 2412	UDHTRRTG2 2612	UDHTRRTG2 2812
RO (mm) RO Spln. (mm)	2-6 43/64 (779) 2-4 (711)	2-7 25/32 (807) 2-3 31/32 (710)	2-9 5/32 (842) 2-3 15/16 (709)	2-8 37/64 (827) 2-3 31/32 (710)	2-9 7/32 (844) 2-3 61/64 (710)
	UDHTRRTG2 1620	UDHTRRTG2 2020	UDHTRRTG2 2420	UDHTRRTG2 2620	UDHTRRTG2 2820
RO (mm) RO Spln. (mm)	2-9 29/32 (858) 2-3 15/16 (710)	2-0 25/32 (630) 1-7 63/64 (508)	2-1 59/64 (656) 1-7 31/32 (507)	2-3 13/64 (691) 1-7 61/64 (507)	2-5 3/64 (738) 1-7 61/64 (507)
	UDHTRRTG2 3012	UDHTRRTG2 3212	UDHTRRTG2 3612	UDHTRRTG2 4012	UDHTRRTG2 5412
RO (mm) RO Spln. (mm)	2-9 29/32 (861) 2-3 15/16 (710)	2-8 25/32 (833) 2-3 63/64 (711)	2-9 59/64 (861) 2-3 31/32 (710)	2-11 13/64 (894) 2-3 61/64 (710)	3-1 3/64 (941) 2-3 61/64 (710)
	UDHTRRTG2 3020	UDHTRRTG2 3220	UDHTRRTG2 3620	UDHTRRTG2 4020	UDHTRRTG2 5420
RO (mm) RO Rad. (mm)	3-0 1/4 (921) 2-6 1/2 (775)	3-2 1/4 (972) 3-4 1/2 (1029)	3-6 1/4 (1073) 3-4 1/2 (1029)	3-10 1/4 (1175) 3-4 1/2 (1029)	5-0 1/4 (1530) 4-6 1/2 (1384)
RO (mm) RO Spln. (mm)	2-1 29/32 (658) 1-7 15/16 (507)	2-0 25/32 (630) 1-7 63/64 (508)	2-1 59/64 (656) 1-7 31/32 (507)	2-3 13/64 (691) 1-7 61/64 (507)	2-5 3/64 (738) 1-7 61/64 (507)
	UDHTRRTG2 3012	UDHTRRTG2 3212	UDHTRRTG2 3612	UDHTRRTG2 4012	UDHTRRTG2 5412
RO (mm) RO Spln. (mm)	2-9 29/32 (861) 2-3 15/16 (710)	2-8 25/32 (833) 2-3 63/64 (711)	2-9 59/64 (861) 2-3 31/32 (710)	2-11 13/64 (894) 2-3 61/64 (710)	3-1 3/64 (941) 2-3 61/64 (710)
	UDHTRRTG2 3020	UDHTRRTG2 3220	UDHTRRTG2 3620	UDHTRRTG2 4020	UDHTRRTG2 5420

# DOUBLE HUNG TRANSOM ROUND TOP G2

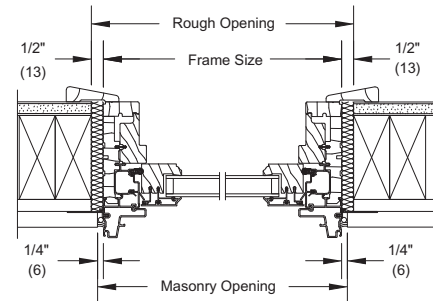
## RT2 MINIMUM SPRINGLINE

RO (mm) RO Rad. (mm)	2-2 1/4 (667) 1-1 1/8 (333)	2-6 1/4 (768) 1-3 1/8 (384)	2-8 1/4 (819) 1-4 1/8 (410)	2-10 1/4 (870) 1-5 1/8 (435)	3-0 1/4 (921) 1-6 1/8 (460)
RO (mm) RO Spln. (mm)	1-4 27/32 (428) 0-3 23/32 (94)	1-6 27/32 (479) 0-3 23/32 (94)	1-7 27/32 (504) 0-3 23/32 (94)	1-8 27/32 (529) 0-3 23/32 (94)	1-9 27/32 (555) 0-3 23/32 (94)
	UDHTRRTG2 2015	UDHTRRTG2 2417	UDHTRRTG2 2618	UDHTRRTG2 2819	UDHTRRTG2 3020
RO (mm) RO Rad. (mm)	3-2 1/4 (972) 1-7 1/8 (486)	3-6 1/4 (1073) 1-9 1/8 (537)	3-10 1/4 (1175) 1-11 1/8 (587)	5-0 1/4 (1530) 2-6 1/8 (765)	
RO (mm) RO Spln. (mm)	1-10 27/32 (680) 0-3 23/32 (94)	2-0 27/32 (631) 0-3 23/32 (94)	2-2 27/32 (682) 0-3 23/32 (94)	2-9 27/32 (860) 0-3 23/32 (94)	
	UDHTRRTG2 3221	UDHTRRTG2 3623	UDHTRRTG2 4025	UDHTRRTG2 5432	
RO (mm) RO Rad. (mm)	4-11 1/2 (1511) 2-5 3/4 (756)	5-7 1/2 (1715) 2-9 3/4 (857)	6-3 1/2 (1918) 3-1 3/4 (959)		
RO (mm) RO Spln. (mm)	2-9 15/32 (850) 0-3 23/32 (94)	3-1 15/32 (952) 0-3 23/32 (94)	3-5 15/32 (1053) 0-3 23/32 (94)		
	UDHTRRTG2 5834	UDHTRRTG2 6638	UDHTRRTG2 7442		

## CONSTRUCTION DETAILS



HEAD JAMB AND SILL - TRANSOM



JAMB - TRANSOM

Ultimate Double Hung Transom Round Top G2: UDHTRRTG2

# DOUBLE HUNG PICTURE ROUND TOP G2

RT6 PICTURE EYEBROW ABOVE SPRINGLINE

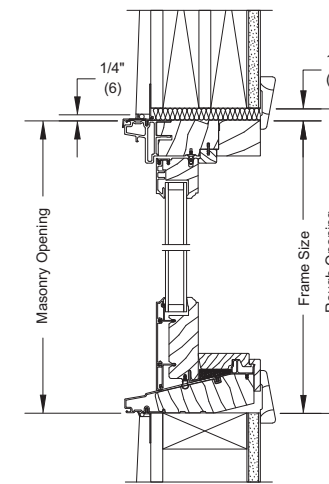
RO (mm)	3-6 1/4 (1073)	4-2 1/4 (1276)	4-6 1/4 (1378)	5-2 1/4 (1581)	5-10 1/4 (1784)
RO Rad. (mm)	3-4 1/2 (1029)	3-4 1/2 (1029)	4-6 1/2 (1384)	6-0 1/2 (1842)	6-0 1/2 (1842)
RO (mm)	3-9 47/64 (1161)	4-0 31/64 (1231)	4-1 1/64 (1194)	3-10 27/32 (1190)	4-0 7/8 (1241)
RO Spn. (mm)	3-3 25/32 (1010)	3-3 3/4 (1009)	3-3 5/164 (1011)	3-3 13/16 (1011)	3-3 5/164 (1011)
RO (mm)	4-1 47/64 (1263)	4-4 31/64 (1333)	4-3 1/64 (1296)	4-2 27/32 (1291)	4-4 7/8 (1343)
RO Spn. (mm)	3-7 25/32 (1112)	3-7 3/4 (1111)	3-7 5/164 (1112)	3-7 13/16 (1113)	3-7 5/164 (1112)
RO (mm)	4-5 47/64 (1365)	4-8 31/64 (1435)	4-7 1/64 (1398)	4-6 27/32 (1393)	4-8 7/8 (1445)
RO Spn. (mm)	3-11 25/32 (1214)	3-11 3/4 (1213)	3-11 5/164 (1214)	3-11 13/16 (1215)	3-11 5/164 (1214)
RO (mm)	4-9 47/64 (1466)	5-0 31/64 (1536)	4-11 1/64 (1499)	4-10 27/32 (1494)	5-0 7/8 (1546)
RO Spn. (mm)	4-3 25/32 (1315)	4-3 3/4 (1314)	4-3 5/164 (1315)	4-3 13/16 (1316)	4-3 5/164 (1316)
RO (mm)	5-1 47/64 (1568)	5-4 31/64 (1638)	5-3 1/64 (1601)	5-2 27/32 (1596)	5-4 7/8 (1648)
RO Spn. (mm)	4-7 25/32 (1417)	4-7 3/4 (1416)	4-7 5/164 (1417)	4-7 13/16 (1418)	4-7 5/164 (1417)
RO (mm)	5-5 47/64 (1669)	5-8 31/64 (1739)	5-7 1/64 (1702)	5-6 27/32 (1698)	5-8 7/8 (1749)
RO Spn. (mm)	4-11 25/32 (1518)	4-11 3/4 (1517)	4-11 5/164 (1519)	4-11 13/16 (1519)	4-11 5/164 (1519)
RO (mm)	5-9 47/64 (1771)	6-0 31/64 (1841)	5-11 1/64 (1804)	5-10 27/32 (1799)	6-0 7/8 (1851)
RO Spn. (mm)	5-3 25/32 (1620)	5-3 3/4 (1619)	5-3 5/164 (1620)	5-3 13/16 (1621)	5-3 5/164 (1620)
RO (mm)	6-1 47/64 (1873)	6-8 31/64 (1943)	6-3 1/64 (1906)	6-2 27/32 (1901)	6-4 7/8 (1953)
RO Spn. (mm)	5-7 25/32 (1722)	5-7 3/4 (1721)	5-7 5/164 (1722)	5-7 13/16 (1723)	5-7 5/164 (1722)
RO (mm)	6-5 47/64 (1974)	6-8 31/64 (2044)	6-7 1/64 (2007)	6-6 27/32 (2002)	6-8 7/8 (2054)
RO Spn. (mm)	5-11 25/32 (1823)	5-11 3/4 (1822)	5-11 5/164 (1823)	5-11 13/16 (1824)	5-11 5/164 (1824)

# DOUBLE HUNG PICTURE ROUND TOP G2

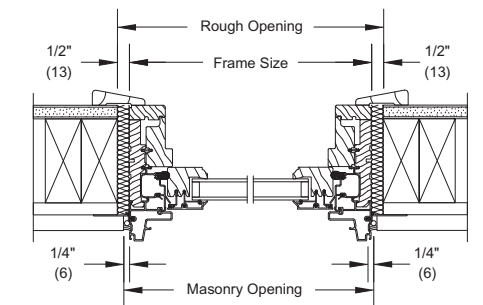
RT6 PICTURE EYEBROW ABOVE SPRINGLINE

RO (mm)	3-6 1/4 (1073)	4-2 1/4 (1276)	4-6 1/4 (1378)	5-2 1/4 (1581)	5-10 1/4 (1784)
RO Rad. (mm)	3-4 1/2 (1029)	3-4 1/2 (1029)	4-6 1/2 (1384)	6-0 1/2 (1842)	6-0 1/2 (1842)
RO (mm)	6-9 47/64 (2076)	7-0 31/64 (2146)	6-11 1/64 (2109)	6-10 27/32 (2104)	7-0 7/8 (2516)
RO Spn. (mm)	6-3 25/32 (1925)	6-3 3/4 (1924)	6-3 5/164 (1925)	6-3 13/16 (1926)	6-3 5/164 (1925)
RO (mm)	7-1 47/64 (2177)	7-4 31/64 (2247)	7-3 1/64 (2210)	7-2 27/32 (2206)	7-4 7/8 (2257)
RO Spn. (mm)	6-7 25/32 (2026)	6-7 3/4 (2025)	6-7 5/164 (2027)	6-7 13/16 (2027)	6-7 5/164 (2027)
RO (mm)	7-9 47/64 (2381)	8-0 31/64 (2451)	7-11 1/64 (2414)	7-10 27/32 (2409)	7-11 7/8 (2516)
RO Spn. (mm)	7-3 25/32 (2230)	7-3 3/4 (2229)	7-3 5/164 (2230)	7-3 13/16 (2231)	7-3 5/164 (2230)
RO (mm)	8-1 47/64 (2482)	8-4 31/64 (2552)	8-3 1/64 (2515)	8-2 27/32 (2510)	8-4 7/8 (2557)
RO Spn. (mm)	7-7 25/32 (2331)	7-7 3/4 (2330)	7-7 5/164 (2331)	7-7 13/16 (2332)	7-7 5/164 (2331)

## CONSTRUCTION DETAILS



HEAD JAMB AND SILL - PICTURE



JAMB - PICTURE

# SINGLE HUNG ROUND TOP G2

RT21 AND RT22 STANDARD SIZES OPERATORS

RO (mm)	1-10 1/4 (565)	2-2 1/4 (667)	2-6 1/4 (768)	2-8 1/4 (819)	2-10 1/4 (870)	3-0 1/4 (921)
RO Rad. (mm)	3-4 1/2 (1029)	3-4 1/2 (1029)	4-6 1/2 (1384)	6-0 1/2 (1842)	6-0 1/2 (1842)	6-0 1/2 (1842)
	3-2 7/64 (968) 2-7 25/32 (807) USHRTG2 1612	3-4 63/64 (1041) 2-7 47/64 (806) USHRTG2 2012	3-4 39/64 (1031) 2-7 49/64 (807) USHRTG2 2412	3-3 9/64 (994) 2-7 13/16 (808) USHRTG2 2612	3-4 9/64 (1019) 2-7 51/64 (808) USHRTG2 2812	3-5 7/32 (1047) 2-7 51/64 (808) USHRTG2 3012
	3-6 7/64 (1070) 2-11 25/32 (909) USHRTG2 1614	3-8 63/64 (1142) 2-11 47/64 (908) USHRTG2 2014	3-8 39/64 (1133) 2-11 49/64 (909) USHRTG2 2414	3-7 9/64 (1096) 2-11 13/16 (910) USHRTG2 2614	3-8 9/64 (1121) 2-11 51/64 (909) USHRTG2 2814	3-9 7/32 (1149) 2-11 51/64 (909) USHRTG2 3014
	3-10 7/64 (1171) 3-3 25/32 (1010) USHRTG2 1616	4-0 63/64 (1244) 3-3 47/64 (1009) USHRTG2 2016	4-0 39/64 (1235) 3-3 49/64 (1010) USHRTG2 2416	3-11 9/64 (1197) 3-3 13/16 (1011) USHRTG2 2616	4-0 9/64 (1223) 3-3 51/64 (1011) USHRTG2 2816	4-1 7/32 (1250) 3-3 51/64 (1011) USHRTG2 3016
	4-2 7/64 (1273) 3-7 25/32 (1112) USHRTG2 1618	4-4 63/64 (1346) 3-7 47/64 (1111) USHRTG2 2018	4-4 39/64 (1336) 3-7 49/64 (1112) USHRTG2 2418	4-3 9/64 (1299) 3-7 13/16 (1113) USHRTG2 2618	4-4 9/64 (1324) 3-7 51/64 (1113) USHRTG2 2818	4-5 7/32 (1352) 3-7 51/64 (1112) USHRTG2 3018
	4-6 7/64 (1374) 3-11 25/32 (1213) USHRTG2 1620	4-8 63/64 (1447) 3-11 47/64 (1213) USHRTG2 2020	4-8 39/64 (1438) 3-11 49/64 (1213) USHRTG2 2420	4-7 9/64 (1400) 3-11 13/16 (1214) USHRTG2 2620	4-8 9/64 (1426) 3-11 51/64 (1214) USHRTG2 2820	4-9 7/32 (1453) 3-11 51/64 (1214) USHRTG2 3020
	4-10 7/64 (1476) 4-3 25/32 (1315) USHRTG2 1622	5-0 63/64 (1549) 4-3 47/64 (1314) USHRTG2 2022	5-0 39/64 (1539) 4-3 49/64 (1315) USHRTG2 2422	4-11 9/64 (1502) 4-3 13/16 (1316) USHRTG2 2622	5-0 9/64 (1527) 4-3 51/64 (1316) USHRTG2 2822	5-1 7/32 (1555) 4-3 51/64 (1316) USHRTG2 3022
	5-2 7/64 (1578) 4-7 25/32 (1417) USHRTG2 1624	5-4 63/64 (1650) 4-7 47/64 (1416) USHRTG2 2024	5-4 39/64 (1641) 4-7 49/64 (1417) USHRTG2 2424	5-3 9/64 (1604) 4-7 13/16 (1418) USHRTG2 2624	5-4 9/64 (1629) 4-7 51/64 (1417) USHRTG2 2824	5-5 7/32 (1657) 4-7 51/64 (1417) USHRTG2 3024
	5-6 7/64 (1679) 4-11 25/32 (1518) USHRTG2 1626	5-8 63/64 (1752) 4-11 47/64 (1517) USHRTG2 2026	5-8 39/64 (1743) 4-11 49/64 (1518) USHRTG2 2426	5-7 9/64 (1705) 4-11 13/16 (1519) USHRTG2 2626	5-8 9/64 (1731) 4-11 51/64 (1519) USHRTG2 2826	5-9 7/32 (1758) 4-11 51/64 (1519) USHRTG2 3026
	5-10 7/64 (1781) 5-3 25/32 (1620) USHRTG2 1628	6-0 63/64 (1854) 5-3 47/64 (1619) USHRTG2 2028	6-0 39/64 (1844) 5-3 49/64 (1620) USHRTG2 2428	4-11 13/16 (1519) 5-3 13/16 (1621) USHRTG2 2628	6-0 9/64 (1832) 5-3 51/64 (1621) USHRTG2 2828	6-1 7/32 (1860) 5-3 51/64 (1620) USHRTG2 3028 E

# SINGLE HUNG ROUND TOP G2

RT21 AND RT22 STANDARD SIZES OPERATORS

RO (mm)	3-2 1/4 (972)	3-6 1/4 (1073)	3-10 1/4 (1175)	4-2 1/4 (1276)	4-6 1/4 (1378)	5-0 1/4 (1530)
RO Rad. (mm)	6-0 1/2 (1842)	7-0 1/2 (2146)	7-0 1/2 (2146)	9-0 1/2 (2756)	9-0 1/2 (2756)	9-0 1/2 (2756)
	3-6 25/64 (1077) 2-7 25/32 (807) USHRTG2 3212	3-6 53/64 (1088) 2-7 51/64 (808) USHRTG2 3612	3-9 15/64 (1149) 2-7 49/64 (807) USHRTG2 4012	3-7 7/8 (1115) 2-7 13/16 (808) USHRTG2 4412	3-10 1/16 (1169) 2-7 13/16 (807) USHRTG2 4812	4-1 3/4 (1262) 2-7 13/16 (807) USHRTG2 5412
	3-10 25/64 (1178) 2-11 25/32 (909) USHRTG2 3214	3-10 53/64 (1189) 2-11 51/64 (909) USHRTG2 3614	4-1 15/64 (1250) 2-11 49/64 (909) USHRTG2 4014	3-11 7/8 (1216) 2-11 13/16 (909) USHRTG2 4414	4-2 1/16 (1271) 2-11 13/16 (909) USHRTG2 4814	4-5 3/4 (1364) 2-11 13/16 (909) USHRTG2 5414
	4-2 25/64 (1280) 3-3 25/32 (1010) USHRTG2 3216	4-2 53/64 (1291) 3-3 51/64 (1011) USHRTG2 3616	4-5 15/64 (1352) 3-3 49/64 (1010) USHRTG2 4016	4-3 7/8 (1318) 3-3 13/16 (1011) USHRTG2 4416	4-6 1/16 (1373) 3-3 13/16 (1011) USHRTG2 4816	4-9 3/4 (1466) 3-3 13/16 (1010) USHRTG2 5416
	4-6 25/64 (1381) 3-7 25/32 (1112) USHRTG2 3218	4-6 53/64 (1393) 3-7 51/64 (1112) USHRTG2 3618	4-9 15/64 (1454) 3-7 49/64 (1112) USHRTG2 4018	4-7 7/8 (1419) 3-7 13/16 (1113) USHRTG2 4418	4-10 1/16 (1474) 3-7 13/16 (1112) USHRTG2 4818	5-1 3/4 (1567) 3-7 13/16 (1112) USHRTG2 5418
	4-10 25/64 (1483) 3-11 25/32 (1214) USHRTG2 3220	4-10 53/64 (1494) 3-11 51/64 (1214) USHRTG2 3620	5-1 15/64 (1555) 3-11 49/64 (1213) USHRTG2 4020	4-11 7/8 (1521) 3-11 13/16 (1214) USHRTG2 4420	5-2 1/16 (1576) 3-11 13/16 (1214) USHRTG2 4820	5-5 3/4 (1669) 3-11 13/16 (1213) USHRTG2 5420
	5-2 25/64 (1585) 4-3 25/32 (1315) USHRTG2 3222	5-2 53/64 (1596) 4-3 51/64 (1316) USHRTG2 3622	5-5 15/64 (1657) 4-3 49/64 (1315) USHRTG2 4022	5-3 7/8 (1623) 4-3 13/16 (1316) USHRTG2 4422	5-6 1/16 (1677) 4-3 13/16 (1315) USHRTG2 4822	5-9 3/4 (1770) 4-3 13/16 (1315) USHRTG2 5422
	5-6 25/64 (1686) 4-7 25/32 (1417) USHRTG2 3224	5-6 53/64 (1697) 4-7 51/64 (1417) USHRTG2 3624	5-9 15/64 (1758) 4-7 49/64 (1417) USHRTG2 4024	5-7 7/8 (1724) 4-7 13/16 (1417) USHRTG2 4424	5-10 1/16 (1779) 4-7 13/16 (1417) USHRTG2 4824	6-1 3/4 (1872) 4-7 13/16 (1417) USHRTG2 5424
	5-10 25/64 (1788) 4-11 25/32 (1518) USHRTG2 3226 E	5-10 53/64 (1799) 4-11 51/64 (1519) USHRTG2 3626 E	6-1 15/64 (1860) 4-11 49/64 (1518) USHRTG2 4026 E	5-11 7/8 (1826) 4-11 13/16 (1519) USHRTG2 4426 E	6-2 1/16 (1881) 4-11 13/16 (1519) USHRTG2 4826 E	6-5 3/4 (1974) 4-11 13/16 (1518) USHRTG2 5426 E
	6-2 25/64 (1889) 5-3 25/32 (1620) USHRTG2 3228 E	6-2 53/64 (1901) 5-3 51/64 (1620) USHRTG2 3628 E	6-5 15/64 (1962) 5-3 49/64 (1620) USHRTG2 4028 E	6-3 7/8 (1927) 5-3 13/16 (1621) USHRTG2 4428 E	6-6 1/16 (1982) 5-3 13/16 (1620) USHRTG2 4828 E	6-9 3/4 (2075) 5-3 13/16 (1620) USHRTG2 5428 E



# SINGLE HUNG ROUND TOP G2

RT21 AND RT22 STANDARD SIZES OPERATORS

RO (mm)	1-10 1/4 (565)	2-2 1/4 (667)	2-6 1/4 (768)	2-8 1/4 (819)	2-10 1/4 (870)	3-0 1/4 (921)	
RO Rad. (mm)	3-4 1/2 (1029)	3-4 1/2 (1029)	4-6 1/2 (1384)	6-0 1/2 (1842)	6-0 1/2 (1842)	6-0 1/2 (1842)	
RO (mm) RO SpIn. (mm)	6-2 7/64 (1882) 5-7 25/32 (1721) USHRTG2 1630	6-4 63/64 (1955) 5-7 47/64 (1721) USHRTG2 2030	6-4 39/64 (1946) 5-7 49/64 (1721) USHRTG2 2430	6-3 9/64 (1908) 5-7 13/16 (1722) USHRTG2 2630	6-4 9/64 (1934) 5-7 51/64 (1722) USHRTG2 2830 E	6-5 7/32 (1961) 5-7 51/64 (1722) USHRTG2 3030 E	
	6-6 7/64 (1984) 5-11 25/32 (1823) USHRTG2 1632	6-6 63/64 (2057) 5-11 47/64 (1822) USHRTG2 2032	6-8 39/64 (2047) 5-11 49/64 (1823) USHRTG2 2432	6-7 9/64 (2010) 5-11 13/16 (1824) USHRTG2 2632 E	6-8 9/64 (2035) 5-11 51/64 (1824) USHRTG2 2832 E	6-9 7/32 (2063) 5-11 51/64 (1824) USHRTG2 3032 E	
	6-10 7/64 (2086) 6-3 25/32 (1925) USHRTG2 1634	7-0 63/64 (2158) 6-3 47/64 (1824) USHRTG2 2034	7-0 39/64 (2149) 6-3 49/64 (1925) USHRTG2 2434 E	6-11 9/64 (2112) 6-3 13/16 (1926) USHRTG2 2634 E	7-0 9/64 (2137) 6-3 51/64 (1925) USHRTG2 2834 E	7-1 7/32 (2165) 6-3 51/64 (1925) USHRTG2 3034 E	
	7-2 7/64 (2187) 6-7 25/32 (2026) USHRTG2 1636	7-4 63/64 (2260) 6-7 47/64 (2025) USHRTG2 2036	7-4 39/64 (2251) 6-7 49/64 (2026) USHRTG2 2436 E	7-3 9/64 (2213) 6-7 13/16 (2027) USHRTG2 2636 E	7-4 9/64 (2239) 6-7 51/64 (2027) USHRTG2 2836 E	7-5 7/32 (2266) 6-7 51/64 (2027) USHRTG2 3036 E	
	7-10 7/64 (2390) 7-3 25/32 (2229) USHRTG2 1640	8-0 63/64 (2463) 7-3 47/64 (2229) USHRTG2 2040 E	8-0 39/64 (2454) 7-3 49/64 (2229) USHRTG2 2440 E	7-11 9/64 (2416) 7-3 13/16 (2230) USHRTG2 2640 E	8-0 9/64 (2442) 7-3 51/64 (2230) USHRTG2 2840 E	8-1 7/32 (2469) 7-3 51/64 (2230) USHRTG2 3040 E	
	8-2 7/64 (2492) 7-7 25/32 (2331) USHRTG2 1642	8-4 63/64 (2565) 7-7 47/64 (2330) USHRTG2 2042 E	8-4 39/64 (2555) 7-7 49/64 (2331) USHRTG2 2442 E	8-3 9/64 (2518) 7-7 13/16 (2332) USHRTG2 2642 E	8-4 9/64 (2543) 7-7 51/64 (2332) USHRTG2 2842 E	8-5 7/32 (2571) 7-7 51/64 (2332) USHRTG2 3042 E	
	9-6 7/64 (2898) 8-11 25/32 (2737) USHRTG2 1650	9-8 63/64 (2971) 8-11 47/64 (2737) USHRTG2 2050 E	7-7 49/64 (2331) 8-11 49/64 (2737) USHRTG2 2450 E	9-7 9/64 (2924) 8-11 13/16 (2738) USHRTG2 2650 E	9-8 9/64 (2950) 8-11 51/64 (2738) USHRTG2 2850 E	9-10 25/64 (3007) 8-11 25/32 (2738) USHRTG2 3050 E	

# SINGLE HUNG ROUND TOP G2

RT21 AND RT22 STANDARD SIZES OPERATORS

RO (mm)	3-2 1/4 (972)	3-6 1/4 (1073)	3-10 1/4 (1175)	4-2 1/4 (1276)	4-6 1/4 (1378)	5-0 1/4 (1530)	
RO Rad. (mm)	6-0 1/2 (1842)	7-0 1/2 (2146)	7-0 1/2 (2146)	9-0 1/2 (2756)	9-0 1/2 (2756)	9-0 1/2 (2756)	
RO (mm) RO SpIn. (mm)	6-6 25/64 (1991) 5-7 25/32 (1722) USHRTG2 3230 E	6-6 53/64 (2002) 5-7 51/64 (1722) USHRTG2 3630 E	6-9 15/64 (2063) 5-7 49/64 (1721) USHRTG2 4030 E	6-7 7/8 (2029) 5-7 13/16 (1722) USHRTG2 4430 E	6-10 1/16 (2084) 5-7 13/16 (1722) USHRTG2 4830 E	7-1 3/4 (2177) 5-7 13/16 (1721) USHRTG2 5430 E	
	6-10 25/64 (2093) 5-11 25/32 (1823) USHRTG2 3232 E	6-10 53/64 (2104) 5-11 51/64 (1824) USHRTG2 3632 E	7-1 15/64 (2165) 5-11 49/64 (1823) USHRTG2 4032 E	6-11 7/8 (2131) 5-11 13/16 (1824) USHRTG2 4432 E	7-2 1/16 (2185) 5-11 13/16 (1823) USHRTG2 4832 E	7-5 3/4 (2278) 5-11 13/16 (1823) USHRTG2 5432 E	
	7-2 25/64 (2194) 6-3 25/32 (1925) USHRTG2 3234 E	7-2 53/64 (2205) 6-3 51/64 (1925) USHRTG2 3634 E	7-5 15/64 (2266) 6-3 49/64 (1925) USHRTG2 4034 E	7-3 7/8 (2232) 6-3 13/16 (1925) USHRTG2 4434 E	7-6 1/16 (2287) 6-3 13/16 (1925) USHRTG2 4834 E	7-9 3/4 (2380) 6-3 13/16 (1925) USHRTG2 5434 E	
	7-6 25/64 (2296) 6-7 25/32 (2026) USHRTG2 3236 E	7-6 53/64 (2307) 6-7 51/64 (2027) USHRTG2 3636 E	7-9 15/64 (2368) 6-7 49/64 (2026) USHRTG2 4036 E	7-7 7/8 (2334) 6-7 13/16 (2027) USHRTG2 4436 E	7-10 1/16 (2389) 6-7 13/16 (2027) USHRTG2 4836 E	8-1 3/4 (2482) 6-7 13/16 (2026) USHRTG2 5436 E	
	8-2 25/64 (2499) 7-3 25/32 (2230) USHRTG2 3240 E	8-2 53/64 (2510) 7-3 51/64 (2230) USHRTG2 3640 E	8-5 15/64 (2571) 7-3 49/64 (2229) USHRTG2 4040 E	8-3 7/8 (2537) 7-3 13/16 (2230) USHRTG2 4440 E	8-6 1/16 (2592) 7-3 13/16 (2230) USHRTG2 4840 E	8-9 3/4 (2685) 7-3 13/16 (2229) USHRTG2 5440 E	
	8-6 25/64 (2601) 7-7 25/32 (2331) USHRTG2 3242 E	8-6 53/64 (2612) 7-7 51/64 (2332) USHRTG2 3642 E	8-9 15/64 (2673) 7-7 49/64 (2331) USHRTG2 4042 E	8-7 7/8 (2639) 7-7 13/16 (2332) USHRTG2 4442 E	8-10 1/16 (2693) 7-7 13/16 (2331) USHRTG2 4842 E	9-1 3/4 (2786) 7-7 13/16 (2331) USHRTG2 5442 E	
	9-10 25/64 (3007) 8-11 25/32 (2738) USHRTG2 3250 E	9-10 53/64 (3018) 8-11 51/64 (2738) USHRTG2 3650 E		9-11 7/8 (3045) 8-11 13/16 (2738) USHRTG2 4450 E			

## DIRECT GLAZE ROUND TOP – Double Hung

## DIRECT GLAZE ROUND TOP – Double Hung

### RT6 EYEBROW ABOVE SPRINGLINE STANDARD SIZES - DIRECT GLAZE

### RT6 EYEBROW ABOVE SPRINGLINE STANDARD SIZES - DIRECT GLAZE

RO (mm)	2-2 3/8 (670)	2-6 3/8 (772)	2-8 3/8 (822)	2-10 3/8 (873)	3-0 3/8 (924)	3-2 3/8 (975)	3-6 3/8 (1076)
RO Rad. (mm)	2-0 1/2 (622)		2-6 1/2 (775)		3-4 1/2 (1029)		3-4 1/2 (1029)
RO (mm)	1-0 1/2 (318)	1-6 1/2 (470)	2-0 1/2 (622)	2-10 3/8 (873)	3-0 3/8 (924)	3-2 3/8 (975)	3-6 3/8 (1076)
RO Sphn. (mm)	0-8 5/8 (219)	1-2 5/8 (371)	1-8 5/8 (524)	2-6 1/2 (775)	2-6 1/2 (775)	3-4 1/2 (1029)	3-4 1/2 (1029)
	UDGRT 2511	UDGRT2911	UDGRT 2523	UDGRT3111	UDGRT3511	UDGRT3711	UDGRT4111
	0-7 7/32 (183)	1-1 7/32 (336)	1-7 7/32 (488)	0-7 3/16 (183)	0-6 1/2 (165)	0-7 11/16 (195)	0-6 1/2 (165)
	UDGRT2519	UDGRT 2919	UDGRT 2523	UDGRT3119	UDGRT3519	UDGRT3719	UDGRT4119
	1-6 1/2 (470)	1-1 7/32 (336)	1-7 7/32 (488)	1-1 7/16 (348)	1-0 1/2 (318)	1-1 1/16 (348)	1-0 1/2 (318)
	UDGRT 2523	UDGRT2923	UDGRT 2523	UDGRT3123	UDGRT3523	UDGRT3723	UDGRT4123
	2-0 1/2 (622)	1-7 7/32 (488)	1-7 7/8 (605)	1-7 3/16 (487)	1-6 1/2 (470)	1-7 1/16 (600)	1-6 1/2 (470)
	UDGRT 2535	UDGRT2935	UDGRT 2535	UDGRT3135	UDGRT3535	UDGRT 3735	UDGRT4135
	3-0 1/2 (927)	2-7 7/32 (793)	2-7 7/8 (810)	2-7 3/16 (792)	2-6 1/2 (775)	2-7 11/16 (805)	2-6 1/2 (775)
	UDGRT2547	UDGRT2947	UDGRT 2547	UDGRT3147	UDGRT 3547	UDGRT3747	UDGRT4147
	4-0 1/2 (1232)	3-7 7/32 (1098)	3-7 7/8 (1114)	3-7 3/16 (1097)	3-6 1/2 (1080)	3-7 11/16 (1110)	3-6 1/2 (1080)
	UDGRT2559	UDGRT2959	UDGRT 2559	UDGRT 3159	UDGRT3559	UDGRT3759	UDGRT4159
	5-0 1/2 (1537)	4-7 7/32 (1403)	4-7 7/8 (1419)	4-7 3/16 (1402)	4-6 1/2 (1384)	4-7 11/16 (1414)	4-6 1/2 (1384)
	UDGRT 2571	UDGRT2971	UDGRT 2571	UDGRT3171	UDGRT3571	UDGRT3771	UDGRT4171
	6-0 1/2 (1842)	5-7 7/32 (1707)	5-7 7/8 (1724)	5-7 3/16 (1707)	5-6 1/2 (1689)	5-7 11/16 (1719)	5-6 1/2 (1689)

RO (mm)	3-10 3/8 (1178)	4-3 3/4 (1314)	4-11 3/4 (1518)	5-7 3/4 (1721)	6-3 3/4 (1924)
RO Rad. (mm)	3-4 1/2 (1029)		4-6 1/2 (1384)		6-0 1/2 (1842)
RO (mm)	1-6 1/2 (470)	2-0 1/2 (622)	2-10 3/8 (873)	3-0 3/8 (924)	3-2 3/8 (975)
RO Sphn. (mm)	0-11 7/32 (285)	1-5 7/32 (437)	2-5 7/32 (742)	3-5 7/32 (1047)	4-5 7/32 (1352)
	UDGRT4519	UDGRT4523	UDGRT4535	UDGRT4547	UDGRT4559
	0-9 5/32 (233)	1-3 5/32 (885)	2-3 5/32 (690)	3-3 5/32 (995)	4-3 5/32 (1299)
	UDGRT5119	UDGRT5123	UDGRT5135	UDGRT5147	UDGRT5159
	4-3 3/4 (1314)	4-11 3/4 (1518)	5-7 3/4 (1721)	6-3 3/4 (1924)	6-0 1/2 (1842)
	UDGRT5919	UDGRT5923	UDGRT5935	UDGRT5947	UDGRT5959
	0-10 18 (257)	1-4 1/8 (410)	2-4 1/8 (714)	3-4 1/8 (1019)	4-4 1/8 (1324)
	UDGRT6719	UDGRT6723	UDGRT6735	UDGRT6747	UDGRT6759
	1-1 13/16 (351)	1-1 13/16 (351)	2-1 13/16 (656)	3-1 13/16 (960)	4-1 13/16 (1265)
	UDGRT7519	UDGRT7523	UDGRT7535	UDGRT7547	UDGRT7559
	0-7 13/16 (198)	1-1 13/16 (351)	2-1 13/16 (656)	3-1 13/16 (960)	4-1 13/16 (1265)
	UDGRT7519	UDGRT7523	UDGRT7535	UDGRT7547	UDGRT7559

Details and Elevations not to scale.  
 E These windows meet national Egress codes for fire evacuation. Local codes may differ.

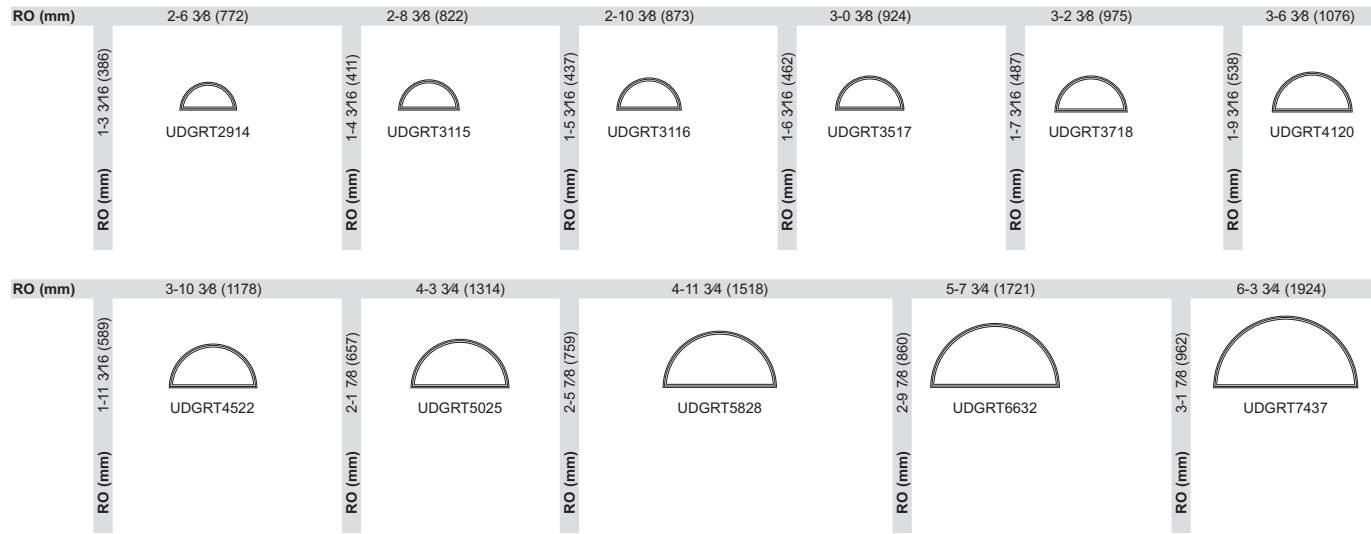
Please consult your local Marvin representative for masonry openings that include casings and subsills.

For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

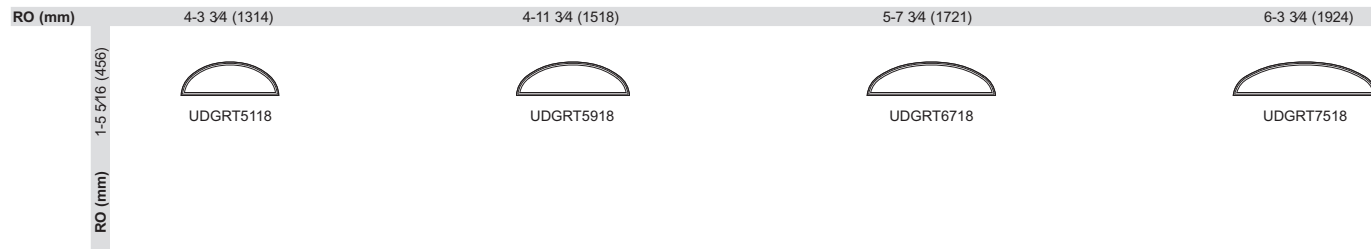
Ultimate Direct Glaze Round Top: UDGRT

## DIRECT GLAZE ROUND TOP – Double Hung

RT1 TRUE HALF CIRCLE STANDARD SIZES - DIRECT GLAZE

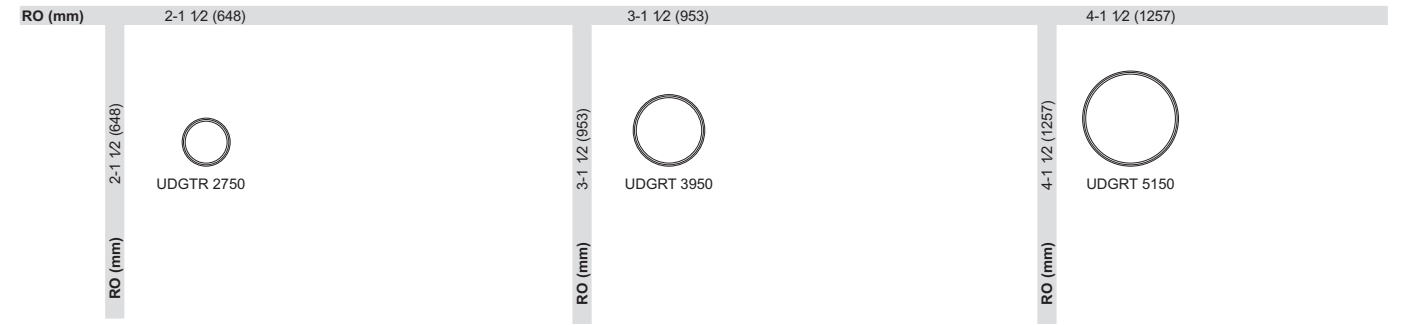


## RT29 ELLIPTICAL STANDARD SIZES - DIRECT GLAZE

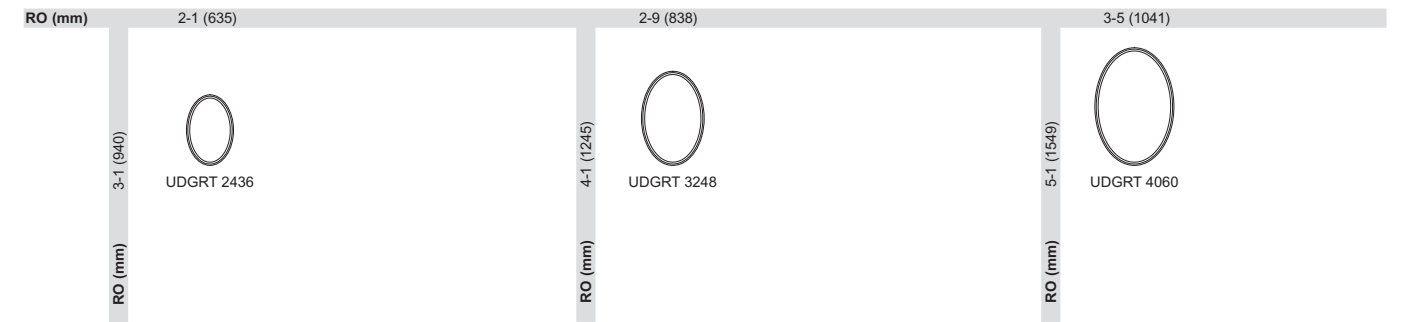


## DIRECT GLAZE ROUND TOP – Double Hung

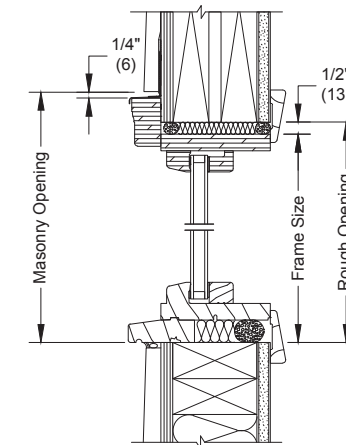
RT27 FULL CIRCLE STANDARD SIZES - DIRECT GLAZE



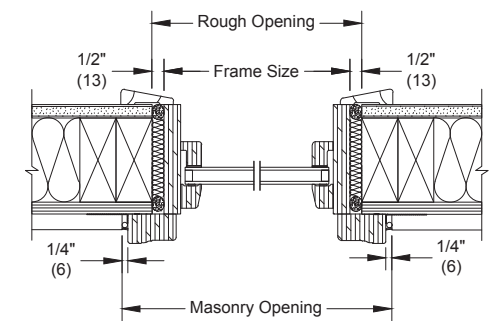
## RT28 FULL ELLIPSE STANDARD SIZES - DIRECT GLAZE



## CONSTRUCTION DETAILS



HEAD JAMB AND SILL - DIRECT GLAZE



JAMB - DIRECT GLAZE

Details and Elevations not to scale.  
 E These windows meet national Egress codes for fire evacuation. Local codes may differ.

Please consult your local Marvin representative for masonry openings that include casings.

For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

# DOUBLE HUNG INSERT G2

## MEASUREMENT INSTRUCTIONS

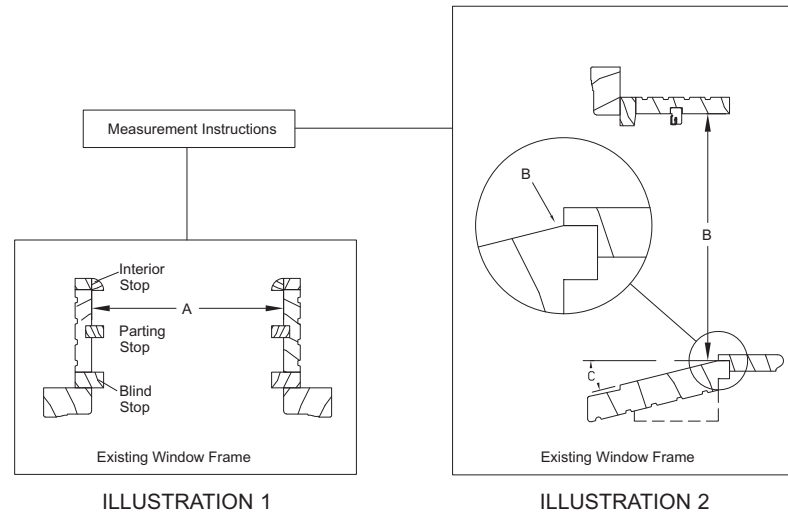
1. For Inside Opening Width (A) measure inside of frame at three locations: the sill, the center, and the head jamb. Record the narrowest measurement. Do not measure from parting stops or blind stops. See illustration 1.

Note: This measurement is from wood surface to wood surface. Removal of existing jamb hardware may be necessary to reach the frame.

2. Measure the Inside Opening Height (B) from the top of the sill to the bottom of the head jamb as shown in illustration 2.

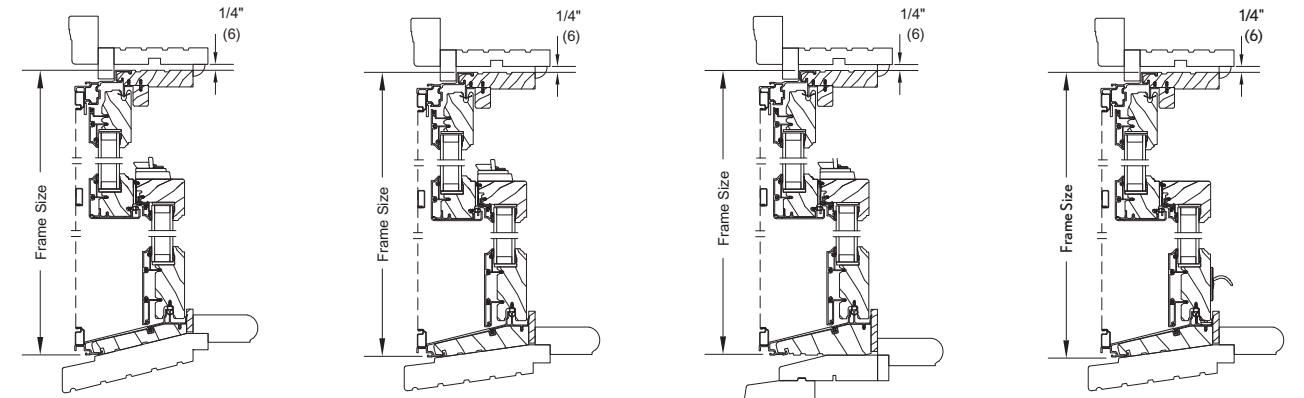
3. Check the Sill Angle (C). Record the sill angle to the nearest degree. See illustration 2.

Note: If the angle of the sill is 8° or less the unit will be made with a flat bottom frame. If it is greater than 8° it will be made with a bevel frame.



# DOUBLE HUNG INSERT G2

## CONSTRUCTION DETAILS

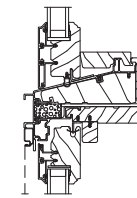


HEAD JAMB, CHECKRAIL, WITH 14° BEVELED FRAME INSTALLED IN EXISTING FRAME

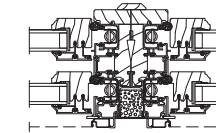
HEAD JAMB, CHECKRAIL, WITH 8° BEVELED FRAME INSTALLED IN EXISTING FRAME

HEAD JAMB, CHECKRAIL, WITH FLAT FRAME INSTALLED IN EXISTING FRAME

HEAD JAMB, CHECKRAIL, WITH 8° BEVELED FRAME INSTALLED IN EXISTING FRAME SHOWN WITH LIFT LOCK

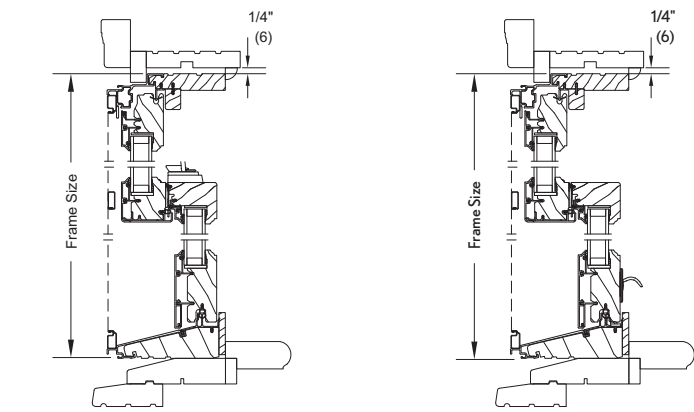


HORIZONTAL MULLION TRANSOM/OPERATOR



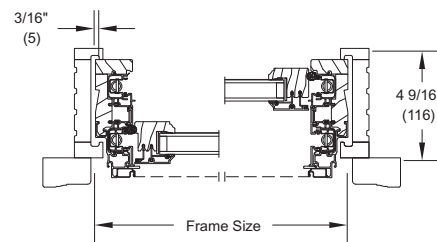
VERTICAL MULLION OPERATOR

## CONSTRUCTION DETAILS

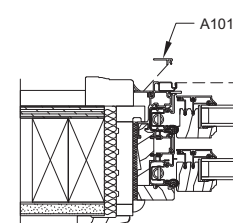


HEAD JAMB, CHECKRAIL, WITH FLAT FRAME INSTALLED IN EXISTING FRAME

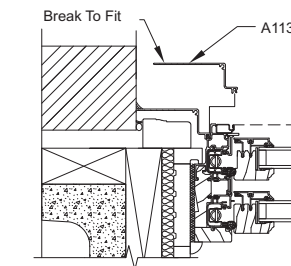
HEAD JAMB, CHECKRAIL, WITH FLAT FRAME INSTALLED IN EXISTING FRAME SHOWN WITH LIFT LOCK



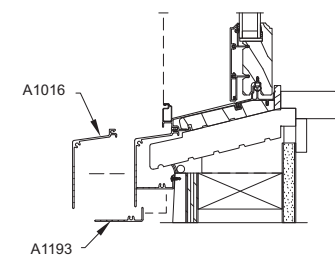
JAMB INSTALLED IN EXISTING FRAME



FRAME EXPANDER



PANNING (MASONRY SHOW)

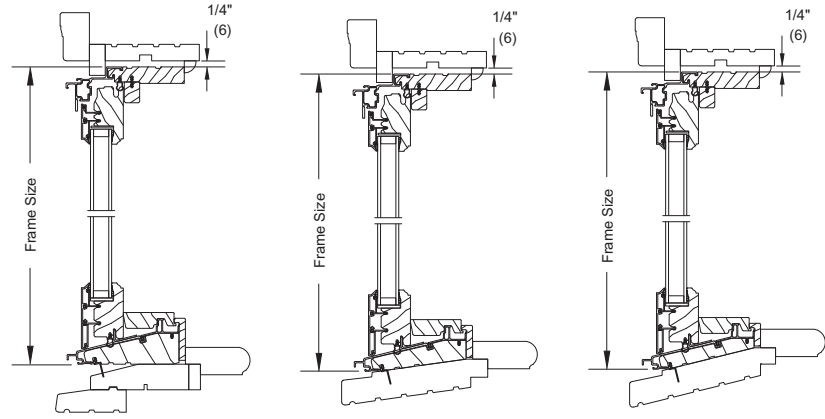


SILL PANNING

Details and Elevations not to scale.  
 • Ultimate Double Hung Insert G2 Windows are manufactured to your specifications. For additional information, contact your local Marvin representative.  
 Please consult your local Marvin representative for more information. For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

## DOUBLE HUNG INSERT TRANSOM / PICTURE G2

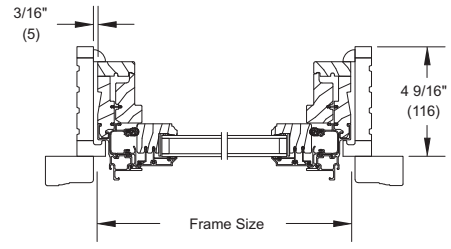
### CONSTRUCTION DETAILS



TRANSOM HEAD JAMB WITH FLAT FRAME INSTALLED IN EXISTING FRAME

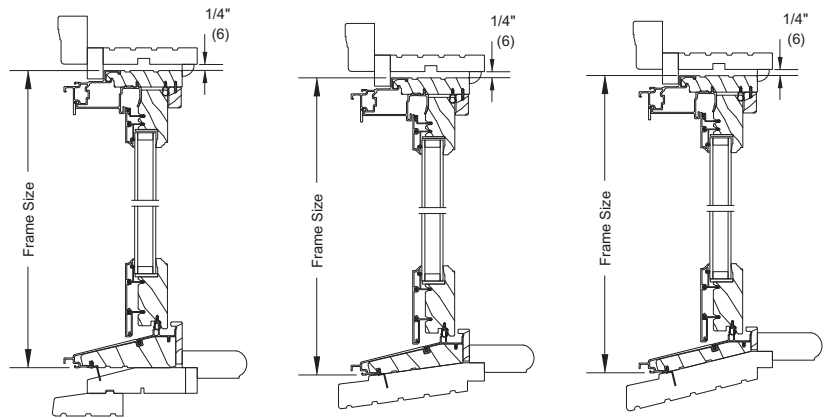
TRANSOM HEAD JAMB WITH 8° BEVELED FRAME INSTALLED IN EXISTING FRAME

TRANSOM HEAD JAMB WITH 14° BEVELED FRAME INSTALLED IN EXISTING FRAME



TRANSOM JAMB INSTALLED IN EXISTING FRAME

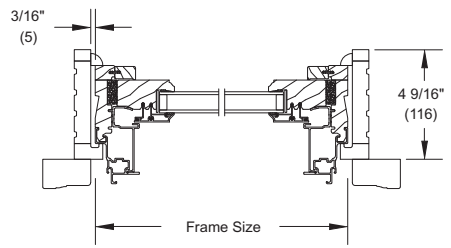
### CONSTRUCTION DETAILS - PICTURE



PICTURE HEAD JAMB WITH FLAT FRAME INSTALLED IN EXISTING FRAME

PICTURE HEAD JAMB WITH 8° BEVELED FRAME INSTALLED IN EXISTING FRAME

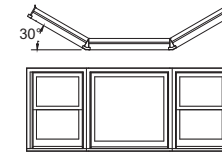
PICTURE HEAD JAMB WITH 14° BEVELED FRAME INSTALLED IN EXISTING FRAME



PICTURE JAMB INSTALLED IN EXISTING FRAME

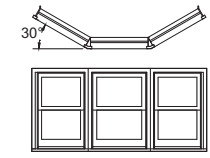
## WOOD DOUBLE HUNG BAY

### 30° ULTIMATE WOOD DOUBLE HUNG BAY WITH PICTURE CENTER UNIT



UNIT NO. (WIDTH)	ROUGH OPENING (WIDTH)	PROJECTION
16-40-16	6-11 3/16 (2113)	11 15/16" (303)
16-48-16	7-7 3/16 (2316)	11 15/16" (303)
16-52-16	7-11 3/16 (2418)	11 15/16" (303)
16-60-16	8-7 3/16 (2621)	11 15/16" (303)
20-40-20	7-6 1/8 (2289)	13 15/16" (354)
20-48-20	8-2 1/8 (2492)	13 15/16" (354)
20-52-20	8-6 1/8 (2594)	13 15/16" (354)
20-60-20	9-2 1/8 (2797)	13 15/16" (354)
20-68-20	9-10 1/8 (3000)	13 15/16" (354)
24-40-24	8-1 1/16 (2465)	15 15/16" (405)
24-48-24	8-9 1/16 (2669)	15 15/16" (405)
24-52-24	9-1 1/16 (2770)	15 15/16" (405)
24-60-24	9-9 1/16 (2973)	15 15/16" (405)
24-68-24	10-5 1/16 (3177)	15 15/16" (405)
26-40-26	8-4 1/2 (2553)	16 15/16" (430)
26-48-26	9-0 1/2 (2756)	16 15/16" (430)
26-52-26	9-4 1/2 (2858)	16 15/16" (430)
26-60-26	10-0 1/2 (3061)	16 15/16" (430)
26-68-26	10-8 1/2 (3264)	16 15/16" (430)
28-40-28	8-7 31/32 (2641)	17 15/16" (456)
28-48-28	9-3 31/32 (2844)	17 15/16" (456)
28-52-28	9-7 31/32 (2946)	17 15/16" (456)
28-60-28	10-3 31/32 (3149)	17 15/16" (456)
28-68-28	10-11 31/32 (3352)	17 15/16" (456)
30-40-30	8-11 7/16 (2729)	18 15/16" (481)
30-48-30	9-7 7/16 (2932)	18 15/16" (481)
30-52-30	9-11 7/16 (3034)	18 15/16" (481)
30-60-30	10-7 7/16 (3237)	18 15/16" (481)
30-68-30	11-3 7/16 (3440)	18 15/16" (481)
32-40-32	9-2 15/16 (2817)	19 15/16" (506)
32-48-32	9-10 15/16 (3020)	19 15/16" (506)
32-52-32	10-2 15/16 (3122)	19 15/16" (506)
32-60-32	10-10 15/16 (3325)	19 15/16" (506)
32-68-32	11-6 15/16 (3528)	19 15/16" (506)
36-40-36	9-9 27/32 (2993)	21 15/16" (557)
36-48-36	10-5 27/32 (3196)	21 15/16" (557)
36-52-36	10-9 27/32 (3298)	21 15/16" (557)
36-60-36	11-5 27/32 (3501)	21 15/16" (557)
36-68-36	12-1 27/32 (3704)	21 15/16" (557)
40-40-40	10-4 3/4 (3169)	23 15/16" (608)
40-48-40	11-0 3/4 (3372)	23 15/16" (608)
40-52-40	11-4 3/4 (3473)	23 15/16" (608)
40-60-40	12-0 3/4 (3677)	23 15/16" (608)
40-68-40	12-8 3/4 (3880)	23 15/16" (608)

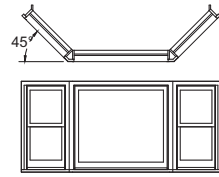
### 30° ULTIMATE WOOD DOUBLE HUNG BAY WITH OPERATOR CENTER UNIT



UNIT NO. (WIDTH)	ROUGH OPENING (WIDTH)	PROJECTION
16-16-16	5-3 3/16 (1605)	11 15/16" (304)
16-20-16	5-7 3/16 (1707)	11 15/16" (304)
16-24-16	5-11 3/16 (1808)	11 15/16" (304)
16-26-16	6-1 3/16 (1859)	11 15/16" (304)
16-28-16	6-3 3/16 (1910)	11 15/16" (304)
16-30-16	6-5 3/16 (1961)	11 15/16" (304)
16-32-16	6-7 3/16 (2012)	11 15/16" (304)
16-36-16	6-11 3/16 (2113)	11 15/16" (304)
16-40-16	7-3 3/16 (2215)	11 15/16" (304)
20-20-20	6-2 1/8 (1883)	13 15/16" (354)
20-24-20	6-6 1/8 (1985)	13 15/16" (354)
20-26-20	6-8 1/8 (2032)	13 15/16" (354)
20-28-20	6-10 1/8 (2086)	13 15/16" (354)
20-30-20	7-0 1/8 (2137)	13 15/16" (354)
20-32-20	7-2 1/8 (2188)	13 15/16" (354)
20-36-20	7-6 1/8 (2289)	13 15/16" (354)
20-40-20	7-10 1/8 (2391)	13 15/16" (354)
24-24-24	7-1 1/16 (2160)	15 15/16" (405)
24-26-24	7-3 1/16 (2211)	15 15/16" (405)
24-28-24	7-5 1/16 (2262)	15 15/16" (405)
24-30-24	7-7 1/16 (2313)	15 15/16" (405)
24-32-24	7-9 1/16 (2364)	15 15/16" (405)
24-36-24	8-1 1/16 (2465)	15 15/16" (405)
24-40-24	8-5 1/16 (2567)	15 15/16" (405)
26-26-26	7-6 1/2 (2299)	16 15/16" (431)
26-28-26	7-8 1/2 (2350)	16 15/16" (431)
26-30-26	7-10 1/2 (2401)	16 15/16" (431)
26-32-26	8-0 1/2 (2452)	16 15/16" (431)
26-36-26	8-4 1/2 (2553)	16 15/16" (431)
26-40-26	8-8 1/2 (2655)	16 15/16" (431)
28-28-28	8-0 (2438)	17 15/16" (456)
28-30-28	8-2 (2489)	17 15/16" (456)
28-32-28	8-4 (2540)	17 15/16" (456)
28-36-28	8-8 (2641)	17 15/16" (456)
28-40-28	9-0 (2743)	17 15/16" (456)
30-30-30	8-5 7/16 (2577)	18 15/16" (481)
30-32-30	8-7 7/16 (2628)	18 15/16" (481)
30-36-30	8-11 7/16 (2729)	18 15/16" (481)
30-40-30	9-3 7/16 (2831)	18 15/16" (481)
32-32-32	8-10 15/16 (2716)	19 15/16" (507)
32-36-32	9-2 15/16 (2817)	19 15/16" (507)
32-40-32	9-6 15/16 (2919)	19 15/16" (507)
36-36-36	9-9 27/32 (2993)	21 15/16" (558)
36-40-36	10-1 27/32 (3095)	21 15/16" (558)
40-40-40	10-8 3/4 (3271)	23 15/16" (608)

**WOOD DOUBLE HUNG BAY**

45° ULTIMATE WOOD DOUBLE HUNG BAY WITH PICTURE CENTER UNIT



UNIT NO. (WIDTH)	ROUGH OPENING (WIDTH)	PROJECTION
16-40-16	6-5 3/16 (1961)	17 3/8" (441)
16-48-16	7-1 3/16 (2164)	17 3/8" (441)
16-52-16	7-5 3/16 (2265)	17 3/8" (441)
16-60-16	8-1 3/16 (2469)	17 3/8" (441)

20-40-20	6-10 7/8 (2104)	20 3/16" (513)
20-48-20	7-6 7/8 (2307)	20 3/16" (513)
20-52-20	7-10 7/8 (2409)	20 3/16" (513)
20-60-20	8-6 7/8 (2612)	20 3/16" (513)
20-68-20	9-2 7/8 (2815)	20 3/16" (513)

24-40-24	7-4 1/2 (2248)	23 1/32" (585)
24-48-24	8-0 1/2 (2451)	23 1/32" (585)
24-52-24	8-4 1/2 (2553)	23 1/32" (585)
24-60-24	9-0 1/2 (2756)	23 1/32" (585)
24-68-24	9-8 1/2 (2959)	23 1/32" (585)

26-40-26	7-7 11/32 (2320)	24 7/16" (621)
26-48-26	8-3 11/32 (2523)	24 7/16" (621)
26-52-26	8-7 11/32 (2625)	24 7/16" (621)
26-60-26	9-3 11/32 (2828)	24 7/16" (621)
26-68-26	9-11 11/32 (3031)	24 7/16" (621)

28-40-28	7-10 3/16 (2392)	25 7/8" (656)
28-48-28	8-6 3/16 (2595)	25 7/8" (656)
28-52-28	8-10 3/16 (2696)	25 7/8" (656)
28-60-28	9-6 3/16 (2900)	25 7/8" (656)
28-68-28	10-2 3/16 (3103)	25 7/8" (656)

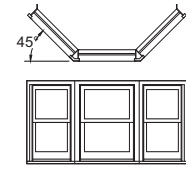
30-40-30	8-1 (2464)	27 9/32" (693)
30-48-30	8-9 (2667)	27 9/32" (693)
30-52-30	9-1 (2769)	27 9/32" (693)
30-60-30	9-9 (2972)	27 9/32" (693)
30-68-30	10-5 (3175)	27 9/32" (693)

32-40-32	8-3 13/16 (2535)	28 11/16" (729)
32-48-32	8-11 13/16 (2738)	28 11/16" (729)
32-52-32	9-3 13/16 (2840)	28 11/16" (729)
32-60-32	9-11 13/16 (3043)	28 11/16" (729)
32-68-32	10-7 13/16 (3246)	28 11/16" (729)

36-40-36	8-9 1/2 (2679)	31 1/2" (800)
36-48-36	9-5 1/2 (2882)	31 1/2" (800)
36-52-36	9-9 1/2 (2984)	31 1/2" (800)
36-60-36	10-5 1/2 (3187)	31 1/2" (800)
36-68-36	11-1 1/2 (3390)	31 1/2" (800)

40-40-40	9-3 1/8 (2823)	34 11/32" (872)
40-48-40	9-11 1/8 (3026)	34 11/32" (872)
40-52-40	10-3 1/8 (3127)	34 11/32" (872)
40-60-40	10-11 1/8 (3331)	34 11/32" (872)
40-68-40	11-7 1/8 (3534)	34 11/32" (872)

45° ULTIMATE WOOD DOUBLE HUNG BAY WITH OPERATOR CENTER UNIT



UNIT NO. (WIDTH)	ROUGH OPENING (WIDTH)	PROJECTION
16-16-16	4-9 3/16 (1453)	17 3/8" (441)
16-20-16	5-1 3/16 (1554)	17 3/8" (441)
16-24-16	5-5 3/16 (1656)	17 3/8" (441)
16-26-16	5-7 3/16 (1707)	17 3/8" (441)
16-28-16	5-9 3/16 (1758)	17 3/8" (441)
16-30-16	5-11 3/16 (1808)	17 3/8" (441)
16-32-16	6-1 3/16 (1859)	17 3/8" (441)
16-36-16	6-5 3/16 (1961)	17 3/8" (441)
16-40-16	6-9 3/16 (2062)	17 3/8" (441)

20-20-20	5-6 27/32 (1698)	20 3/16" (513)
20-24-20	5-10 27/32 (1800)	20 3/16" (513)
20-26-20	6-0 27/32 (1851)	20 3/16" (513)
20-28-20	6-2 27/32 (1901)	20 3/16" (513)
20-30-20	6-4 27/32 (1952)	20 3/16" (513)
20-32-20	6-6 27/32 (2003)	20 3/16" (513)
20-36-20	6-10 27/32 (2105)	20 3/16" (513)
20-40-20	7-2 27/32 (2206)	20 3/16" (513)

24-24-24	6-4 1/2 (1943)	23 1/32" (585)
24-26-24	6-6 1/2 (1994)	23 1/32" (585)
24-28-24	6-8 1/2 (2045)	23 1/32" (585)
24-30-24	6-10 1/2 (2096)	23 1/32" (585)
24-32-24	7-0 1/2 (2147)	23 1/32" (585)
24-36-24	7-4 1/2 (2248)	23 1/32" (585)
24-40-24	7-8 1/2 (2350)	23 1/32" (585)

26-26-26	6-9 11/32 (2066)	24 7/16" (621)
26-28-26	6-11 11/32 (2117)	24 7/16" (621)
26-30-26	7-1 11/32 (2168)	24 7/16" (621)
26-32-26	7-3 11/32 (2219)	24 7/16" (621)
26-36-26	7-7 11/32 (2320)	24 7/16" (621)
26-40-26	7-11 11/32 (2422)	24 7/16" (621)

28-28-28	7-2 3/16 (2189)	25 7/8" (657)
28-30-28	7-4 3/16 (2240)	25 7/8" (657)
28-32-28	7-6 3/16 (2290)	25 7/8" (657)
28-36-28	7-10 3/16 (2392)	25 7/8" (657)
28-40-28	8-2 3/16 (2494)	25 7/8" (657)

30-30-30	7-7 (2311)	27 9/32" (693)
30-32-30	7-9 (2362)	27 9/32" (693)
30-36-30	8-1 (2464)	27 9/32" (693)
30-40-30	8-5 (2565)	27 9/32" (693)

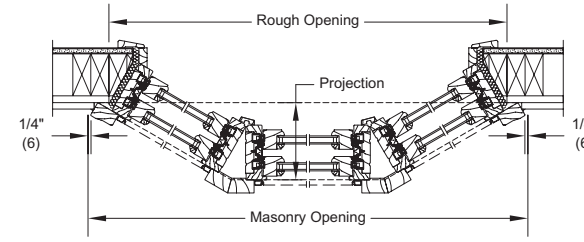
32-32-32	7-11 13/16 (2434)	28 11/16" (729)
32-36-32	8-3 13/16 (2536)	28 11/16" (729)
32-40-32	8-7 13/16 (2637)	28 11/16" (729)

36-36-36	8-9 1/2 (2679)	31 1/2" (800)
36-40-36	9-1 1/2 (2781)	31 1/2" (800)

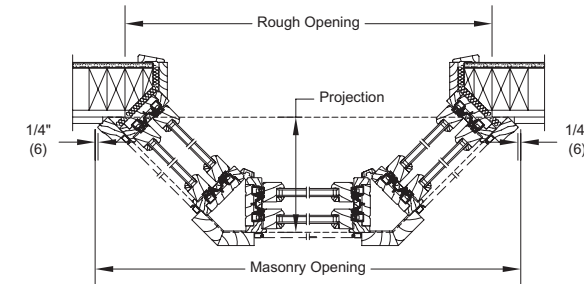
40-40-40	9-7 1/8 (2925)	34 11/32" (872)
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**WOOD DOUBLE HUNG BAY**

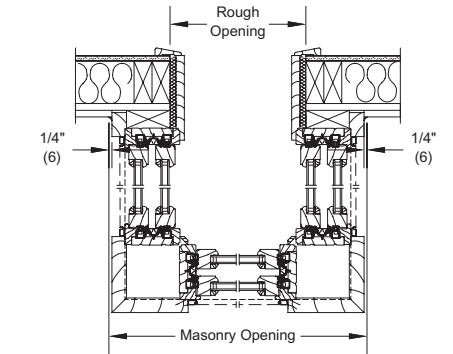
CONSTRUCTION DETAILS



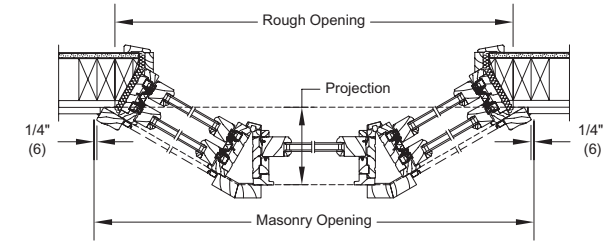
30° ULTIMATE WOOD DOUBLE HUNG BAY JAMB WITH OPERATOR CENTER UNIT



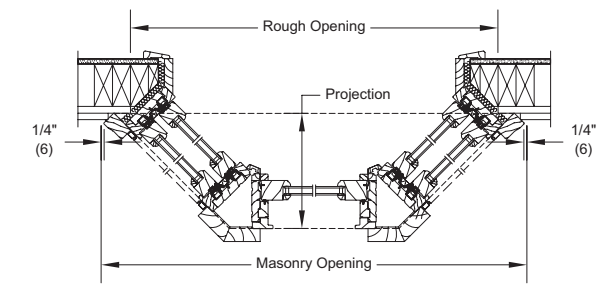
45° ULTIMATE WOOD DOUBLE HUNG BAY JAMB WITH OPERATOR CENTER UNIT



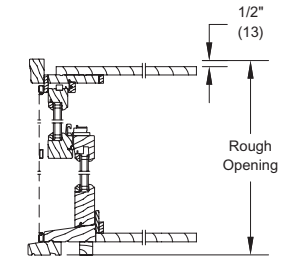
90° ULTIMATE WOOD DOUBLE HUNG BAY JAMB WITH OPERATOR CENTER UNIT



30° ULTIMATE WOOD DOUBLE HUNG BAY JAMB WITH PICTURE CENTER UNIT



45° ULTIMATE WOOD DOUBLE HUNG BAY JAMB WITH PICTURE CENTER UNIT



ULTIMATE WOOD DOUBLE HUNG BAY HEAD JAMB AND SILL

60° ULTIMATE DOUBLE HUNG BAY FORMULA

TO CALCULATE PROJECTION  
Flanker GLASS SIZE (width) PLUS 9.3217 (237) x .86603 (22) = PROJECTION

TO CALCULATE ROUGH OPENING  
PROJECTION x .57735 (15) MINUS 2.1251 (54) x 2 (51) PLUS 5.2684 (134) PLUS  
Center Unit Sash Operating width = ROUGH OPENING width (Allows 1" (25) clearance)

90° ULTIMATE DOUBLE HUNG BAY FORMULA

TO CALCULATE PROJECTION  
OM of Flanker (width) PLUS 6 1/16" (154) = PROJECTION

TO CALCULATE ROUGH OPENING  
OM of Center Unit(s) (width) PLUS 1 5/8" (41) = ROUGH OPENING width

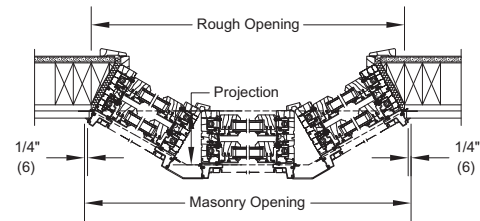
ROUGH OPENING HEIGHTS

UNIT NO. (HEIGHT)	ROUGH OPENING	
Side Unit No.      Center Unit No.      Height		
16	38	3-6 3/16 (1073)
18	42	3-10 3/16 (1175)
20	46	4-2 3/16 (1276)
22	50	4-6 3/16 (1378)
24	54	4-10 3/16 (1480)
26	58	5-2 3/16 (1581)
28	62	5-6 3/16 (1683)
30	66	5-10 3/16 (1784)
32	70	6-2 3/16 (1886)
34	74	6-6 3/16 (1988)
36	78	6-10 3/16 (2089)

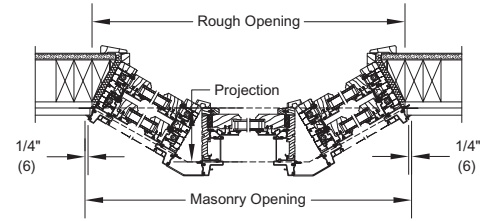
Details and Elevations not to scale.  
• Above dimensions include head and seat boards.  
If no head/seat board, deduct 1 1/16" (17) in rough opening height.  
Please consult your local Marvin representative for more information.  
For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

# DOUBLE HUNG BAY G2

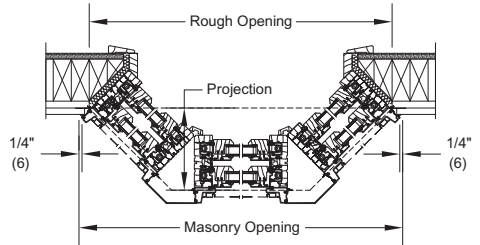
## CONSTRUCTION DETAILS



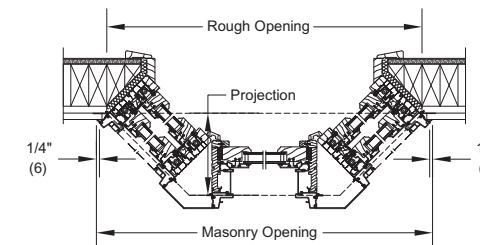
30° ULTIMATE DOUBLE HUNG G2 BAY JAMB DETAIL WITH OPERATOR CENTER UNIT



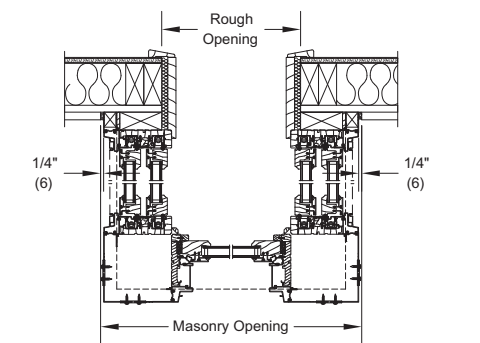
30° ULTIMATE DOUBLE HUNG G2 BAY JAMB DETAIL WITH PICTURE CENTER UNIT



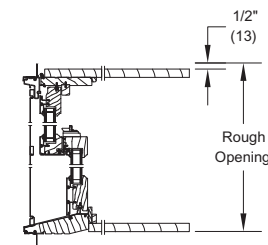
45° ULTIMATE DOUBLE HUNG G2 BAY JAMB DETAIL WITH OPERATOR CENTER UNIT



45° ULTIMATE DOUBLE HUNG G2 BAY JAMB DETAIL WITH PICTURE CENTER UNIT



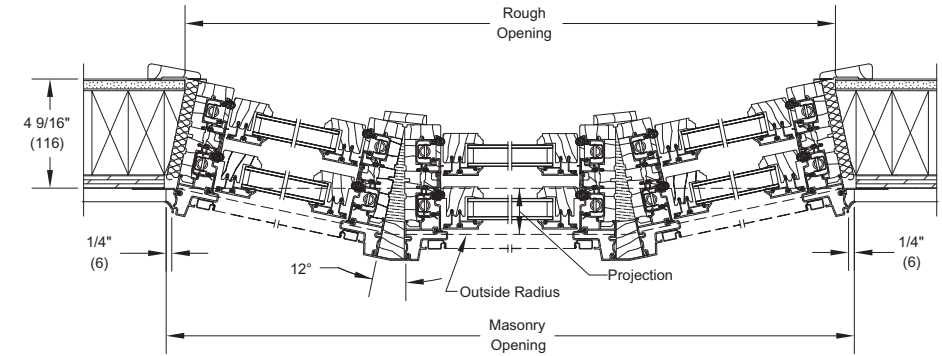
90° ULTIMATE DOUBLE HUNG G2 BAY JAMB DETAIL WITH PICTURE CENTER UNIT



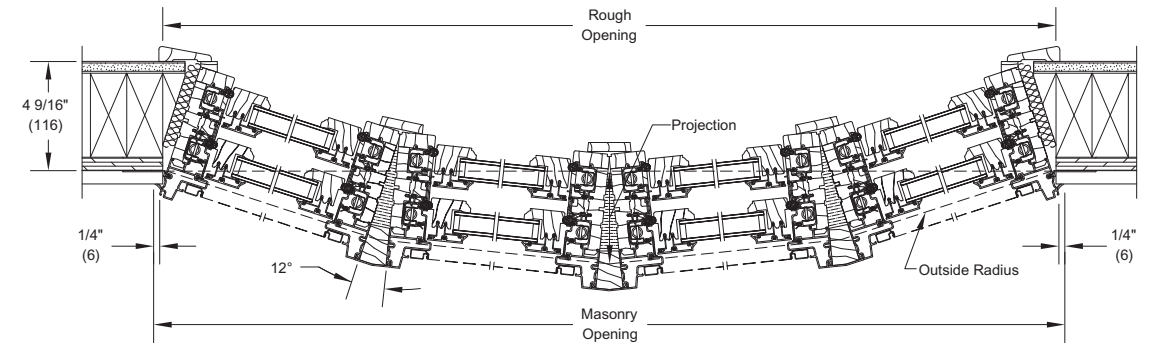
ULTIMATE DOUBLE HUNG G2 BAY HEAD JAMB AND SILL DETAIL

# DOUBLE HUNG BOW G2

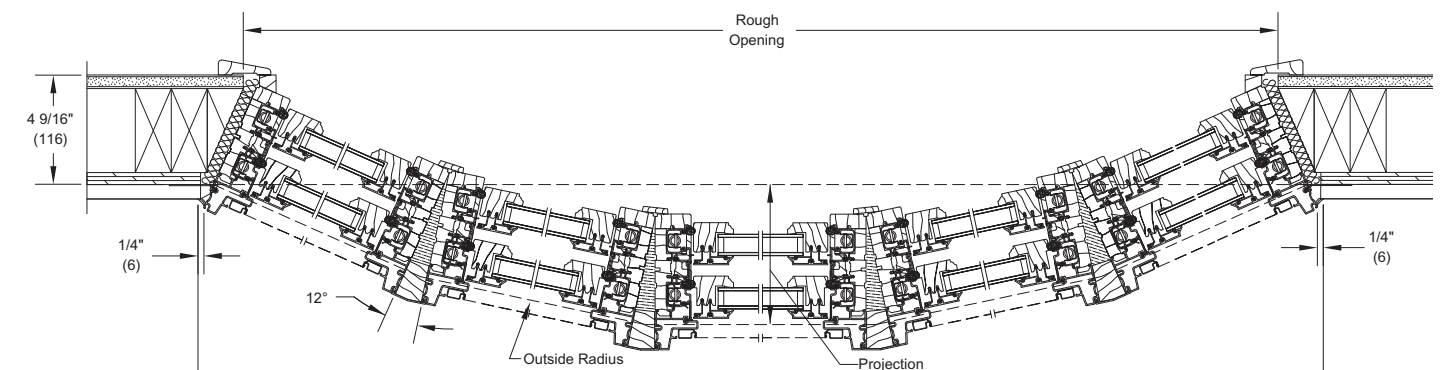
## CONSTRUCTION DETAILS



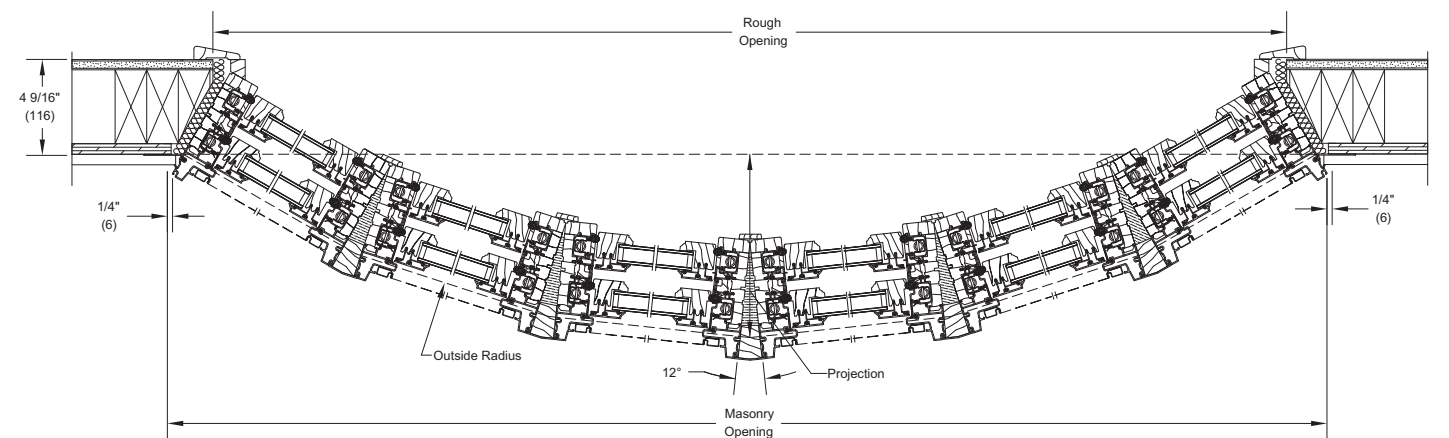
JAMB DETAIL - 3 WIDE



JAMB DETAIL - 4 WIDE



JAMB DETAIL - 5 WIDE



JAMB DETAIL - 6 WIDE

**WOOD CASEMENT / WOOD CASEMENT PUSH OUT**

<b>MO (mm)</b>	1 - 7 5/8 (498)	1 - 9 5/8 (549)	1 - 11 5/8 (600)	2 - 3 5/8 (702)	2 - 5 5/8 (752)	2 - 7 5/8 (803)	2 - 9 5/8 (854)	2 - 11 5/8 (905)	3 - 3 5/8 (1006)	3 - 7 5/8 (1108)
<b>RO (mm)</b>	1 - 5 (431)	1 - 7 (482)	1 - 9 (533)	2 - 1 (635)	2 - 3 (685)	2 - 5 (736)	2 - 7 (787)	2 - 9 (838)	3 - 1 (939)	3 - 5 (1041)
<b>FS (mm)</b>	1 - 4 (406)	1 - 6 (457)	1 - 8 (508)	2 - 0 (609)	2 - 2 (660)	2 - 4 (711)	2 - 6 (762)	2 - 8 (812)	3 - 0 (914)	3 - 4 (1016)
<b>DLO (mm)</b>	0 - 10 3/16 (259)	1 - 0 3/16 (310)	1 - 2 3/16 (360)	1 - 6 3/16 (462)	1 - 8 3/16 (513)	1 - 10 3/16 (564)	2 - 0 3/16 (614)	2 - 2 3/16 (665)	2 - 6 3/16 (767)	2 - 10 3/16 (868)

1 - 3 7/8 (403) 1 - 2 9/16 (370) 1 - 2 1/16 (357) 0 - 7 21/64 (186)										
1 - 5 7/8 (454) 1 - 4 9/16 (421) 1 - 4 1/16 (408) 0 - 9 21/64 (237)										
1 - 7 7/8 (505) 1 - 6 9/16 (472) 1 - 6 1/16 (459) 0 - 11 21/64 (288)										
1 - 9 7/8 (556) 1 - 8 9/16 (523) 1 - 8 1/16 (510) 1 - 1 21/64 (339)										
2 - 1 7/8 (657) 2 - 9/16 (624) 2 - 1/16 (611) 1 - 5 21/64 (440)										
2 - 5 7/8 (759) 2 - 4 9/16 (725) 2 - 4 1/16 (713) 1 - 9 21/64 (542)										
2 - 9 7/8 (860) 2 - 8 9/16 (827) 2 - 8 1/16 (814) 2 - 1 21/64 (643)										
3 - 1 7/8 (962) 3 - 9/16 (929) 3 - 1/16 (916) 2 - 5 21/64 (745)										

**WOOD CASEMENT / WOOD CASEMENT PUSH OUT**

<b>MO (mm)</b>	1 - 7 5/8 (498)	1 - 9 5/8 (549)	1 - 11 5/8 (600)	2 - 3 5/8 (702)	2 - 5 5/8 (752)	2 - 7 5/8 (803)	2 - 9 5/8 (854)	2 - 11 5/8 (905)	3 - 3 5/8 (1006)	3 - 7 5/8 (1108)
<b>RO (mm)</b>	1 - 5 (431)	1 - 7 (482)	1 - 9 (533)	2 - 1 (635)	2 - 3 (685)	2 - 5 (736)	2 - 7 (787)	2 - 9 (838)	3 - 1 (939)	3 - 5 (1041)
<b>FS (mm)</b>	1 - 4 (406)	1 - 6 (457)	1 - 8 (508)	2 - 0 (609)	2 - 2 (660)	2 - 4 (711)	2 - 6 (762)	2 - 8 (812)	3 - 0 (914)	3 - 4 (1016)
<b>DLO (mm)</b>	0 - 10 3/16 (259)	1 - 0 3/16 (310)	1 - 2 3/16 (360)	1 - 6 3/16 (462)	1 - 8 3/16 (513)	1 - 10 3/16 (564)	2 - 0 3/16 (614)	2 - 2 3/16 (665)	2 - 6 3/16 (767)	2 - 10 3/16 (868)

3 - 5 7/8 (1064) 3 - 4 9/16 (1030) 3 - 4 1/16 (1018) 2 - 9 21/64 (847)										
3 - 9 7/8 (1165) 3 - 8 9/16 (1132) 3 - 8 1/16 (1119) 3 - 1 21/64 (948)										
4 - 1 7/8 (1267) 4 - 9/16 (1233) 4 - 1/16 (1221) 3 - 5 21/64 (1050)										
4 - 7 7/8 (1419) 4 - 6 9/16 (1386) 4 - 6 1/16 (1373) 3 - 11 21/64 (1202)										
4 - 9 7/8 (1470) 4 - 8 9/16 (1437) 4 - 8 1/16 (1424) 4 - 1 21/64 (1253)										
5 - 1 7/8 (1572) 5 - 9/16 (1538) 5 - 1/16 (1526) 4 - 5 21/64 (1355)										
5 - 5 7/8 (1673) 5 - 4 9/16 (1640) 5 - 4 1/16 (1627) 4 - 9 21/64 (1456)										

Details and Elevations not to scale.

- Marvin exclusive wash mode is not available on Ultimate Awning, Ultimate Casement Round Tops or Ultimate Casement Windows less than 20" in width.
- Ultimate Wood Casement Push Out not available in frame size heights less than 16 1/16".
- For units with a tall bottom rail, reduce the DLO height by 1 1/2".
- These windows meet national Egress codes for fire evacuation. Local codes may differ.

Please consult your local Marvin representative for more information. For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

Details and Elevations not to scale.

- Marvin exclusive wash mode is not available on Ultimate Awning, Ultimate Casement Round Tops or Ultimate Casement Windows less than 20" in width.
- For units with a tall bottom rail, reduce the DLO height by 1 1/2".
- These windows meet national Egress codes for fire evacuation. Local codes may differ.
- For safety and/or code requirements, Marvin recommends tempered glass in all units with a frame size height of 72 1/16" or larger and units with a frame size of 25.2 ft² and larger.

Please consult your local Marvin representative for more information. For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

Ultimate Wood Casement: UWCA  
Ultimate Wood Casement Push Out: UWCAPO



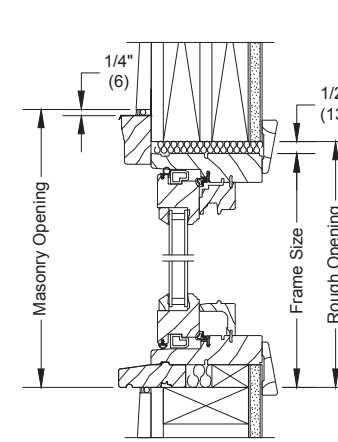
**WOOD CASEMENT / WOOD CASEMENT PUSH OUT**

<b>MO (mm)</b>	1 - 7 5/8 (498)	1 - 9 5/8 (549)	1 - 11 5/8 (600)	2 - 3 5/8 (702)	2 - 5 5/8 (752)	2 - 7 5/8 (803)	2 - 9 5/8 (854)	2 - 11 5/8 (905)	3 - 3 5/8 (1006)	3 - 7 5/8 (1108)
<b>RO (mm)</b>	1 - 5 (431)	1 - 7 (482)	1 - 9 (533)	2 - 1 (635)	2 - 3 (685)	2 - 5 (736)	2 - 7 (787)	2 - 9 (838)	3 - 1 (939)	3 - 5 (1041)
<b>FS (mm)</b>	1 - 4 (406)	1 - 6 (457)	1 - 8 (508)	2 - 0 (609)	2 - 2 (660)	2 - 4 (711)	2 - 6 (762)	2 - 8 (812)	3 - 0 (914)	3 - 4 (1016)
<b>DLO (mm)</b>	0 - 10 3/16 (259)	1 - 0 3/16 (310)	1 - 2 3/16 (360)	1 - 6 3/16 (462)	1 - 8 3/16 (513)	1 - 10 3/16 (564)	2 - 0 3/16 (614)	2 - 2 3/16 (665)	2 - 6 3/16 (767)	2 - 10 3/16 (868)

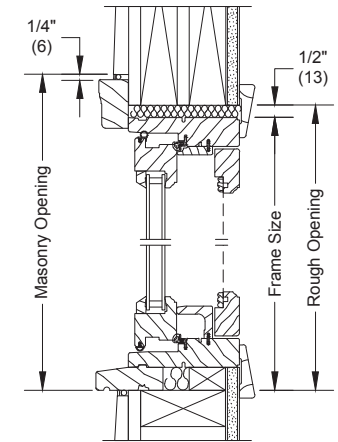
6 - 1 7/8 (1876) 6 - 9/16 (1643) 6 - 11/16 (1830) 5 - 5 21/64 (1659)												
	UWCA1672 T	UWCA1872 T	UWCA2072 T	UWCA2472 T	UWCA2672 T	UWCA2872 ET	UWCA3072 ET	UWCA3272 ET	UWCA3672 ET	UWCA4072 ET		
	UWCAPO1672 T	UWCAPO1872 T	UWCAPO2072 T	UWCAPO2472 T	UWCAPO2672 T	UWCAPO2872 ET	UWCAPO3072 ET	UWCAPO3272 ET	UWCAPO3672 ET	UWCAPO4072 ET		
	6 - 7 7/8 (2029) 6 - 6 9/16 (1995) 6 - 6 11/16 (1983) 5 - 11 21/64 (1812)											
		UWCA1678 T	UWCA1878 T	UWCA2078 T	UWCA2478 T	UWCA2678 T	UWCA2878 ET	UWCA3078 ET	UWCA3278 ET	UWCA3678 ET	UWCA4078 ET	
		UWCAPO1678 T	UWCAPO1878 T	UWCAPO2078 T	UWCAPO2478 T	UWCAPO2678 T	UWCAPO2878 ET	UWCAPO3078 ET	UWCAPO3278 ET	UWCAPO3678 ET	UWCAPO4078 ET	
		7 - 1 7/8 (2181) 7 - 9/16 (2146) 7 - 11/16 (2135) 6 - 5 21/64 (1964)										
			UWCA1684 T	UWCA1884 T	UWCA2084 T	UWCA2484 T	UWCA2684 T	UWCA2884 ET	UWCA3084 ET	UWCA3284 ET	UWCA3684 ET	UWCA4084 ET
			UWCAPO1684 T	UWCAPO1884 T	UWCAPO2084 T	UWCAPO2484 T	UWCAPO2684 T	UWCAPO2884 ET	UWCAPO3084 ET	UWCAPO3284 ET	UWCAPO3684 ET	UWCAPO4084 ET
			7 - 9 7/8 (2384) 7 - 8 9/16 (2351) 7 - 8 11/16 (2338) 7 - 1 21/64 (2167)									
UWCA1692 T				UWCA1892 T	UWCA2092 T	UWCA2492 T	UWCA2692 T	UWCA2892 ET	UWCA3092 ET	UWCA3292 ET	UWCA3692 ET	UWCA4092 ET
UWCAPO1692 T				UWCAPO1892 T	UWCAPO2092 T	UWCAPO2492 T	UWCAPO2692 T	UWCAPO2892 ET	UWCAPO3092 ET	UWCAPO3292 ET	UWCAPO3692 ET	UWCAPO4092 ET
8 - 1 7/8 (2486) 8 - 9/16 (2453) 8 - 11/16 (2440) 7 - 5 21/64 (2269)												
	UWCA1696 T			UWCA1896 T	UWCA2096 T	UWCA2496 T	UWCA2696 T	UWCA2896 ET	UWCA3096 ET	UWCA3296 ET	UWCA3696 ET	
	UWCAPO1696 T			UWCAPO1896 T	UWCAPO2096 T	UWCAPO2496 T	UWCAPO2696 T	UWCAPO2896 ET	UWCAPO3096 ET	UWCAPO3296 ET	UWCAPO3696 ET	

**WOOD CASEMENT / WOOD CASEMENT PUSH OUT**

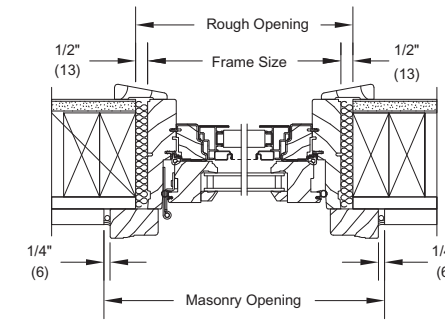
CONSTRUCTION DETAILS



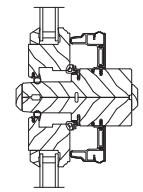
CRANKOUT HEAD JAMB AND SILL - OPERATOR WITH OPTIONAL SCREEN



PUSH OUT HEAD JAMB AND SILL - OPERATOR WITH OPTIONAL SCREEN



JAMB - OPERATOR



HORIZONTAL MULLION OPERATOR

### CASEMENT / CASEMENT PUSH OUT

MO (mm)	1 - 4 1/2 (419)	1 - 6 1/2 (469)	1 - 8 1/2 (520)	2 - 1/2 (622)	2 - 2 1/2 (673)	2 - 4 1/2 (723)	2 - 6 1/2 (774)	2 - 8 1/2 (825)	3 - 1/2 (927)	3 - 4 1/2 (1028)
RO (mm)	1 - 5 (431)	1 - 7 (482)	1 - 9 (533)	2 - 1 (635)	2 - 3 (685)	2 - 5 (736)	2 - 7 (787)	2 - 9 (838)	3 - 1 (939)	3 - 5 (1041)
FS (mm)	1 - 4 (406)	1 - 6 (457)	1 - 8 (508)	2 - 0 (609)	2 - 2 (660)	2 - 4 (711)	2 - 6 (762)	2 - 8 (812)	3 - 0 (914)	3 - 4 (1016)
DLO (mm)	0 - 10 13/64 (259)	1 - 0 13/64 (310)	1 - 2 13/64 (361)	1 - 6 13/64 (462)	1 - 8 13/64 (513)	1 - 10 13/64 (564)	2 - 0 13/64 (615)	2 - 2 13/64 (666)	2 - 6 13/64 (767)	2 - 10 13/64 (869)
1 - 1 3/8 (339)	UCA1614	UCA1814	UCA2014	UCA2414	UCA2614	UCA2814	UCA3014	UCA3214	UCA3614	UCA4014
1 - 1 5/8 (346)	UCA1616	UCA1816	UCA2016	UCA2416	UCA2616	UCA2816	UCA3016	UCA3216	UCA3616	UCA4016
1 - 3 3/8 (390)	UCAPO1616	UCAPO1816	UCAPO2016	UCAPO2416	UCAPO2616	UCAPO2816	UCAPO3016	UCAPO3216	UCAPO3616	UCAPO4016
1 - 3 5/8 (396)	UCA1618	UCA1818	UCA2018	UCA2418	UCA2618	UCA2818	UCA3018	UCA3218	UCA3618	UCA4018
1 - 3 7/8 (403)	UCAPO1618	UCAPO1818	UCAPO2018	UCAPO2418	UCAPO2618	UCAPO2818	UCAPO3018	UCAPO3218	UCAPO3618	UCAPO4018
1 - 5 3/8 (441)	UCA1620	UCA1820	UCA2020	UCA2420	UCA2620	UCA2820	UCA3020	UCA3220	UCA3620	UCA4020
1 - 5 5/8 (447)	UCAPO1620	UCAPO1820	UCAPO2020	UCAPO2420	UCAPO2620	UCAPO2820	UCAPO3020	UCAPO3220	UCAPO3620	UCAPO4020
1 - 5 7/8 (454)	UCA1624	UCA1824	UCA2024	UCA2424	UCA2624	UCA2824	UCA3024	UCA3224	UCA3624	UCA4024
1 - 5 9/8 (461)	UCAPO1624	UCAPO1824	UCAPO2024	UCAPO2424	UCAPO2624	UCAPO2824	UCAPO3024	UCAPO3224	UCAPO3624	UCAPO4024
1 - 7 3/8 (492)	UCA1628	UCA1828	UCA2028	UCA2428	UCA2628	UCA2828	UCA3028	UCA3228	UCA3628	UCA4028
1 - 7 5/8 (498)	UCAPO1628	UCAPO1828	UCAPO2028	UCAPO2428	UCAPO2628	UCAPO2828	UCAPO3028	UCAPO3228	UCAPO3628	UCAPO4028
1 - 7 7/8 (505)	UCA1632	UCA1832	UCA2032	UCA2432	UCA2632	UCA2832	UCA3032	UCA3232	UCA3632	UCA4032 E
1 - 7 9/8 (512)	UCAPO1632	UCAPO1832	UCAPO2032	UCAPO2432	UCAPO2632	UCAPO2832	UCAPO3032	UCAPO3232	UCAPO3632	UCAPO4032 E
1 - 9 3/8 (543)	UCA1636	UCA1836	UCA2036	UCA2436	UCA2636	UCA2836	UCA3036	UCA3236	UCA3636 E	UCA4036 E
1 - 9 5/8 (550)	UCAPO1636	UCAPO1836	UCAPO2036	UCAPO2436	UCAPO2636	UCAPO2836	UCAPO3036	UCAPO3236	UCAPO3636 E	UCAPO4036 E
2 - 3 3/8 (695)	UCA1640	UCA1840	UCA2040	UCA2440	UCA2640	UCA2840	UCA3040	UCA3240 E	UCA3640 E	UCA4040 E
2 - 3 5/8 (701)	UCAPO1640	UCAPO1840	UCAPO2040	UCAPO2440	UCAPO2640	UCAPO2840	UCAPO3040 E	UCAPO3240 E	UCAPO3640 E	UCAPO4040 E
2 - 3 7/8 (708)	UCA1644	UCA1844	UCA2044	UCA2444	UCA2644	UCA2844	UCA3044 E	UCA3244 E	UCA3644 E	UCA4044 E
2 - 3 9/8 (715)	UCAPO1644	UCAPO1844	UCAPO2044	UCAPO2444	UCAPO2644	UCAPO2844 E	UCAPO3044 E	UCAPO3244 E	UCAPO3644 E	UCAPO4044 E
2 - 5 3/8 (745)	UCA1648	UCA1848	UCA2048	UCA2448	UCA2648	UCA2848 E	UCA3048 E	UCA3248 E	UCA3648 E	UCA4048 E
2 - 5 5/8 (752)	UCAPO1648	UCAPO1848	UCAPO2048	UCAPO2448	UCAPO2648	UCAPO2848 E	UCAPO3048 E	UCAPO3248 E	UCAPO3648 E	UCAPO4048 E
2 - 7 3/8 (786)	UCA1654	UCA1854	UCA2054	UCA2454	UCA2654	UCA2854 E	UCA3054 E	UCA3254 E	UCA3654 E	UCA4054 E
2 - 7 5/8 (793)	UCAPO1654	UCAPO1854	UCAPO2054	UCAPO2454	UCAPO2654	UCAPO2854 E	UCAPO3054 E	UCAPO3254 E	UCAPO3654 E	UCAPO4054 E
2 - 7 7/8 (800)	UCA1656	UCA1856	UCA2056	UCA2456	UCA2656	UCA2856 E	UCA3056 E	UCA3256 E	UCA3656 E	UCA4056 E
2 - 7 9/8 (807)	UCAPO1656	UCAPO1856	UCAPO2056	UCAPO2456	UCAPO2656	UCAPO2856 E	UCAPO3056 E	UCAPO3256 E	UCAPO3656 E	UCAPO4056 E
2 - 9 3/8 (838)	UCA1660	UCA1860	UCA2060	UCA2460	UCA2660	UCA2860 E	UCA3060 E	UCA3260 E	UCA3660 E	UCA4060 E
2 - 9 5/8 (845)	UCAPO1660	UCAPO1860	UCAPO2060	UCAPO2460	UCAPO2660	UCAPO2860 E	UCAPO3060 E	UCAPO3260 E	UCAPO3660 E	UCAPO4060 E
2 - 11 3/8 (898)	UCA1664	UCA1864	UCA2064	UCA2464	UCA2664	UCA2864 E	UCA3064 E	UCA3264 E	UCA3664 E	UCA4064 E
2 - 11 5/8 (904)	UCAPO1664	UCAPO1864	UCAPO2064	UCAPO2464	UCAPO2664	UCAPO2864 E	UCAPO3064 E	UCAPO3264 E	UCAPO3664 E	UCAPO4064 E
2 - 11 7/8 (911)	UCA1672 T	UCA1872 T	UCA2072 T	UCA2472 T	UCA2672 T	UCA2872 ET	UCA3072 ET	UCA3272 ET	UCA3672 ET	UCA4072 ET
2 - 11 9/8 (918)	UCAPO1672 T	UCAPO1872 T	UCAPO2072 T	UCAPO2472 T	UCAPO2672 T	UCAPO2872 ET	UCAPO3072 ET	UCAPO3272 ET	UCAPO3672 ET	UCAPO4072 ET

### CASEMENT / CASEMENT PUSH OUT

MO (mm)	1 - 4 1/2 (419)	1 - 6 1/2 (469)	1 - 8 1/2 (520)	2 - 1/2 (622)	2 - 2 1/2 (673)	2 - 4 1/2 (723)	2 - 6 1/2 (774)	2 - 8 1/2 (825)	3 - 1/2 (927)	3 - 4 1/2 (1028)
RO (mm)	1 - 5 (431)	1 - 7 (482)	1 - 9 (533)	2 - 1 (635)	2 - 3 (685)	2 - 5 (736)	2 - 7 (787)	2 - 9 (838)	3 - 1 (939)	3 - 5 (1041)
FS (mm)	1 - 4 (406)	1 - 6 (457)	1 - 8 (508)	2 - 0 (609)	2 - 2 (660)	2 - 4 (711)	2 - 6 (762)	2 - 8 (812)	3 - 0 (914)	3 - 4 (1016)
DLO (mm)	0 - 10 13/64 (259)	1 - 0 13/64 (310)	1 - 2 13/64 (361)	1 - 6 13/64 (462)	1 - 8 13/64 (513)	1 - 10 13/64 (564)	2 - 0 13/64 (615)	2 - 2 13/64 (666)	2 - 6 13/64 (767)	2 - 10 13/64 (869)
3 - 7 3/8 (1101)	UCA1644	UCA1844	UCA2044	UCA2444	UCA2644	UCA2844	UCA3044 E	UCA3244 E	UCA3644 E	UCA4044 E
3 - 7 5/8 (1108)	UCAPO1644	UCAPO1844	UCAPO2044	UCAPO2444	UCAPO2644	UCAPO2844 E	UCAPO3044 E	UCAPO3244 E	UCAPO3644 E	UCAPO4044 E
3 - 7 7/8 (1115)	UCA1648	UCA1848	UCA2048	UCA2448	UCA2648	UCA2848 E	UCA3048 E	UCA3248 E	UCA3648 E	UCA4048 E
3 - 7 9/8 (1122)	UCAPO1648	UCAPO1848	UCAPO2048	UCAPO2448	UCAPO2648	UCAPO2848 E	UCAPO3048 E	UCAPO3248 E	UCAPO3648 E	UCAPO4048 E
3 - 9 3/8 (1153)	UCA1654	UCA1854	UCA2054	UCA2454	UCA2654	UCA2854 E	UCA3054 E	UCA3254 E	UCA3654 E	UCA4054 E
3 - 9 5/8 (1160)	UCAPO1654	UCAPO1854	UCAPO2054	UCAPO2454	UCAPO2654	UCAPO2854 E	UCAPO3054 E	UCAPO3254 E	UCAPO3654 E	UCAPO4054 E
3 - 9 7/8 (1167)	UCA1656	UCA1856	UCA2056	UCA2456	UCA2656	UCA2856 E	UCA3056 E	UCA3256 E	UCA3656 E	UCA4056 E
3 - 9 9/8 (1174)	UCAPO1656	UCAPO1856	UCAPO2056	UCAPO2456	UCAPO2656	UCAPO2856 E	UCAPO3056 E	UCAPO3256 E	UCAPO3656 E	UCAPO4056 E
3 - 11 3/8 (1205)	UCA1660	UCA1860	UCA2060	UCA2460	UCA2660	UCA2860 E	UCA3060 E	UCA3260 E	UCA3660 E	UCA4060 E
3 - 11 5/8 (1212)	UCAPO1660	UCAPO1860	UCAPO2060	UCAPO2460	UCAPO2660	UCAPO2860 E	UCAPO3060 E	UCAPO3260 E	UCAPO3660 E	UCAPO4060 E
3 - 11 7/8 (1219)	UCA1664	UCA1864	UCA2064	UCA2464	UCA2664	UCA2864 E	UCA3064 E	UCA3264 E	UCA3664 E	UCA4064 E
3 - 11 9/8 (1226)	UCAPO1664	UCAPO1864	UCAPO2064	UCAPO2464	UCAPO2664	UCAPO2864 E	UCAPO3064 E	UCAPO3264 E	UCAPO3664 E	UCAPO4064 E
3 - 11 3/8 (1205)	UCA1672 T	UCA1872 T	UCA2072 T	UCA2472 T	UCA2672 T	UCA2872 ET	UCA3072 ET	UCA3272 ET	UCA3672 ET	UCA4072 ET
3 - 11 5/8 (1212)	UCAPO1672 T	UCAPO1872 T	UCAPO2072 T	UCAPO2472 T	UCAPO2672 T	UCAPO2872 ET	UCAPO3072 ET	UCAPO3272 ET	UCAPO3672 ET	UCAPO4072 ET

Details and Elevations not to scale.

- Marvin exclusive wash mode is not available on Ultimate Awning, Ultimate Casement Round Tops or Ultimate Casement Windows less than 20" in width.
- Ultimate Casement Push Out not available in frame size heights less than 15 1/8"
- For units with a tall bottom rail, reduce the DLO height by 1 1/2".

E These windows meet national Egress codes for fire evacuation. Local codes may differ.

T For safety and/or code requirements, Marvin recommends tempered glass in all units with a frame size height of 71 1/8" or larger and units with a frame size of 25.2 ft<sup>2</sup> and larger.

Please consult your local Marvin representative for more information. For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

Ultimate Casement: UCA  
Ultimate Casement Push Out: UCAPO

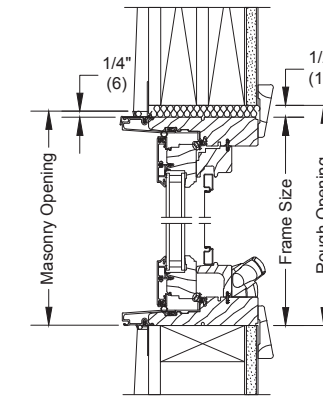
**CASEMENT / CASEMENT PUSH OUT**

**CASEMENT / CASEMENT PUSH OUT**

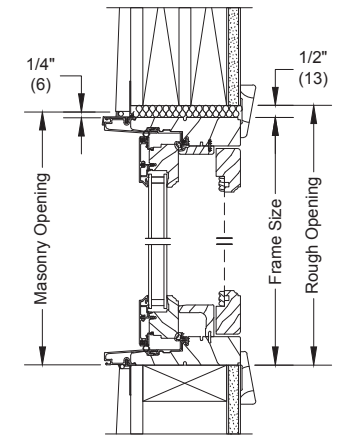
CONSTRUCTION DETAILS

<b>MO (mm)</b>	1 - 4 1/2 (419)	1 - 6 1/2 (469)	1 - 8 1/2 (520)	2 - 1/2 (622)	2 - 2 1/2 (673)	2 - 4 1/2 (723)	2 - 6 1/2 (774)	2 - 8 1/2 (825)	3 - 1/2 (927)	3 - 4 1/2 (1028)
<b>RO (mm)</b>	1 - 5 (431)	1 - 7 (482)	1 - 9 (533)	2 - 1 (635)	2 - 3 (685)	2 - 5 (736)	2 - 7 (787)	2 - 9 (838)	3 - 1 (939)	3 - 5 (1041)
<b>FS (mm)</b>	1 - 4 (406)	1 - 6 (457)	1 - 8 (508)	2 - 0 (609)	2 - 2 (660)	2 - 4 (711)	2 - 6 (762)	2 - 8 (812)	3 - 0 (914)	3 - 4 (1016)
<b>DLO (mm)</b>	0 - 10 13/64 (259)	1 - 0 13/64 (310)	1 - 2 13/64 (361)	1 - 6 13/64 (462)	1 - 8 13/64 (513)	1 - 10 13/64 (564)	2 - 0 13/64 (615)	2 - 2 13/64 (666)	2 - 6 13/64 (767)	2 - 10 13/64 (869)

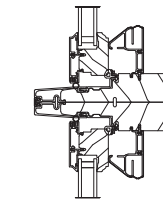
6 - 5 3/8 (1965) 6 - 5 5/8 (1971) 6 - 5 7/8 (1958) 5 - 11 21/64 (1812)										
	UCA1678 T UCAPO1678 T	UCA1878 T UCAPO1878 T	UCA2078 T UCAPO2078 T	UCA2478 T UCAPO2478 T	UCA2678 T UCAPO2678 T	UCA2878 ET UCAPO2878 ET	UCA3078 ET UCAPO3078 ET	UCA3278 ET UCAPO3278 ET	UCA3678 ET UCAPO3678 ET	UCA4078 ET UCAPO4078 ET
6 - 11 3/8 (2117) 6 - 11 5/8 (2124) 6 - 11 7/8 (2111) 6 - 5 21/64 (1964)										
	UCA1684 T UCAPO1684 T	UCA1884 T UCAPO1884 T	UCA2084 T UCAPO2084 T	UCA2484 T UCAPO2484 T	UCA2684 T UCAPO2684 T	UCA2884 ET UCAPO2884 ET	UCA3084 ET UCAPO3084 ET	UCA3284 ET UCAPO3284 ET	UCA3684 ET UCAPO3684 ET	UCA4084 ET UCAPO4084 ET
7 - 7 3/8 (2320) 7 - 7 5/8 (2327) 7 - 7 7/8 (2314) 7 - 1 21/64 (2167)										
	UCA1692 T UCAPO1692 T	UCA1892 T UCAPO1892 T	UCA2092 T UCAPO2092 T	UCA2492 T UCAPO2492 T	UCA2692 T UCAPO2692 T	UCA2892 ET UCAPO2892 ET	UCA3092 ET UCAPO3092 ET	UCA3292 ET UCAPO3292 ET	UCA3692 ET UCAPO3692 ET	UCA4092 ET UCAPO4092 ET
7 - 11 3/8 (2422) 7 - 11 5/8 (2428) 7 - 11 7/8 (2416) 7 - 5 21/64 (2269)										
	UCA1696 T UCAPO1696 T	UCA1896 T UCAPO1896 T	UCA2096 T UCAPO2096 T	UCA2496 T UCAPO2496 T	UCA2696 T UCAPO2696 T	UCA2896 ET UCAPO2896 ET	UCA3096 ET UCAPO3096 ET	UCA3296 ET UCAPO3296 ET	UCA3696 ET UCAPO3696 ET	



CRANK OUT  
HEAD JAMB AND SILL - OPERATOR  
WITH SWINGING SCREEN



PUSH OUT  
HEAD JAMB AND SILL - OPERATOR  
WITH SWINGING SCREEN

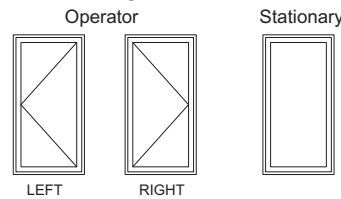


HORIZONTAL MULLION  
OPERATOR

Construction Details

Casements available as an operator or stationary.

L or R handing determined from exterior.



CASEMENT STANDARD OPERATION AS VIEWED FROM THE OUTSIDE



WOOD FRENCH CASEMENT / WOOD FRENCH CASEMENT PUSH OUT

MO (mm)	3 - 3 5/8 (1007)	3 - 7 5/8 (1108)	4 - 3 5/8 (1311)	4 - 11 5/8 (1515)	5 - 3 5/8 (1616)
RO (mm)	3 - 1 (940)	3 - 5 (1041)	4 - 1 (1245)	4 - 9 (1448)	5 - 1 (1549)
FS (mm)	3 - 0 (914)	3 - 4 (1016)	4 - 0 (1219)	4 - 8 (1422)	5 - 0 (1524)
DLO (mm)	1 - 0 55/64 (327)	1 - 2 55/64 (378)	1 - 6 55/64 (479)	1 - 10 55/64 (581)	2 - 0 55/64 (632)
2 - 9 7/8 (860) 2 - 8 9/16 (827) 2 - 8 1/16 (814) 2 - 1 12/64 (643)	 UWFCAPO3632	 UWFCA4032 UWFCAPO4032	 UWFCA4832 E UWFCAPO4832 E	 UWFCA5632 E UWFCAPO5632 E	 UWFCA6032 E UWFCAPO6032 E
3 - 1 7/8 (962) 3 - 9/16 (829) 3 - 1/16 (916) 2 - 5 21/64 (745)	 UWFCAPO3636	 UWFCA4036 UWFCAPO4036 E	 UWFCA4836 E UWFCAPO4836 E	 UWFCA5636 E UWFCAPO5636 E	 UWFCA6036 E UWFCAPO6036 E
3 - 5 7/8 (1064) 3 - 4 9/16 (1030) 3 - 4 1/16 (1018) 2 - 9 21/64 (847)	 UWFCAPO3640	 UWFCA4040 E UWFCAPO4040 E	 UWFCA4840 E UWFCAPO4840 E	 UWFCA5640 E UWFCAPO5640 E	 UWFCA6040 E UWFCAPO6040 E
3 - 9 7/8 (1165) 3 - 8 9/16 (1132) 3 - 8 1/16 (1119) 3 - 1 21/64 (948)	 UWFCAPO3644	 UWFCA4044 E UWFCAPO4044 E	 UWFCA4844 E UWFCAPO4844 E	 UWFCA5644 E UWFCAPO5644 E	 UWFCA6044 E UWFCAPO6044 E
4 - 1 7/8 (1267) 4 - 9/16 (1234) 4 - 1/16 (1221) 3 - 5 21/64 (1050)	 UWFCAPO3648 E	 UWFCA4048 E UWFCAPO4048 E	 UWFCA4848 E UWFCAPO4848 E	 UWFCA5648 E UWFCAPO5648 E	 UWFCA6048 E UWFCAPO6048 E
4 - 7 7/8 (1419) 4 - 6 9/16 (1386) 4 - 6 1/16 (1373) 3 - 11 21/64 (1202)	 UWFCAPO3654 E	 UWFCA4054 E UWFCAPO4054 E	 UWFCA4854 E UWFCAPO4854 E	 UWFCA5654 E UWFCAPO5654 E	 UWFCA6054 E UWFCAPO6054 E

WOOD FRENCH CASEMENT / WOOD FRENCH CASEMENT PUSH OUT

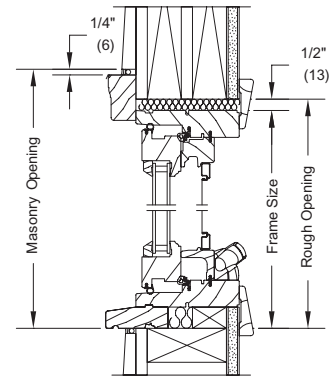
MO (mm)	3 - 3 5/8 (1007)	3 - 7 5/8 (1108)	4 - 3 5/8 (1108)	4 - 11 5/8 (1515)	5 - 3 5/8 (1616)
RO (mm)	3 - 1 (940)	3 - 5 (1041)	4 - 1 (1245)	4 - 9 (1448)	5 - 1 (1549)
FS (mm)	3 - 0 (914)	3 - 4 (1016)	4 - 0 (1219)	4 - 8 (1422)	5 - 0 (1524)
DLO (mm)	1 - 0 55/64 (327)	1 - 2 55/64 (378)	1 - 6 55/64 (479)	1 - 10 55/64 (581)	2 - 0 55/64 (632)
4 - 9 7/8 (1470) 4 - 8 9/16 (1437) 4 - 8 1/16 (1424) 4 - 1 21/64 (1253)	 UWFCAPO3656 E	 UWFCA4056 E UWFCAPO4056 E	 UWFCA4856 E UWFCAPO4856 E	 UWFCA5656 E UWFCAPO5656 E	 UWFCA6056 E UWFCAPO6056 E
5 - 1 7/8 (1572) 5 - 9/16 (1538) 5 - 1/16 (1526) 4 - 5 21/64 (1355)	 UWFCAPO3660 E	 UWFCA4060 E UWFCAPO4060 E	 UWFCA4860 E UWFCAPO4860 E	 UWFCA5660 E UWFCAPO5660 E	 UWFCA6060 E UWFCAPO6060 E
5 - 5 7/8 (1673) 5 - 4 9/16 (1640) 5 - 4 1/16 (1627) 4 - 9 21/64 (1456)	 UWFCAPO3664 E	 UWFCA4064 E UWFCAPO4064 E	 UWFCA4864 E UWFCAPO4864 E	 UWFCA5664 E UWFCAPO5664 E	 UWFCA6064 E UWFCAPO6064 E
6 - 1 7/8 (1876) 6 - 9/16 (1843) 6 - 1/16 (1830) 5 - 5 21/64 (1659)	 UWFCAPO3672 ET	 UWFCA4072 ET UWFCAPO4072 ET	 UWFCA4872 ET UWFCAPO4872 ET	 UWFCA5672 ET UWFCAPO5672 ET	 UWFCA6072 ET UWFCAPO6072 ET

Details and Elevations not to scale.  
 E These windows meet national Egress codes for fire evacuation.  
 Local codes may differ.  
 T For safety and/or code requirements, Marvin recommends tempered glass in all units with a frame size height of 72 1/16" or larger and units with a frame size of 25.2 ft² and larger.  
 Please consult your local Marvin representative for more information.  
 For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

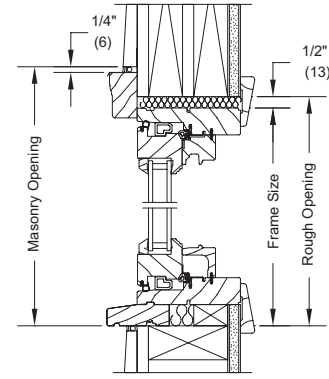
Ultimate Wood French Casement: UWFCA  
 Ultimate Wood French Casement Push Out: UWFCAPO

# WOOD FRENCH CASEMENT

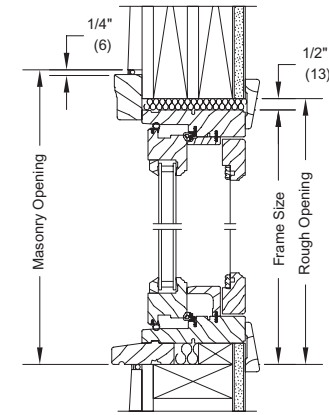
## CONSTRUCTION DETAILS



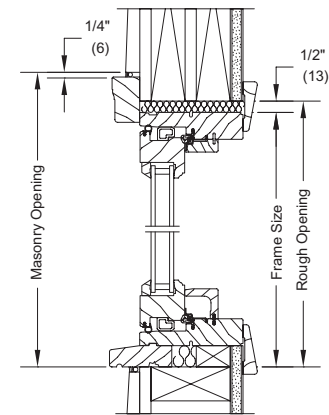
HEAD JAMB AND SILL - OPERATOR



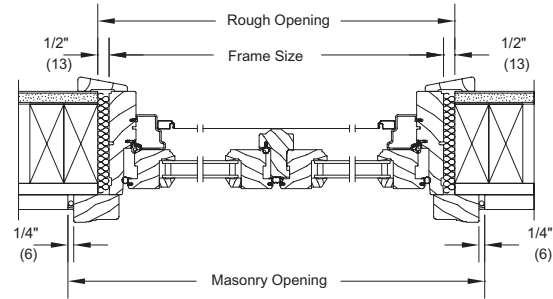
HEAD JAMB AND SILL - STATIONARY



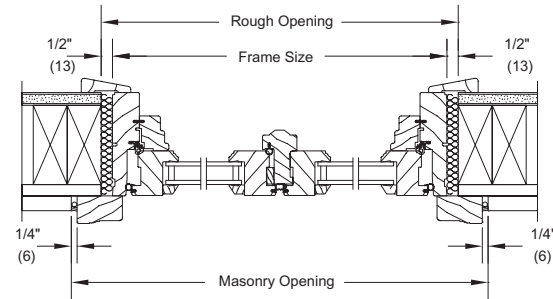
HEAD JAMB AND SILL - OPERATOR WITH SCREEN OPTION



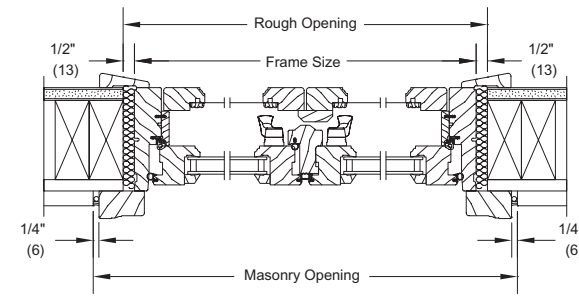
HEAD JAMB AND SILL - STATIONARY



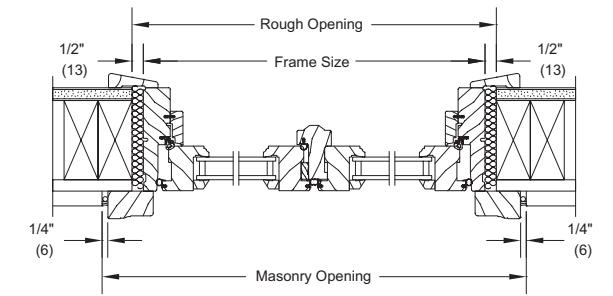
JAMB - OPERATOR



JAMB - STATIONARY



JAMB - OPERATOR WITH SCREEN OPTION



JAMB - STATIONARY

**FRENCH CASEMENT / FRENCH CASEMENT PUSH OUT**

MO (mm)	3 - 0 1/2 (927)	3 - 4 1/2 (1029)	4 - 0 1/2 (1232)	4 - 8 1/2 (1435)	5 - 0 1/2 (1537)
RO (mm)	3 - 1 (940)	3 - 5 (1041)	4 - 1 (1245)	4 - 9 (1448)	5 - 1 (1549)
FS (mm)	3 - 0 (914)	3 - 4 (1016)	4 - 0 (1219)	4 - 8 (1422)	5 - 0 (1524)
DLO (mm)	1 - 0 55/64 (327)	1 - 2 55/64 (378)	1 - 6 55/64 (479)	1 - 10 55/64 (581)	12 - 0 55/64 (632)
2 - 7 3/8 (797) 2 - 7 5/8 (803) 2 - 7 1/8 (791) 2 - 2 9/32 (688)	 UFCAP03632	 UFCA4032 UFCAP04032	 UFCA4832 E UFCAP04832 E	 UFCA5632 E UFCAP05632 E	 UFCA6032 E UFCAP06032 E
2 - 11 3/8 (899) 2 - 11 5/8 (905) 2 - 11 1/8 (892) 2 - 6 9/32 (769)	 UFCAP03636	 UFCA4036 UFCAP04036	 UFCA4836 E UFCAP04836 E	 UFCA5636 E UFCAP05636 E	 UFCA6036 E UFCAP06036 E
3 - 3 3/8 (1000) 3 - 3 5/8 (1006) 3 - 3 1/8 (994) 2 - 10 9/32 (871)	 UFCAP03640	 UFCA4040 E UFCAP04040 E	 UFCA4840 E UFCAP04840 E	 UFCA5640 E UFCAP05640 E	 UFCA6040 E UFCAP06040 E
3 - 7 3/8 (1102) 3 - 7 5/8 (1108) 3 - 7 1/8 (1096) 3 - 2 9/32 (972)	 UFCAP03644	 UFCA4044 E UFCAP04044 E	 UFCA4844 E UFCAP04844 E	 UFCA5644 E UFCAP05644 E	 UFCA6044 E UFCAP06044 E
3 - 11 3/8 (1203) 3 - 11 5/8 (1210) 3 - 11 1/8 (1197) 3 - 6 9/32 (1074)	 UFCAP03648 E	 UFCA4048 E UFCAP04048 E	 UFCA4848 E UFCAP04848 E	 UFCA5648 E UFCAP05648 E	 UFCA6048 E UFCAP06048 E
4 - 5 3/8 (1356) 4 - 5 5/8 (1362) 4 - 5 1/8 (1349) 4 - 0 9/32 (1226)	 UFCAP03654 E	 UFCA4054 E UFCAP04054 E	 UFCA4854 E UFCAP04854 E	 UFCA5654 E UFCAP05654 E	 UFCA6054 E UFCAP06054 E

**FRENCH CASEMENT / FRENCH CASEMENT PUSH OUT**

MO (mm)	3 - 0 1/2 (927)	3 - 4 1/2 (1029)	4 - 0 1/2 (1232)	4 - 8 1/2 (1435)	5 - 0 1/2 (1537)
RO (mm)	3 - 1 (940)	3 - 5 (1041)	4 - 1 (1245)	4 - 9 (1448)	5 - 1 (1549)
FS (mm)	3 - 0 (914)	3 - 4 (1016)	4 - 0 (1219)	4 - 8 (1422)	5 - 0 (1524)
DLO (mm)	1 - 0 55/64 (327)	1 - 2 55/64 (378)	1 - 6 55/64 (479)	1 - 10 55/64 (581)	12 - 0 55/64 (632)
4 - 7 3/8 (1407) 4 - 7 5/8 (1413) 4 - 7 1/8 (1400) 4 - 2 9/32 (1277)	 UFCAP03656 E	 UFCA4056 E UFCAP04056 E	 UFCA4856 E UFCAP04856 E	 UFCA5656 E UFCAP05656 E	 UFCA6056 E UFCAP06056 E
4 - 11 3/8 (1508) 4 - 11 5/8 (1514) 4 - 11 1/8 (1502) 4 - 6 9/32 (1379)	 UFCAP03660 E	 UFCA4060 E UFCAP04060 E	 UFCA4860 E UFCAP04860 E	 UFCA5660 E UFCAP05660 E	 UFCA6060 E UFCAP06060 E
5 - 3 3/8 (1610) 5 - 3 5/8 (1616) 5 - 3 1/8 (1603) 4 - 10 9/32 (1480)	 UFCAP03664 E	 UFCA4064 E UFCAP04064 E	 UFCA4864 E UFCAP04864 E	 UFCA5664 E UFCAP05664 E	 UFCA6064 E UFCAP06064 E
5 - 11 3/8 (1813) 5 - 11 5/8 (1819) 5 - 11 1/8 (1807) 5 - 6 9/32 (1684)	 UFCAP03672 ET	 UFCA4072 ET UFCAP04072 ET	 UFCA4872 ET UFCAP04872 ET	 UFCA5672 ET UFCAP05672 ET	 UFCA6072 ET UFCAP06072 ET

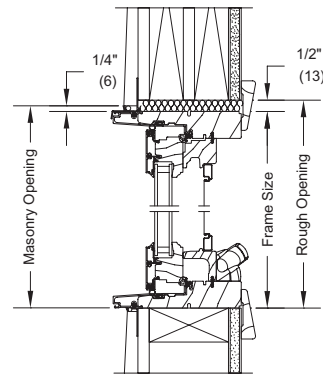
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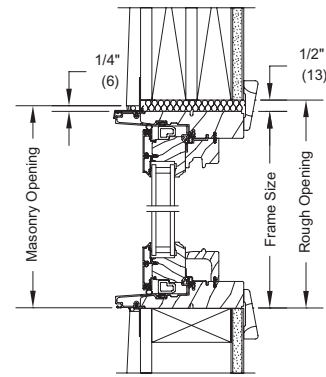
Ultimate French Casement: UFCA  
 Ultimate French Casement Push Out: UFCAP

# FRENCH CASEMENT

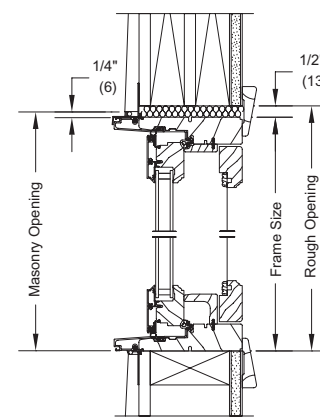
## CONSTRUCTION DETAILS



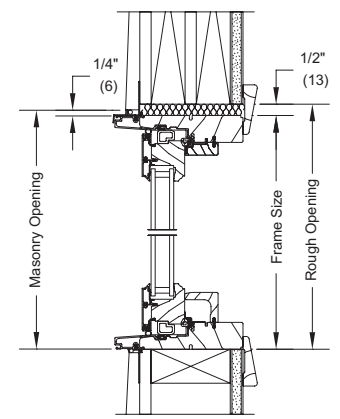
HEAD JAMB AND SILL - OPERATOR



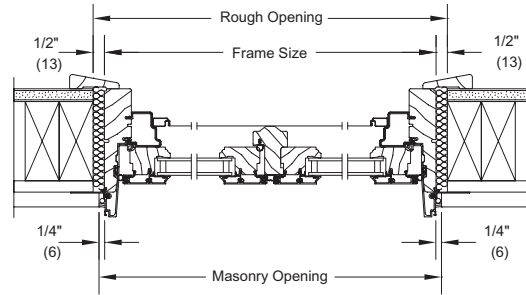
HEAD JAMB AND SILL - STATIONARY



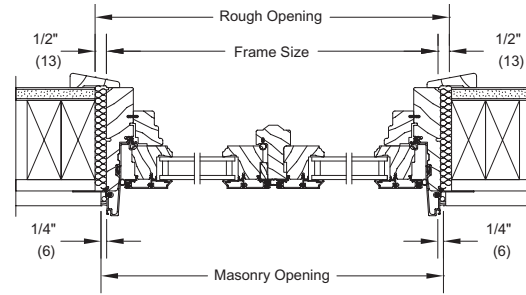
HEAD JAMB AND SILL - OPERATOR WITH WOOD SCREEN OPTION



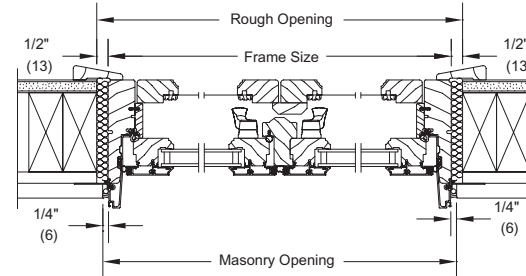
HEAD JAMB AND SILL - STATIONARY



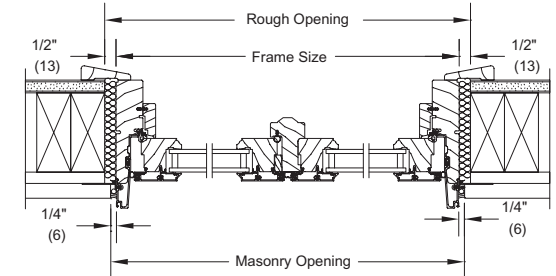
JAMB - OPERATOR



JAMB - STATIONARY



JAMB - STATIONARY WITH WOOD SCREEN OPTION



JAMB - STATIONARY

WOOD AWNING / WOOD AWNING PUSH OUT

<b>MO (mm)</b>	1 - 7 5/8 (498)	1 - 9 5/8 (549)	1 - 11 5/8 (600)	2 - 3 5/8 (702)	2 - 5 5/8 (752)	2 - 7 5/8 (803)	2 - 9 5/8 (854)	2 - 11 5/8 (905)	3 - 3 5/8 (1006)
<b>RO (mm)</b>	1 - 5 (431)	1 - 7 (482)	1 - 9 (533)	2 - 1 (635)	2 - 3 (685)	2 - 5 (736)	2 - 7 (787)	2 - 9 (838)	3 - 1 (939)
<b>FS (mm)</b>	1 - 4 (406)	1 - 6 (457)	1 - 8 (508)	2 - 0 (609)	2 - 2 (660)	2 - 4 (711)	2 - 6 (762)	2 - 8 (812)	3 - 0 (914)
<b>DLO (mm)</b>	0 - 11 19/64 (287)	1 - 1 19/64 (338)	1 - 3 19/64 (388)	1 - 7 19/64 (490)	1 - 9 19/64 (541)	1 - 11 19/64 (592)	2 - 1 19/64 (642)	2 - 3 19/64 (693)	2 - 7 19/64 (795)

1 - 3 7/8 (403)									
1 - 5 7/8 (454)									
1 - 7 7/8 (505)									
1 - 9 7/8 (556)									
2 - 1 7/8 (657)									
2 - 5 7/8 (759)									
2 - 9 7/8 (860)									
3 - 1 7/8 (962)									
3 - 5 7/8 (1064)									
3 - 9 7/8 (1165)									
4 - 1 7/8 (1267)									

WOOD AWNING / WOOD AWNING PUSH OUT

<b>MO (mm)</b>	3 - 7 5/8 (1108)	4 - 3 5/8 (1311)	4 - 11 5/8 (1514)	5 - 3 5/8 (1616)	5 - 7 5/8 (1718)	6 - 3 5/8 (1921)
<b>RO (mm)</b>	3 - 5 (1041)	4 - 1 (1245)	4 - 9 (1448)	5 - 1 (1549)	5 - 5 (1651)	6 - 1 (1854)
<b>FS (mm)</b>	3 - 4 (1016)	4 - 0 (1219)	4 - 8 (1422)	5 - 0 (1524)	5 - 4 (1626)	6 - 0 (1829)
<b>DLO (mm)</b>	2 - 11 19/64 (896)	3 - 7 19/64 (1100)	4 - 3 19/64 (1303)	4 - 7 19/64 (1404)	4 - 11 19/64 (1506)	5 - 7 19/64 (1709)

1 - 3 7/8 (403)						
1 - 5 7/8 (454)						
1 - 7 7/8 (505)						
1 - 9 7/8 (556)						
2 - 1 7/8 (657)						
2 - 5 7/8 (759)						
2 - 9 7/8 (860)						
3 - 1 7/8 (962)						
3 - 5 7/8 (1064)						
3 - 9 7/8 (1165)						
4 - 1 7/8 (1267)						
















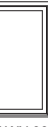





























Ultimate Wood Awning: UAWAWN  
 Ultimate Wood Awning Push Out: UAWAWNPO

Details and Elevations not to scale.  
 • Ultimate Wood Awning Push Out not available in frame size heights greater than 48 1/16".  
 • For units with a tall bottom rail, reduce the DLO height by 1 1/2".

Please consult your local Marvin representative for more information. For further details and drawings visit the 'Technical Specifications' section at Marvin.com.



WOOD AWNING / WOOD AWNING PUSH OUT

MO (mm)	1 - 7 5/8 (498)	1 - 9 5/8 (549)	1 - 11 5/8 (600)	2 - 3 5/8 (702)	2 - 5 5/8 (752)	2 - 7 5/8 (803)	2 - 9 5/8 (854)	2 - 11 5/8 (905)	3 - 3 5/8 (1006)
RO (mm)	1 - 5 (431)	1 - 7 (482)	1 - 9 (533)	2 - 1 (635)	2 - 3 (685)	2 - 5 (736)	2 - 7 (787)	2 - 9 (838)	3 - 1 (939)
FS (mm)	1 - 4 (406)	1 - 6 (457)	1 - 8 (508)	2 - 0 (609)	2 - 2 (660)	2 - 4 (711)	2 - 6 (762)	2 - 8 (812)	3 - 0 (914)
DLO (mm)	0 - 11 19/64 (287)	1 - 1 19/64 (338)	1 - 3 19/64 (388)	1 - 7 19/64 (490)	1 - 9 19/64 (541)	1 - 11 19/64 (592)	2 - 1 19/64 (642)	2 - 3 19/64 (693)	2 - 7 19/64 (795)
4 - 7 7/8 (1419) 4 - 6 9/16 (1386) 4 - 6 1/16 (1373) 3 - 11 15/16 (1202)									
UAWAWN 1654	UAWAWN 1854	UAWAWN 2054	UAWAWN 2454	UAWAWN 2654	UAWAWN 2854	UAWAWN 3054	UAWAWN 3254	UAWAWN 3654	
4 - 9 7/8 (1470) 4 - 8 9/16 (1437) 4 - 8 1/16 (1424) 4 - 1 15/16 (1253)									
UAWAWN 1656	UAWAWN 1856	UAWAWN 2056	UAWAWN 2456	UAWAWN 2656	UAWAWN 2856	UAWAWN 3056	UAWAWN 3256	UAWAWN 3656	
5 - 1 7/8 (1572) 5 - 9/16 (1538) 5 - 1/16 (1526) 4 - 5 15/16 (1354)									
UAWAWN 1660	UAWAWN 1860	UAWAWN 2060	UAWAWN 2460	UAWAWN 2660	UAWAWN 2860	UAWAWN 3060	UAWAWN 3260	UAWAWN 3660	
5 - 5 7/8 (1673) 5 - 4 9/16 (1640) 5 - 4 1/16 (1627) 4 - 9 15/16 (1456)									
UAWAWN 1664	UAWAWN 1864	UAWAWN 2064	UAWAWN 2464	UAWAWN 2664	UAWAWN 2864	UAWAWN 3064	UAWAWN 3264	UAWAWN 3664	
6 - 1 7/8 (1876) 6 - 9/16 (1843) 6 - 1/16 (1830) 5 - 5 15/16 (1659)									
UAWAWN 1672 T	UAWAWN 1872 T	UAWAWN 2072 T	UAWAWN 2472 T	UAWAWN 2672 T	UAWAWN 2872 T	UAWAWN 3072 T	UAWAWN 3272 T	UAWAWN 3672 T	

WOOD AWNING / WOOD AWNING PUSH OUT

MO (mm)	3 - 7 5/8 (1108)	4 - 3 5/8 (1311)	4 - 11 5/8 (1514)	5 - 3 5/8 (1616)	5 - 7 5/8 (1718)	6 - 3 5/8 (1921)
RO (mm)	3 - 5 (1041)	4 - 1 (1245)	4 - 9 (1448)	5 - 1 (1549)	5 - 5 (1651)	6 - 1 (1854)
FS (mm)	3 - 4 (1016)	4 - 0 (1219)	4 - 8 (1422)	5 - 0 (1524)	5 - 4 (1626)	6 - 0 (1829)
DLO (mm)	2 - 11 19/64 (896)	3 - 7 19/64 (1100)	4 - 3 19/64 (1303)	4 - 7 19/64 (1404)	4 - 11 19/64 (1506)	5 - 7 19/64 (1709)
4 - 7 7/8 (1419) 4 - 6 9/16 (1386) 4 - 6 1/16 (1373) 3 - 11 15/16 (1202)						
UAWAWN 4054	UAWAWN 4854	UAWAWN 5654	UAWAWN 6054	UAWAWN 6454	UAWAWN 7254 T	
4 - 9 7/8 (1470) 4 - 8 9/16 (1437) 4 - 8 1/16 (1424) 4 - 1 15/16 (1253)						
UAWAWN 4056	UAWAWN 4856	UAWAWN 5656	UAWAWN6056	UAWAWN6456	UAWAWN7256 T	
5 - 1 7/8 (1572) 5 - 9/16 (1538) 5 - 1/16 (1526) 4 - 5 15/16 (1354)						
UAWAWN 4060	UAWAWN 4860	UAWAWN 5660	UAWAWN 6060	UAWAWN 6460 T	UAWAWN 7260 T	
5 - 5 7/8 (1673) 5 - 4 9/16 (1640) 5 - 4 1/16 (1627) 4 - 9 15/16 (1456)						
UAWAWN 4064	UAWAWN 4864	UAWAWN 5664	UAWAWN 6064 T	UAWAWN 6464 T	UAWAWN 7264 T	
6 - 1 7/8 (1876) 6 - 9/16 (1843) 6 - 1/16 (1830) 5 - 5 15/16 (1659)						
UAWAWN 4072 T	UAWAWN 4872 T	UAWAWN 5672 T	UAWAWN 6072 T	UAWAWN 6472 T	UAWAWN 7272 T	

Details and Elevations not to scale.

- Ultimate Wood Awning Push Out not available in frame size heights greater than 48 1/16".
- For units with a tall bottom rail, reduce the DLO height by 1 1/2".

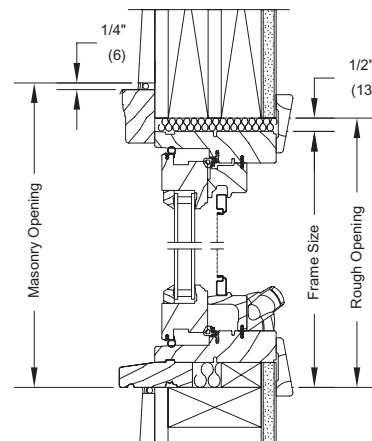
T For safety and/or code requirements, Marvin recommends tempered glass in all units with a frame size height of 72 1/16" or larger and units with a frame size of 25.2 ft² and larger.

Please consult your local Marvin representative for more information.

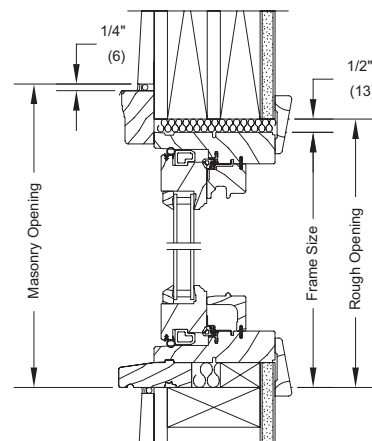
For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

**WOOD AWNING**

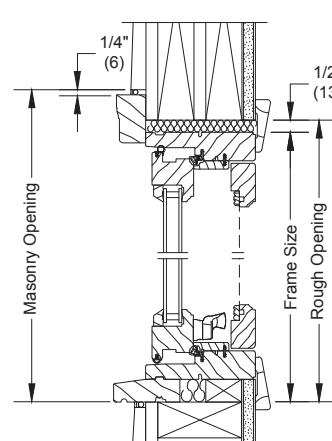
CONSTRUCTION DETAILS



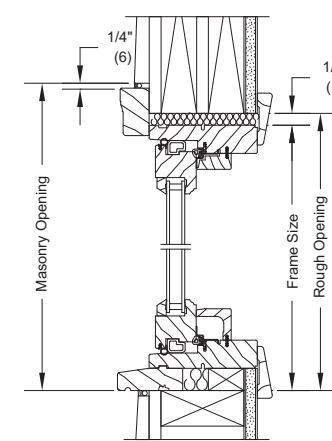
HEAD JAMB AND SILL - OPERATOR



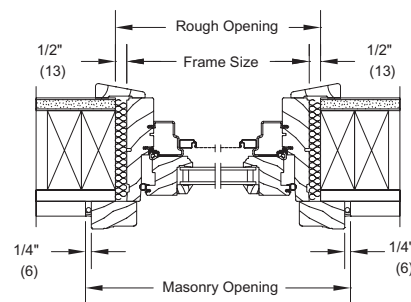
HEAD JAMB AND SILL - STATIONARY



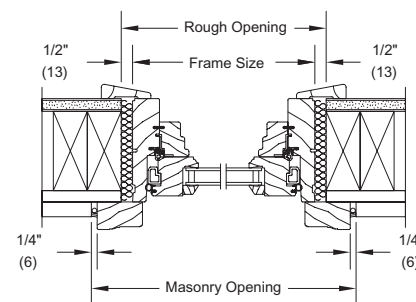
PUSH OUT HEAD JAMB AND SILL - STATIONARY WITH SWINGING WOOD SCREEN



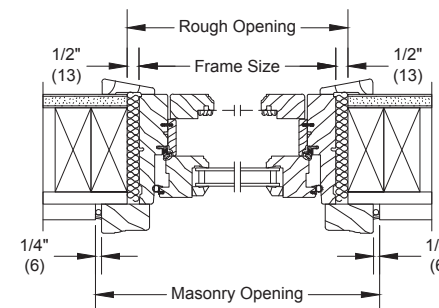
PUSH OUT HEAD JAMB AND SILL - STATIONARY



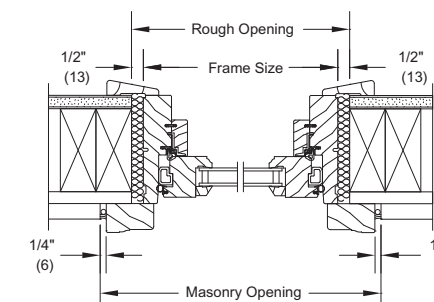
JAMB - OPERATOR



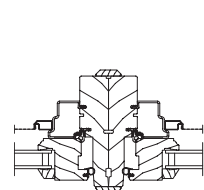
JAMB - STATIONARY



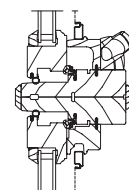
PUSH OUT JAMB - OPERATOR WITH SWINGING WOOD SCREEN



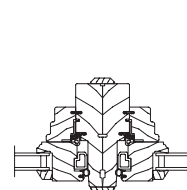
PUSH OUT JAMB - STATIONARY



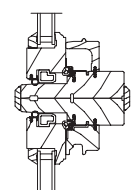
VERTICAL MULLION OPERATOR



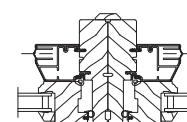
HORIZONTAL MULLION OPERATOR



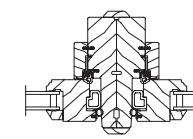
VERTICAL MULLION STATIONARY



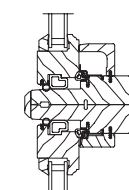
HORIZONTAL MULLION STATIONARY



PUSH OUT OPERATOR VERTICAL MULLION



PUSH OUT STATIONARY VERTICAL MULLION



PUSH OUT STATIONARY HORIZONTAL MULLION

**WOOD AWNING PUSH OUT**

CONSTRUCTION DETAILS

**AWNING / AWNING PUSH OUT**

<b>MO (mm)</b>	1 - 4 1/2 (419)	1 - 6 1/2 (469)	1 - 8 1/2 (520)	2 - 1/2 (622)	2 - 2 1/2 (673)	2 - 4 1/2 (723)	2 - 6 1/2 (774)	2 - 8 1/2 (825)
<b>RO (mm)</b>	1 - 5 (431)	1 - 7 (482)	1 - 9 (533)	2 - 1 (635)	2 - 3 (688)	2 - 5 (736)	2 - 7 (787)	2 - 9 (838)
<b>FS (mm)</b>	1 - 4 (406)	1 - 6 (457)	1 - 8 (508)	2 - 0 (609)	2 - 2 (660)	2 - 4 (711)	2 - 6 (762)	2 - 8 (812)
<b>DLO (mm)</b>	0 - 10 13/64 (259)	1 - 0 13/64 (310)	1 - 2 13/64 (361)	1 - 6 13/64 (462)	1 - 8 13/64 (513)	1 - 10 13/64 (564)	2 - 0 13/64 (615)	2 - 2 13/64 (666)

1 - 1 3/8 (339)								
1 - 3 3/8 (390)								
1 - 5 3/8 (441)								
1 - 7 3/8 (492)								
1 - 11 3/8 (593)								
2 - 3 3/8 (695)								
2 - 7 3/8 (796)								
2 - 11 3/8 (898)								
3 - 3 3/8 (1000)								
3 - 7 3/8 (1101)								
3 - 11 3/8 (1203)								

**AWNING / AWNING PUSH OUT**

<b>MO (mm)</b>	3 - 1/2 (927)	3 - 4 1/2 (1028)	4 - 1/2 (1232)	4 - 8 1/2 (1435)	5 - 1/2 (1537)	5 - 4 1/2 (1638)	6 - 1/2 (1842)
<b>RO (mm)</b>	3 - 1 (939)	3 - 5 (1041)	4 - 1 (1245)	4 - 9 (1448)	5 - 1 (1549)	5 - 5 (1651)	6 - 1 (1854)
<b>FS (mm)</b>	3 - 0 (914)	3 - 4 (1016)	4 - 0 (1219)	4 - 8 (1422)	5 - 0 (1524)	5 - 4 (1626)	6 - 0 (1829)
<b>DLO (mm)</b>	2 - 6 13/64 (767)	2 - 10 13/64 (869)	3 - 6 13/64 (1072)	4 - 2 13/64 (1275)	4 - 6 13/64 (1377)	4 - 10 13/64 (1478)	5 - 6 13/64 (1682)

1 - 1 3/8 (339)							
1 - 3 3/8 (390)							
1 - 5 3/8 (441)							
1 - 7 3/8 (492)							
1 - 11 3/8 (593)							
2 - 3 3/8 (695)							
2 - 7 3/8 (796)							
2 - 11 3/8 (898)							
3 - 3 3/8 (1000)							
3 - 7 3/8 (1101)							
3 - 11 3/8 (1203)							

Ultimate Awning: UAWN  
Ultimate Awning Push Out: UAWNPO

Details and Elevations not to scale.  
• Ultimate Awning Push Out not available in frame size heights greater than 47 1/8".

Please consult your local Marvin representative for more information.  
For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

### AWNING / AWNING PUSH OUT

<b>MO (mm)</b>	1 - 4 1/2 (419)	1 - 6 1/2 (469)	1 - 8 1/2 (520)	2 - 1/2 (622)	2 - 2 1/2 (673)	2 - 4 1/2 (723)	2 - 6 1/2 (774)	2 - 8 1/2 (825)
<b>RO (mm)</b>	1 - 5 (431)	1 - 7 (482)	1 - 9 (533)	2 - 1 (635)	2 - 3 (688)	2 - 5 (736)	2 - 7 (787)	2 - 9 (838)
<b>FS (mm)</b>	1 - 4 (406)	1 - 6 (457)	1 - 8 (508)	2 - 0 (609)	2 - 2 (660)	2 - 4 (711)	2 - 6 (762)	2 - 8 (812)
<b>DLO (mm)</b>	0 - 10 13/64 (259)	1 - 0 13/64 (310)	1 - 2 13/64 (361)	1 - 6 13/64 (462)	1 - 8 13/64 (513)	1 - 10 13/64 (564)	2 - 0 13/64 (615)	2 - 2 13/64 (666)

4 - 5 3/8 (1355) 4 - 5 5/8 (1362) 4 - 5 1/8 (1349) 3 - 11 21/64 (1202)								
4 - 7 3/8 (1406) 4 - 7 5/8 (1412) 4 - 7 1/8 (1400) 4 - 1 21/64 (1253)								
4 - 11 3/8 (1508) 4 - 11 5/8 (1514) 4 - 11 1/8 (1501) 4 - 5 21/64 (1355)								
5 - 3 3/8 (1609) 5 - 3 5/8 (1616) 5 - 3 1/8 (1603) 4 - 9 21/64 (1456)								
5 - 11 3/8 (1812) 5 - 11 5/8 (1819) 5 - 11 1/8 (1806) 5 - 5 21/64 (1659)								

### AWNING / AWNING PUSH OUT

<b>MO (mm)</b>	3 - 1/2 (927)	3 - 4 1/2 (1028)	4 - 1/2 (1232)	4 - 8 1/2 (1435)	5 - 1/2 (1537)	5 - 4 1/2 (1638)	6 - 1/2 (1842)
<b>RO (mm)</b>	3 - 1 (939)	3 - 5 (1041)	4 - 1 (1245)	4 - 9 (1448)	5 - 1 (1549)	5 - 5 (1651)	6 - 1 (1854)
<b>FS (mm)</b>	3 - 0 (914)	3 - 4 (1016)	4 - 0 (1219)	4 - 8 (1422)	5 - 0 (1524)	5 - 4 (1626)	6 - 0 (1829)
<b>DLO (mm)</b>	2 - 6 13/64 (767)	2 - 10 13/64 (869)	3 - 6 13/64 (1072)	4 - 2 13/64 (1275)	4 - 6 13/64 (1377)	4 - 10 13/64 (1478)	5 - 6 13/64 (1682)

4 - 5 3/8 (1355) 4 - 5 5/8 (1362) 4 - 5 1/8 (1349) 3 - 11 21/64 (1202)							
4 - 7 3/8 (1406) 4 - 7 5/8 (1412) 4 - 7 1/8 (1400) 4 - 1 21/64 (1253)							
4 - 11 3/8 (1508) 4 - 11 5/8 (1514) 4 - 11 1/8 (1501) 4 - 5 21/64 (1355)							
5 - 3 3/8 (1609) 5 - 3 5/8 (1616) 5 - 3 1/8 (1603) 4 - 9 21/64 (1456)							
5 - 11 3/8 (1812) 5 - 11 5/8 (1819) 5 - 11 1/8 (1806) 5 - 5 21/64 (1659)							

Details and Elevations not to scale.

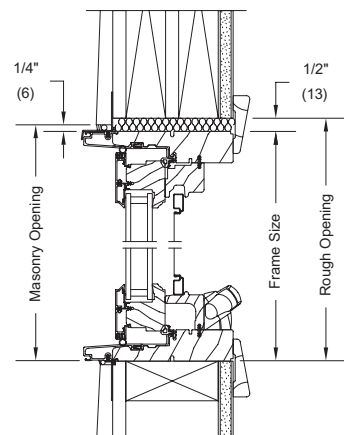
T For safety and/or code requirements, Marvin recommends tempered glass in all units with a frame size height of 71 1/8" or larger and units with a frame size of 25.2 ft² and larger.

Please consult your local Marvin representative for more information.

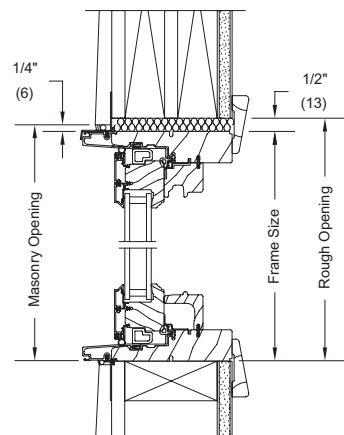
For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

**AWNING**

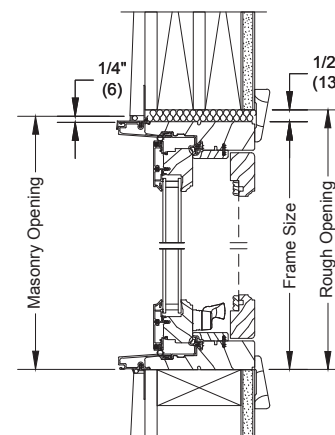
CONSTRUCTION DETAILS



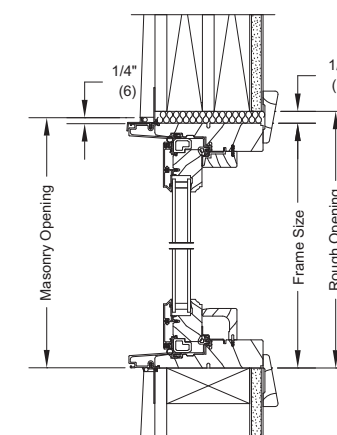
HEAD JAMB AND SILL - OPERATOR



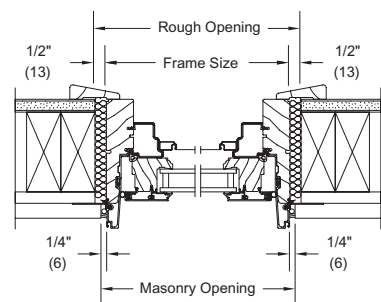
HEAD JAMB AND SILL - STATIONARY



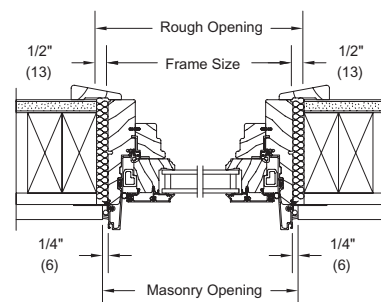
PUSH OUT  
HEAD JAMB AND SILL - STATIONARY  
WITH SWINGING SCREEN



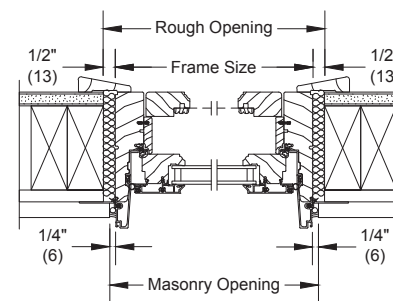
PUSH OUT  
HEAD JAMB AND SILL - STATIONARY



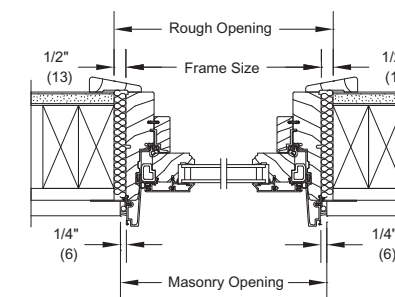
JAMB - OPERATOR



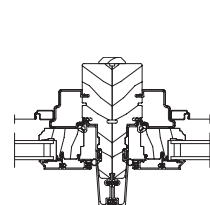
JAMB - STATIONARY



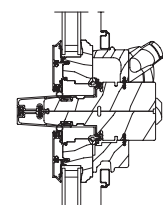
PUSH OUT  
JAMB - OPERATOR  
WITH SWINGING SCREEN



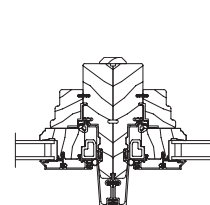
PUSH OUT  
JAMB - STATIONARY



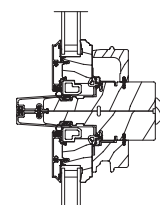
VERTICAL MULLION  
OPERATOR



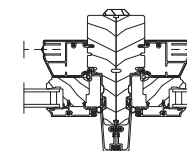
HORIZONTAL MULLION  
OPERATOR



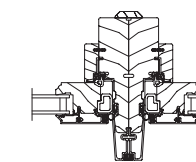
VERTICAL MULLION  
STATIONARY



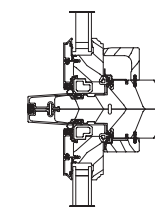
HORIZONTAL MULLION  
STATIONARY



PUSH OUT OPERATOR  
VERTICAL MULLION



PUSH OUT STATIONARY  
VERTICAL MULLION



PUSH OUT STATIONARY  
HORIZONTAL MULLION

**AWNING PUSH OUT**

CONSTRUCTION DETAILS

### WOOD CASEMENT PICTURE / WOOD CASEMENT PUSH OUT PICTURE

MO (mm)	3 - 7 5/8 (1108)	4 - 3 5/8 (1311)	4 - 11 5/8 (1514)	5 - 3 5/8 (1616)	5 - 7 5/8 (1718)	6 - 3 5/8 (1921)	6 - 11 5/8 (2124)	7 - 7 5/8 (2327)	8 - 3 5/8 (2531)
RO (mm)	3 - 5 (1041)	4 - 1 (1245)	4 - 9 (1448)	5 - 1 (1549)	5 - 5 (1651)	6 - 1 (1854)	6 - 9 (2057)	7 - 5 (2261)	8 - 1 (2464)
FS (mm)	3 - 4 (1016)	4 - 0 (1219)	4 - 8 (1422)	5 - 0 (1524)	5 - 4 (1626)	6 - 0 (1829)	6 - 8 (2032)	7 - 4 (2235)	8 - 0 (2438)
DLO (mm)	2 - 10 3/16 (868)	3 - 6 3/16 (1072)	4 - 2 3/16 (1275)	4 - 6 3/16 (1376)	4 - 10 3/16 (1478)	5 - 6 3/16 (1681)	6 - 2 3/16 (1884)	6 - 10 3/16 (2088)	7 - 6 3/16 (2291)

1 - 1 7/8 (352) 1 - 1 9/16 (319) 1 - 1 7/16 (306) 0 - 5 5/16 (135)	UWCAPOP 4012	UWCAPOP 4812	UWCAPOP 5612	UWCAPOP 6012	UWCAPOP 6412	UWCAPOP 7212	UWCAPOP 8012	UWCAPOP 8812	UWCAPOP 9612
1 - 3 7/8 (403) 1 - 2 9/16 (370) 1 - 2 1/16 (357) 0 - 7 5/16 (186)	UWCAPOP 4014	UWCAPOP 4814	UWCAPOP 5614	UWCAPOP 6014	UWCAPOP 6414	UWCAPOP 7214	UWCAPOP 8014	UWCAPOP 8814	UWCAPOP 9614
1 - 5 7/8 (454) 1 - 4 9/16 (421) 1 - 4 1/16 (408) 0 - 9 5/16 (237)	UWCAPOP 4016	UWCAPOP 4816	UWCAPOP 5616	UWCAPOP 6016	UWCAPOP 6416	UWCAPOP 7216	UWCAPOP 8016	UWCAPOP 8816	UWCAPOP 9616
1 - 7 7/8 (505) 1 - 6 9/16 (471) 1 - 6 1/16 (459) 0 - 11 5/16 (287)	UWCAPOP 4018	UWCAPOP 4818	UWCAPOP 5618	UWCAPOP 6018	UWCAPOP 6418	UWCAPOP 7218	UWCAPOP 8018	UWCAPOP 8818	UWCAPOP 9618
1 - 9 7/8 (556) 1 - 8 9/16 (522) 1 - 8 1/16 (510) 1 - 1 5/16 (338)	UWCAPOP 4020	UWCAPOP 4820	UWCAPOP 5620	UWCAPOP 6020	UWCAPOP 6420	UWCAPOP 7220	UWCAPOP 8020	UWCAPOP 8820	UWCAPOP 9620
2 - 1 7/8 (657) 2 - 9/16 (624) 2 - 1/16 (611) 1 - 5 5/16 (440)	UWCAPOP 4024	UWCAPOP 4824	UWCAPOP 5624	UWCAPOP 6024	UWCAPOP 6424	UWCAPOP 7224	UWCAPOP 8024	UWCAPOP 8824	UWCAPOP 9624
2 - 5 7/8 (759) 2 - 4 9/16 (725) 2 - 4 1/16 (713) 1 - 9 5/16 (541)	UWCAPOP 4028	UWCAPOP 4828	UWCAPOP 5628	UWCAPOP 6028	UWCAPOP 6428	UWCAPOP 7228	UWCAPOP 8028	UWCAPOP 8828	UWCAPOP 9628
2 - 9 7/8 (860) 2 - 8 9/16 (827) 2 - 8 1/16 (814) 2 - 1 5/16 (643)	UWCAPOP 4032	UWCAPOP 4832	UWCAPOP 5632	UWCAPOP 6032	UWCAPOP 6432	UWCAPOP 7232	UWCAPOP 8032	UWCAPOP 8832	UWCAPOP 9632
3 - 1 7/8 (962) 3 - 9/16 (929) 3 - 1/16 (916) 2 - 5 5/16 (745)	UWCAPOP 4036	UWCAPOP 4836	UWCAPOP 5636	UWCAPOP 6036	UWCAPOP 6436	UWCAPOP 7236	UWCAPOP 8036	UWCAPOP 8836	UWCAPOP 9636

### WOOD CASEMENT PICTURE / WOOD CASEMENT PUSH OUT PICTURE

MO (mm)	3 - 7 5/8 (1108)	4 - 3 5/8 (1311)	4 - 11 5/8 (1514)	5 - 3 5/8 (1616)	5 - 7 5/8 (1718)	6 - 3 5/8 (1921)	6 - 11 5/8 (2124)	7 - 7 5/8 (2327)	8 - 3 5/8 (2531)
RO (mm)	3 - 5 (1041)	4 - 1 (1245)	4 - 9 (1448)	5 - 1 (1549)	5 - 5 (1651)	6 - 1 (1854)	6 - 9 (2057)	7 - 5 (2261)	8 - 1 (2464)
FS (mm)	3 - 4 (1016)	4 - 0 (1219)	4 - 8 (1422)	5 - 0 (1524)	5 - 4 (1626)	6 - 0 (1829)	6 - 8 (2032)	7 - 4 (2235)	8 - 0 (2438)
DLO (mm)	2 - 10 3/16 (868)	3 - 6 3/16 (1072)	4 - 2 3/16 (1275)	4 - 6 3/16 (1376)	4 - 10 3/16 (1478)	5 - 6 3/16 (1681)	6 - 2 3/16 (1884)	6 - 10 3/16 (2088)	7 - 6 3/16 (2291)











































3 - 5 7/8 (1064) 3 - 4 9/16 (1030) 3 - 4 1/16 (1018) 2 - 9 5/16 (846)	UWCAPOP 4040	UWCAPOP 4840	UWCAPOP 5640	UWCAPOP 6040	UWCAPOP 6440	UWCAPOP 7240	UWCAPOP 8040	UWCAPOP 8840	UWCAPOP 9640
3 - 9 7/8 (1165) 3 - 8 9/16 (1132) 3 - 8 1/16 (1119) 3 - 1 5/16 (948)	UWCAPOP 4044	UWCAPOP 4844	UWCAPOP 5644	UWCAPOP 6044	UWCAPOP 6444	UWCAPOP 7244	UWCAPOP 8044	UWCAPOP 8844 T	UWCAPOP 9644 T
4 - 1 7/8 (1267) 4 - 9/16 (1233) 4 - 1/16 (1221) 3 - 5 5/16 (1049)	UWCAPOP 4048	UWCAPOP 4848	UWCAPOP 5648	UWCAPOP 6048	UWCAPOP 6448	UWCAPOP 7248	UWCAPOP 8048 T	UWCAPOP 8848 T	UWCAPOP 9648 T
4 - 7 7/8 (1419) 4 - 6 9/16 (1386) 4 - 6 1/16 (1373) 3 - 11 5/16 (1202)	UWCAPOP 4054	UWCAPOP 4854	UWCAPOP 5654	UWCAPOP 6054	UWCAPOP 6454	UWCAPOP 7254 T	UWCAPOP 8054 T	UWCAPOP 8854 T	UWCAPOP 9654 T
4 - 9 7/8 (1470) 4 - 8 9/16 (1437) 4 - 8 1/16 (1424) 4 - 1 5/16 (1253)	UWCAPOP 4056	UWCAPOP 4856	UWCAPOP 5656	UWCAPOP 6056	UWCAPOP 6456	UWCAPOP 7256 T	UWCAPOP 8056 T	UWCAPOP 8856 T	UWCAPOP 9656 T
5 - 1 7/8 (1572) 5 - 9/16 (1538) 5 - 1/16 (1526) 4 - 5 5/16 (1354)	UWCAPOP 4060	UWCAPOP 4860	UWCAPOP 5660	UWCAPOP 6060	UWCAPOP 6460 T	UWCAPOP 7260 T	UWCAPOP 8060 T	UWCAPOP 8860 T	UWCAPOP 9660 T
5 - 5 7/8 (1673) 5 - 4 9/16 (1640) 5 - 4 1/16 (1627) 4 - 9 5/16 (1456)	UWCAPOP 4064	UWCAPOP 4864	UWCAPOP 5664	UWCAPOP 6064 T	UWCAPOP 6464 T	UWCAPOP 7264 T	UWCAPOP 8064 T	UWCAPOP 8864 T	UWCAPOP 9664 T

Ultimate Wood Casement Picture: UWCAP

Ultimate Wood Casement Push Out Picture: UWCAPOP

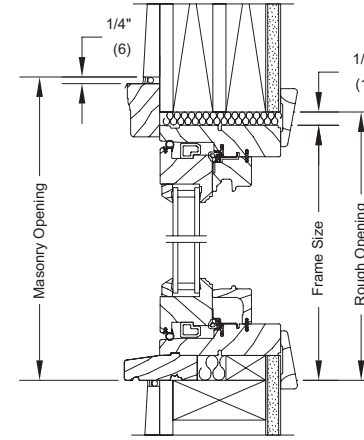
Details and Elevations not to scale.  
 T For safety and/or code requirements, Marvin recommends tempered glass in all units with a frame size height of 72 1/16" or larger and units with a frame size of 25.2 ft² and larger.  
 \* Larger sizes require 1" insulating glass.  
 Please consult your local Marvin representative for more information.  
 For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

**WOOD CASEMENT PICTURE / WOOD CASEMENT PUSH OUT PICTURE**

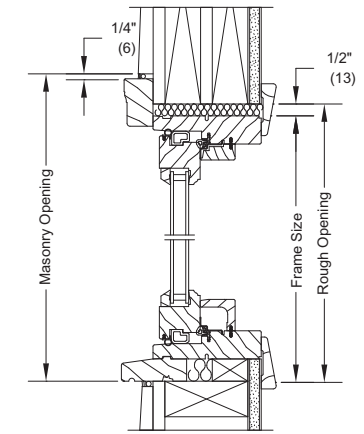
MO (mm)	3 - 7 5/8 (1108)	4 - 3 5/8 (1311)	4 - 11 5/8 (1514)	5 - 3 5/8 (1616)	5 - 7 5/8 (1718)	6 - 3 5/8 (1921)	6 - 11 5/8 (2124)	7 - 7 5/8 (2327)	8 - 3 5/8 (2531)
RO (mm)	3 - 5 (1041)	4 - 1 (1245)	4 - 9 (1448)	5 - 1 (1549)	5 - 5 (1651)	6 - 1 (1854)	6 - 9 (2057)	7 - 5 (2261)	8 - 1 (2464)
FS (mm)	3 - 4 (1016)	4 - 0 (1219)	4 - 8 (1422)	5 - 0 (1524)	5 - 4 (1626)	6 - 0 (1829)	6 - 8 (2032)	7 - 4 (2235)	8 - 0 (2438)
DLO (mm)	2 - 10 3/16 (868)	3 - 6 3/16 (1072)	4 - 2 3/16 (1275)	4 - 6 3/16 (1376)	4 - 10 3/16 (1478)	5 - 6 3/16 (1681)	6 - 2 3/16 (1884)	6 - 10 3/16 (2088)	7 - 6 3/16 (2291)
6 - 1 7/8 (1876) 6 - 9/16 (1843) 6 - 1/16 (1830) 5 - 5 5/16 (1659)	 UWCAP 4072 T UWCAPOP 4072 T	 UWCAP 4872 T UWCAPOP 4872 T	 UWCAP 5672 T UWCAPOP 5672 T	 UWCAP 6072 T UWCAPOP 6072 T	 UWCAP 6472 T UWCAPOP 6472 T	 UWCAP 72 72 T* UWCAPOP 7272 T*	 UWCAP 8072 T* UWCAPOP 8072 T*	 UWCAP 8872 T* UWCAPOP 8872 T*	 UWCAP 9672 T* UWCAPOP 9672 T*
6 - 7 7/8 (2029) 6 - 6 9/16 (1995) 6 - 6 1/16 (1983) 5 - 11 5/16 (1811)	 UWCAP 4078 T UWCAPOP 4078 T	 UWCAP 4878 T UWCAPOP 4878 T	 UWCAP 5678 T UWCAPOP 5678 T	 UWCAP 6078 T UWCAPOP 6078 T	 UWCAP 6478 T UWCAPOP 6478 T	 UWCAP 72 78 T* UWCAPOP 7278 T*	 UWCAP 8078 T* UWCAPOP 8078 T*	 UWCAP 8878 T* UWCAPOP 8878 T*	 UWCAP 9678 T* UWCAPOP 8878 T*
7 - 1 7/8 (2181) 7 - 9/16 (2148) 7 - 1/16 (2135) 6 - 5 5/16 (1964)	 UWCAP 4084 T UWCAPOP 4084 T	 UWCAP 4884 T UWCAPOP 4884 T	 UWCAP 5684 T UWCAPOP 5684 T	 UWCAP 6084 T UWCAPOP 6084 T	 UWCAP 6484 T UWCAPOP 6484 T	 UWCAP 7284 T* UWCAPOP 7284 T*	 UWCAP 8084 T* UWCAPOP 8084 T*	 UWCAP 8884 T* UWCAPOP 8884 T*	 UWCAP 8884 T* UWCAPOP 8884 T*
7 - 9 7/8 (2384) 7 - 8 9/16 (2351) 7 - 8 1/16 (2338) 7 - 1 5/16 (2167)	 UWCAP 4092 T UWCAPOP 4092 T	 UWCAP 4892 T UWCAPOP 4892 T	 UWCAP 5692 T UWCAPOP 5692 T	 UWCAP 6092 T UWCAPOP 6092 T	 UWCAP 6492 T UWCAPOP 6492 T	 UWCAP 7292 T* UWCAPOP 7292 T*	 UWCAP 8092 T* UWCAPOP 8092 T*	 UWCAP 8892 T* UWCAPOP 8892 T*	
8 - 1 7/8 (2486) 8 - 9/16 (2453) 8 - 1/16 (2440) 7 - 5 5/16 (2269)	 UWCAP 4096 T UWCAPOP 4096 T	 UWCAP 4896 T UWCAPOP 4896 T	 UWCAP 5696 T UWCAPOP 5696 T	 UWCAP 6096 T UWCAPOP 6096 T	 UWCAP 6496 T UWCAPOP 6496 T	 UWCAP 7296 T* UWCAPOP 7296 T*	 UWCAP 8096 T* UWCAPOP 8096 T*	 UWCAP 8896 T* UWCAPOP 8896 T*	

**WOOD CASEMENT / WOOD CASEMENT PUSH OUT PICTURE**

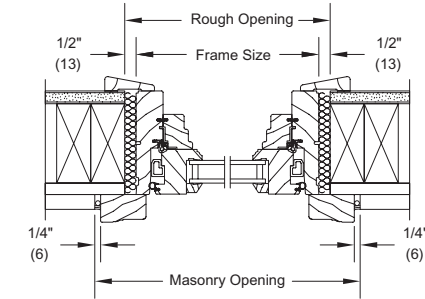
CONSTRUCTION DETAILS



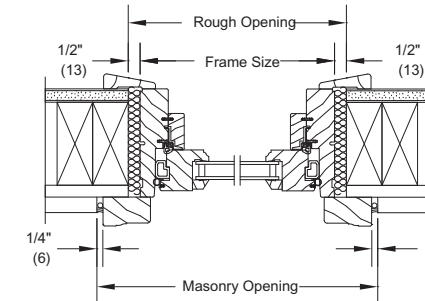
HEAD JAMB AND SILL - PICTURE



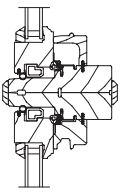
PUSH OUT HEAD JAMB AND SILL - PICTURE



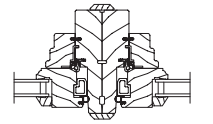
JAMB - PICTURE



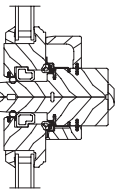
PUSH OUT JAMB - PICTURE



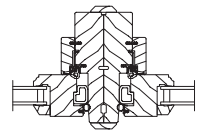
HORIZONTAL MULLION



VERTICAL MULLION



PUSH OUT HORIZONTAL MULLION



PUSH OUT VERTICAL MULLION

Details and Elevations not to scale.

T For safety and/or code requirements, Marvin recommends tempered glass in all units with a frame size height of 72 1/16" or larger and units with a frame size of 25.2 ft² and larger.

\* Larger sizes require 1" insulating glass.

Please consult your local Marvin representative for more information.

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CASEMENT PICTURE / CASEMENT PUSH OUT PICTURE

<b>MO (mm)</b>	3 - 4 1/2 (1028)	4 - 1/2 (1232)	4 - 8 1/2 (1435)	5 - 1/2 (1537)	5 - 4 1/2 (1638)	6 - 1/2 (1842)	6 - 8 1/2 (2045)	7 - 4 1/2 (2248)	8 - 1/2 (2451)
<b>RO (mm)</b>	3 - 5 (1041)	4 - 1 (1245)	4 - 9 (1448)	5 - 1 (1549)	5 - 5 (1651)	6 - 1 (1854)	6 - 9 (2057)	7 - 5 (2261)	8 - 1 (2464)
<b>FS (mm)</b>	3 - 4 (1016)	4 - 0 (1219)	4 - 8 (1422)	5 - 0 (1524)	5 - 4 (1626)	6 - 0 (1829)	6 - 8 (2032)	7 - 4 (2235)	8 - 0 (2438)
<b>DLO (mm)</b>	2 - 10 13/64 (869)	3 - 6 13/64 (1072)	4 - 2 13/64 (1275)	4 - 6 13/64 (1377)	4 - 10 13/64 (1478)	5 - 6 13/64 (1682)	6 - 2 13/64 (1885)	6 - 10 13/64 (2088)	7 - 6 13/64 (2291)

0 - 11 3/8 (289)									
0 - 11 5/8 (295)	UCAP4012	UCAP4812	UCAP5612	UCAP6012	UCAP6412	UCAP7212	UCAP8012	UCAP8812	UCAP9612
0 - 11 1/8 (283)									
0 - 5 21/64 (135)	UCAPOP4012	UCAPOP4812	UCAPOP5612	UCAPOP6012	UCAPOP6412	UCAPOP7212	UCAPOP8012	UCAPOP8812	UCAPOP9612
1 - 1 3/8 (339)									
1 - 1 5/8 (346)	UCAP4014	UCAP4814	UCAP5614	UCAP6014	UCAP6414	UCAP7214	UCAP8014	UCAP8814	UCAP9614
1 - 1 1/8 (333)									
0 - 7 21/64 (186)	UCAPOP4014	UCAPOP4814	UCAPOP5614	UCAPOP6014	UCAPOP6414	UCAPOP7214	UCAPOP8014	UCAPOP8814	UCAPOP9614
1 - 3 3/8 (390)									
1 - 3 5/8 (396)	UCAP4016	UCAP4816	UCAP5616	UCAP6016	UCAP6416	UCAP7216	UCAP8016	UCAP8816	UCAP9616
1 - 3 1/8 (384)									
0 - 9 21/64 (237)	UCAPOP4016	UCAPOP4816	UCAPOP5616	UCAPOP6016	UCAPOP6416	UCAPOP7216	UCAPOP8016	UCAPOP8816	UCAPOP9616
1 - 5 3/8 (441)									
1 - 5 5/8 (447)	UCAP4018	UCAP4818	UCAP5618	UCAP6018	UCAP6418	UCAP7218	UCAP8018	UCAP8818	UCAP9618
1 - 5 1/8 (434)									
0 - 11 21/64 (288)	UCAPOP4018	UCAPOP4818	UCAPOP5618	UCAPOP6018	UCAPOP6418	UCAPOP7218	UCAPOP8018	UCAPOP8818	UCAPOP9618
1 - 7 3/8 (492)									
1 - 7 5/8 (498)	UCAP4020	UCAP4820	UCAP5620	UCAP6020	UCAP6420	UCAP7220	UCAP8020	UCAP8820	UCAP9620
1 - 7 1/8 (485)									
1 - 1 21/64 (339)	UCAPOP4020	UCAPOP4820	UCAPOP5620	UCAPOP6020	UCAPOP6420	UCAPOP7220	UCAPOP8020	UCAPOP8820	UCAPOP9620
1 - 11 3/8 (693)									
1 - 11 5/8 (700)	UCAP4024	UCAP4824	UCAP5624	UCAP6024	UCAP6424	UCAP7224	UCAP8024	UCAP8824	UCAP9624
1 - 11 1/8 (687)									
1 - 5 21/64 (440)	UCAPOP4024	UCAPOP4824	UCAPOP5624	UCAPOP6024	UCAPOP6424	UCAPOP7224	UCAPOP8024	UCAPOP8824	UCAPOP9624
2 - 3 3/8 (695)									
2 - 3 5/8 (701)	UCAP4028	UCAP4828	UCAP5628	UCAP6028	UCAP6428	UCAP7228	UCAP8028	UCAP8828	UCAP9628
2 - 3 1/8 (688)									
1 - 9 21/64 (542)	UCAPOP4028	UCAPOP4828	UCAPOP5628	UCAPOP6028	UCAPOP6428	UCAPOP7228	UCAPOP8028	UCAPOP8828	UCAPOP9628

CASEMENT PICTURE / CASEMENT PUSH OUT PICTURE

<b>MO (mm)</b>	3 - 4 1/2 (1028)	4 - 1/2 (1232)	4 - 8 1/2 (1435)	5 - 1/2 (1537)	5 - 4 1/2 (1638)	6 - 1/2 (1842)	6 - 8 1/2 (2045)	7 - 4 1/2 (2248)	8 - 1/2 (2451)
<b>RO (mm)</b>	3 - 5 (1041)	4 - 1 (1245)	4 - 9 (1448)	5 - 1 (1549)	5 - 5 (1651)	6 - 1 (1854)	6 - 9 (2057)	7 - 5 (2261)	8 - 1 (2464)
<b>FS (mm)</b>	3 - 4 (1016)	4 - 0 (1219)	4 - 8 (1422)	5 - 0 (1524)	5 - 4 (1626)	6 - 0 (1829)	6 - 8 (2032)	7 - 4 (2235)	8 - 0 (2438)
<b>DLO (mm)</b>	2 - 10 13/64 (869)	3 - 6 13/64 (1072)	4 - 2 13/64 (1275)	4 - 6 13/64 (1377)	4 - 10 13/64 (1478)	5 - 6 13/64 (1682)	6 - 2 13/64 (1885)	6 - 10 13/64 (2088)	7 - 6 13/64 (2291)

2 - 7 3/8 (796)									
2 - 7 5/8 (803)	UCAP4032	UCAP4832	UCAP5632	UCAP6032	UCAP6432	UCAP7232	UCAP8032	UCAP8832	UCAP9632
2 - 7 1/8 (790)									
2 - 1 21/64 (643)	UCAPOP4032	UCAPOP4832	UCAPOP5632	UCAPOP6032	UCAPOP6432	UCAPOP7232	UCAPOP8032	UCAPOP8832	UCAPOP9632
2 - 11 3/8 (898)									
2 - 11 5/8 (904)	UCAP4036	UCAP4836	UCAP5636	UCAP6036	UCAP6436	UCAP7236	UCAP8036	UCAP8836	UCAP9636
2 - 11 1/8 (892)									
2 - 5 21/64 (745)	UCAPOP4036	UCAPOP4836	UCAPOP5636	UCAPOP6036	UCAPOP6436	UCAPOP7236	UCAPOP8036	UCAPOP8836	UCAPOP9636
3 - 3 3/8 (1000)									
3 - 3 5/8 (1006)	UCAP4040	UCAP4840	UCAP5640	UCAP6040	UCAP6440	UCAP7240	UCAP8040	UCAP8840	UCAP9640 T
3 - 3 1/8 (993)									
2 - 9 21/64 (847)	UCAPOP4040	UCAPOP4840	UCAPOP5640	UCAPOP6040	UCAPOP6440	UCAPOP7240	UCAPOP8040	UCAPOP8840	UCAPOP9640 T
3 - 7 3/8 (1101)									
3 - 7 5/8 (1108)	UCAP4044	UCAP4844	UCAP5644	UCAP6044	UCAP6444	UCAP7244	UCAP8044	UCAP8844 T	UCAP9644 T
3 - 7 1/8 (1095)									
3 - 1 21/64 (948)	UCAPOP4044	UCAPOP4844	UCAPOP5644	UCAPOP6044	UCAPOP6444	UCAPOP7244	UCAPOP8044	UCAPOP8844 T	UCAPOP9644 T
3 - 11 3/8 (1203)									
3 - 11 5/8 (1209)	UCAP4048	UCAP4848	UCAP5648	UCAP6048	UCAP6448	UCAP7248	UCAP8048 T	UCAP8848 T	UCAP9648 T
3 - 11 1/8 (1196)									
3 - 5 21/64 (1050)	UCAPOP4048	UCAPOP4848	UCAPOP5648	UCAPOP6048	UCAPOP6448	UCAPOP7248	UCAPOP8048 T	UCAPOP8848 T	UCAPOP9648 T
4 - 5 3/8 (1355)									
4 - 5 5/8 (1362)	UCAP4054	UCAP4854	UCAP5654	UCAP6054	UCAP6454	UCAP7254 T	UCAP8054 T	UCAP8854 T	UCAP9654 T
4 - 5 1/8 (1349)									
3 11 21/64 (1202)	UCAPOP4054	UCAPOP4854	UCAPOP5654	UCAPOP6054	UCAPOP6454	UCAPOP7254 T	UCAPOP8054 T	UCAPOP8854 T	UCAPOP9654 T
4 - 7 3/8 (1406)									
4 - 7 5/8 (1412)	UCAP4056	UCAP4856	UCAP5656	UCAP6056	UCAP6456	UCAP7256 T	UCAP8056 T	UCAP8856 T	UCAP9656 T
4 - 7 1/8 (1400)									
4 - 1 21/64 (1253)	UCAPOP4056	UCAPOP4856	UCAPOP5656	UCAPOP6056	UCAPOP6456	UCAPOP7256 T	UCAPOP8056 T	UCAPOP8856 T	UCAPOP9656 T

Details and Elevations not to scale.  
 T For safety and/or code requirements, Marvin recommends tempered glass in all units with a frame size height of 72 1/16" or larger and units with a frame size of 25.2 ft² and larger.  
 \* Larger sizes require 1" insulating glass.

Please consult your local Marvin representative for more information.  
 For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

Ultimate Casement Picture: UCAP  
 Ultimate Casement Push Out Picture: UCAPOP

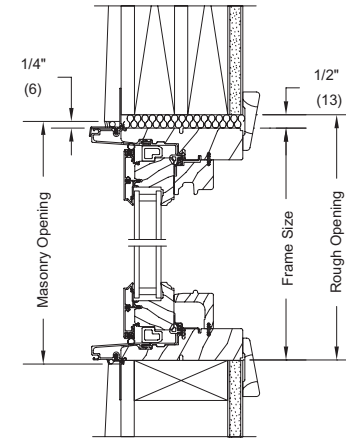


CASEMENT PICTURE / CASEMENT PUSH OUT PICTURE

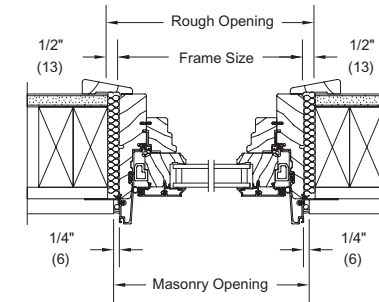
MO (mm)	3 - 4 1/2 (1028)	4 - 1/2 (1232)	4 - 8 1/2 (1435)	5 - 1/2 (1537)	5 - 4 1/2 (1638)	6 - 1/2 (1842)	6 - 8 1/2 (2045)	7 - 4 1/2 (2248)	8 - 1/2 (2451)
RO (mm)	3 - 5 (1041)	4 - 1 (1245)	4 - 9 (1448)	5 - 1 (1549)	5 - 5 (1651)	6 - 1 (1854)	6 - 9 (2057)	7 - 5 (2261)	8 - 1 (2464)
FS (mm)	3 - 4 (1016)	4 - 0 (1219)	4 - 8 (1422)	5 - 0 (1524)	5 - 4 (1626)	6 - 0 (1829)	6 - 8 (2032)	7 - 4 (2235)	8 - 0 (2438)
DLO (mm)	2 - 10 13/64 (869)	3 - 6 13/64 (1072)	4 - 2 13/64 (1275)	4 - 6 13/64 (1377)	4 - 10 13/64 (1478)	5 - 6 13/64 (1682)	6 - 2 13/64 (1885)	6 - 10 13/64 (2088)	7 - 6 13/64 (2291)
4 - 11 3/8 (1508)									
4 - 11 5/8 (1514)	UCAP4060	UCAP4860	UCAP5660	UCAP6060	UCAP6460 T	UCAP7260 T	UCAP8060 T	UCAP8860 T	UCAP9660 T
4 - 11 7/8 (1501)									
4 - 5 21/64 (1355)									
5 - 3 3/8 (1609)									
5 - 3 5/8 (1616)	UCAP4064	UCAP4864	UCAP5664	UCAP6064 T	UCAP6464 T	UCAP7264 T	UCAP8064 T	UCAP8864 T	UCAP9664 T
5 - 3 7/8 (1603)									
4 - 9 21/64 (1456)									
5 - 11 3/8 (1812)									
5 - 11 5/8 (1819)	UCAP4072 T	UCAP4872 T	UCAP5672 T	UCAP6072 T	UCAP6472 T	UCAP7272 T*	UCAP8072 T*	UCAP8872 T*	UCAP9672 T*
5 - 11 7/8 (1806)									
5 - 5 21/64 (1659)									
6 - 5 3/8 (1966)									
6 - 5 5/8 (1971)	UCAP4078 T	UCAP4878 T	UCAP5678 T	UCAP6078 T	UCAP6478 T	UCAP7278 T*	UCAP8078 T*	UCAP8878 T*	UCAP9678 T*
6 - 5 7/8 (1958)									
5 - 11 21/64 (1812)									
6 - 11 3/8 (2117)									
6 - 11 5/8 (2124)	UCAP4084 T	UCAP4884 T	UCAP5684 T	UCAP6084 T	UCAP6484 T	UCAP7284 T*	UCAP8084 T*	UCAP8884 T*	UCAP9684 T*
6 - 11 7/8 (2111)									
6 - 5 21/64 (1964)									
7 - 7 3/8 (2320)									
7 - 7 5/8 (2327)	UCAP4092 T	UCAP4892 T	UCAP5692 T	UCAP6092 T	UCAP6492 T	UCAP7292 T*	UCAP8092 T*	UCAP8892 T*	
7 - 7 7/8 (2314)									
7 - 1 21/64 (2167)									
7 - 11 3/8 (2422)									
7 - 11 5/8 (2428)	UCAP4096 T	UCAP4896 T	UCAP5696 T	UCAP6096 T	UCAP6496 T	UCAP7296 T*	UCAP8096 T*	UCAP8896 T*	
7 - 11 7/8 (2416)									
7 - 5 21/64 (2269)									

CASEMENT PICTURE / CASEMENT PUSH OUT PICTURE

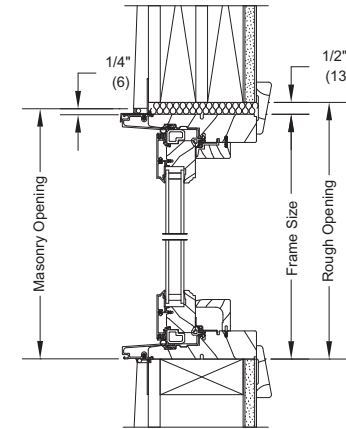
CONSTRUCTION DETAILS



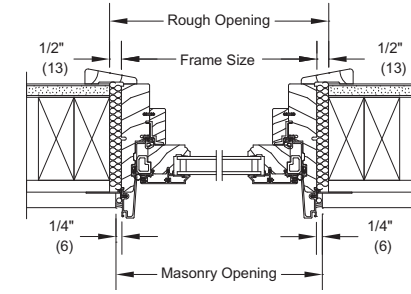
HEAD JAMB AND SILL - PICTURE



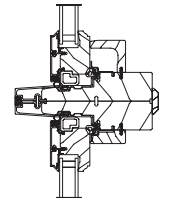
JAMB - PICTURE



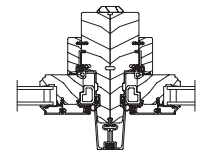
PUSH OUT HEAD JAMB AND SILL - PICTURE



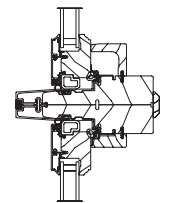
PUSH OUT JAMB - PICTURE



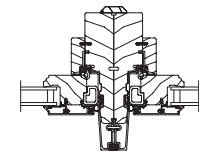
HORIZONTAL MULLION



VERTICAL MULLION



PUSH OUT HORIZONTAL MULLION PICTURE



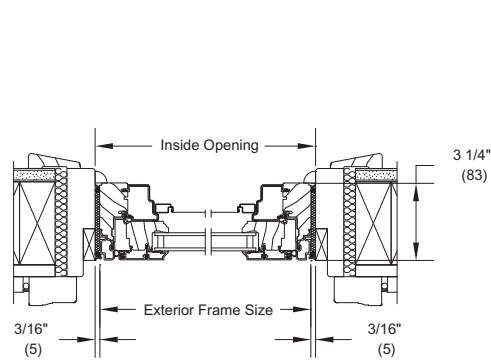
PUSH OUT VERTICAL MULLION PICTURE

Details and Elevations not to scale.  
 T For safety and/or code requirements, Marvin recommends tempered glass in all units with a frame size height of 72 1/16" or larger and units with a frame size of 25.2 ft² and larger.  
 \* Larger sizes require 1" insulating glass.

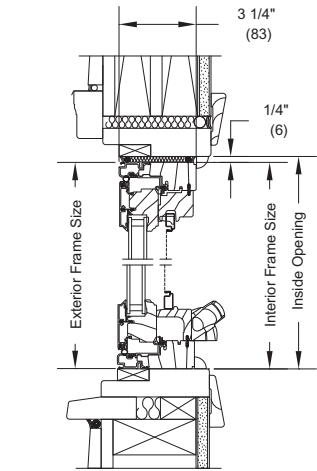
Please consult your local Marvin representative for more information.  
 For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

# CASEMENT NARROW FRAME

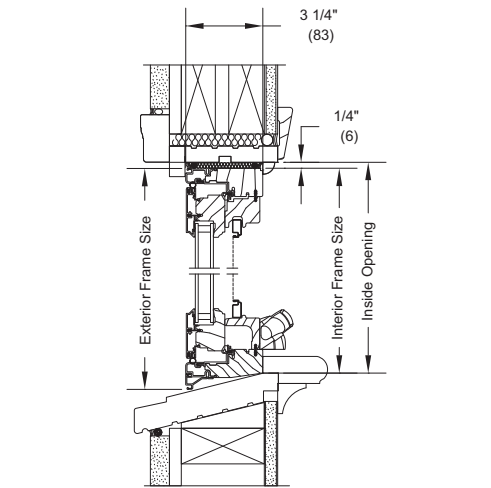
## CONSTRUCTION DETAILS



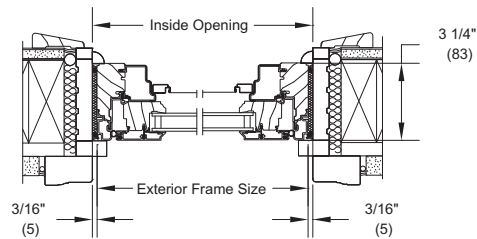
IN CASEMENT FRAME  
JAMBS WOOD SIDING



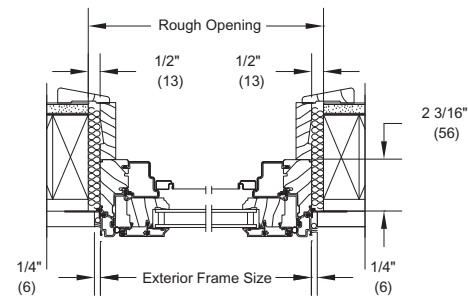
IN CASEMENT FRAME  
HEAD JAMB, SILL WOOD SIDING



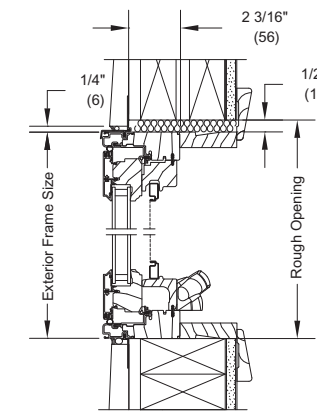
IN DOUBLE HUNG FRAME  
HEAD JAMB, SILL STUCCO



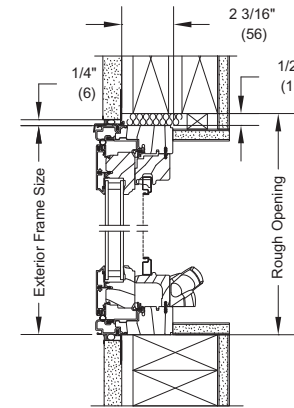
IN DOUBLE HUNG FRAME  
JAMBS STUCCO



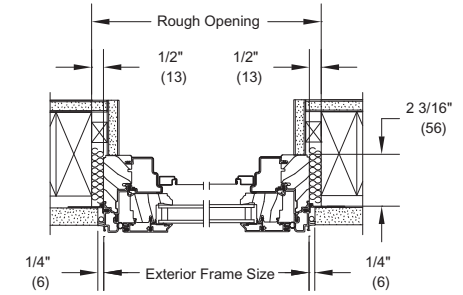
FULL FRAME REPLACE  
JAMBS WOOD SIDING



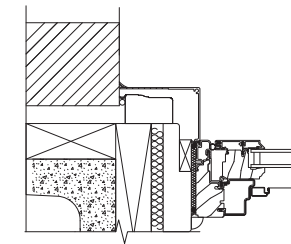
FULL FRAME REPLACE  
HEAD JAMB, SILL WOOD SIDING



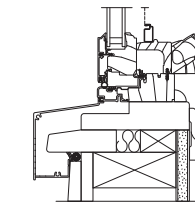
FULL FRAME REPLACE  
HEAD JAMB, SILL STUCCO



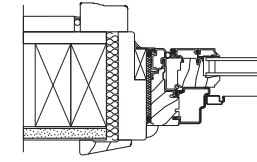
FULL FRAME REPLACE  
JAMBS STUCCO



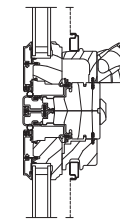
PANNING OPTIONS  
MASONRY



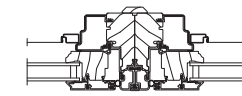
PANNING OPTIONS  
SILL



PANNING OPTIONS  
FRAME EXPANDER



HORIZONTAL MULLION  
OPERATOR



VERTICAL MULLION OPERATOR

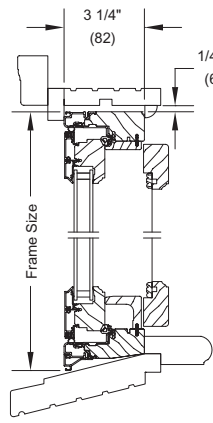
Details and Elevations not to scale.

- Ultimate Casement Narrow Frame Windows are manufactured to your specifications.
- 2 3/16" jambs (full frame installation) 3 1/4" jambs frame-in-frame insert application.
- On sizes less than 20" wide, sash does not rotate into wash mode.
- Bottom of the sill is available with either a flat, 8" or 14" frame bevel.
- For complete measurement instructions, visit [Marvin.com](http://Marvin.com).

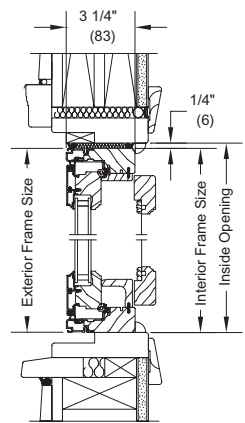
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# CASEMENT NARROW FRAME PUSH OUT

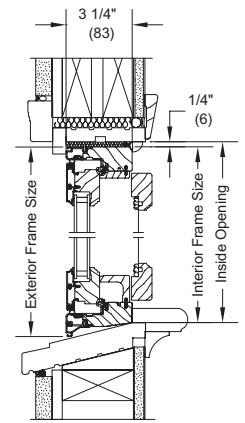
CONSTRUCTION DETAILS - WITH SCREEN



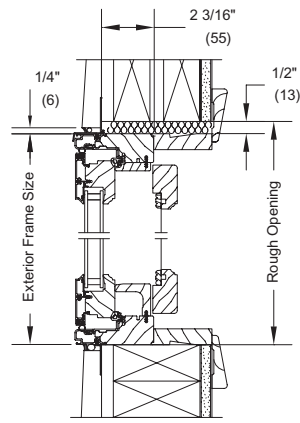
OPERATOR  
HEAD JAMB AND SILL



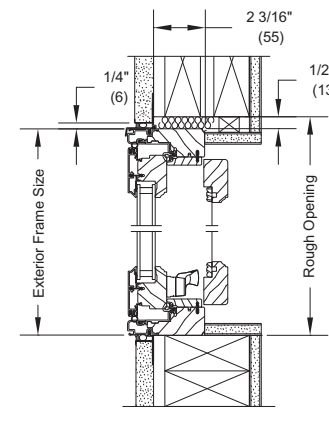
HEAD JAMB AND SILL  
WOOD SIDING



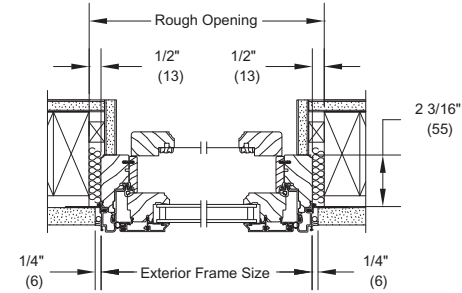
DOUBLE HUNG HEAD JAMB  
AND SILL STUCCO



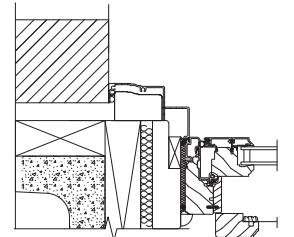
FULL FRAME HEAD JAMB AND  
SILL WOOD SIDING



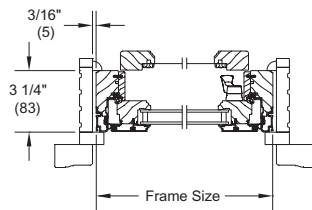
FULL FRAME HEAD JAMB  
AND SILL STUCCO



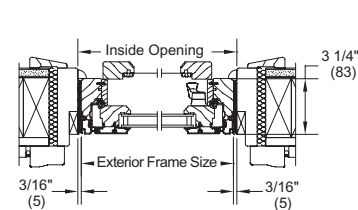
FULL FRAME JAMB  
STUCCO



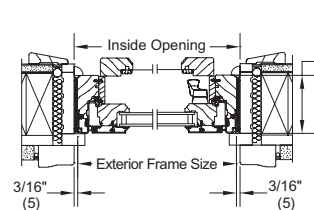
PANNING OPTIONS  
MASONRY



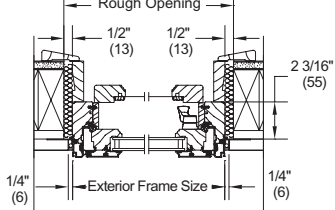
OPERATOR  
JAMB



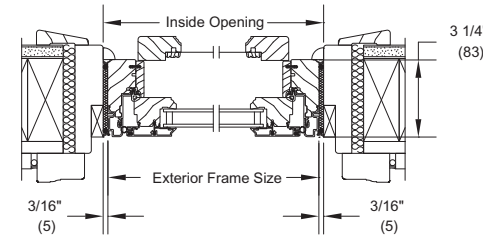
JAMB  
WOOD SIDING



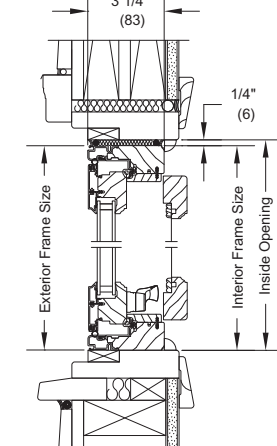
DOUBLE HUNG JAMB  
STUCCO



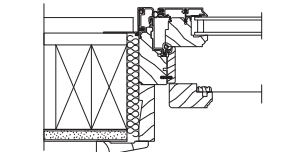
FULL FRAME JAMB  
WOOD SIDING



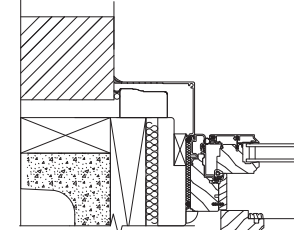
JAMB  
INSTALLED IN EXISTING CM FRAME



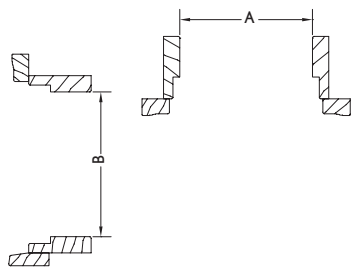
HEAD JAMB AND SILL  
INSTALLED IN EXISTING CM FRAME



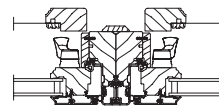
PANNING OPTIONS  
KERF COVER



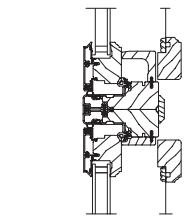
PANNING OPTIONS  
MASONRY



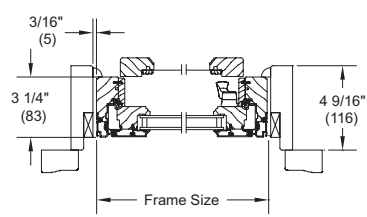
MEASUREMENT INSTRUCTIONS  
EXISTING WINDOW FRAME



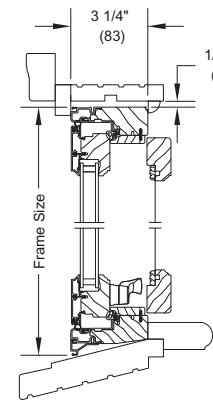
OPERATOR  
VERTICAL MULLION



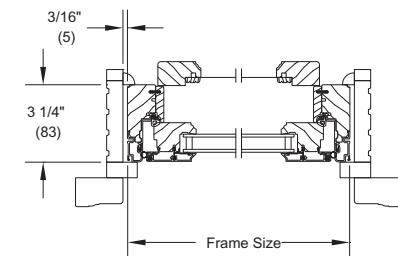
OPERATOR  
HORIZONTAL MULLION



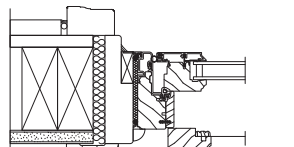
FULL FRAME JAMB  
INSTALLED IN EXISTING FRAME



OPERATOR HEAD JAMB AND SILL  
INSTALLED IN EXISTING DH FRAME



OPERATOR JAMB  
INSTALLED IN EXISTING DH FRAME



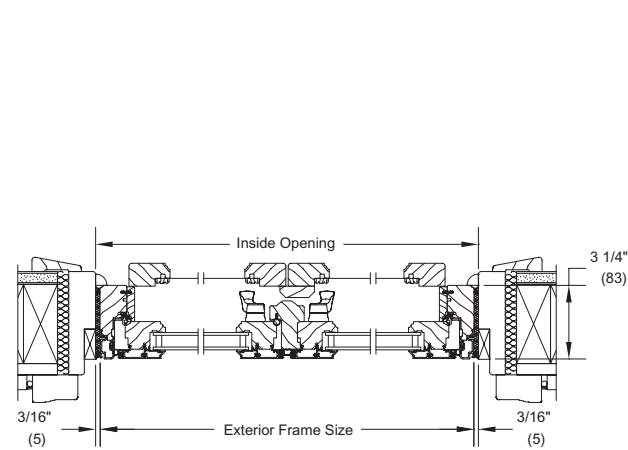
PANNING OPTIONS  
FRAME EXPANDER

# FRENCH CASEMENT NARROW FRAME PUSH OUT

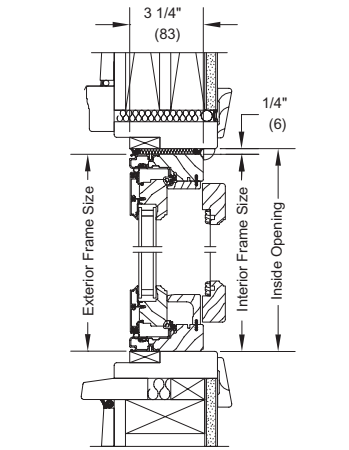
CONSTRUCTION DETAILS - WITH OPTION SCREEN

# FRENCH CASEMENT NARROW FRAME PUSH OUT

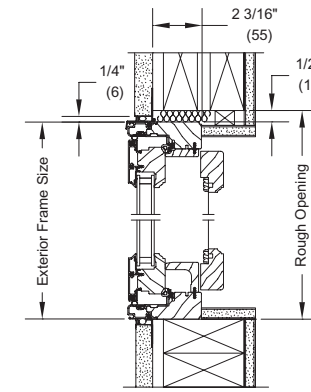
CONSTRUCTION DETAILS



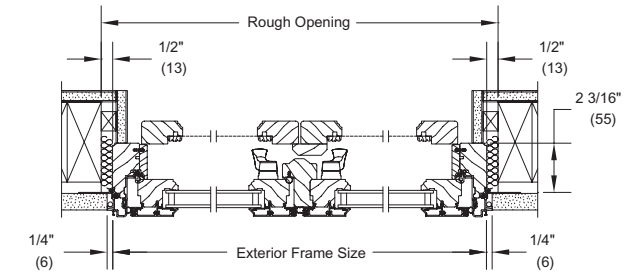
IN CASEMENT FRAME  
JAMBS WOOD SIDING



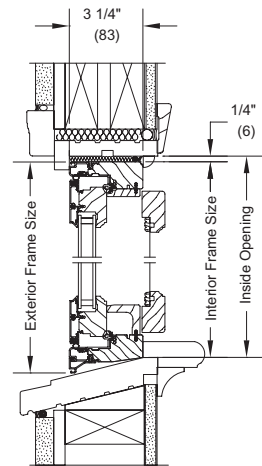
IN CASEMENT FRAME  
HEAD JAMB, SILL WOOD SIDING



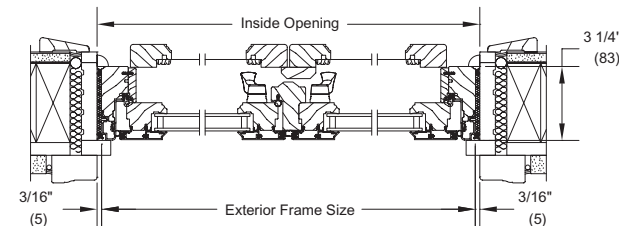
FULL FRAME REPLACE  
HEAD JAMB, SILL STUCCO



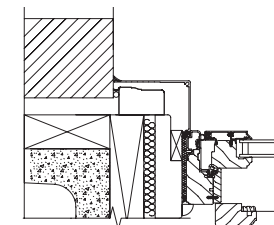
FULL FRAME REPLACE  
JAMBS STUCCO



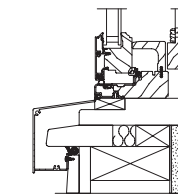
IN DOUBLE HUNG FRAME  
HEAD JAMB, SILL STUCCO



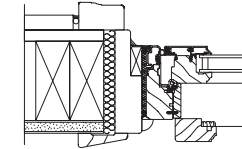
IN DOUBLE HUNG FRAME  
JAMBS STUCCO



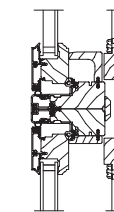
PANNING OPTIONS  
MASONRY



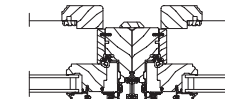
PANNING OPTIONS  
SILL



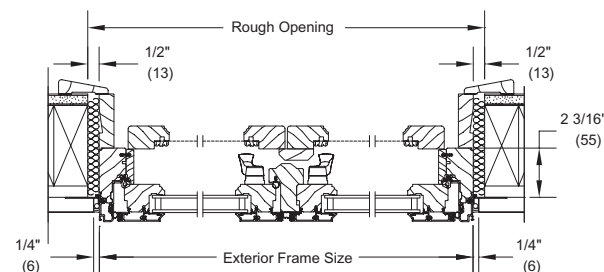
PANNING OPTIONS  
FRAME EXPANDER



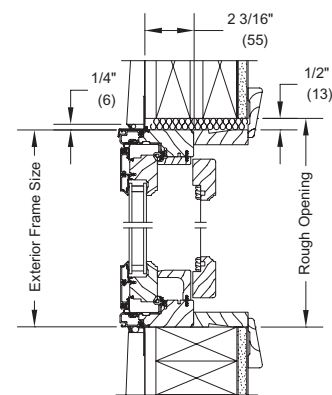
HORIZONTAL MULLION  
OPERATOR



VERTICAL MULLION  
OPERATOR



FULL FRAME REPLACE  
JAMBS WOOD SIDING



FULL FRAME REPLACE  
HEAD JAMB, SILL WOOD SIDING

Details and Elevations not to scale.

- Ultimate Casement Narrow Frame Windows are manufactured to your specifications.
- Available as a clad wood window only.
- 2 3/16" jambs (full frame installation) 3 1/4" jambs frame-in-frame insert application.
- On sizes less than 20" wide, sash does not rotate into wash mode.
- Bottom of the sill is available with either a flat, 8° or 14° frame bevel.
- For complete measurement instructions, visit [Marvin.com](http://Marvin.com).

Please consult your local Marvin representative for more information.

For further details and drawings visit the 'Technical Specifications' section at [Marvin.com](http://Marvin.com).

## WOOD CASEMENT ROUND TOP

RT6 EYEBROW ABOVE SPRINGLINE STANDARD SIZES - OPERATOR AND STATIONARY

RO (mm)	1 - 5 (432)	1 - 7 (483)	1 - 9 (533)	2 - 1 (635)	2 - 3 (686)	2 - 5 (737)	2 - 7 (787)	2 - 9 (838)	3 - 1 (940)
2 - 8 9/16 (627)									
	UWCART1632	UWCART1832	UWCART2032						
3 - 9/16 (929)									
	UWCART1636	UWCART1836	UWCART2036	UWCART2436					
3 - 4 9/16 (1030)									
	UWCART1640	UWCART1840	UWCART2040	UWCART2440	UWCART2640	UWCART2840			
3 - 8 9/16 (1132)									
	UWCART1644	UWCART1844	UWCART2044	UWCART2444	UWCART2644	UWCART2844	UWCART3044 E		
4 - 9/16 (1234)									
	UWCART1648	UWCART1848	UWCART2048	UWCART2448	UWCART2648	UWCART2848 E	UWCART3048 E	UWCART3248 E	
4 - 6 9/16 (1386)									
	UWCART1654	UWCART1854	UWCART2054	UWCART2454	UWCART2654 E	UWCART2854 E	UWCART3054 E	UWCART3254 E	UWCART3654 E

Details and Elevations not to scale.

- Marvin exclusive wash mode is not available on Ultimate Casement Round Tops.
- Rough opening height includes <sup>15</sup>/<sub>16</sub>" subsill.

E These windows meet national Egress codes for fire evacuation. Local codes may differ.

Ultimate Wood Casement Round Top: UWCART

## WOOD CASEMENT ROUND TOP

RT6 EYEBROW ABOVE SPRINGLINE STANDARD SIZES - OPERATOR AND STATIONARY

RO (mm)	1 - 5 (432)	1 - 7 (483)	1 - 9 (533)	2 - 1 (635)	2 - 3 (686)	2 - 5 (737)	2 - 7 (787)	2 - 9 (838)	3 - 1 (940)	3 - 5 (1041)
4 - 8 9/16 (1437)										
	UWCART1656	UWCART1856	UWCART2056	UWCART2456	UWCART2656 E	UWCART2856 E	UWCART3056 E	UWCART3256 E	UWCART3656 E	
5 - 9/16 (1538)										
	UWCART1660	UWCART1860	UWCART2060	UWCART2460	UWCART2660 E	UWCART2860 E	UWCART3060 E	UWCART3260 E	UWCART3660 E	UWCART4060 E
5 - 4 9/16 (1640)										
	UWCART1664	UWCART1864	UWCART2064	UWCART2464	UWCART2664 E	UWCART2864 E	UWCART3064 E	UWCART3264 E	UWCART3664 E	UWCART4064 E
6 - 9/16 (1843)										
	UWCART1672 T	UWCART1872 T	UWCART2072 T	UWCART2472 T	UWCART2672 T	UWCART2872 T	UWCART3072 T	UWCART3272 T	UWCART3672 T	UWCART4072 T
6 - 6 9/16 (1996)										
	UWCART1678 T	UWCART1878 T	UWCART2078 T	UWCART2478 T	UWCART2678 T	UWCART2878 T	UWCART3078 T	UWCART3278 T	UWCART3678 T	UWCART4078 T

Details and Elevations not to scale.

- Marvin exclusive wash mode is not available on Ultimate Casement Round Tops.
- Rough opening height includes <sup>15</sup>/<sub>16</sub>" subsill.

E These windows meet national Egress codes for fire evacuation. Local codes may differ.

T For safety and/or code requirements, Marvin recommends tempered glass in all units with a frame size height of 71 <sup>1</sup>/<sub>8</sub>" or larger and units with basic frame size 25.2 ft<sup>2</sup> and larger.

Please consult your local Marvin representative for more information.

For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

### WOOD CASEMENT ROUND TOP

RT6 EYEBROW ABOVE SPRINGLINE STANDARD SIZES - OPERATOR AND STATIONARY

RO (mm)	1 - 5 (432)	1 - 7 (483)	1 - 9 (533)	2 - 1 (635)	2 - 3 (686)	2 - 5 (737)	2 - 7 (787)	2 - 9 (838)	3 - 1 (940)	3 - 5 (1041)
7 - 1/16 (2135)										
	UWCART1684 T	UWCART1884 T	UWCART2084 T	UWCART2484 T	UWCART2684 T	UWCART2884 T	UWCART3084 T	UWCART3284 T	UWCART3684 T	UWCART4084 T
7 - 8 1/16 (2338)										
	UWCART1692 T	UWCART1892 T	UWCART2092 T	UWCART2492 T	UWCART2692 T	UWCART2892 T	UWCART3092 T	UWCART3292 T	UWCART3692 T	UWCART4092 T
8 - 1/16 (2440)										
	UWCART1696 T	UWCART1896 T	UWCART2096 T	UWCART2496 T	UWCART2696 T	UWCART2896 T	UWCART3096 T	UWCART3296 T	UWCART3696 T	

### WOOD CASEMENT ROUND TOP

RT21 / RT22 TWO WIDE STANDARD SIZES - OPERATOR AND STATIONARY

RO (mm)	2-9 (838)	3-1 (940)	3-5 (1041)	4-1 (1245)	4-5 (1346)	4-9 (1448)
2-9 9/16 (827)						
	UWCART 2W 1632					
3-0 9/16 (829)						
	UWCART 2W 1636	UWCART 2W 1836	UWCART 2W 2036			
3-4 9/16 (1030)						
	UWCART 2W 1640	UWCART 2W 1840	UWCART 2W 2040	UWCART 2W 2440		
3-8 9/16 (1132)						
	UWCART 2W 1644	UWCART 2W 1844	UWCART 2W 2044	UWCART 2W 2444		UWCART 2W 2844
4-0 9/16 (1234)						
	UWCART 2W 1648	UWCART 2W 1848	UWCART 2W 2048	UWCART 2W 2448	UWCART 2W 2648	UWCART 2W 2848 E
4-6 9/16 (1386)						
	UWCART 2W 1654	UWCART 2W 1854	UWCART 2W 2054	UWCART 2W 2454	UWCART 2W 2654	UWCART 2W 2854 E
4-8 9/16 (1437)						
	UWCART 2W 1656	UWCART 2W 1856	UWCART 2W 2056	UWCART 2W 2456	UWCART 2W 2656	UWCART 2W 2856 E
5-0 9/16 (1538)						
	UWCART 2W 1660	UWCART 2W 1860	UWCART 2W 2060	UWCART 2W 2460	UWCART 2W 2660	UWCART 2W 2860 E

Details and Elevations not to scale.

- Marvin exclusive wash mode is not available on Ultimate Casement Round Tops.
- Rough opening height includes 15/16" subsill.

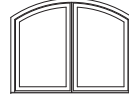
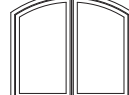
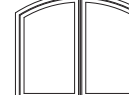






E These windows meet national Egress codes for fire evacuation. Local codes may differ.

Please consult your local Marvin representative for more information.

For further details and drawings visit the 'Technical Specifications' section at Marvin.com.





































### WOOD CASEMENT ROUND TOP

RT21 / RT22 TWO WIDE STANDARD SIZES - OPERATOR AND STATIONARY

RO (mm)	5-1 (1549)	5-5 (1651)	6-1 (1854)
4-0 9/16 (1234)	 UWCART 2W 3048 E		
4-6 9/16 (1386)	 UWCART 2W 3054 E	 UWCART 2W 3254 E	
4-8 9/16 (1437)	 UWCART 2W 3056 E	 UWCART 2W 3256 E	 UWCART 2W 3656 E
5-0 9/16 (1538)	 UWCART 2W 3060 E	 UWCART 2W 3260 E	 UWCART 2W 3660 E

### WOOD CASEMENT ROUND TOP

RT21 / RT22 TWO WIDE STANDARD SIZES - OPERATOR AND STATIONARY

RO (mm)	2-9 (838)	3-1 (940)	3-5 (1041)	4-1 (1245)	4-5 (1346)	4-9 (1448)
5-4 9/16 (1640)	 UWCART 2W 1664	 UWCART 2W 1864	 UWCART 2W 2064	 UWCART 2W 2464	 UWCART 2W 2664	 UWCART 2W 2864 E
6-0 9/16 (1843)	 UWCART 2W 1672 T	 UWCART 2W 1872 T	 UWCART 2W 2072 T	 UWCART 2W 2472 T	 UWCART 2W 2672 T	 UWCART 2W 2872 T
6-6 9/16 (1996)	 UWCART 2W 1678 T	 UWCART 2W 1878 T	 UWCART 2W 2078 T	 UWCART 2W 2478 T	 UWCART 2W 2678 T	 UWCART 2W 2878 T
7-0 9/16 (2148)	 UWCART 2W 1684 T	 UWCART 2W 1884 T	 UWCART 2W 2084 T	 UWCART 2W 2484 T	 UWCART 2W 2684 T	 UWCART 2W 2884 T
7-8 9/16 (2351)	 UWCART 2W 1692 T	 UWCART 2W 1892 T	 UWCART 2W 2092 T	 UWCART 2W 2492 T	 UWCART 2W 2692 T	 UWCART 2W 2892 T
8-0 9/16 (2453)	 UWCART 2W 1696 T	 UWCART 2W 1896 T	 UWCART 2W 2096 T	 UWCART 2W 2496 T	 UWCART 2W 2696 T	 UWCART 2W 2896 T

Details and Elevations not to scale.

- Marvin exclusive wash mode is not available on Ultimate Casement Round Tops.
- Rough opening height includes 15/16" subsill.

E These windows meet national Egress codes for fire evacuation. Local codes may differ.

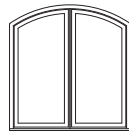
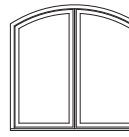
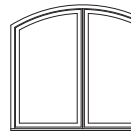
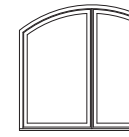
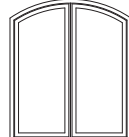
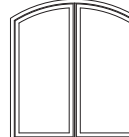
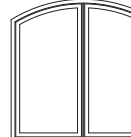

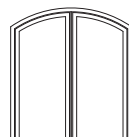
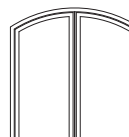
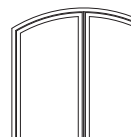
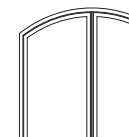
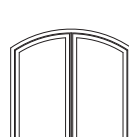
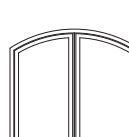
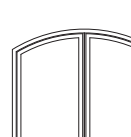
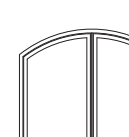
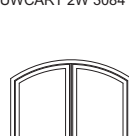





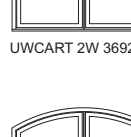
T For safety and/or code requirements, Marvin recommends tempered glass in all units with a frame size height of 71 1/8" or larger and units with basic frame size 25.2 ft² and larger.

Please consult your local Marvin representative for more information.

For further details and drawings visit the 'Technical Specifications' section at Marvin.com.































### WOOD CASEMENT ROUND TOP

RT21 / RT22 TWO WIDE STANDARD SIZES - OPERATOR AND STATIONARY

RO (mm)	5-1 (1549)	5-5 (1651)	6-1 (1854)	6-9 (2057)
5-4 9/16 (1640)	 UWCART 2W 3064 E	 UWCART 2W 3264 E	 UWCART 2W 3664 E	 UWCART 2W 4064 E
6-0 9/16 (1843)	 UWCART 2W 3072 T	 UWCART 2W 3272 T	 UWCART 2W 3672 T	 UWCART 2W 4072 T
6-6 9/16 (1996)	 UWCART 2W 3078 T	 UWCART 2W 3278 T	 UWCART 2W 3678 T	 UWCART 2W 4078 T
7-0 9/16 (2148)	 UWCART 2W 3084 T	 UWCART 2W 3284 T	 UWCART 2W 3684 T	 UWCART 2W 4084 T
7-6 9/16 (2351)	 UWCART 2W 3092 T	 UWCART 2W 3292 T	 UWCART 2W 3692 T	 UWCART 2W 4092 T
8-0 9/16 (2453)	 UWCART 2W 3096 T	 UWCART 2W 3296 T	 UWCART 2W 3696 T	

### WOOD CASEMENT ROUND TOP

RT2 STANDARD SIZES OPERATOR AND STATIONARY

RO (mm)	2 - 1 (635)	2 - 3 (686)	2 - 5 (737)	2 - 7 (787)	2 - 9 (838)	3 - 1 (940)	3 - 5 (1041)
3 - 8 9/16 (1132)	 UWCART2444						
4 - 9/16 (1234)	 UWCART2448	 UWCART2648					
4 - 6 9/16 (1386)	 UWCART2454	 UWCART2654	 UWCART2854	 UWCART3054 E			
4 - 8 9/16 (1437)	 UWCART2456	 UWCART2656	 UWCART2856 E	 UWCART3056 E	 UWCART3256 E		
5 - 9/16 (1538)	 UWCART2460	 UWCART2660 E	 UWCART2860 E	 UWCART3060 E	 UWCART3260 E		
5 - 4 9/16 (1640)	 UWCART2464	 UWCART2664 E	 UWCART2864 E	 UWCART3064 E	 UWCART3264 E	 UWCART3664 E	
6 - 9/16 (1843)	 UWCART2472 T	 UWCART2672 T	 UWCART2872 T	 UWCART3072 T	 UWCART3272 T	 UWCART3672 T	 UWCART4072 T

Details and Elevations not to scale.

- Rough opening height does not include subsill. If units are not used as transom, add 15/16" to height for subsill.

E These windows meet national Egress codes for fire evacuation. Local codes may differ.

T For safety and/or code requirements, Marvin recommends tempered glass in all units with a frame size height of 71 1/8" or larger and units with basic frame size 25.2 ft² and larger.




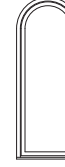






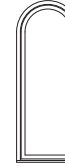






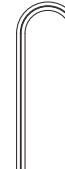






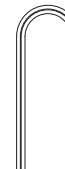


Please consult your local Marvin representative for more information.

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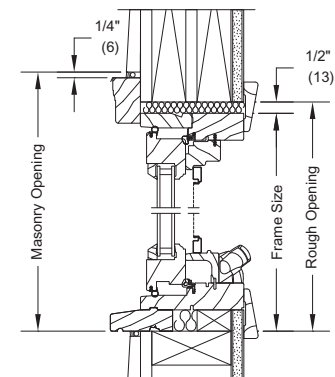
**WOOD CASEMENT ROUND TOP**

RT2 STANDARD SIZES OPERATOR AND STATIONARY

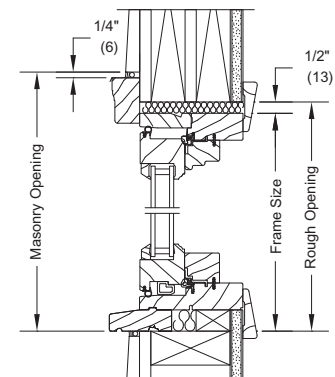
RO (mm)	2 - 1 (635)	2 - 3 (686)	2 - 5 (737)	2 - 7 (787)	2 - 9 (838)	3 - 1 (940)	3 - 5 (1041)
6 - 6 9/16 (1966)	 UWCART2478 T	 UWCART2678 T	 UWCART2878 T	 UWCART3078 T	 UWCART3278 T	 UWCART3678 T	 UWCART4078 T
7 - 9/16 (2148)	 UWCART2484 T	 UWCART2684 T	 UWCART2884 T	 UWCART3084 T	 UWCART3284 T	 UWCART3684 T	 UWCART4084 T
7 - 8 9/16 (2351)	 UWCART2492 T	 UWCART2692 T	 UWCART2892 T	 UWCART3092 T	 UWCART3292 T	 UWCART3692 T	 UWCART4092 T
8 - 9/16 (2453)	 UWCART2496 T	 UWCART2696 T	 UWCART2896 T	 UWCART3096 T	 UWCART3296 T	 UWCART3696 T	

**WOOD CASEMENT ROUND TOP**

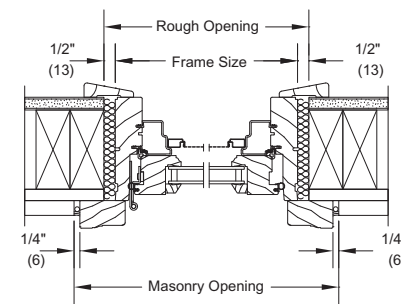
CONSTRUCTION DETAILS



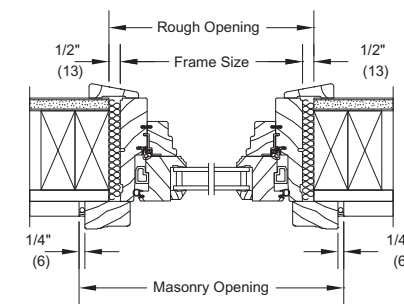
HEAD JAMB AND SILL - OPERATOR



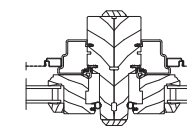
HEAD JAMB AND SILL - STATIONARY



JAMB - OPERATOR

































JAMB - STATIONARY



VERTICAL MULLION OPERATOR












### WOOD CASEMENT TRANSOM PICTURE ROUND TOP

RT6 STANDARD SIZES STATIONARY UNIT AS TRANSOM - IN SASH

RO (mm)	2 - 1 (635)	2 - 3 (686)	2 - 5 (737)	2 - 7 (787)	2 - 9 (838)
1 - 6 1/2 (470)	 UWCATRRT2419	 UWCATRRT2619	 UWCATRRT2819	 UWCATRRT3019	 UWCATRRT3219
2 - 0 1/2 (622)	 UWCATRRT2423	 UWCATRRT2623	 UWCATRRT2823	 UWCATRRT3023	 UWCATRRT3223
3 - 0 1/2 (927)	 UWCATRRT2435	 UWCATRRT2635	 UWCATRRT2835	 UWCATRRT3035	 UWCATRRT3235
4 - 0 1/2 (1232)	 UWCATRRT2447	 UWCATRRT2647	 UWCATRRT2847	 UWCATRRT3047	 UWCATRRT3247
5 - 0 1/2 (1537)	 UWCATRRT2459	 UWCATRRT2659	 UWCATRRT2859	 UWCATRRT3059	 UWCATRRT3259
6 - 0 1/2 (1842)	 UWCATRRT2471 T	 UWCATRRT2671 T	 UWCATRRT2871 T	 UWCATRRT3071 T	 UWCATRRT3271 T

### WOOD CASEMENT TRANSOM PICTURE ROUND TOP

RT6 STANDARD SIZES STATIONARY UNIT AS TRANSOM - IN SASH

RO (mm)	3 - 1 (939)	3 - 5 (1041)	4 - 1 (1245)	4 - 9 (1448)	6 - 1 (1854)
1 - 6 1/2 (470)	 UWCATRRT3619	 UWCATRRT4019	 UWCATRRT4819	 UWCATRRT5619	 UWCATRRT7219
2 - 0 1/2 (622)	 UWCATRRT3623	 UWCATRRT4023	 UWCATRRT4823	 UWCATRRT5623	 UWCATRRT7223
3 - 0 1/2 (927)	 UWCATRRT3635	 UWCATRRT4035	 UWCATRRT4835	 UWCATRRT5635	 UWCATRRT7235
4 - 0 1/2 (1232)	 UWCATRRT3647	 UWCATRRT4047	 UWCATRRT4847	 UWCATRRT5647	 UWCATRRT7247
5 - 0 1/2 (1537)	 UWCATRRT3659	 UWCATRRT4059	 UWCATRRT4859	 UWCATRRT5659	 UWCATRRT7259
6 - 0 1/2 (1842)	 UWCATRRT3671 T	 UWCATRRT4071 T	 UWCATRRT4871 T	 UWCATRRT5671 T	 UWCATRRT7271 T

Ultimate Wood Casement Transom Picture Round Top: UWCATRRT

Details and Elevations not to scale.

- Rough opening height does not include subsill. If units are not used as transom, add 15/16" to height for subsill.
- Units with basic frame size 25.2 ft² and larger may require tempered glass.

T For safety and/or code requirements, Marvin recommends tempered glass in all units with a frame size height of 71 1/8" or larger and units with basic frame size 25.2 ft².

Please consult your local Marvin representative for more information.

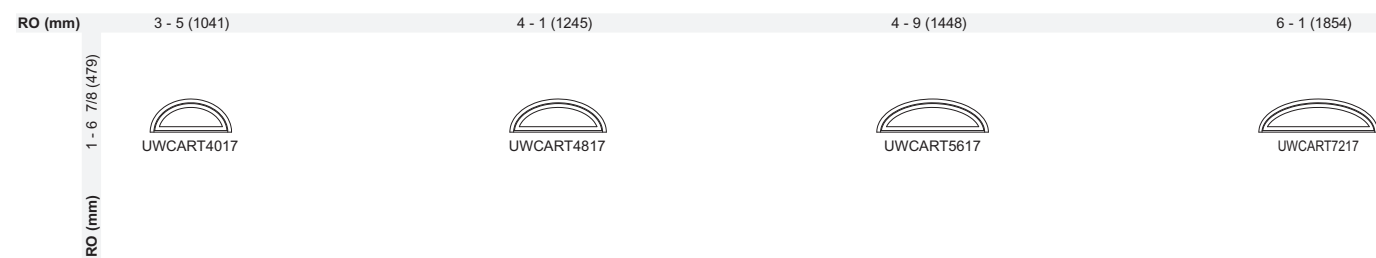
For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

### WOOD CASEMENT PICTURE ROUND TOP

RT1 STANDARD SIZES - IN SASH



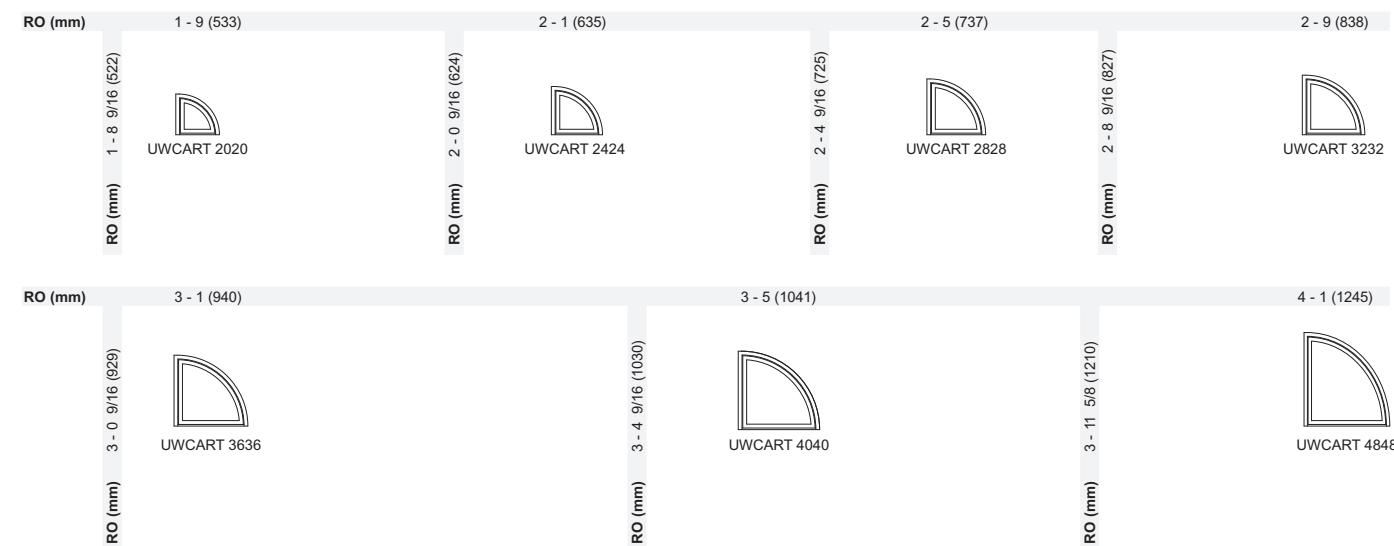
RT29 STANDARD SIZES - IN SASH



### WOOD CASEMENT PICTURE ROUND TOP

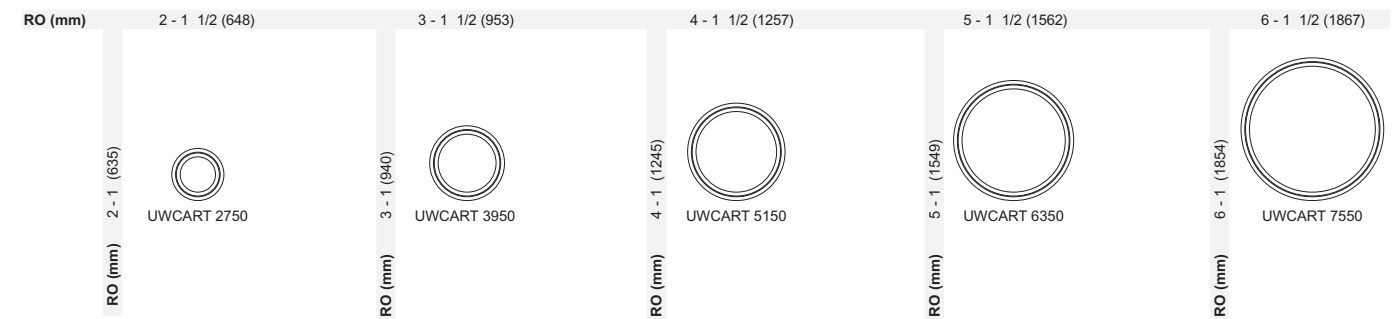
QUARTER CIRCLE

RT15 AND RT16 STANDARD SIZES (RT16 SHOWN) - IN SASH



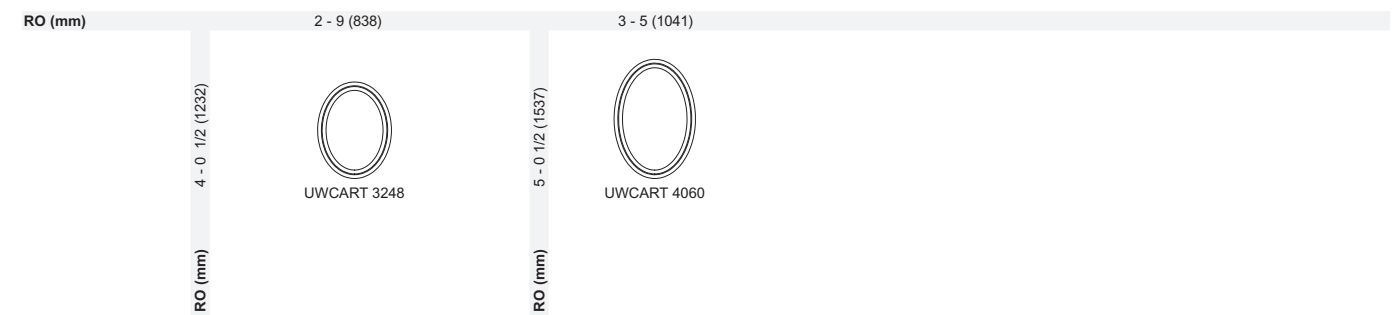
FULL CIRCLE

RT27 STANDARD SIZES - IN SASH



ELLIPSE

RT28 STANDARD SIZES - IN SASH



Ultimate Wood Casement Picture Round Top: UWCART

### WOOD DIRECT GLAZE ROUND TOP – Casement

RT6 EYEBROW ABOVE SPRINGLINE STANDARD SIZES - DIRECT GLAZE

RO (mm)	2 - 1 (635)	2 - 5 (737)	2 - 9 (838)	3 - 1 (940)	3 - 5 (1041)	4 - 1 (1245)	4 - 9 (1448)	6 - 1 (1854)
1 - 1 7/16 (341)								
1 - 7 7/16 (494)								
2 - 1 7/16 (646)								
3 - 1 7/16 (951)								
4 - 1 7/16 (1256)								
5 - 1 7/16 (1561)								
6 - 1 7/16 (1865)								

### WOOD DIRECT GLAZE ROUND TOP – Casement

RT15 AND RT16 STANDARD SIZES (RT16 SHOWN) - DIRECT GLAZE

RO (mm)	1 - 9 (533)	2 - 1 (635)	2 - 5 (737)	2 - 9 (838)	3 - 1 (940)	3 - 5 (1041)	4 - 1 (1245)
1 - 7 5/8 (498)							
1 - 11 5/8 (600)							
2 - 3 5/8 (702)							
2 - 7 5/8 (803)							
2 - 11 5/8 (905)							
3 - 3 5/8 (1006)							
4 - 1 (1245)							

### RT1 TRUE HALF CIRCLE STANDARD SIZES - DIRECT GLAZE

RO (mm)	1 - 9 (533)	2 - 1 (635)	2 - 5 (737)	2 - 9 (838)	3 - 1 (940)
0 - 10 1/2 (287)					
1 - 0 1/2 (318)					
1 - 2 1/2 (368)					
1 - 4 1/2 (419)					
1 - 6 1/2 (470)					
RO (mm)	3 - 5 (1041)	4 - 1 (1245)	4 - 9 (1448)	5 - 1 (1549)	5-5 (1651)
1 - 8 1/2 (621)					
2 - 0 1/2 (622)					
2 - 4 1/2 (724)					
2 - 6 1/2 (775)					
2 - 8 1/2 (826)					
RO (mm)	6 - 1 (1854)	7 - 1 (2159)	8 - 1 (2464)		
3 - 0 1/2 (927)					
3 - 6 1/2 (1080)					
4 - 0 1/2 (1232)					

### RT29 STANDARD SIZES - DIRECT GLAZE

RO (mm)	3 - 5 (1041)	4 - 1 (1245)	4 - 9 (1448)	6 - 1 (1854)	7-1 (2159)
1 - 5 15/16 (456)					

Details and Elevations not to scale.

Please consult your local Marvin representative for masonry openings that include casings.

For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

Ultimate Wood Direct Glaze Round Top: UWDGRT

### WOOD DIRECT GLAZE ROUND TOP – Casement

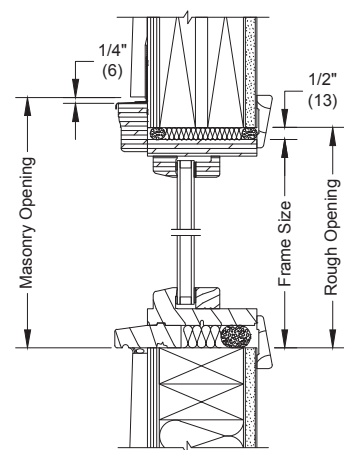
RT27 FULL CIRCLE STANDARD SIZES - DIRECT GLAZE

RO (mm)	2-1 1/2 (648)	3-1 1/2 (953)	4-1 1/2 (1257)
RO (mm)	2-1 1/2 (648)	3-1 1/2 (953)	4-1 1/2 (1257)
	UWDGRT 2750	UWDGRT 3950	UWDGRT 5150

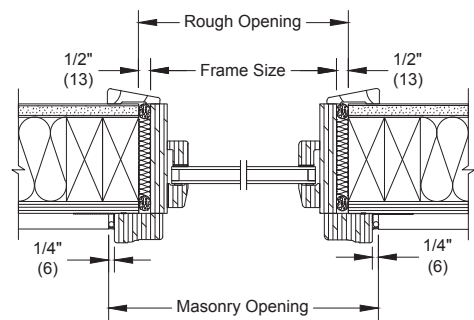
RT28 ELLIPSE STANDARD SIZES - DIRECT GLAZE

RO (mm)	2-1 (635)	2-9 (838)	3-5 (1041)
RO (mm)	3-1 (940)	4-1 (1245)	5-1 (1549)
	UWDGRT 2436	UWDGRT 3248	UWDGRT 4060

### CONSTRUCTION DETAILS



HEAD JAMB AND SILL - DIRECT GLAZE



JAMB - DIRECT GLAZE

### CASEMENT ROUND TOP

RT6 EYEBROW ABOVE SPRINGLINE STANDARD SIZES - OPERATOR AND STATIONARY

RO (mm)	1 - 5 (432)	1 - 7 (483)	1 - 9 (533)	2 - 1 (635)	2 - 3 (686)	2 - 5 (737)	2 - 7 (787)	2 - 9 (838)	2 - 9 (838)	3 - 1 (940)
2 - 7 5/8 (803)	UCART1632	UCART1832	UCART2032							
2 - 11 5/8 (905)	UCART1636	UCART1836	UCART2036	UCART2436						
3 - 3 5/8 (1006)	UCART1640	UCART1840	UCART2040	UCART2440	UCART2640	UCART2840				
3 - 7 5/8 (1108)	UCART1644	UCART1844	UCART2044	UCART2444	UCART2644	UCART2844 E	UCART3044 E			
3 - 11 5/8 (1210)	UCART1648	UCART1848	UCART2048	UCART2448	UCART2648 E	UCART2848 E	UCART3048 E	UCART3248 E		
4 - 5 5/8 (1362)	UCART1654	UCART1854	UCART2054	UCART2454	UCART2654 E	UCART2854 E	UCART3054 E	UCART3254 E	UCART3654 E	

Ultimate Casement Round Top: UCART

### CASEMENT ROUND TOP

RT6 EYEBROW ABOVE SPRINGLINE STANDARD SIZES - OPERATOR AND STATIONARY

RO (mm)	1 - 5 (432)	1 - 7 (483)	1 - 9 (533)	2 - 1 (635)	2 - 3 (686)	2 - 5 (737)	2 - 7 (787)	2 - 9 (838)	3 - 1 (940)	3 - 5 (1041)
4 - 7 5/8 (1413)										
4 - 11 5/8 (1514)										
5 - 3 5/8 (1616)										
5 - 11 5/8 (1819)										
6 - 5 5/8 (1972)										

Details and Elevations not to scale.

- Marvin exclusive wash mode is not available on Ultimate Casement Round Tops.

E These windows meet national Egress codes for fire evacuation. Local codes may differ.

T For safety and/or code requirements, Marvin recommends tempered glass in all units with a frame size height of 71 1/8" or larger and units with basic frame size 25.2 ft².

Please consult your local Marvin representative for more information.

For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

### CASEMENT ROUND TOP

RT6 EYEBROW ABOVE SPRINGLINE STANDARD SIZES - OPERATOR AND STATIONARY

RO (mm)	1 - 5 (432)	1 - 7 (483)	1 - 9 (533)	2 - 1 (635)	2 - 3 (686)	2 - 5 (737)	2 - 7 (787)	2 - 9 (838)	3 - 1 (940)	3 - 5 (1041)
6 - 11 5/8 (2124)										
7 - 7 5/8 (2327)										
7 - 11 5/8 (2429)										

Details and Elevations not to scale.

- Marvin exclusive wash mode is not available on Ultimate Casement Round Tops.

- Rough opening height includes 15/16" subsill.

T For safety and/or code requirements, Marvin recommends tempered glass in all units with a frame size height of 71 1/8" or larger and units with basic frame size 25.2 ft².






































E These windows meet national Egress codes for fire evacuation. Local codes may differ.

Please consult your local Marvin representative for more information.

For further details and drawings visit the 'Technical Specifications' section at Marvin.com.










### CASEMENT ROUND TOP

RT21 / RT22 TWO WIDE STANDARD SIZES - OPERATOR AND STATIONARY

RO (mm)	2-9 (838)	3-1 (940)	3-5 (1041)	4-1 (1245)	4-5 (1346)	4-9 (1448)
2-7 5/8 (803)	 UCART1632					
2-11 5/8 (905)	 UCART1636	 UCART1836	 UCART2036			
3-3 5/8 (1006)	 UCART1640	 UCART1840	 UCART2040	 UCART2440		
3-7 5/8 (1108)	 UCART1644	 UCART1844	 UCART2044	 UCART2444		 UCART2844
3-11 5/8 (1210)	 UCART1648	 UCART1848	 UCART2048	 UCART2448	 UCART2648	 UCART2848 E
4-5 5/8 (1362)	 UCART1654	 UCART1854	 UCART2054	 UCART2454	 UCART2654	 UCART2854 E
4-7 5/8 (1413)	 UCART1656	 UCART1856	 UCART2056	 UCART2456	 UCART2656	 UCART2856 E
4-11 5/8 (1514)	 UCART1660	 UCART1860	 UCART2060	 UCART2460	 UCART2660	 UCART2860 E

### CASEMENT ROUND TOP

RT21 / RT22 TWO WIDE STANDARD SIZES - OPERATOR AND STATIONARY

RO (mm)	5-1 (1549)	5-5 (1651)	6-1 (1854)
3-11 5/8 (1210)	 UCART3048 E		
4-5 5/8 (1362)	 UCART3054 E	 UCART3254 E	
4-7 5/8 (1413)	 UCART3056 E	 UCART3256 E	 UCART3656 E
4-11 5/8 (1514)	 UCART3060 E	 UCART3260 E	 UCART3660 E

Details and Elevations not to scale.

- Marvin exclusive wash mode is not available on Ultimate Casement Round Tops.
- Rough opening height includes 15/16" subsill.

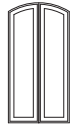
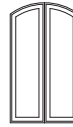
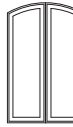
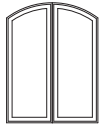
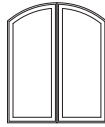
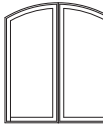
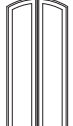
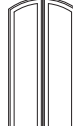
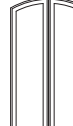
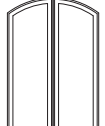
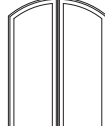
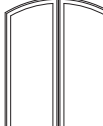
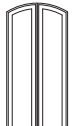
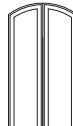
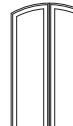
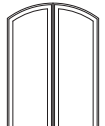
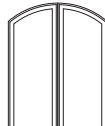
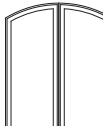
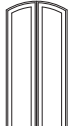
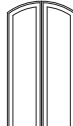
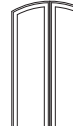
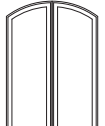
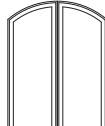
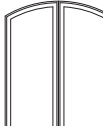
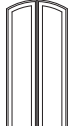
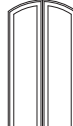
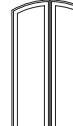
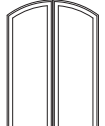
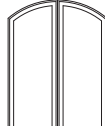
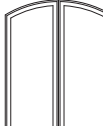
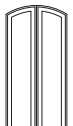
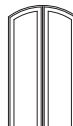
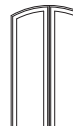
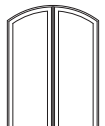
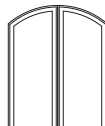
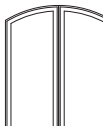
E These windows meet national Egress codes for fire evacuation. Local codes may differ.

T For safety and/or code requirements, Marvin recommends tempered glass in all units with a frame size height of 71 1/8" or larger and units with basic frame size 25.2 ft². Please consult your local Marvin representative for more information.

For further details and drawings visit the 'Technical Specifications' section at Marvin.com.


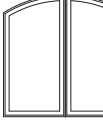
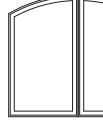
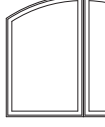
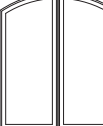
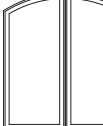
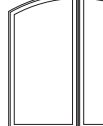
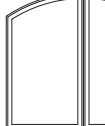
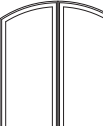
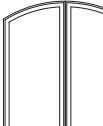
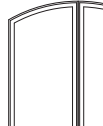
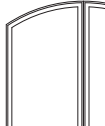
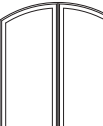
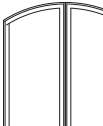
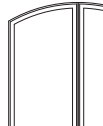
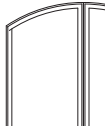
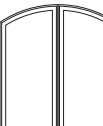
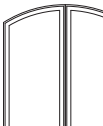
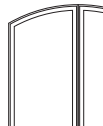
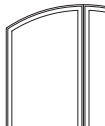
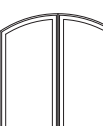
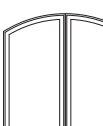
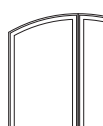
### CASEMENT ROUND TOP

RT21 / RT22 TWO WIDE STANDARD SIZES - OPERATOR AND STATIONARY

RO (mm)	2-9 (838)	3-1 (940)	3-5 (1041)	4-1 (1245)	4-5 (1346)	4-9 (1448)
5-3 5/8 (1616)	 UCART1664	 UCART1864	 UCART2064	 UCART2464	 UCART2664	 UCART2864 E
5-11 5/8 (1819)	 UCART1672 T	 UCART1872 T	 UCART2072 T	 UCART2472 T	 UCART2672 T	 UCART2872 T
6-5 5/8 (1972)	 UCART1678 T	 UCART1878 T	 UCART2078 T	 UCART2478 T	 UCART2678 T	 UCART2878 T
6-11 5/8 (2124)	 UCART1684 T	 UCART1884 T	 UCART2084 T	 UCART2484 T	 UCART2684 T	 UCART2884 T
7-7 5/8 (2327)	 UCART1692 T	 UCART1892 T	 UCART2092 T	 UCART2492 T	 UCART2692 T	 UCART2892 T
7-11 5/8 (2429)	 UCART1696 T	 UCART1896 T	 UCART2096 T	 UCART2496 T	 UCART2696 T	 UCART2896 T

### CASEMENT ROUND TOP

RT21 / RT22 TWO WIDE STANDARD SIZES - OPERATOR AND STATIONARY

RO (mm)	5-1 (1549)	5-5 (1651)	6-1 (1854)	6-9 (2057)
5-3 5/8 (1616)	 UCART3064 E	 UCART3264 E	 UCART3664 E	 UCART4064 E
5-11 5/8 (1819)	 UCART3072 T	 UCART3272 T	 UCART3672 T	 UCART4072 T
6-5 5/8 (1972)	 UCART3078 T	 UCART3278 T	 UCART3678 T	 UCART4078 T
6-11 5/8 (2124)	 UCART3084 T	 UCART3284 T	 UCART3684 T	 UCART4084 T
7-7 5/8 (2327)	 UCART3092 T	 UCART3292 T	 UCART3692 T	 UCART4092 T
7-11 5/8 (2429)	 UCART3096 T	 UCART3296 T	 UCART3696 T	

Details and Elevations not to scale.

- Marvin exclusive wash mode is not available on Ultimate Casement Round Tops.

E These windows meet national Egress codes for fire evacuation. Local codes may differ.

T For safety and/or code requirements, Marvin recommends tempered glass in all units with a frame size height of 71 1/8" or larger and units with basic frame size 25.2 ft².































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


























### CASEMENT ROUND TOP

RT2 STANDARD SIZES OPERATOR AND STATIONARY

RO (mm)	2 - 1 (635)	2 - 3 (686)	2 - 5 (737)	2 - 7 (787)	2 - 9 (838)	3 - 1 (940)	3 - 5 (1041)
3 - 7 5/8 (1108)	 UCART2444						
3 - 11 5/8 (1210)	 UCART2448	 UCART2648					
4 - 5 5/8 (1362)	 UCART2454	 UCART2654	 UCART2854	 UCART3054			
4 - 7 5/8 (1413)	 UCART2456	 UCART2656	 UCART2856	 UCART3056 E	 UCART3256 E		
4 - 11 5/8 (1514)	 UCART2460	 UCART2660 E	 UCART2860 E	 UCART3060 E	 UCART3260 E		
5 - 3 5/8 (1616)	 UCART2464 E	 UCART2664 E	 UCART2864 E	 UCART3064 E	 UCART3264 E	 UCART3664 E	
5 - 11 5/8 (1819)	 UCART2472 T	 UCART2672 T	 UCART2872 T	 UCART3072 T	 UCART3272 T	 UCART3672 T	 UCART4072 T

### CASEMENT ROUND TOP

RT2 STANDARD SIZES OPERATOR AND STATIONARY

RO (mm)	2 - 1 (635)	2 - 3 (686)	2 - 5 (737)	2 - 7 (787)	2 - 9 (838)	3 - 1 (940)	3 - 5 (1041)
6 - 5 5/8 (1972)	 UCART2478 T	 UCART2678 T	 UCART2878 T	 UCART3078 T	 UCART3278 T	 UCART3678 T	 UCART4078 T
6 - 11 5/8 (2124)	 UCART2484 T	 UCART2684 T	 UCART2884 T	 UCART3084 T	 UCART3284 T	 UCART3684 T	 UCART4084 T
7 - 7 5/8 (2327)	 UCART2492 T	 UCART2692 T	 UCART2892 T	 UCART3092 T	 UCART3292 T	 UCART3692 T	 UCART4092 T
7 - 11 5/8 (2429)	 UCART2496 T	 UCART2696 T	 UCART2896 T	 UCART3096 T	 UCART3296 T	 UCART3696 T	

Details and Elevations not to scale.

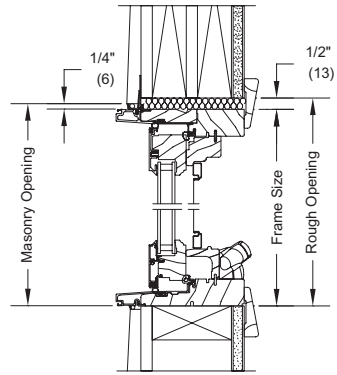
T For safety and/or code requirements, Marvin recommends tempered glass in all units with a frame size height of 71 1/8" or larger and units with basic frame size 25.2 ft².

Please consult your local Marvin representative for more information.

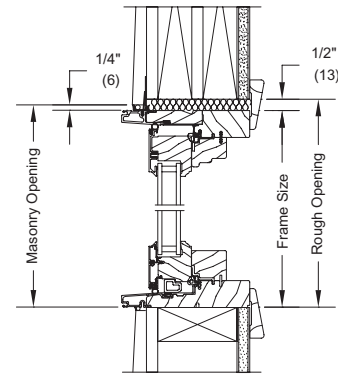
For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

### CASEMENT ROUND TOP

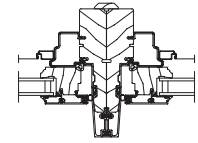
#### CONSTRUCTION DETAILS



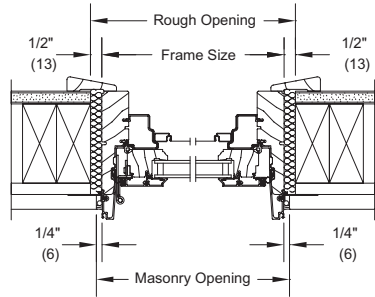
HEAD JAMB AND SILL - OPERATOR



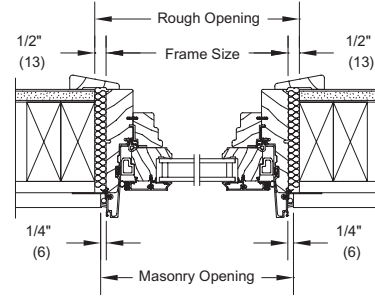
HEAD JAMB AND SILL - STATIONARY



VERTICAL MULLION OPERATOR



JAMB - OPERATOR



JAMB - STATIONARY

### CASEMENT PICTURE ROUND TOP

#### RT6 STANDARD SIZES STATIONARY UNITS AS PICTURE - IN SASH

RO (mm)	2 - 1 (635)	2 - 3 (685)	2 - 5 (736)	2 - 7 (787)	2 - 9 (838)
1 - 6 1/2 (470)	UCAPRT2419	UCAPRT2619	UCAPRT2819	UCAPRT3019	UCAPRT3219
2 - 0 1/2 (622)	UCAPRT2423	UCAPRT2623	UCAPRT2823	UCAPRT3023	UCAPRT3223
3 - 0 1/2 (927)	UCAPRT2435	UCAPRT2635	UCAPRT2835	UCAPRT3035	UCAPRT3235
4 - 0 1/2 (1232)	UCAPRT2447	UCAPRT2647	UCAPRT2847	UCAPRT3047	UCAPRT3247
5 - 0 1/2 (1537)	UCAPRT2459	UCAPRT2659	UCAPRT2859	UCAPRT3059	UCAPRT3259
6 - 0 1/2 (1842)	UCAPRT2471 T	UCAPRT2671 T	UCAPRT2871 T	UCAPRT3071 T	UCAPRT3271 T

Details and Elevations not to scale.  
 T For safety and/or code requirements, Marvin recommends tempered glass in all units with a frame size height of 71 1/8" or larger and units with basic frame size 25.2 ft<sup>2</sup>.  
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Ultimate Casement Picture Round Top: UCAPRT

### CASEMENT PICTURE ROUND TOP

RT6 STANDARD SIZES STATIONARY UNITS AS PICTURE - IN SASH

RO (mm)	3 - 1 (939)	3 - 5 (1041)	4 - 1 (1245)	4 - 9 (1448)	6 - 1 (1854)
1 - 6 1/2 (470)	UCAPRT3619	UCAPRT4019	UCAPRT4819	UCAPRT5619	UCAPRT7219
2 - 0 1/2 (622)	UCAPRT3623	UCAPRT4023	UCAPRT4823	UCAPRT5623	UCAPRT7223
3 - 0 1/2 (927)	UCAPRT3635	UCAPRT4035	UCAPRT4835	UCAPRT5635	UCAPRT7235
4 - 0 1/2 (1232)	UCAPRT3647	UCAPRT4047	UCAPRT4847	UCAPRT5647	UCAPRT7247
5 - 0 1/2 (1537)	UCAPRT3659	UCAPRT4059	UCAPRT4859	UCAPRT5659	UCAPRT7259
6 - 0 1/2 (1842)	UCAPRT3671 T	UCAPRT4071 T	UCAPRT4871 T	UCAPRT5671 T	UCAPRT7271 T

### CASEMENT PICTURE ROUND TOP

RT1 STANDARD SIZES - IN SASH

RO (mm)	2 - 1 (635)	2 - 5 (737)	2 - 9 (838)	3 - 1 (940)
1 - 0 1/2 (318)	UCART2412	UCART2814	UCART3216	UCART3218
1 - 2 1/2 (368)				
1 - 8 1/2 (621)	UCART4020	UCART4824	UCART5628	UCART6030
2 - 0 1/2 (622)				
2 - 4 1/2 (724)				
2 - 6 1/2 (775)				
RO (mm)	5 - 5 (1651)	6 - 1 (1854)	7 - 1 (2159)	8 - 1 (2464)
2 - 8 1/2 (826)	UCART6432	UCART7236	UCART8442	UCART9648
3 - 0 1/2 (927)				
3 - 6 1/2 (1080)				
4 - 0 1/2 (1232)				
RO (mm)	9 - 1 (2769)	10 - 1 (3073)		
4 - 6 1/2 (1384)	UCART10854	UCART12060		
5 - 0 1/2 (1537)				

RT29 STANDARD SIZES - IN SASH

RO (mm)	3 - 5 (1041)	4 - 1 (1245)	4 - 9 (1448)	6 - 1 (1854)
1 - 5 15/16 (456)	UCART4017	UCART4817	UCART5617	UCART7217

Details and Elevations not to scale.

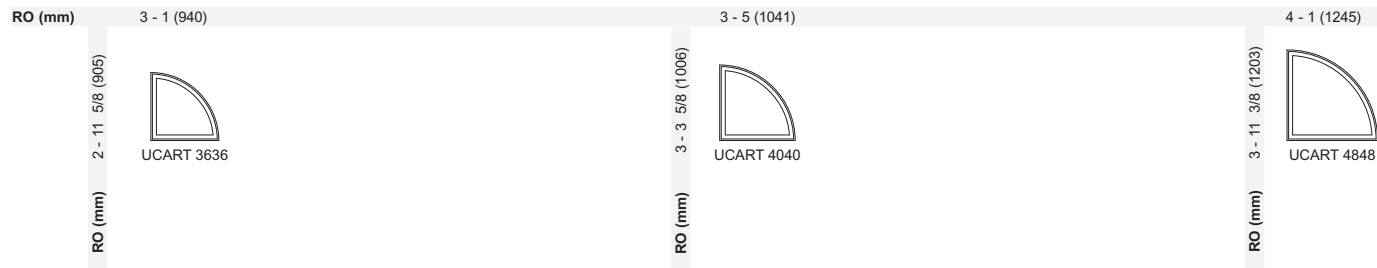
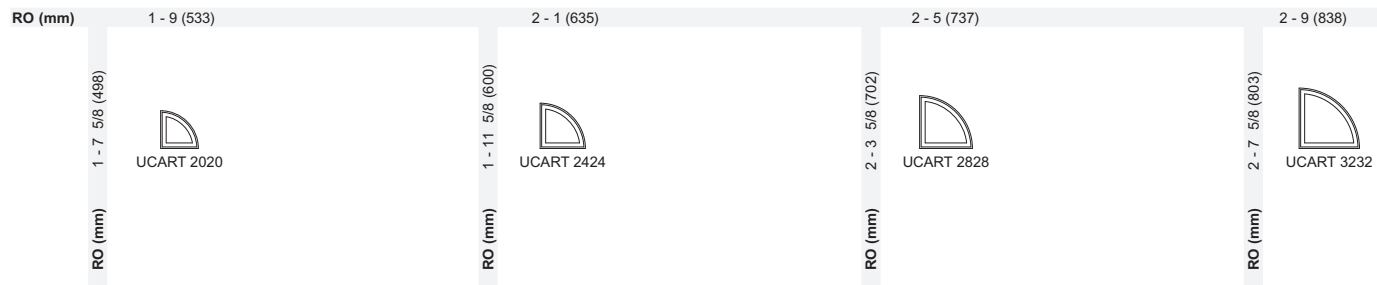
- Units with basic frame size 25.2 ft² and larger may require tempered glass.

Please consult your local Marvin representative for more information.

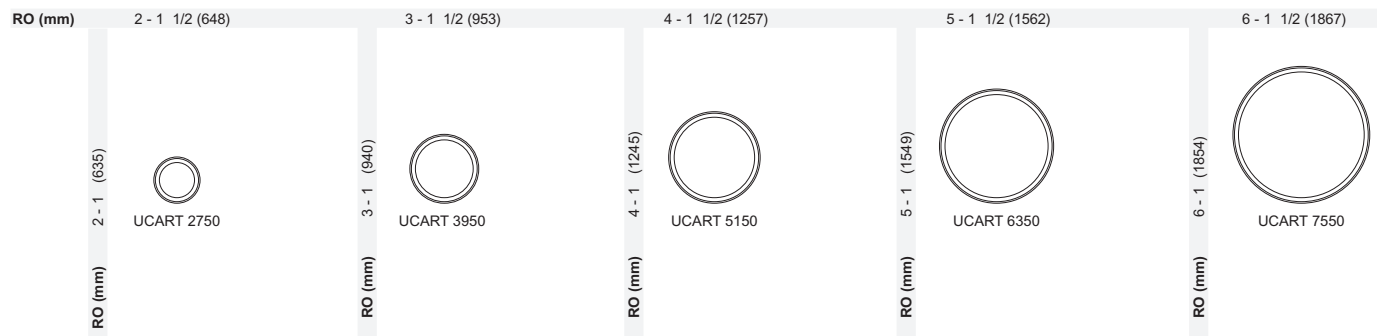
For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

### CASEMENT PICTURE ROUND TOP

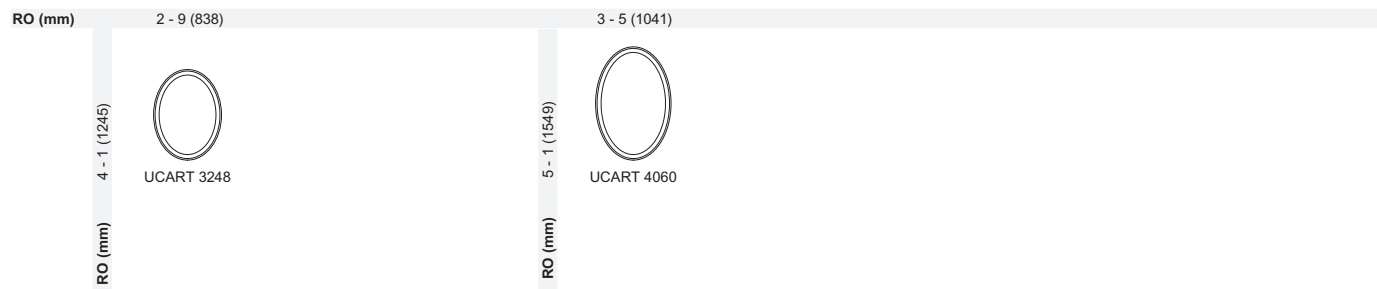
QUARTER CIRCLE  
RT15 AND RT16 STANDARD SIZES (RT16 SHOWN) - IN SASH



FULL CIRCLE  
RT27 STANDARD SIZES - IN SASH



ELLIPSE  
RT28 STANDARD SIZES - IN SASH

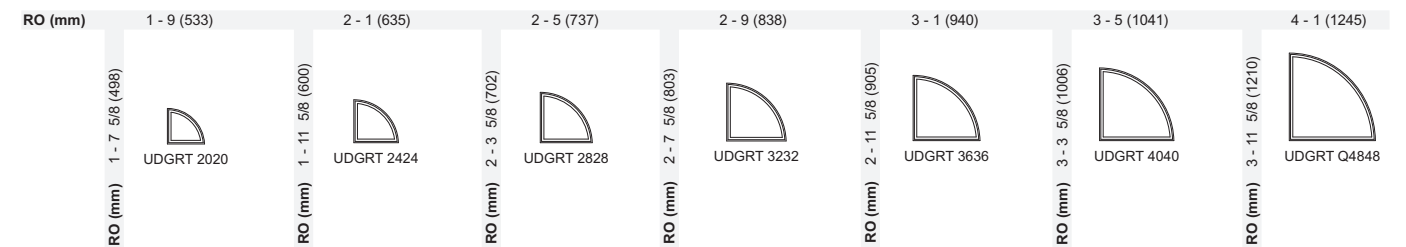


### DIRECT GLAZE ROUND TOP – Casement

RT6 EYEBROW ABOVE SPRINGLINE STANDARD SIZES - DIRECT GLAZE

RO (mm)	2 - 1 (635)	2 - 5 (737)	2 - 9 (838)	3 - 1 (940)	3 - 5 (1041)	4 - 1 (1245)	4 - 9 (1448)	6 - 1 (1854)
1 - 0 1/2 (318)	UDGRT2411	UDGRT2811	UDGRT3211	UDGRT3611	UDGRT4011			
1 - 6 1/2 (470)	UDGRT2419	UDGRT2819	UDGRT3219	UDGRT3619	UDGRT4019	UDGRT4819	UDGRT5619	UDGRT7219
2 - 0 1/2 (622)	UDGRT2423	UDGRT2823	UDGRT3223	UDGRT3623	UDGRT4023	UDGRT4823	UDGRT5623	UDGRT7223
3 - 0 1/2 (927)	UDGRT2435	UDGRT2835	UDGRT3235	UDGRT3635	UDGRT4035	UDGRT4835	UDGRT5635	UDGRT7235
4 - 0 1/2 (1232)	UDGRT2447	UDGRT2847	UDGRT3247	UDGRT3647	UDGRT4047	UDGRT4847	UDGRT5647	UDGRT7247
5 - 0 1/2 (1537)	UDGRT2459	UDGRT2859	UDGRT3259	UDGRT3659	UDGRT4059	UDGRT4859	UDGRT5659	UDGRT7259
6 - 0 1/2 (1842)	UDGRT2471	UDGRT2871	UDGRT3271	UDGRT3671	UDGRT4071	UDGRT4871	UDGRT5671	UDGRT7271

RT15 AND RT16 STANDARD SIZES (RT16 SHOWN)



Ultimate Direct Glaze Round Top: UDGRT

**DIRECT GLAZE ROUND TOP – Casement**

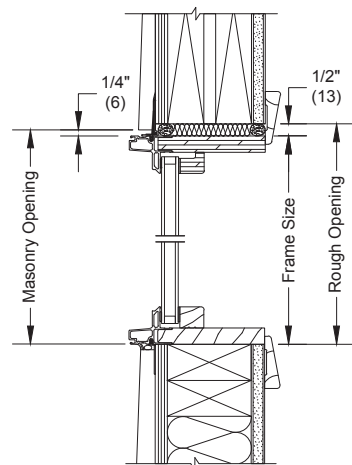
RT1 TRUE HALF CIRCLE STANDARD SIZES - DIRECT GLAZE

RO (mm)	1 - 9 (533)	2 - 1 (635)	2 - 5 (737)	2 - 9 (838)	3 - 1 (940)
RO (mm)	0 - 10 1/2 (267)	1 - 0 1/2 (318)	1 - 2 1/2 (368)	1 - 4 1/2 (419)	1 - 6 1/2 (470)
	UDGRT2010	UDGRT2412	UDGRT2814	UDGRT3216	UDGRT3618
RO (mm)	3 - 5 (1041)	4 - 1 (1245)	4 - 9 (1448)	5 - 1 (1549)	5-5 (1651)
RO (mm)	1 - 8 1/2 (521)	2 - 0 1/2 (622)	2 - 4 1/2 (724)	2 - 6 1/2 (775)	2 - 8 1/2 (826)
	UDGRT4020	UDGRT4824	UDGRT5628	UDGRT6026	UDGRT6432
RO (mm)	6 - 1 (1854)	7 - 1 (2159)	8 - 1 (2464)		
RO (mm)	3 - 0 1/2 (827)	3 - 6 1/2 (1080)	4 - 0 1/2 (1232)		
	UDGRT7236	UDGRT8442	UDGRT9648		

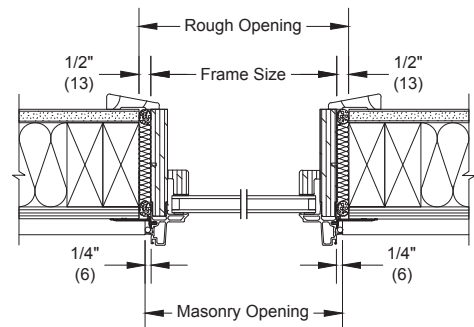
RT29 STANDARD SIZES - DIRECT GLAZE

RO (mm)	3 - 5 (1041)	4 - 1 (1245)	4 - 9 (1448)	6 - 1 (1854)	7-1 (2159)
RO (mm)	1 - 5 15/16 (456)				
	UDGRT4017	UDGRT4817	UDGRT5617	UDGRT7217	UDGRT8417

CONSTRUCTION DETAILS



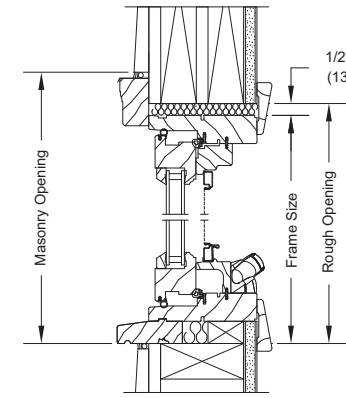
HEAD JAMB AND SILL - DIRECT GLAZE



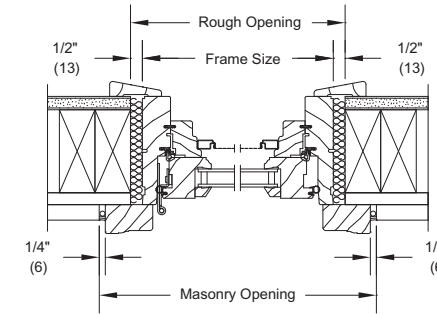
JAMB - DIRECT GLAZE

**CASEMENT POLYGON**

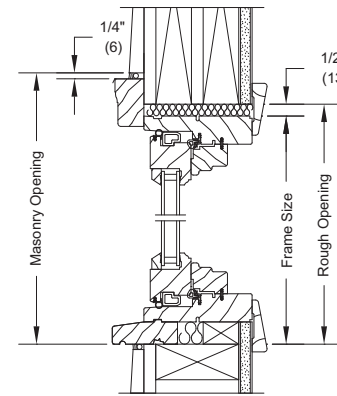
CONSTRUCTION DETAILS



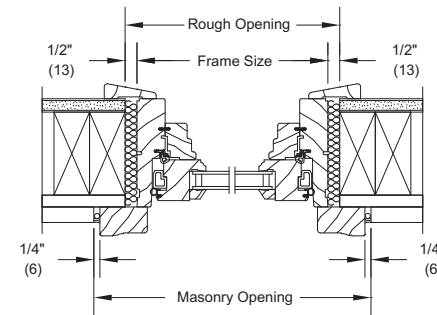
HEAD JAMB AND SILL - OPERATOR



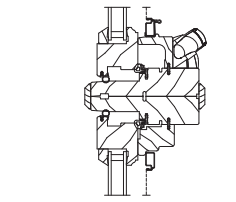
JAMB - OPERATOR



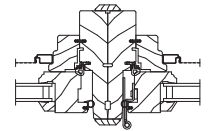
HEAD JAMB AND SILL - STATIONARY



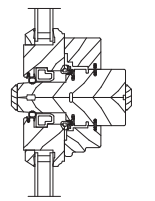
JAMB - STATIONARY



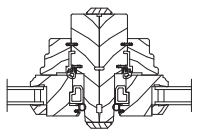
HORIZONTAL MULLION OPERATOR



VERTICAL MULLION OPERATOR



HORIZONTAL MULLION STATIONARY

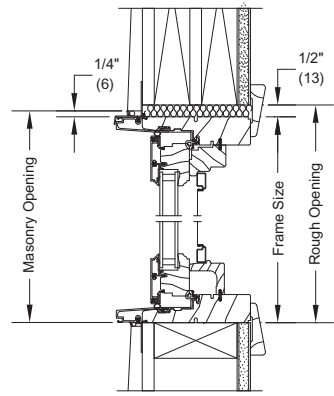


VERTICAL MULLION STATIONARY

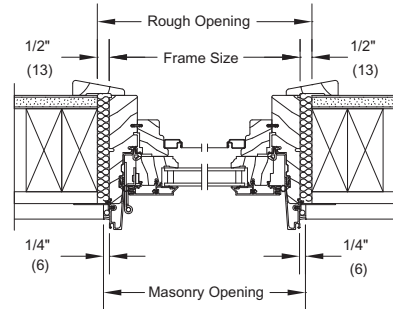
Details and Elevations not to scale.  
Please consult your local Marvin representative for more information.  
For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

**CASEMENT POLYGON**

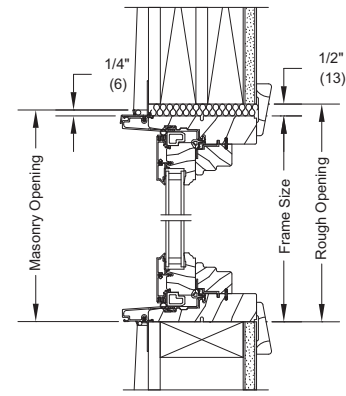
CONSTRUCTION DETAILS



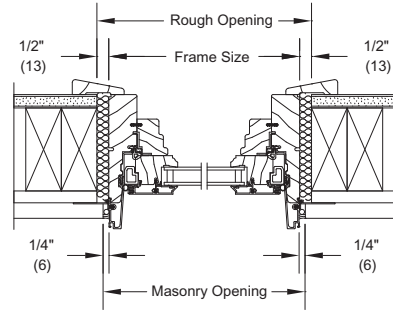
HEAD JAMB AND SILL - OPERATOR



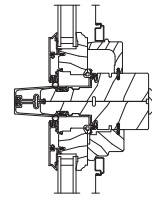
JAMB - OPERATOR



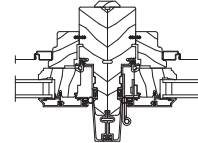
HEAD JAMB AND SILL - STATIONARY



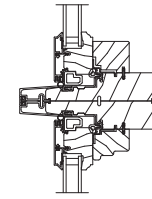
JAMB - STATIONARY



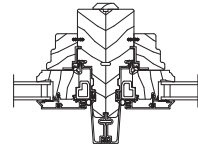
HORIZONTAL MULLION OPERATOR



VERTICAL MULLION OPERATOR



HORIZONTAL MULLION STATIONARY




















































VERTICAL MULLION STATIONARY

**CASEMENT VENTING PICTURE**

MO (mm)	1 - 4 1/2 (419)	1 - 6 1/2 (470)	1 - 8 1/2 (521)	2 - 0 1/2 (622)	2 - 2 1/2 (673)	2 - 4 1/2 (724)	2 - 6 1/2 (775)	2 - 8 1/2 (826)
RO (mm)	1 - 5 (492)	1 - 7 (483)	1 - 9 (533)	2 - 1 (635)	2 - 3 (686)	2 - 5 (737)	2 - 7 (787)	2 - 9 (838)
FS (mm)	1 - 4 (406)	1 - 6 (457)	1 - 8 (508)	2 - 0 (610)	2 - 2 (660)	2 - 4 (711)	2 - 6 (762)	2 - 8 (813)
DLO (mm)	0 - 10 3/16 (259)	1 - 0 3/16 (310)	1 - 2 3/16 (360)	1 - 6 3/16 (462)	1 - 8 3/16 (513)	1 - 10 3/16 (564)	2 - 0 3/16 (614)	2 - 2 3/16 (665)
2 - 11 3/8 (898)								
2 - 11 5/8 (904)								
2 - 11 1/8 (892)								
2 - 5 21/64 (745)								
3 - 3 3/8 (1000)								
3 - 3 5/8 (1006)								
3 - 3 1/8 (993)								
2 - 9 21/64 (847)								
3 - 7 3/8 (1101)								
3 - 7 5/8 (1106)								
3 - 7 1/8 (1095)								
3 - 1 21/64 (848)								
3 - 11 3/8 (1203)								
3 - 11 5/8 (1209)								
3 - 11 1/8 (1196)								
3 - 5 21/64 (1050)								
4 - 5 3/8 (1355)								
4 - 5 5/8 (1362)								
4 - 5 1/8 (1349)								
3 - 11 21/64 (1202)								
4 - 7 3/8 (1406)								
4 - 7 5/8 (1412)								
4 - 7 1/8 (1400)								
4 - 1 21/64 (1253)								
4 - 11 3/8 (1508)								
4 - 11 5/8 (1514)								
4 - 11 1/8 (1501)								
4 - 5 21/64 (1355)								

















































Ultimate Casement Venting Picture: UCAVP

CASEMENT VENTING PICTURE

MO (mm)	3 - 0 1/2 (927)	3 - 4 1/2 (1029)	4 - 0 1/2 (1232)	4 - 8 1/2 (1435)	5 - 0 1/2 (1537)	5 - 4 1/2 (1638)	6 - 0 1/2 (1842)
RO (mm)	3 - 1 (940)	3 - 5 (1041)	4 - 1 (1245)	4 - 9 (1448)	5 - 1 (1549)	5 - 5 (1651)	6 - 1 (1854)
FS (mm)	3 - 0 (914)	3 - 4 (1016)	4 - 0 (1219)	4 - 8 (1422)	5 - 0 (1524)	5 - 4 (1626)	6 - 0 (1829)
DLO (mm)	2 - 6 3/16 (767)	2 - 10 3/16 (868)	3 - 6 3/16 (1072)	4 - 2 3/16 (1275)	4 - 6 3/16 (1376)	4 - 10 3/16 (1478)	5 - 6 3/16 (1681)
2 - 11 3/8 (898) 2 - 11 5/8 (904) 2 - 11 1/8 (892) 2 - 5 21/64 (745)	 UCAVP3636	 UCAVP4036	 UCAVP4836*	 UCAVP5636*	 UCAVP6036*	 UCAVP6436*	 UCAVP7236*
3 - 3 3/8 (1000) 3 - 3 5/8 (1006) 3 - 3 1/8 (993) 2 - 9 21/64 (847)	 UCAVP3640	 UCAVP4040	 UCAVP4840*	 UCAVP5640*	 UCAVP6040*	 UCAVP6440*	 UCAVP7240*
3 - 7 3/8 (1101) 3 - 7 5/8 (1108) 3 - 7 1/8 (1095) 3 - 1 21/64 (848)	 UCAVP3644	 UCAVP4044	 UCAVP4844*	 UCAVP5644*	 UCAVP6044*	 UCAVP6444*	 UCAVP7244*
3 - 11 3/8 (1203) 3 - 11 5/8 (1209) 3 - 11 1/8 (1196) 3 - 5 21/64 (1050)	 UCAVP3648	 UCAVP4048	 UCAVP4848	 UCAVP5648*	 UCAVP6048*	 UCAVP6448*	 UCAVP7248*
4 - 5 3/8 (1365) 4 - 5 5/8 (1362) 4 - 5 1/8 (1349) 3 - 11 21/64 (1202)	 UCAVP3654	 UCAVP4054	 UCAVP4854	 UCAVP5654*	 UCAVP6054*	 UCAVP6454*	 UCAVP7254*
4 - 7 3/8 (1406) 4 - 7 5/8 (1412) 4 - 7 1/8 (1400) 4 - 1 21/64 (1253)	 UCAVP3656	 UCAVP4056	 UCAVP4856	 UCAVP5656*	 UCAVP6056*	 UCAVP6456*	 UCAVP7256*
4 - 11 3/8 (1508) 4 - 11 5/8 (1514) 4 - 11 1/8 (1501) 4 - 5 21/64 (1355)	 UCAVP3660	 UCAVP4060	 UCAVP4860	 UCAVP5660*	 UCAVP6060*	 UCAVP6460*	 UCAVP7260*

Details and Elevations not to scale.  
 \* Units will have structural cable on the head and sill.  
 Please consult your local Marvin representative for more information.  
 For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

CASEMENT VENTING PICTURE

MO (mm)	1 - 4 1/2 (419)	1 - 6 1/2 (470)	1 - 8 1/2 (521)	2 - 0 1/2 (622)	2 - 2 1/2 (673)	2 - 4 1/2 (724)	2 - 6 1/2 (775)	2 - 8 1/2 (826)
RO (mm)	1 - 5 (492)	1 - 7 (483)	1 - 9 (533)	2 - 1 (635)	2 - 3 (686)	2 - 5 (737)	2 - 7 (787)	2 - 9 (838)
FS (mm)	1 - 4 (406)	1 - 6 (457)	1 - 8 (508)	2 - 0 (610)	2 - 2 (660)	2 - 4 (711)	2 - 6 (762)	2 - 8 (813)
DLO (mm)	0 - 10 3/16 (259)	1 - 0 3/16 (310)	1 - 2 3/16 (360)	1 - 6 3/16 (462)	1 - 8 3/16 (513)	1 - 10 3/16 (564)	2 - 0 3/16 (614)	2 - 2 3/16 (665)
5 - 3 3/8 (1609) 5 - 3 5/8 (1616) 5 - 3 1/8 (1603) 4 - 9 21/64 (1456)	 UCAVP1664	 UCAVP1864	 UCAVP2064	 UCAVP2464	 UCAVP2664	 UCAVP2864	 UCAVP3064	 UCAVP3264
5 - 11 3/8 (1812) 5 - 11 5/8 (1819) 5 - 11 1/8 (1806) 5 - 5 21/64 (1659)	 UCAVP1672 T	 UCAVP1872 T	 UCAVP2072 T	 UCAVP2472 T	 UCAVP2672 T	 UCAVP2872 T	 UCAVP3072 T	 UCAVP3272 T
6 - 5 3/8 (1965) 6 - 5 5/8 (1971) 6 - 5 1/8 (1958) 5 - 11 21/64 (1812)	 UCAVP1678 T	 UCAVP1878 T	 UCAVP2078 T	 UCAVP2478 T	 UCAVP2678 T	 UCAVP2878 T	 UCAVP3078 T	 UCAVP3278 T
6 - 11 3/8 (2117) 6 - 11 5/8 (2124) 6 - 11 1/8 (2111) 6 - 5 21/64 (1964)	 UCAVP1684 T	 UCAVP1884 T	 UCAVP2084 T	 UCAVP2484 T	 UCAVP2684 T	 UCAVP2884 T	 UCAVP3084 T	 UCAVP3284 T
7 - 7 3/8 (2320) 7 - 7 5/8 (2327) 7 - 7 1/8 (2314) 7 - 1 21/64 (2167)	 UCAVP1692 T	 UCAVP1892 T	 UCAVP2092 T	 UCAVP2492 T	 UCAVP2692 T	 UCAVP2892 T	 UCAVP3092 T	 UCAVP3292 T
7 - 11 3/8 (2422) 7 - 11 5/8 (2428) 7 - 11 1/8 (2416) 7 - 5 21/64 (2269)	 UCAVP1696 T	 UCAVP1896 T	 UCAVP2096 T	 UCAVP2496 T	 UCAVP2696 T	 UCAVP2896 T	 UCAVP3096 T	 UCAVP3296 T

Details and Elevations not to scale.  
 \* Units will have structural cable on the head and sill.  
 T For safety and/or code requirements, Marvin recommends tempered glass in all units with a frame size height of 71 1/8" or larger and units with frame size 25.2 ft² and larger.  
 Please consult your local Marvin representative for more information.  
 For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

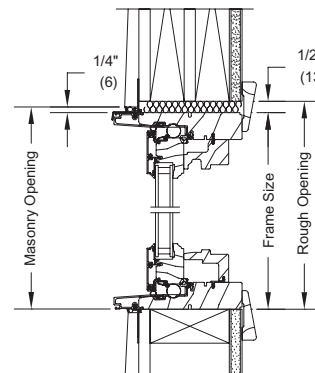
**CASEMENT VENTING PICTURE**

<b>MO (mm)</b>	3 - 0 1/2 (927)	3 - 4 1/2 (1029)	4 - 0 1/2 (1232)	4 - 8 1/2 (1435)	5 - 0 1/2 (1537)	5 - 4 1/2 (1638)	6 - 0 1/2 (1842)
<b>RO (mm)</b>	3 - 1 (940)	3 - 5 (1041)	4 - 1 (1245)	4 - 9 (1448)	5 - 1 (1549)	5 - 5 (1651)	6 - 1 (1854)
<b>FS (mm)</b>	3 - 0 (914)	3 - 4 (1016)	4 - 0 (1219)	4 - 8 (1422)	5 - 0 (1524)	5 - 4 (1626)	6 - 0 (1829)
<b>DLO (mm)</b>	2 - 6 3/16 (767)	2 - 10 3/16 (868)	3 - 6 3/16 (1072)	4 - 2 3/16 (1275)	4 - 6 3/16 (1376)	4 - 10 3/16 (1478)	5 - 6 3/16 (1681)

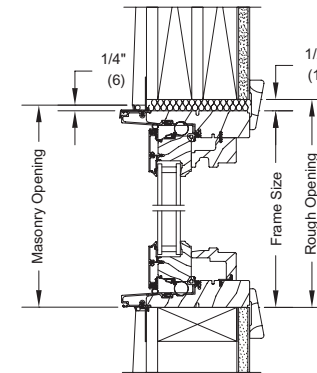
5 - 3 3/8 (1609) 5 - 3 5/8 (1616) 5 - 3 1/8 (1603) 4 - 9 21/64 (1456)							
5 - 11 3/8 (1812) 5 - 11 5/8 (1819) 5 - 11 1/8 (1806) 5 - 5 21/64 (1659)							
6 - 5 3/8 (1966) 6 - 5 5/8 (1971) 6 - 5 1/8 (1958) 5 - 11 21/64 (1812)							
6 - 11 3/8 (2117) 6 - 11 5/8 (2124) 6 - 11 1/8 (2111) 6 - 5 21/64 (1964)							
7 - 7 3/8 (2320) 7 - 7 5/8 (2327) 7 - 7 1/8 (2314) 7 - 1 21/64 (2167)							
7 - 11 3/8 (2422) 7 - 11 5/8 (2428) 7 - 11 1/8 (2416) 7 - 5 21/64 (2269)							

**CASEMENT VENTING PICTURE**

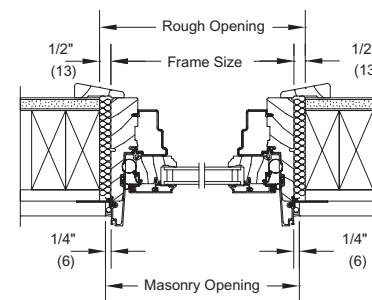
CONSTRUCTION DETAILS



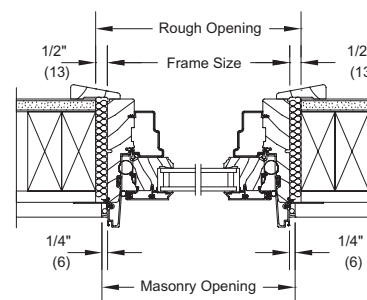
3/4" VENTING PICTURE HEAD JAMB AND SILL



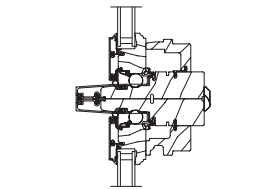
1" VENTING PICTURE HEAD JAMB AND SILL



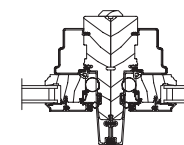
3/4" VENTING PICTURE JAMB



1" VENTING PICTURE JAMB



HORIZONTAL MULLION

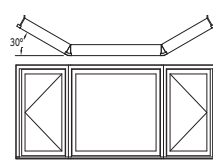


VERTICAL MULLION



### WOOD CASEMENT BAY

#### 30° ULTIMATE WOOD CASEMENT BAY WITH PICTURE CENTER UNIT



UNIT NO. (WIDTH)	ROUGH OPENING (WIDTH)	PROJECTION
16-16-16	4-0 13/32 (1229)	9 3/8" (239)
16-20-16	4-4 13/32 (1330)	9 3/8" (239)
16-24-16	4-8 13/32 (1432)	9 3/8" (239)
16-28-16	5-0 13/32 (1533)	9 3/8" (239)
16-32-16	5-4 13/32 (1635)	9 3/8" (239)
16-36-16	5-8 13/32 (1737)	9 3/8" (239)
16-40-16	6-0 13/32 (1838)	9 3/8" (239)
16-48-16	6-8 13/32 (2041)	9 3/8" (239)
16-56-16	7-4 13/32 (2245)	9 3/8" (239)
16-60-16	7-8 13/32 (2346)	9 3/8" (239)
16-64-16	8-0 13/32 (2448)	9 3/8" (239)
16-72-16	8-8 13/32 (2651)	9 3/8" (239)

20-20-20	4-11 9/32 (1506)	11 3/8" (289)
20-24-20	5-3 9/32 (1608)	11 3/8" (289)
20-28-20	5-7 9/32 (1709)	11 3/8" (289)
20-32-20	5-11 9/32 (1811)	11 3/8" (289)
20-36-20	6-3 9/32 (1913)	11 3/8" (289)
20-40-20	6-7 9/32 (2014)	11 3/8" (289)
20-48-20	7-3 9/32 (2217)	11 3/8" (289)
20-56-20	7-11 9/32 (2421)	11 3/8" (289)
20-60-20	8-3 9/32 (2522)	11 3/8" (289)
20-64-20	8-7 9/32 (2624)	11 3/8" (289)
20-72-20	9-3 9/32 (2827)	11 3/8" (289)

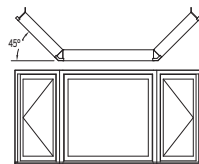
24-24-24	5-10 1/4 (1784)	13 3/8" (340)
24-28-24	6-2 1/4 (1885)	13 3/8" (340)
24-32-24	6-6 1/4 (1987)	13 3/8" (340)
24-36-24	6-10 1/4 (2089)	13 3/8" (340)
24-40-24	7-2 1/4 (2190)	13 3/8" (340)
24-48-24	7-10 1/4 (2393)	13 3/8" (340)
24-56-24	8-6 1/4 (2597)	13 3/8" (340)
24-60-24	8-10 1/4 (2698)	13 3/8" (340)
24-64-24	9-2 1/4 (2800)	13 3/8" (340)
24-72-24	9-10 1/4 (3003)	13 3/8" (340)

28-28-28	6-9 5/32 (2061)	15 3/8" (391)
28-32-28	7-1 5/32 (2163)	15 3/8" (391)
28-36-28	7-5 5/32 (2265)	15 3/8" (391)
28-40-28	7-9 5/32 (2366)	15 3/8" (391)
28-48-28	8-5 5/32 (2569)	15 3/8" (391)
28-56-28	9-1 5/32 (2773)	15 3/8" (391)
28-60-28	9-5 5/32 (2874)	15 3/8" (391)
28-64-28	9-9 5/32 (2976)	15 3/8" (391)
28-72-28	10-5 5/32 (3179)	15 3/8" (391)

32-32-32	7-8 1/8 (2339)	17 3/8" (442)
32-36-32	8-0 1/8 (2441)	17 3/8" (442)
32-40-32	8-4 1/8 (2542)	17 3/8" (442)
32-48-32	9-0 1/8 (2745)	17 3/8" (442)
32-56-32	9-8 1/8 (2949)	17 3/8" (442)
32-60-32	10-0 1/8 (3050)	17 3/8" (442)
32-64-32	10-4 1/8 (3152)	17 3/8" (442)
32-72-32	11-0 1/8 (3355)	17 3/8" (442)

36-36-36	8-7 (2617)	19 3/8" (493)
36-40-36	8-11 (2718)	19 3/8" (493)
36-48-36	9-7 (2921)	19 3/8" (493)
36-56-36	10-3 (3125)	19 3/8" (493)
36-60-36	10-7 (3226)	19 3/8" (493)
36-64-36	10-11 (3328)	19 3/8" (493)
36-72-36	11-7 (3531)	19 3/8" (493)

#### 45° ULTIMATE WOOD CASEMENT BAY WITH PICTURE CENTER UNIT



UNIT NO. (WIDTH)	ROUGH OPENING (WIDTH)	PROJECTION
16-16-16	3-7 7/8 (1114)	13 3/4" (349)
16-20-16	3-11 7/8 (1216)	13 3/4" (349)
16-24-16	4-3 7/8 (1318)	13 3/4" (349)
16-28-16	4-7 7/8 (1419)	13 3/4" (349)
16-32-16	4-11 7/8 (1521)	13 3/4" (349)
16-36-16	5-3 7/8 (1622)	13 3/4" (349)
16-40-16	5-7 7/8 (1724)	13 3/4" (349)
16-48-16	6-3 7/8 (1927)	13 3/4" (349)
16-56-16	6-11 7/8 (2130)	13 3/4" (349)
16-60-16	7-3 7/8 (2232)	13 3/4" (349)
16-64-16	7-7 7/8 (2334)	13 3/4" (349)
16-72-16	8-3 7/8 (2537)	13 3/4" (349)

20-20-20	4-5 17/32 (1360)	16 9/16" (421)
20-24-20	4-9 17/32 (1461)	16 9/16" (421)
20-28-20	5-1 17/32 (1563)	16 9/16" (421)
20-32-20	5-5 17/32 (1664)	16 9/16" (421)
20-36-20	5-9 17/32 (1766)	16 9/16" (421)
20-40-20	6-1 17/32 (1868)	16 9/16" (421)
20-48-20	6-9 17/32 (2071)	16 9/16" (421)
20-56-20	7-5 17/32 (2274)	16 9/16" (421)
20-60-20	7-9 17/32 (2376)	16 9/16" (421)
20-64-20	8-1 17/32 (2477)	16 9/16" (421)
20-72-20	8-9 17/32 (2680)	16 9/16" (421)

24-24-24	5-3 3/16 (1605)	19 13/32" (493)
24-28-24	5-7 3/16 (1706)	19 13/32" (493)
24-32-24	5-11 3/16 (1808)	19 13/32" (493)
24-36-24	6-3 3/16 (1910)	19 13/32" (493)
24-40-24	6-7 3/16 (2011)	19 13/32" (493)
24-48-24	7-3 3/16 (2214)	19 13/32" (493)
24-56-24	7-11 3/16 (2418)	19 13/32" (493)
24-60-24	8-3 3/16 (2519)	19 13/32" (493)
24-64-24	8-7 3/16 (2621)	19 13/32" (493)
24-72-24	9-3 3/16 (2824)	19 13/32" (493)

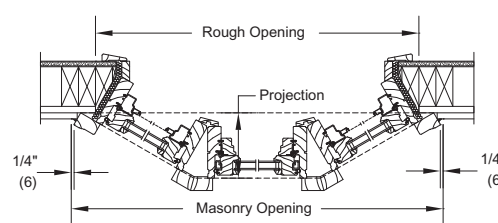
28-28-28	6-0 27/32 (1850)	22 1/4" (565)
28-32-28	6-4 27/32 (1952)	22 1/4" (565)
28-36-28	6-8 27/32 (2053)	22 1/4" (565)
28-40-28	7-0 27/32 (2155)	22 1/4" (565)
28-48-28	7-8 27/32 (2358)	22 1/4" (565)
28-56-28	8-4 27/32 (2561)	22 1/4" (565)
28-60-28	8-8 27/32 (2663)	22 1/4" (565)
28-64-28	9-0 27/32 (2765)	22 1/4" (565)
28-72-28	9-8 27/32 (2968)	22 1/4" (565)

32-32-32	6-10 1/2 (2095)	25 1/16" (637)
32-36-32	7-2 1/2 (2197)	25 1/16" (637)
32-40-32	7-6 1/2 (2299)	25 1/16" (637)
32-48-32	8-2 1/2 (2502)	25 1/16" (637)
32-56-32	8-10 1/2 (2705)	25 1/16" (637)
32-60-32	9-2 1/2 (2807)	25 1/16" (637)
32-64-32	9-6 1/2 (2908)	25 1/16" (637)
32-72-32	10-2 1/2 (3111)	25 1/16" (637)

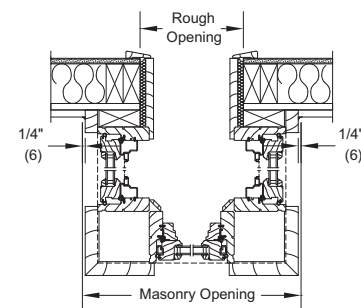
36-36-36	7-8 5/32 (2341)	27 29/32" (709)
36-40-36	8-0 5/32 (2442)	27 29/32" (709)
36-48-36	8-8 5/32 (2646)	27 29/32" (709)
36-56-36	9-4 5/32 (2849)	27 29/32" (709)
36-60-36	9-8 5/32 (2950)	27 29/32" (709)
36-64-36	10-0 5/32 (3052)	27 29/32" (709)
36-72-36	10-8 5/32 (3255)	27 29/32" (709)

### WOOD CASEMENT BAY

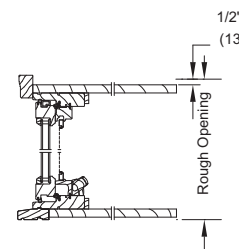
#### CONSTRUCTION DETAILS



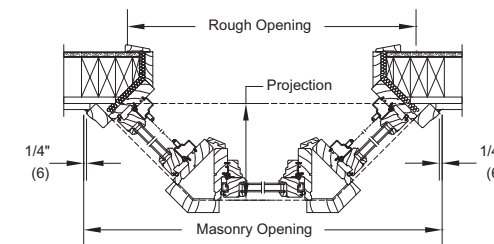
30° ULTIMATE WOOD CASEMENT BAY WITH STATIONARY CENTER JAMB



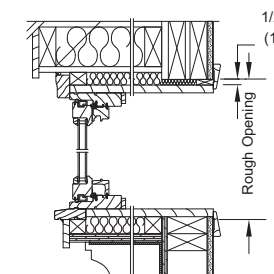
90° ULTIMATE WOOD CASEMENT BAY WITH STATIONARY CENTER UNIT JAMB



ULTIMATE WOOD CASEMENT OPERATOR HEAD JAMB AND SILL



45° ULTIMATE WOOD CASEMENT BAY WITH STATIONARY CENTER JAMB



ULTIMATE WOOD CASEMENT STATIONARY HEAD JAMB AND SILL

#### ROUGH OPENING HEIGHTS

UNIT NO. (HEIGHT)	ROUGH OPENING (HEIGHT)
24	2-1 1/4 (641)
32	2-9 1/4 (845)
36	3-1 1/4 (946)
40	3-5 1/4 (1048)
48	4-1 1/4 (1251)
56	4-9 1/4 (1454)
60	5-1 1/4 (1556)
64	5-5 1/4 (1657)
72	6-1 1/4 (1861)

Details and Elevations not to scale.

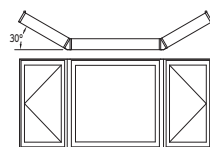
- Above dimensions include head and seat boards. If no head board, deduct 1 1/16" (17) in rough opening height.

Please consult your local Marvin representative for more information.

For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

**CASEMENT BAY**

**30° ULTIMATE CASEMENT BAY WITH PICTURE CENTER UNIT**



UNIT NO. (WIDTH)	ROUGH OPENING (WIDTH)	PROJECTION
16-16-16	4-0 21/32 (1236)	8 5/8" (219)
16-20-16	4-4 21/32 (1337)	8 5/8" (219)
16-24-16	4-8 21/32 (1439)	8 5/8" (219)
16-28-16	5-0 21/32 (1541)	8 5/8" (219)
16-32-16	5-4 21/32 (1642)	8 5/8" (219)
16-36-16	5-8 21/32 (1744)	8 5/8" (219)
16-40-16	6-0 21/32 (1845)	8 5/8" (219)
16-48-16	6-8 21/32 (2049)	8 5/8" (219)
16-56-16	7-4 21/32 (2252)	8 5/8" (219)
16-60-16	7-8 21/32 (2353)	8 5/8" (219)
16-64-16	8-0 21/32 (2455)	8 5/8" (219)
16-72-16	8-8 21/32 (2658)	8 5/8" (219)

20-20-20	4-11 19/32 (1513)	10 5/8" (270)
20-24-20	5-3 19/32 (1615)	10 5/8" (270)
20-28-20	5-7 19/32 (1716)	10 5/8" (270)
20-32-20	5-11 19/32 (1818)	10 5/8" (270)
20-36-20	6-3 19/32 (1920)	10 5/8" (270)
20-40-20	6-7 19/32 (2021)	10 5/8" (270)
20-48-20	7-3 19/32 (2224)	10 5/8" (270)
20-56-20	7-11 19/32 (2428)	10 5/8" (270)
20-60-20	8-3 19/32 (2529)	10 5/8" (270)
20-64-20	8-7 19/32 (2631)	10 5/8" (270)
20-72-20	9-3 19/32 (2834)	10 5/8" (270)

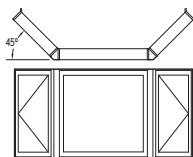
24-24-24	5-10 1/2 (1791)	12 5/8" (320)
24-28-24	6-2 1/2 (1892)	12 5/8" (320)
24-32-24	6-6 1/2 (1994)	12 5/8" (320)
24-36-24	6-10 1/2 (2096)	12 5/8" (320)
24-40-24	7-2 1/2 (2197)	12 5/8" (320)
24-48-24	7-10 1/2 (2400)	12 5/8" (320)
24-56-24	8-6 1/2 (2604)	12 5/8" (320)
24-60-24	8-10 1/2 (2705)	12 5/8" (320)
24-64-24	9-2 1/2 (2807)	12 5/8" (320)
24-72-24	9-10 1/2 (3010)	12 5/8" (320)

28-28-28	6-9 7/16 (2068)	14 5/8" (371)
28-32-28	7-1 7/16 (2170)	14 5/8" (371)
28-36-28	7-5 7/16 (2272)	14 5/8" (371)
28-40-28	7-9 7/16 (2373)	14 5/8" (371)
28-48-28	8-5 7/16 (2576)	14 5/8" (371)
28-56-28	9-1 7/16 (2780)	14 5/8" (371)
28-60-28	9-5 7/16 (2881)	14 5/8" (371)
28-64-28	9-9 7/16 (2983)	14 5/8" (371)
28-72-28	10-5 7/16 (3186)	14 5/8" (371)

32-32-32	7-8 3/8 (2346)	16 5/8" (422)
32-36-32	8-0 3/8 (2448)	16 5/8" (422)
32-40-32	8-4 3/8 (2549)	16 5/8" (422)
32-48-32	9-0 3/8 (2752)	16 5/8" (422)
32-56-32	9-8 3/8 (2956)	16 5/8" (422)
32-60-32	10-0 3/8 (3057)	16 5/8" (422)
32-64-32	10-4 3/8 (3159)	16 5/8" (422)
32-72-32	11-0 3/8 (3362)	16 5/8" (422)

36-36-36	8-7 5/16 (2624)	18 5/8" (473)
36-40-36	8-11 5/16 (2725)	18 5/8" (473)
36-48-36	9-7 5/16 (2928)	18 5/8" (473)
36-56-36	10-3 5/16 (3132)	18 5/8" (473)
36-60-36	10-7 5/16 (3233)	18 5/8" (473)
36-64-36	10-11 5/16 (3335)	18 5/8" (473)
36-72-36	11-7 5/16 (3538)	18 5/8" (473)

**45° ULTIMATE CASEMENT BAY WITH PICTURE CENTER UNIT**



UNIT NO. (WIDTH)	ROUGH OPENING (WIDTH)	PROJECTION
16-16-16	3-9 11/32 (1151)	12 21/32" (321)
16-20-16	4-1 11/32 (1253)	12 21/32" (321)
16-24-16	4-5 11/32 (1355)	12 21/32" (321)
16-28-16	4-9 11/32 (1456)	12 21/32" (321)
16-32-16	5-1 11/32 (1558)	12 21/32" (321)
16-36-16	5-5 11/32 (1659)	12 21/32" (321)
16-40-16	5-9 11/32 (1761)	12 21/32" (321)
16-48-16	6-5 11/32 (1964)	12 21/32" (321)
16-56-16	7-1 11/32 (2167)	12 21/32" (321)
16-60-16	7-5 11/32 (2269)	12 21/32" (321)
16-64-16	7-9 11/32 (2371)	12 21/32" (321)
16-72-16	8-5 11/32 (2574)	12 21/32" (321)

20-20-20	4-7 (1397)	15 1/2" (393)
20-24-20	4-11 (1498)	15 1/2" (393)
20-28-20	5-3 (1600)	15 1/2" (393)
20-32-20	5-7 (1701)	15 1/2" (393)
20-36-20	5-11 (1803)	15 1/2" (393)
20-40-20	6-3 (1905)	15 1/2" (393)
20-48-20	6-11 (2108)	15 1/2" (393)
20-56-20	7-7 (2311)	15 1/2" (393)
20-60-20	7-11 (2413)	15 1/2" (393)
20-64-20	8-3 (2514)	15 1/2" (393)
20-72-20	8-11 (2717)	15 1/2" (393)

24-24-24	5-4 21/32 (1642)	18 5/16" (465)
24-28-24	5-8 21/32 (1744)	18 5/16" (465)
24-32-24	6-0 21/32 (1845)	18 5/16" (465)
24-36-24	6-4 21/32 (1947)	18 5/16" (465)
24-40-24	6-8 21/32 (2048)	18 5/16" (465)
24-48-24	7-4 21/32 (2252)	18 5/16" (465)
24-56-24	8-0 21/32 (2455)	18 5/16" (465)
24-60-24	8-4 21/32 (2556)	18 5/16" (465)
24-64-24	8-8 21/32 (2658)	18 5/16" (465)
24-72-24	9-4 21/32 (2861)	18 5/16" (465)

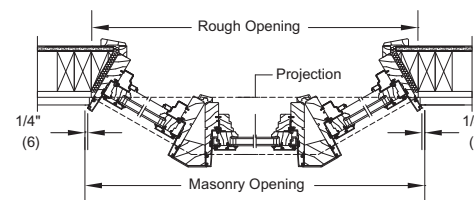
28-28-28	6-2 5/16 (1887)	21 1/8" (537)
28-32-28	6-6 5/16 (1989)	21 1/8" (537)
28-36-28	6-10 5/16 (2090)	21 1/8" (537)
28-40-28	7-2 5/16 (2192)	21 1/8" (537)
28-48-28	7-10 5/16 (2395)	21 1/8" (537)
28-56-28	8-6 5/16 (2598)	21 1/8" (537)
28-60-28	8-10 5/16 (2700)	21 1/8" (537)
28-64-28	9-2 5/16 (2802)	21 1/8" (537)
28-72-28	9-10 5/16 (3005)	21 1/8" (537)

32-32-32	6-11 31/32 (2133)	23 31/32" (609)
32-36-32	7-3 31/32 (2234)	23 31/32" (609)
32-40-32	7-7 31/32 (2336)	23 31/32" (609)
32-48-32	8-3 31/32 (2539)	23 31/32" (609)
32-56-32	8-11 31/32 (2742)	23 31/32" (609)
32-60-32	9-3 31/32 (2844)	23 31/32" (609)
32-64-32	9-7 31/32 (2945)	23 31/32" (609)
32-72-32	10-3 31/32 (3149)	23 31/32" (609)

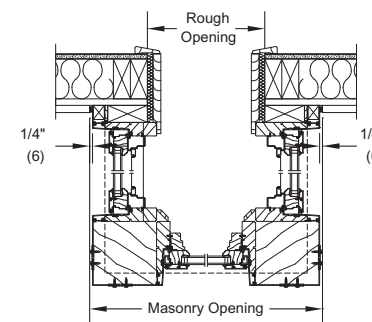
36-36-36	7-9 5/8 (2378)	26 13/16" (681)
36-40-36	8-1 5/8 (2479)	26 13/16" (681)
36-48-36	8-9 5/8 (2683)	26 13/16" (681)
36-56-36	9-5 5/8 (2886)	26 13/16" (681)
36-60-36	9-9 5/8 (2987)	26 13/16" (681)
36-64-36	10-1 5/8 (3089)	26 13/16" (681)
36-72-36	10-9 5/8 (3292)	26 13/16" (681)

**CASEMENT BAY**

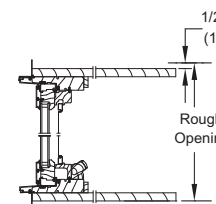
**CONSTRUCTION DETAILS**



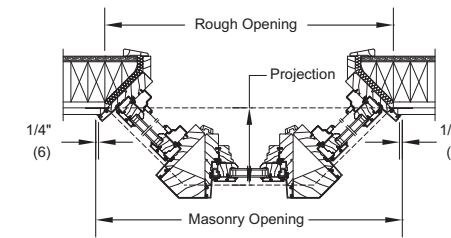
**30° ULTIMATE CASEMENT BAY WITH STATIONARY CENTER JAMB**



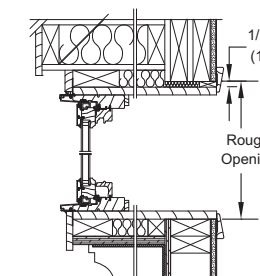
**90° ULTIMATE CASEMENT BAY WITH STATIONARY CENTER UNIT JAMB**



**ULTIMATE CASEMENT OPERATOR HEAD JAMB AND SILL**



**45° ULTIMATE CASEMENT BAY WITH STATIONARY CENTER JAMB**



**ULTIMATE CASEMENT STATIONARY HEAD JAMB AND SILL**

**ROUGH OPENING HEIGHTS**

UNIT NO. (HEIGHT)	ROUGH OPENING (HEIGHT)
24	2-1 (635)
32	2-9 (838)
36	3-1 (940)
40	3-5 (1041)
48	4-1 (1245)
56	4-9 (1448)
60	5-1 (1549)
64	5-5 (1651)
72	6-1 (1854)

Details and Elevations not to scale.

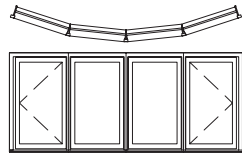
- Above dimensions include head and seat boards. If no head board, deduct 11/16" (17) in rough opening height.

Please consult your local Marvin representative for masonry openings that include casings and subsills.

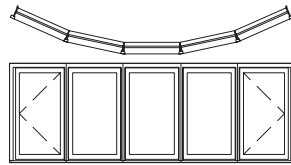
For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

# WOOD CASEMENT BOW

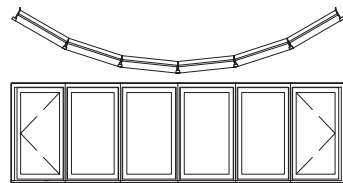
## CONSTRUCTION DETAILS



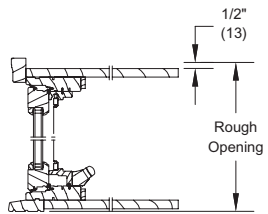
ULTIMATE WOOD CASEMENT  
4-WIDE BOW



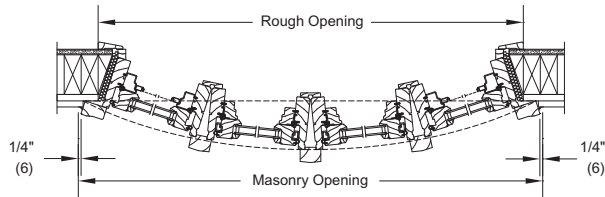
ULTIMATE WOOD CASEMENT  
5-WIDE BOW



ULTIMATE WOOD CASEMENT  
6-WIDE BOW



ULTIMATE WOOD CASEMENT  
OPERATOR HEAD JAMB AND SILL



ULTIMATE WOOD CASEMENT JAMB

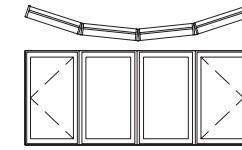
UNIT NO. (WIDTH)	ROUGH OPENING (WIDTH)	PROJECTION
16-4W	5-5 3/4 (1670)	7 11/32" (187)
16-5W	6-8 11/16 (2049)	10 7/8" (276)
16-6W	7-10 5/8 (2404)	16 1/32" (407)
20-4W	6-9 5/16 (2066)	9" (229)
20-5W	8-3 13/16 (2535)	13 5/16" (338)
20-6W	9-9 1/8 (2975)	19 11/16" (500)
24-4W	8-0 7/8 (2461)	10 21/32" (270)
24-5W	9-10 15/16 (3021)	15 25/32" (401)
24-6W	11-7 5/8 (3546)	23 11/32" (593)
28-4W	9-4 7/16 (2856)	12 5/16" (313)
28-5W	11-6 1/16 (3507)	18 1/4" (463)
28-6W	13-6 1/8 (4118)	27" (686)
32-4W	10-8 (3252)	13 31/32" (355)
32-5W	13-1 7/32 (3993)	20 11/16" (526)
36-4W	11-11 19/32 (3647)	15 5/8" (397)
36-5W	14-8 11/32 (4479)	23 5/32" (588)

### ROUGH OPENING HEIGHTS

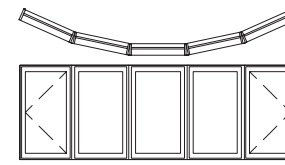
UNIT NO. (HEIGHT)	ROUGH OPENING (HEIGHT)
24	2-1 1/4 (641)
32	2-9 1/4 (845)
36	3-1 1/4 (946)
40	3-5 1/4 (1048)
48	4-1 1/4 (1251)
56	4-9 1/4 (1454)
60	5-1 1/4 (1556)
64	5-5 1/4 (1657)
72	6-1 1/4 (1861)

# CASEMENT BOW

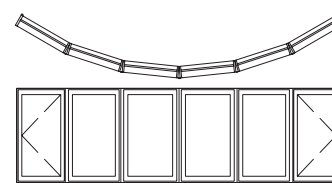
## CONSTRUCTION DETAILS



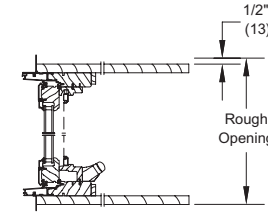
ULTIMATE CASEMENT  
4-WIDE BOW



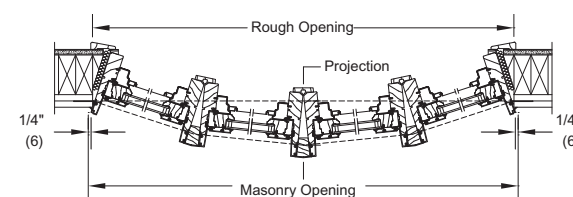
ULTIMATE CASEMENT  
5-WIDE BOW



ULTIMATE CASEMENT  
6-WIDE BOW



ULTIMATE CASEMENT  
OPERATOR HEAD JAMB AND SILL



ULTIMATE CASEMENT JAMB

UNIT NO. (WIDTH)	ROUGH OPENING (WIDTH)	PROJECTION
16-4W	5-5 7/16 (1662)	6 7/8" (174)
16-5W	6-8 5/8 (2048)	10 1/4" (260)
16-6W	7-10 29/32 (2411)	15 1/4" (387)
20-4W	6-9 (2058)	8 1/2" (216)
20-5W	8-3 3/4 (2534)	12 11/16" (322)
20-6W	9-9 13/32 (2982)	18 29/32" (480)
24-4W	8-0 9/16 (2453)	10 3/16" (258)
24-5W	9-10 7/8 (3020)	15 1/8" (385)
24-6W	11-7 7/8 (3553)	22 9/16" (573)
28-4W	9-4 1/8 (2849)	11 13/16" (300)
28-5W	11-6 1/64 (3506)	17 5/8" (447)
28-6W	13-6 3/8 (4124)	26 7/32" (666)
32-4W	10-7 23/32 (3244)	13 1/2" (342)
32-5W	13-1 9/32 (3992)	20 1/16" (510)
36-4W	11-11 9/32 (3639)	15 1/8" (384)
36-5W	14-8 9/32 (4578)	22 1/2" (572)

### ROUGH OPENING HEIGHTS

UNIT NO. (HEIGHT)	ROUGH OPENING (HEIGHT)
24	2-1 (635)
32	2-9 (838)
36	3-1 (940)
40	3-5 (1041)
48	4-1 (1245)
56	4-9 (1448)
60	5-1 (1549)
64	5-5 (1651)
72	6-1 (1859)

Details and Elevations not to scale.

- Above dimensions include head and seat boards. If no head board, deduct 11/16" (17) in rough opening height.

Please consult your local Marvin representative for masonry openings that include casings and subsills.

For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

**GLIDER - XO, OX, XX**

MO (mm)	3-0 (914)	3-6 (1067)	4-0 (1219)	4-6 (1372)	5-0 (1524)	5-6 (1676)	6-0 (1829)
RO (mm)	3-0 1/2 (927)	3-6 1/2 (1080)	4-0 1/2 (1232)	4-6 1/2 (1384)	5-0 1/2 (1537)	5-6 1/2 (1689)	6-0 1/2 (1842)
FS (mm)	2-11 1/2 (902)	3-5 1/2 (1054)	3-11 1/2 (1207)	4-5 1/2 (1359)	4-11 1/2 (1511)	5-5 1/2 (1664)	5-11 1/2 (1816)
DLO (mm)	1-1 9/32 (337)	1-4 9/32 (413)	1-7 9/32 (490)	1-10 9/32 (566)	2-1 9/32 (642)	2-4 9/32 (718)	2-7 9/32 (794)
1-11 3/4 (603)							
2-0 (610)							
2-5 3/4 (756)							
2-6 (762)							
2-11 3/4 (908)							
3-0 (914)							
2-11 1/2 (902)							
2-4 23/32 (729)							
3-5 3/4 (1060)							
3-6 (1067)							
3-5 1/2 (1054)							
2-10 23/32 (892)							
3-11 3/4 (1213)							
4-0 (1219)							
3-11 1/2 (1207)							
3-4 23/32 (1034)							
4-5 3/4 (1365)							
4-6 (1372)							
4-5 1/2 (1359)							
3-10 23/32 (1187)							
4-11 3/4 (1518)							
5-0 (1524)							
4-11 1/2 (1511)							
4-4 23/32 (1339)							
5-5 3/4 (1670)							
5-6 (1676)							
5-5 1/2 (1664)							
4-10 23/32 (1491)							
5-11 3/4 (1822)							
6-0 (1829)							
5-11 1/2 (1816)							
5-4 23/32 (1644)							

**GLIDER TRIPLE SASH - XOX**

MO (mm)	6-0 (1829)	8-0 (2438)	10-0 (3048)
RO (mm)	6-0 1/2 (1842)	8-0 1/2 (2451)	10-0 1/2 (3061)
FS (mm)	5-11 1/2 (1816)	7-11 1/2 (2426)	9-11 1/2 (3035)
DLO (mm)	1-1 9/32 (337)	1-7 9/32 (490)	2-1 9/32 (642)
1-11 3/4 (603)			
2-0 (610)			
2-5 3/4 (756)			
2-6 (762)			
2-11 3/4 (908)			
3-0 (914)			
2-11 1/2 (902)			
2-5 25/32 (756)			
3-5 3/4 (1060)			
3-6 (1067)			
3-5 1/2 (1054)			
2-11 25/32 (909)			
3-11 3/4 (1213)			
4-0 (1219)			
3-11 1/2 (1207)			
3-5 25/32 (1061)			
4-5 3/4 (1365)			
4-6 (1372)			
4-5 1/2 (1359)			
3-11 25/32 (1214)			
4-11 3/4 (1518)			
5-0 (1524)			
4-11 1/2 (1511)			
4-5 25/32 (1366)			
5-5 3/4 (1670)			
5-6 (1676)			
5-5 1/2 (1664)			
4-11 25/32 (1518)			
5-11 3/4 (1822)			
6-0 (1829)			
5-11 1/2 (1816)			
5-5 25/32 (1671)			

Details and Elevations not to scale.

- XO, OX, XX, XOX, and O available. Both sides of triple sash units operate.

E These windows meet national Egress codes for fire evacuation. Local codes may differ.

Please consult your local Marvin representative for more information.

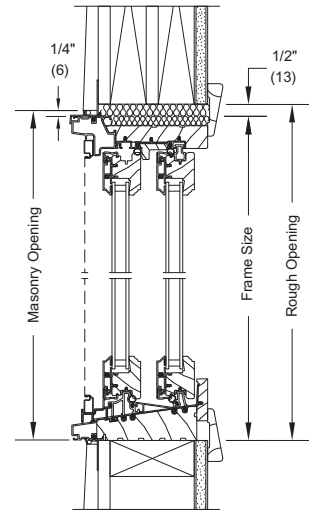
For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

Ultimate Glider: UGL

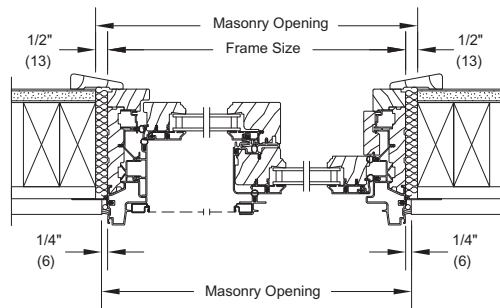
Ultimate Glider Triple Sash: UGLTS

# GLIDER - XOX

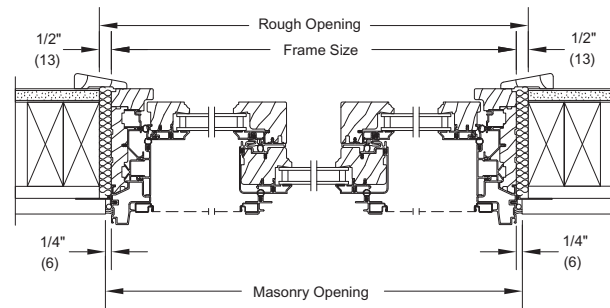
CONSTRUCTION DETAILS X, OX, XO, AND OXO



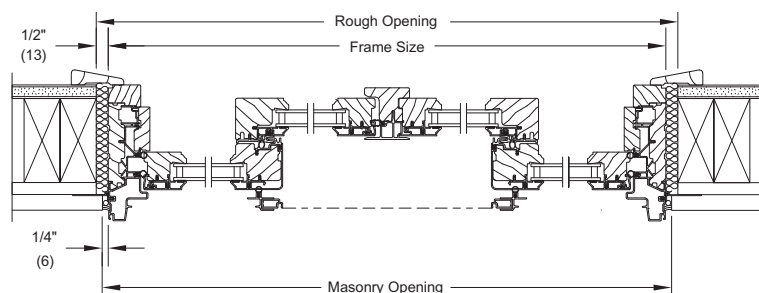
HEAD JAMB AND SILL - XO/OX, XO, XO



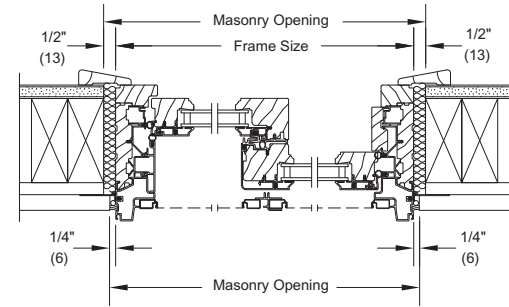
JAMB - XO



JAMB - XO



JAMB - OXO



JAMB - XX

# GLIDER PICTURE - O

MO (mm)	3-0 (914)	3-6 (1067)	4-0 (1219)	4-6 (1372)	5-0 (1524)	5-6 (1676)	6-0 (1829)
RO (mm)	3-0 1/2 (927)	3-6 1/2 (1080)	4-0 1/2 (1232)	4-6 1/2 (1384)	5-0 1/2 (1537)	5-6 1/2 (1689)	6-0 1/2 (1842)
FS (mm)	2-11 1/2 (902)	3-5 1/2 (1054)	3-11 1/2 (1207)	4-5 1/2 (1359)	4-11 1/2 (1511)	5-5 1/2 (1664)	5-11 1/2 (1816)
DLO (mm)	2-4 63/64 (736)	2-10 63/64 (888)	3-4 63/64 (1041)	3-10 63/64 (1193)	4-4 63/64 (1346)	4-10 63/64 (1498)	5-4 63/64 (1650)
1-11 3/4 (603)	UGLP3020	UGLP3620	UGLP4020	UGLP4620	UGLP5020	UGLP5620	UGLP6020
2-0 (610)	UGLP3026	UGLP3626	UGLP4026	UGLP4626	UGLP5026	UGLP5626	UGLP6026
2-5 3/4 (756)	UGLP3030	UGLP3630	UGLP4030	UGLP4630	UGLP5030	UGLP5630	UGLP6030
2-6 (762)	UGLP3036	UGLP3636	UGLP4036	UGLP4636	UGLP5036	UGLP5636	UGLP6036
2-11 3/4 (908)	UGLP3040	UGLP3640	UGLP4040	UGLP4640	UGLP5040	UGLP5640	UGLP6040
3-0 (914)	UGLP3046	UGLP3646	UGLP4046	UGLP4646	UGLP5046	UGLP5646	UGLP6046
3-0 1/2 (902)	UGLP3050	UGLP3650	UGLP4050	UGLP4650	UGLP5050	UGLP5650	UGLP6050
2-11 1/2 (1054)	UGLP3056	UGLP3656	UGLP4056	UGLP4656	UGLP5056	UGLP5656	UGLP6056
2-4 23/32 (729)	UGLP3060	UGLP3660	UGLP4060	UGLP4660	UGLP5060	UGLP5660	UGLP6060
2-5 1/2 (749)							
1-11 1/2 (597)							
1-10 23/32 (577)							
1-4 23/32 (425)							
2-10 23/32 (882)							
3-11 3/4 (1213)							
4-0 (1219)							
3-11 1/2 (1207)							
3-4 23/32 (1034)							
4-5 3/4 (1365)							
4-6 (1372)							
4-5 1/2 (1359)							
3-10 23/32 (1187)							
4-11 3/4 (1518)							
5-0 (1524)							
4-11 1/2 (1511)							
4-4 23/32 (1339)							
5-5 3/4 (1670)							
5-6 (1676)							
5-5 1/2 (1664)							
4-10 23/32 (1491)							
5-11 3/4 (1822)							
6-0 (1829)							
5-11 1/2 (1816)							
5-4 23/32 (1644)							

## MULTIPLE ASSEMBLY CONVERSIONS

ROUGH OPENING		MASONRY OPENING WITHOUT BMC	
Width	Height for 2H	Width	Height for 2H
Add all frame sizes plus 1" (25)	Add frame sizes plus 1/2" (13)	Add all frame sizes plus 1/2" (13)	Add frame sizes plus 1/4" (6)

Details and Elevations not to scale.  
 • Special sizes for OXO only, available in equal sash only (1/4, 1/4, 1/4, 1/4)  
 E These windows meet national Egress codes for fire evacuation. Local codes may differ.

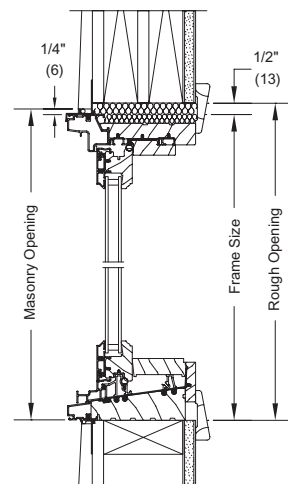
Please consult your local Marvin representative for more information.  
 For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

Ultimate Glider Picture: UGLP

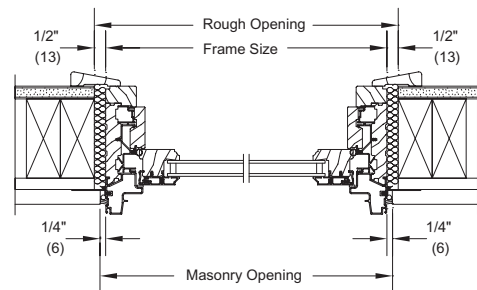
Details and Elevations not to scale.  
 • XO, OX, XX, XO, and O available. Both sides of triple sash units operate.  
 • Conversions for horizontal mulls include required structural 1" (25) LVL  
 Please consult your local Marvin representative for additional mulling configurations.  
 For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

## GLIDER PICTURE

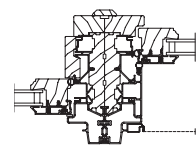
### CONSTRUCTION DETAILS



HEAD JAMB AND SILL - PICTURE



JAMB - PICTURE

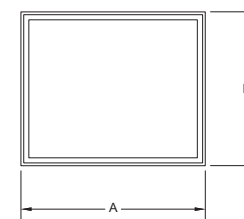


VERTICAL MULLION  
PICTURE/OPERATOR

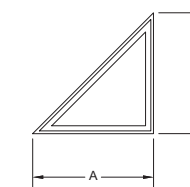
## WOOD / CLAD POLYGONS AND SPECIAL SHAPES

### HOW TO SPECIFY DIMENSIONS

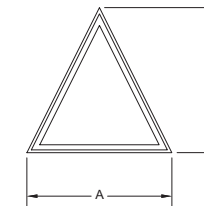
When ordering a trapezoid, triangle, or rectangle window, provide a sketch of the unit as viewed from the exterior, plus include key rough opening dimensions. Example: To order a window of a trapezoid opening, provide the measurements of A, B, and C as indicated. For other shapes, give the dimensions shown.



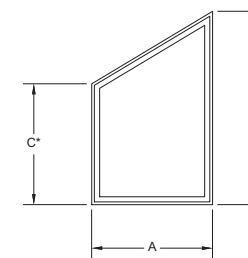
RECTANGLE



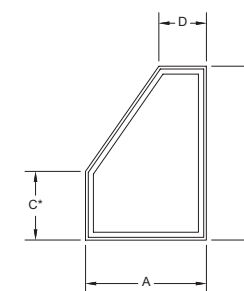
90° TRIANGLE



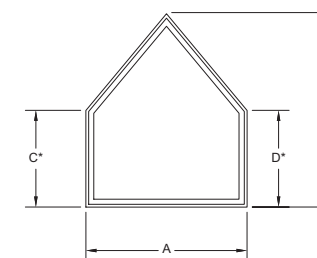
ISOSCELES TRIANGLE



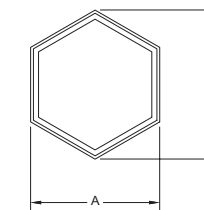
TRAPEZOID



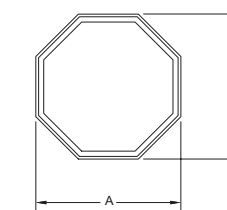
PENTAGON



PENTAGON



HEXAGON



OCTAGON

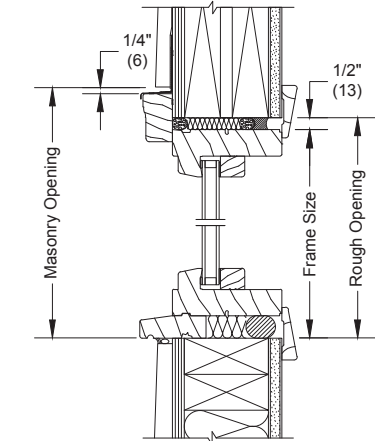
Details and Elevations not to scale.

- Jamb extensions over 7 9/16" (192) will be edge glued.
- Some shapes shown are also available as in-sash. Check with local Marvin representative for availability.
- Please contact local Marvin representative for assistance if multiple special shape units are aligned with other units. Rough opening dimensions may vary.
- 6" (152) minimum rough opening height.

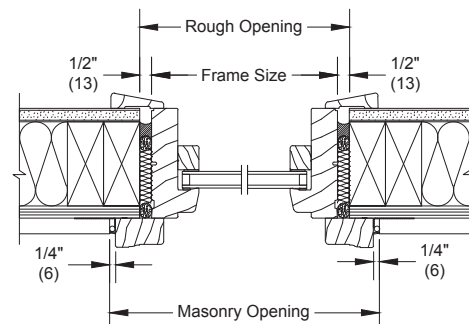
For further details and drawings visit the 'Technical Specifications' section at [Marvin.com](http://Marvin.com).

**WOOD DIRECT GLAZE POLYGON / DIRECT GLAZE POLYGON**

CONSTRUCTION DETAILS



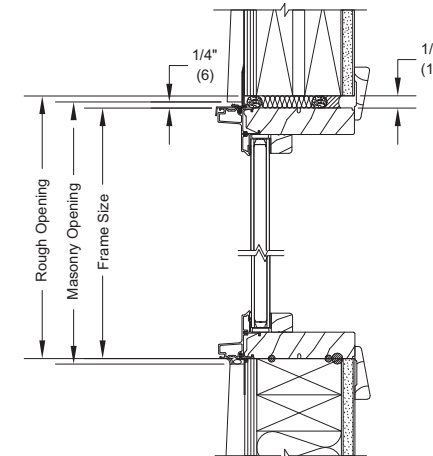
**WOOD  
HEAD JAMB AND SILL - DIRECT GLAZE**



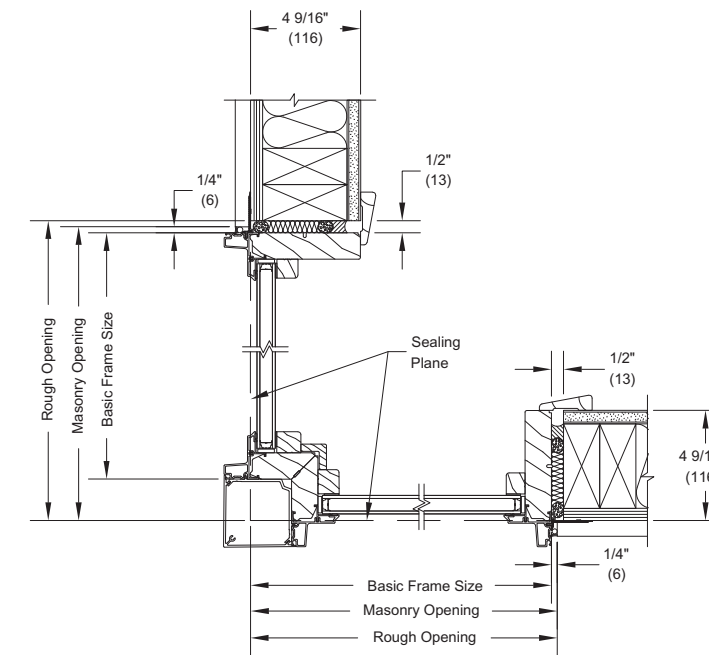
**WOOD  
JAMB - DIRECT GLAZE**

**DIRECT GLAZE POLYGON CORNER**

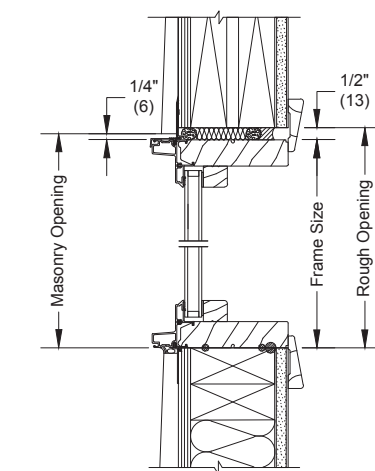
CONSTRUCTION DETAILS



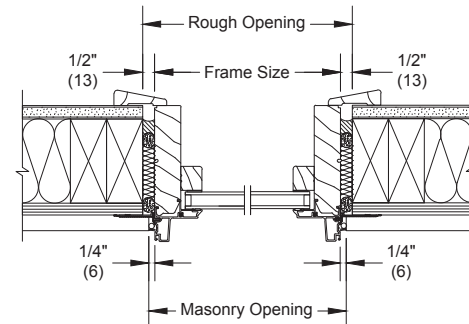
**HEAD JAMB AND SILL**



**JAMBS**



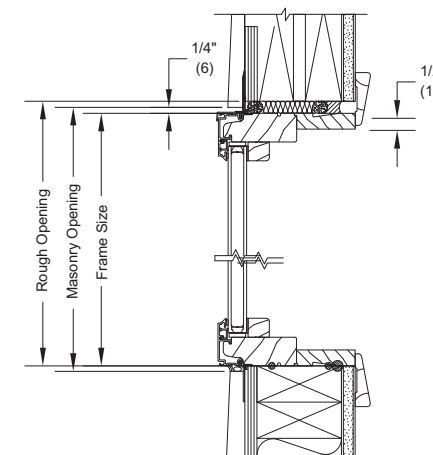
**CLAD  
HEAD JAMB AND SILL - DIRECT GLAZE**



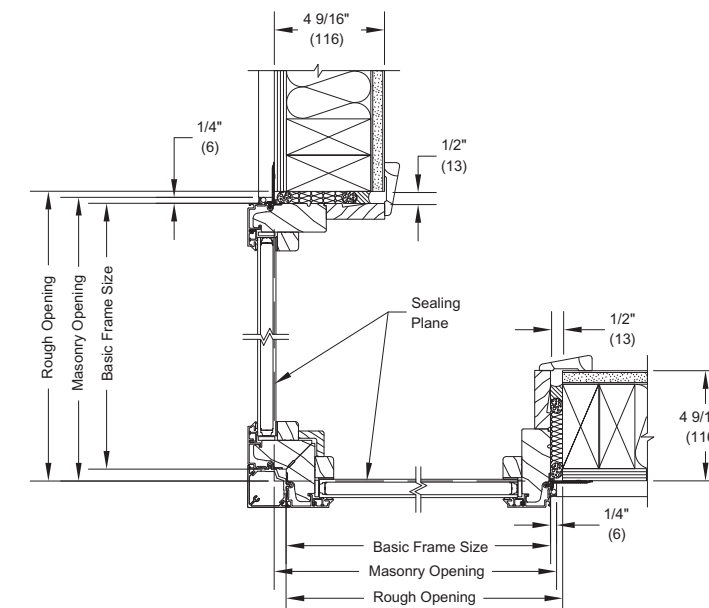
**CLAD  
JAMB - DIRECT GLAZE**

**DIRECT GLAZE NARROW FRAME CORNER**

CONSTRUCTION DETAILS



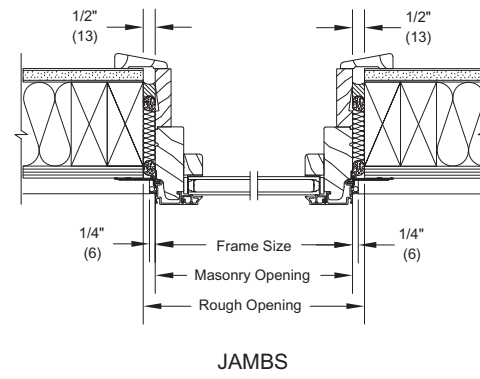
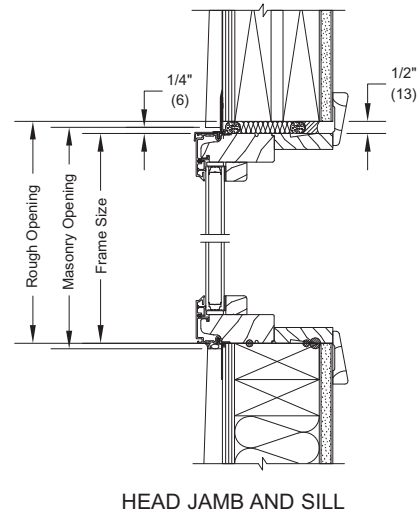
**HEAD JAMB AND SILL**



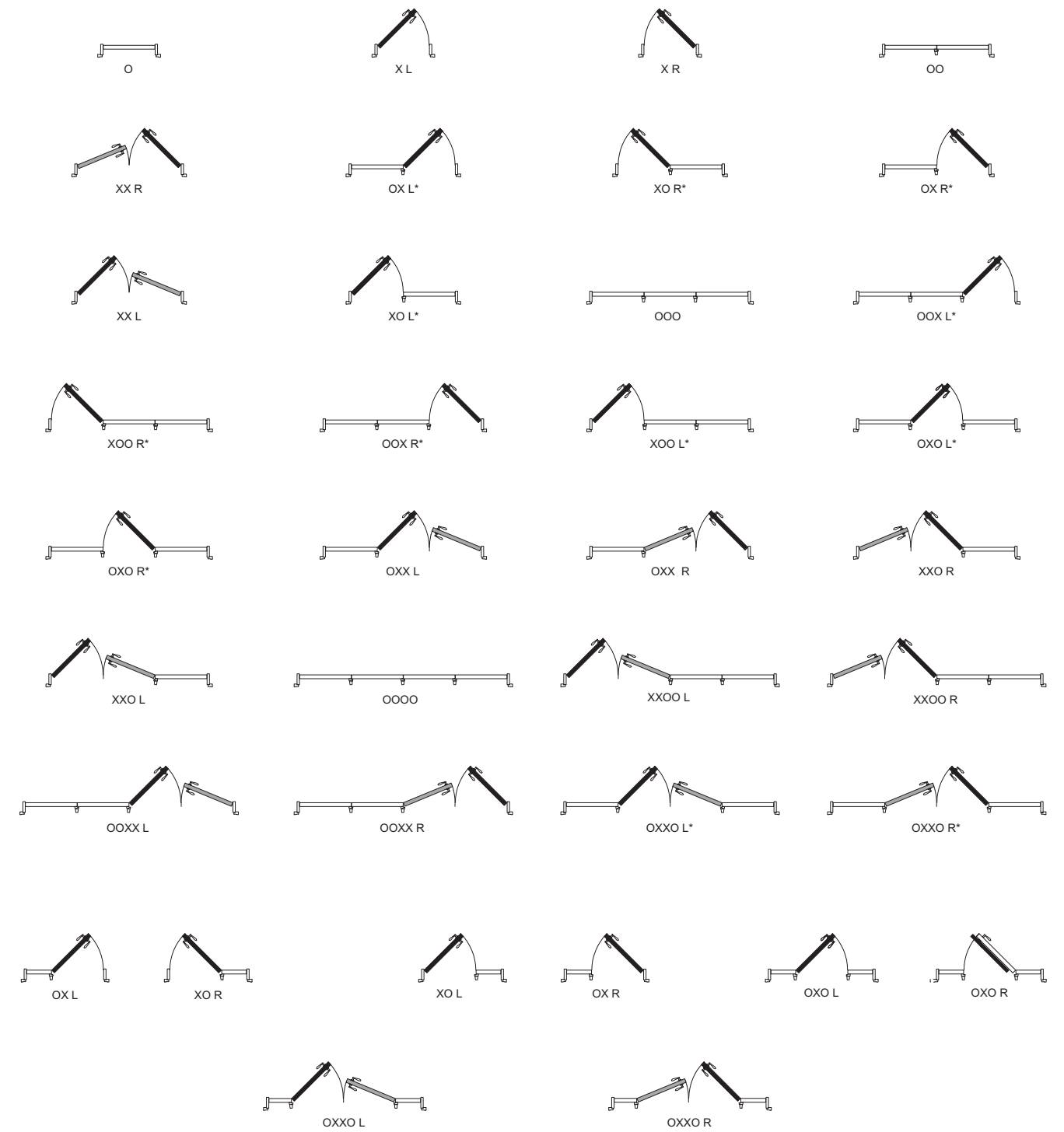
**JAMBS**

# DIRECT GLAZE NARROW FRAME POLYGON

## CONSTRUCTION DETAILS



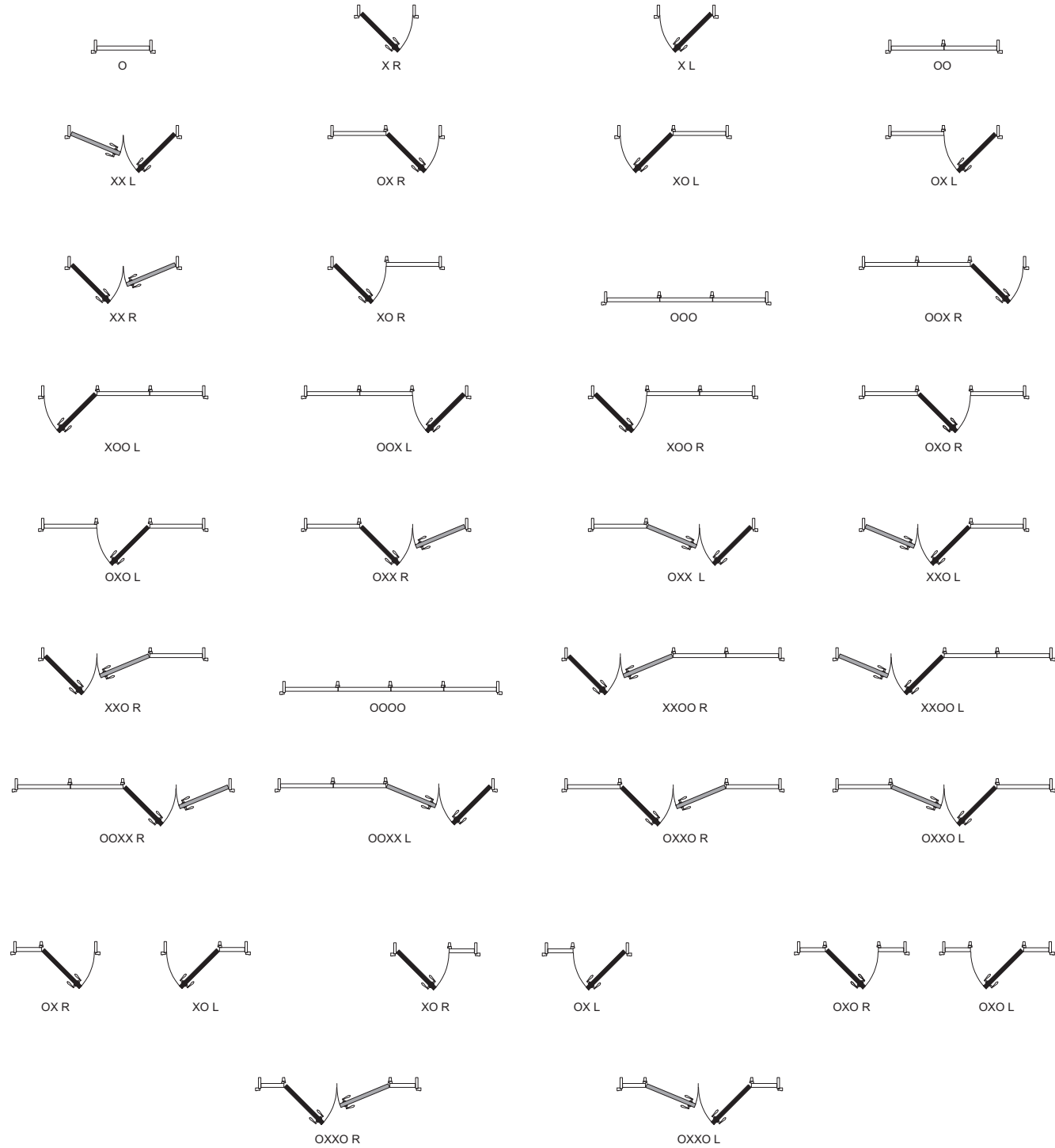
## INSWING OPERATING CONFIGURATIONS



Details and Elevations not to scale.  
 Please consult your local Marvin representative for additional mulling configurations.  
 For further details and drawings visit the 'Technical Specifications' section at Marvin.com.



# OUTSWING OPERATING CONFIGURATIONS



□ Stationary Panel  
 ■ Active Panel  
 ■ Inactive Panel

Details and Elevations not to scale.  
 O: STATIONARY X: OPERATING L: LEFT HAND R: RIGHT HAND  
 • Wood doors are available with Wood combo/storm and screens, contact your local Marvin representative.  
 • Available with sliding top hung aluminum screen.  
 Please consult your local Marvin representative for more information.  
 For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

# INSWING / OUTSWING FRENCH DOOR G2

## SIZE CHART

Standard Inswing and Outswing Unit Measurements															
Width															
Unit Type	CN	Masonry Opening		Rough Opening		Frame Size		Panel OM		Daylight Std Opening		Standard Glass Size		Contemporary Glass Size	
		ft - in	mm	ft - in	mm	ft - in	mm	ft-in	mm	ft - in	mm	in	mm	in	mm
1 Panel	1-6	1-8 11/32	(517)	1-8 27/32	(529)	1-7 27/32	(504)	1-5 15/32	(444)	0-11 1/2	(292)	12 3/4	(324)	12 3/4	(324)
	2-6R	2-7 1/8	(791)	2-7 5/8	(803)	2-6 5/8	(778)	2-4 1/4	(718)	1-6 25/32	(477)	20 1/32	(509)	20 1/32	(509)
	3-0R	3-1 1/8	(943)	3-1 5/8	(956)	3-0 5/8	(930)	2-10 1/4	(870)	2-0 25/32	(629)	26 1/32	(661)	26 1/32	(661)
	2-0	2-1 15/16	(659)	2-2 7/16	(672)	2-1 7/16	(646)	1-11 1/16	(586)	1-1 19/32	(345)	14 27/32	(377)	14 27/32	(377)
	2-6	2-7 15/16	(811)	2-8 7/16	(824)	2-7 7/16	(799)	2-5 1/16	(738)	1-7 19/32	(498)	20 27/32	(529)	20 27/32	(529)
	2-8	2-9 15/16	(862)	2-10 7/16	(875)	2-9 7/16	(849)	2-7 1/16	(789)	1-9 19/32	(548)	22 27/32	(580)	22 27/32	(580)
	3-0	3-1 15/16	(964)	3-2 7/16	(976)	3-1 7/16	(951)	2-11 1/16	(891)	2-1 19/32	(650)	26 27/32	(682)	26 27/32	(682)
	3-6	3-7 15/16	(1116)	3-8 7/16	(1129)	3-7 7/16	(1103)	3-5 1/16	(1043)	2-7 19/32	(802)	32 27/32	(834)	32 27/32	(834)
2 Panel	5-0R*	4-11 1/2	(1511)	5-0	(1524)	4-11	(1499)	2-4 1/4	(718)	1-6 25/32	(477)	20 1/32	(509)	20 1/32	(509)
	6-0R*	5-11 1/2	(1816)	6-0	(1829)	5-11	(1803)	2-10 1/4	(870)	2-0 25/32	(629)	26 1/32	(661)	26 1/32	(661)
	4-0	4-1 1/8	(1248)	4-1 5/8	(1260)	4-0 5/8	(1235)	1-11 1/16	(586)	1-1 19/32	(345)	14 27/32	(377)	14 27/32	(377)
	5-0	5-1 1/8	(1553)	5-1 5/8	(1565)	5-0 5/8	(1540)	2-5 1/16	(738)	1-7 19/32	(498)	20 27/32	(529)	20 27/32	(529)
	5-4	5-5 1/8	(1654)	5-5 5/8	(1667)	5-4 5/8	(1641)	2-7 1/16	(789)	1-9 19/32	(548)	22 27/32	(580)	22 27/32	(580)
	6-0	6-1 1/8	(1857)	6-1 5/8	(1870)	6-0 5/8	(1845)	2-11 1/16	(891)	2-1 19/32	(650)	26 27/32	(682)	26 27/32	(682)
	7-0	7-1 1/8	(2162)	7-1 5/8	(2175)	7-0 5/8	(2149)	3-5 1/16	(1043)	2-7 19/32	(802)	32 27/32	(834)	32 27/32	(834)
3 Panel	9-0R	8-9 7/8	(2689)	8-10 3/8	(2702)	8-9 3/8	(2677)	2-10 1/4	(870)	2-0 25/32	(629)	26 1/32	(661)	26 1/32	(661)
	6-0	6-0 5/16	(1837)	6-0 13/16	(1849)	5-11 13/16	(1824)	1-11 1/16	(586)	1-1 19/32	(345)	14 27/32	(377)	14 27/32	(377)
	7-6	7-6 5/16	(2294)	7-6 13/16	(2307)	7-5 13/16	(2281)	2-5 1/16	(738)	1-7 19/32	(498)	20 27/32	(529)	20 27/32	(529)
	8-0	8-0 5/16	(2446)	8-0 13/16	(2459)	7-11 13/16	(2434)	2-7 1/16	(789)	1-9 19/32	(548)	22 27/32	(580)	22 27/32	(580)
	9-0	9-0 5/16	(2751)	9-0 13/16	(2764)	8-11 13/16	(2738)	2-11 1/16	(891)	2-1 19/32	(650)	26 27/32	(682)	26 27/32	(682)
	10-6	10-6 5/16	(3208)	10-6 13/16	(3221)	10-5 13/16	(3196)	3-5 1/16	(1043)	2-7 19/32	(802)	32 27/32	(834)	32 27/32	(834)
4 Panel	8-0	7-11 1/2	(2426)	8-0	(2438)	7-11	(2413)	1-11 1/16	(586)	1-1 19/32	(345)	14 27/32	(377)	14 27/32	(377)
	10-0	9-11 1/2	(3035)	10-0	(3048)	9-11	(3023)	2-5 1/16	(738)	1-7 19/32	(498)	20 27/32	(529)	20 27/32	(529)
	10-8	10-7 1/2	(3239)	10-8	(3251)	10-7	(3226)	2-7 1/16	(789)	1-9 19/32	(548)	22 27/32	(580)	22 27/32	(580)
	12-0	11-11 1/2	(3645)	12-0	(3658)	11-11	(3632)	2-11 1/16	(891)	2-1 19/32	(650)	26 27/32	(682)	26 27/32	(682)
	14-0	13-11 1/2	(4255)	14-0	(4267)	13-11	(4242)	3-5 1/16	(1043)	2-7 19/32	(802)	32 27/32	(834)	32 27/32	(834)
Height															
Unit Type	CN	Masonry Opening		Rough Opening		Frame Size		Panel OM		Daylight Std Opening		Standard Glass Size		Contemporary Glass Size	
		ft - in	mm	ft - in	mm	ft - in	mm	ft-in	mm	ft - in	mm	in	mm	in	mm
All Configurations	6-6R	6-7 3/4	(2026)	6-8	(2032)	6-7 1/2	(2019)	6-4 39/64	(1946)	5-3 47/64	(1794)	65 3/64	(1828)	68 27/64	(1738)
	6-8	6-10 1/4	(2089)	6-10 1/2	(2096)	6-10	(2083)	6-7 7/64	(2009)	5-6 15/64	(1858)	67 35/64	(1891)	70 59/64	(1801)
	7-0	7-2 1/4	(2191)	7-2 1/2	(2197)	7-2	(2184)	6-11 7/64	(2111)	5-10 15/64	(1959)	71 35/64	(1993)	74 59/64	(1903)
	8-0	8-2 1/4	(2496)	8-2 1/2	(2502)	8-2	(2489)	7-11 7/64	(2416)	6-10 15/64	(2264)	83 35/64	(2298)	86 59/64	(2208)
	9-0	9-2 1/4	(2800)	9-2 1/2	(2807)	9-2	(2794)	8-11 7/64	(2721)	7-10 15/64	(2569)	95 35/64	(2602)	98 59/64	(2513)
	10-0	10-2 1/4	(3105)	10-2 1/2	(3112)	10-2	(3099)	9-11 7/64	(3025)	8-10 15/64	(2874)	107 35/64	(2907)	110 59/64	(2817)

R = Retro Size  
 • All glass is tempered.  
 • 6 9/16" jamb required for Inswing French Door G2 and Inswing French Door 2 1/4" G2  
 • Doors above CN 8/0 height use 2 1/4" panels.  
 • Some configurations require KD.

Please consult your local Marvin representative for masonry openings that include casings and subsills.

For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

Ultimate Inswing French Door G2: UIFDG2  
 Ultimate Outswing French Door G2: UOFDG2  
 Ultimate Inswing French Door 2 1/4" G2: UIFD225G2  
 Ultimate Outswing French Door 2 1/4" G2: UOFD225G2

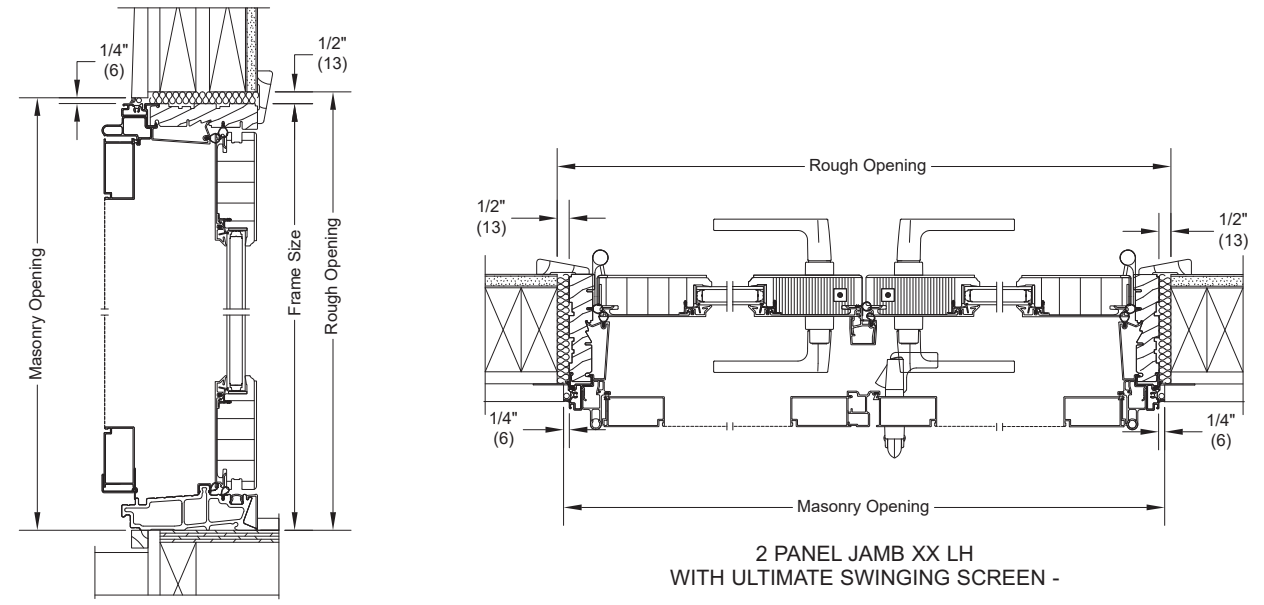
# INSWING / OUTSWING FRENCH DOOR TRANSOMS G2

## SIZE CHART

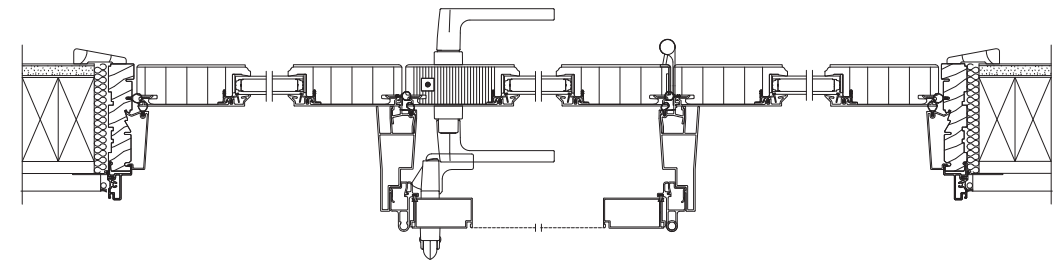
Standard In-Sash Transom Unit Measurements													
Width													
Unit Type	Call Number	Masonry Opening		Rough Opening		Frame Size		Sash OM		Daylight Opening		Glass Size	
		ft - in	mm	ft - in	mm	ft - in	mm	ft-in	mm	ft - in	mm	ft-in	mm
1 Sash 1 Frame	1-6	1-8 11/32	(517)	1-8 27/32	(529)	1-7 27/32	(504)	1-5 15/32	(444)	0-8	(203)	9 1/4	(235)
	2-0	2-1 15/16	(659)	2-2 7/16	(672)	2-1 7/16	(646)	1-11 1/16	(586)	1-1 19/32	(345)	14 27/32	(377)
	2-6	2-7 15/16	(811)	2-8 7/16	(824)	2-7 7/16	(799)	2-5 1/16	(738)	1-7 19/32	(498)	20 27/32	(529)
	2-8	2-9 15/16	(862)	2-10 7/16	(875)	2-9 7/16	(849)	2-7 1/16	(789)	1-9 19/32	(548)	22 27/32	(580)
	3-0	3-1 15/16	(964)	3-2 7/16	(976)	3-1 7/16	(951)	2-11 1/16	(891)	2-1 19/32	(650)	26 27/32	(682)
	3-6	3-7 15/16	(1116)	3-8 7/16	(1129)	3-7 7/16	(1103)	3-5 1/16	(1043)	2-7 19/32	(802)	32 27/32	(834)
	4-0	4-1 1/8	(1248)	4-1 5/8	(1260)	4-0 5/8	(1235)	3-10 1/4	(1175)	3-0 25/32	(934)	38 1/32	(966)
	5-0	5-1 1/8	(1553)	5-1 5/8	(1565)	5-0 5/8	(1540)	4-10 1/4	(1480)	4-0 25/32	(1239)	50 1/32	(1271)
	5-4	5-5 1/8	(1654)	5-5 5/8	(1667)	5-4 5/8	(1641)	5-2 1/4	(1581)	4-4 25/32	(1341)	54 1/32	(1372)
	6-0	6-1 1/8	(1857)	6-1 5/8	(1870)	6-0 5/8	(1845)	5-10 1/4	(1784)	5-0 25/32	(1544)	62 1/32	(1576)
2 Sash 1 Frame	4-0	4-1 1/8	(1248)	4-1 5/8	(1260)	4-0 5/8	(1235)	1-11 1/16	(586)	1-1 19/32	(345)	14 27/32	(377)
	5-0	5-1 1/8	(1553)	5-1 5/8	(1565)	5-0 5/8	(1540)	2-5 1/16	(738)	1-7 19/32	(498)	20 27/32	(529)
	5-4	5-5 1/8	(1654)	5-5 5/8	(1667)	5-4 5/8	(1641)	2-7 1/16	(789)	1-9 19/32	(548)	22 27/32	(580)
	6-0	6-1 1/8	(1857)	6-1 5/8	(1870)	6-0 5/8	(1845)	2-11 1/16	(891)	2-1 19/32	(650)	26 27/32	(682)
	7-0	7-1 1/8	(2162)	7-1 5/8	(2175)	7-0 5/8	(2149)	3-5 1/16	(1043)	2-7 19/32	(802)	32 27/32	(834)
3 Sash 1 Frame	6-0	6-0 5/16	(1837)	6-0 13/16	(1849)	5-11 13/16	(1824)	1-11 1/16	(586)	1-1 19/32	(345)	14 27/32	(377)
	7-6	7-6 5/16	(2294)	7-6 13/16	(2307)	7-5 13/16	(2281)	2-5 1/16	(738)	1-7 19/32	(498)	20 27/32	(529)
	8-0	8-0 5/16	(2446)	8-0 13/16	(2459)	7-11 13/16	(2434)	2-7 1/16	(789)	1-9 19/32	(548)	22 27/32	(580)
	9-0	9-0 5/16	(2751)	9-0 13/16	(2764)	8-11 13/16	(2738)	2-11 1/16	(891)	2-1 19/32	(650)	26 27/32	(682)
4 Sash 1 Frame	10-6	10-6 5/16	(3208)	10-6 13/16	(3221)	10-5 13/16	(3196)	3-5 1/16	(1043)	2-7 19/32	(802)	32 27/32	(834)
	8-0	7-11 1/2	(2426)	8-0	(2438)	7-11	(2413)	1-11 1/16	(586)	1-1 19/32	(345)	14 27/32	(377)
	10-0	9-11 1/2	(3035)	10-0	(3048)	9-11	(3023)	2-5 1/16	(738)	1-7 19/32	(498)	20 27/32	(529)
	10-8	10-7 1/2	(3239)	10-8	(3251)	10-7	(3226)	2-7 1/16	(789)	1-9 19/32	(548)	22 27/32	(580)
	12-0	11-11 1/2	(3645)	12-0	(3658)	11-11	(3632)	2-11 1/16	(891)	2-1 19/32	(650)	26 27/32	(682)
14-0	13-11 1/2	(4255)	14-0	(4267)	13-11	(4242)	3-5 1/16	(1043)	2-7 19/32	(802)	32 27/32	(834)	
Height													
Unit Type	Call Number	Masonry Opening		Rough Opening		Frame Size		Sash OM		Daylight Opening		Glass Size	
		ft - in	mm	ft - in	mm	ft - in	mm	ft-in	mm	ft - in	mm	ft - in	mm
All Configurations	1-6	1-6 1/4	(464)	1-6 1/2	(470)	1-6	(457)	1-3 5/8	(397)	1-0 13/64	(310)	13 29/64	(342)
	2-0	2-0 1/4	(616)	2-0 1/2	(622)	2-0	(610)	1-9 5/8	(549)	1-6 13/64	(462)	19 29/64	(494)
	2-6	2-6 1/4	(768)	2-6 1/2	(775)	2-6	(762)	2-3 5/8	(702)	2-0 13/64	(615)	25 29/64	(647)

# INSWING FRENCH DOOR G2

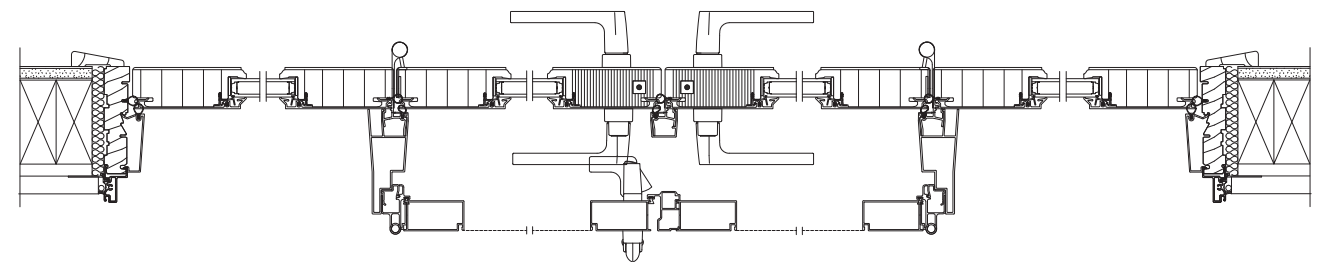
## CONSTRUCTION DETAILS



4 9/16\"/>



3 PANEL JAMB OXO RH  
WITH ULTIMATE SWINGING SCREEN

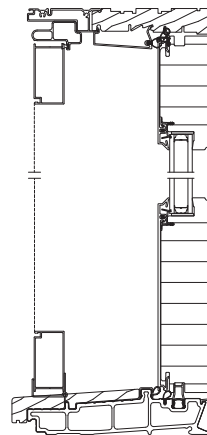


4 PANEL JAMB OXOX LH  
WITH ULTIMATE SWINGING SCREEN

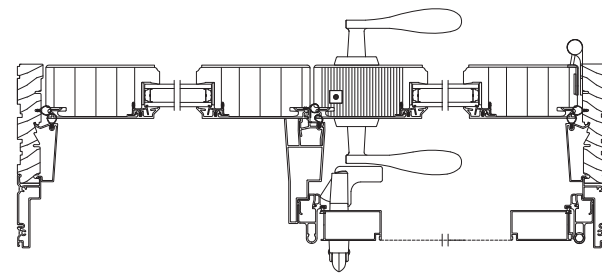
Ultimate Inswing French Door G2 Transoms: UIFDG2TR  
 Ultimate Outswing French Door G2 Transoms: UOFDG2TR

**INSWING FRENCH DOOR G2**

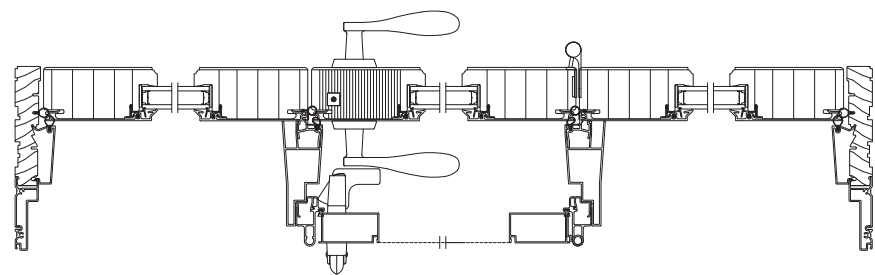
CONSTRUCTION DETAILS



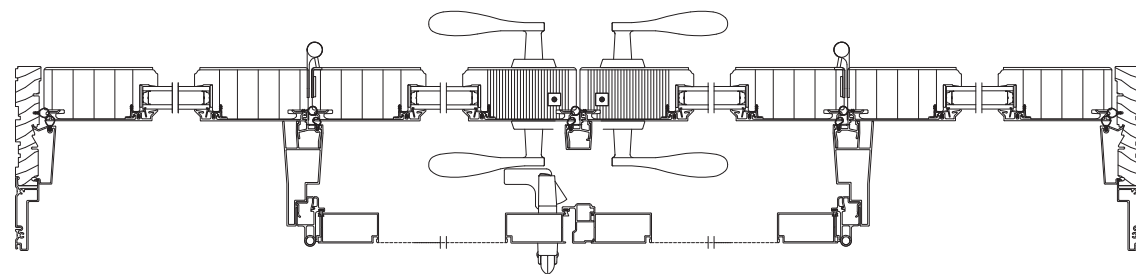
6 9/16" HEAD JAMB AND SILL  
WITH ULTIMATE SWINGING SCREEN



2 PANEL JAMB OX RH  
WITH ULTIMATE SWINGING SCREEN -



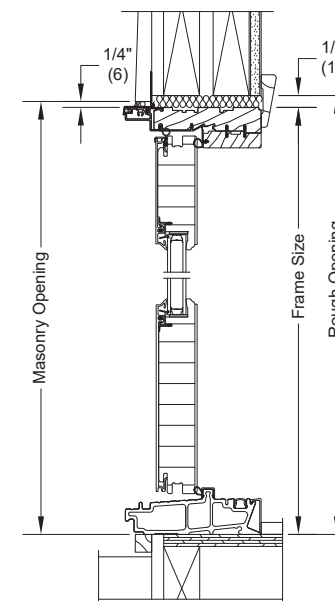
3 PANEL JAMB OXO RH  
WITH ULTIMATE SWINGING SCREEN



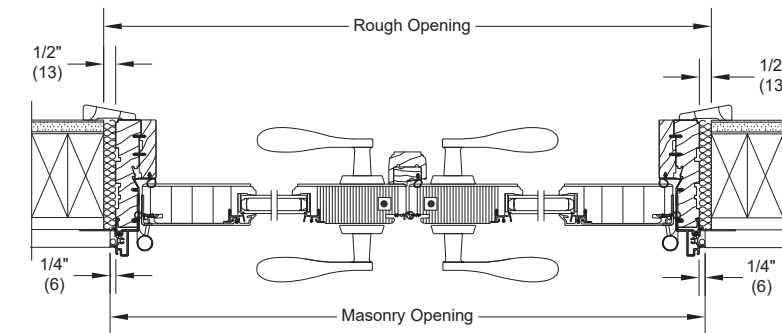
4 PANEL JAMB OXO LH  
WITH ULTIMATE SWINGING SCREEN

**OUTSWING FRENCH DOOR G2**

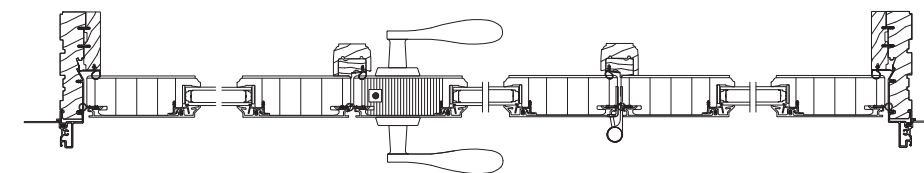
CONSTRUCTION DETAILS



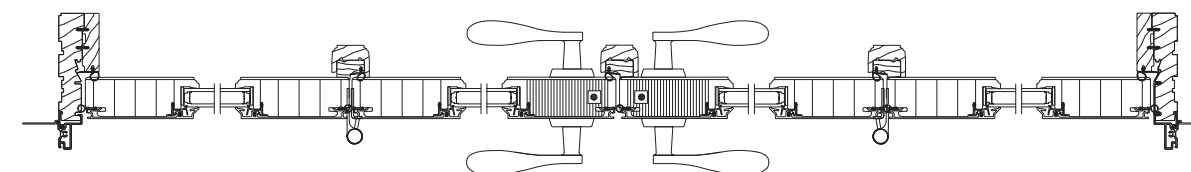
4 9/16" HEAD JAMB AND SILL



2 PANEL JAMB XX LH



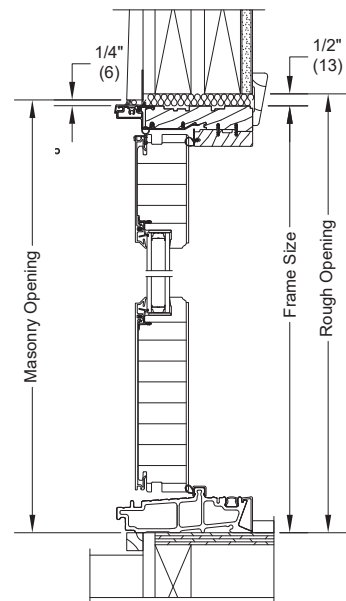
3 PANEL JAMB OXO LH-



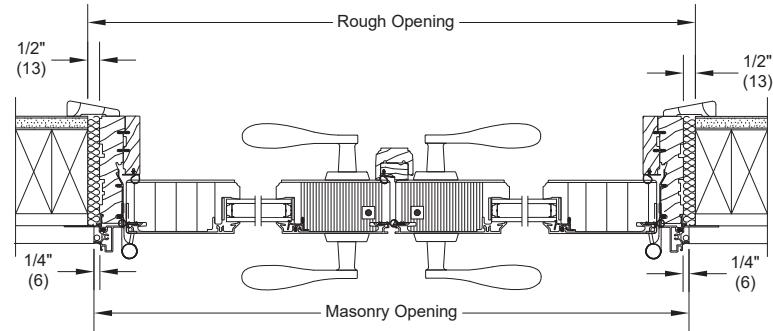
4 PANEL JAMB OXO LH

**OUTSWING FRENCH DOOR G2**

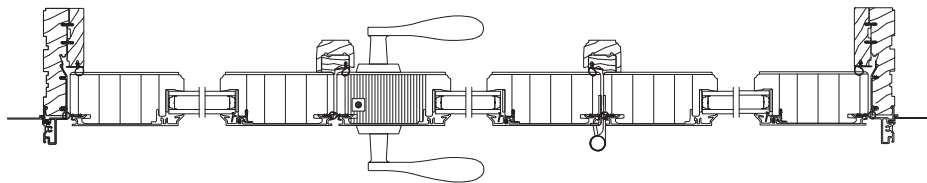
CONSTRUCTION DETAILS



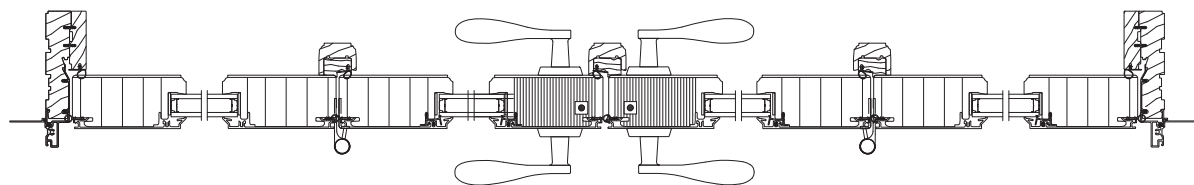
6 9/16" HEAD JAMB AND SILL



2 PANEL JAMB XX LH



3 PANEL JAMB OXO LH-



4 PANEL JAMB OXXO LH

**ULTIMATE INSWING / OUTSWING DOOR (3" STILES)**

SIZE CHART

Standard Inswing and Outswing Unit Measurements													
Width													
Unit Type	CN	Masonry Opening		Rough Opening		Frame Size		Panel OM		Daylight Std Opening		Standard Glass Size	
		ft - in	mm	ft - in	mm	ft - in	mm	ft-in	mm	ft - in	mm	in	mm
1 Panel	1-6	1-8 11/32	(517)	1-8 27/32	(529)	1-7 27/32	(504)	1-5 15/32	(444)	0-11 1/2	(292)	12 3/4	(324)
	2-6R	2-7 1/8	(791)	2-7 5/8	(803)	2-6 5/8	(778)	2-4 1/4	(718)	1-10 9/32	(566)	23 17/32	(598)
	3-0R	3-1 1/8	(943)	3-1 5/8	(956)	3-0 5/8	(930)	2-10 1/4	(870)	2-4 9/32	(718)	29 17/32	(750)
	2-0	2-1 15/16	(659)	2-2 7/16	(672)	2-1 7/16	(646)	1-11 1/16	(586)	1-5 3/32	(434)	18 11/32	(466)
	2-6	2-7 15/16	(811)	2-8 7/16	(824)	2-7 7/16	(799)	2-5 1/16	(738)	1-11 3/32	(587)	24 11/32	(618)
	2-8	2-9 15/16	(862)	2-10 7/16	(875)	2-9 7/16	(849)	2-7 1/16	(789)	2-1 3/32	(637)	26 11/32	(669)
	3-0	3-1 15/16	(964)	3-2 7/16	(976)	3-1 7/16	(951)	2-11 1/16	(891)	2-5 3/32	(739)	30 11/32	(771)
	3-6	3-7 15/16	(1116)	3-8 7/16	(1129)	3-7 7/16	(1103)	3-5 1/16	(1043)	2-11 3/32	(891)	36 11/32	(900)
2 Panel	5-0R*	4-11 1/2	(1511)	5-0	(1524)	4-11	(1499)	2-4 1/4	(718)	1-10 9/32	(566)	23 17/32	(598)
	6-0R*	5-11 1/2	(1816)	6-0	(1829)	5-11	(1803)	2-10 1/4	(870)	2-4 9/32	(718)	29 17/32	(750)
	4-0	4-1 1/8	(1248)	4-1 5/8	(1260)	4-0 5/8	(1235)	1-11 1/16	(586)	1-5 3/32	(434)	18 11/32	(466)
	5-0	5-1 1/8	(1553)	5-1 5/8	(1565)	5-0 5/8	(1540)	2-5 1/16	(738)	1-11 3/32	(587)	24 11/32	(618)
	5-4	5-5 1/8	(1654)	5-5 5/8	(1667)	5-4 5/8	(1641)	2-7 1/16	(789)	2-1 3/32	(637)	26 11/32	(669)
	6-0	6-1 1/8	(1857)	6-1 5/8	(1870)	6-0 5/8	(1845)	2-11 1/16	(891)	2-5 3/32	(739)	30 11/32	(771)
	7-0	7-1 1/8	(2162)	7-1 5/8	(2175)	7-0 5/8	(2149)	3-5 1/16	(1043)	2-11 3/32	(891)	36 11/32	(923)
	9-0R	8-9 7/8	(2689)	8-10 3/8	(2702)	8-9 3/8	(2677)	2-10 1/4	(870)	2-4 9/32	(718)	29 17/32	(750)
3 Panel	6-0	6-0 5/16	(1837)	6-0 13/16	(1849)	5-11 13/16	(1824)	1-11 1/16	(586)	1-5 3/32	(434)	18 11/32	(466)
	7-6	7-6 5/16	(2294)	7-6 13/16	(2307)	7-5 13/16	(2281)	2-5 1/16	(738)	1-11 3/32	(587)	24 11/32	(618)
	8-0	8-0 5/16	(2446)	8-0 13/16	(2459)	7-11 13/16	(2434)	2-7 1/16	(789)	2-1 3/32	(637)	26 11/32	(669)
	9-0	9-0 5/16	(2751)	9-0 13/16	(2764)	8-11 13/16	(2738)	2-11 1/16	(891)	2-5 3/32	(739)	30 11/32	(771)
	10-6	10-6 5/16	(3208)	10-6 13/16	(3221)	10-5 13/16	(3196)	3-5 1/16	(1043)	2-11 3/32	(891)	36 11/32	(923)
	8-0	7-11 1/2	(2426)	8-0	(2438)	7-11	(2413)	1-11 1/16	(586)	1-5 3/32	(434)	18 11/32	(466)
4 Panel	10-0	9-11 1/2	(3035)	10-0	(3048)	9-11	(3023)	2-5 1/16	(738)	1-11 3/32	(587)	24 11/32	(618)
	10-8	10-7 1/2	(3239)	10-8	(3251)	10-7	(3226)	2-7 1/16	(789)	2-1 3/32	(637)	26 11/32	(324)
	12-0	11-11 1/2	(3645)	12-0	(3658)	11-11	(3632)	2-11 1/16	(891)	2-5 3/32	(739)	30 11/32	(771)
	14-0	13-11 1/2	(4255)	14-0	(4267)	13-11	(4242)	3-5 1/16	(1043)	2-11 3/32	(891)	36 11/32	(923)
Height													
Unit Type	CN	Masonry Opening		Rough Opening		Frame Size		Panel OM		Daylight Std Opening		Standard Glass Size	
		ft - in	mm	ft - in	mm	ft - in	mm	ft-in	mm	ft - in	mm	in	mm
All Configurations	6-6R	6-7 3/4	(2026)	6-8	(2032)	6-7 1/2	(2019)	6-4 39/64	(1946)	5-10 41/64	(1619)	71 61/64	(1652)
	6-8	6-10 1/4	(2089)	6-10 1/2	(2096)	6-10	(2083)	6-7 7/64	(2009)	6-1 9/64	(1682)	74 29/64	(1716)
	7-0	7-2 1/4	(2191)	7-2 1/2	(2197)	7-2	(2184)	6-11 7/64	(2111)	6-5 9/64	(1784)	78 29/64	(1817)
	8-0	8-2 1/4	(2496)	8-2 1/2	(2502)	8-2	(2489)	7-11 7/64	(2416)	7-5 9/64	(2089)	90 29/64	(2122)
	9-0	9-2 1/4	(2800)	9-2 1/2	(2807)	9-2	(2794)	8-11 7/64	(2721)	8-5 9/64	(2394)	102 29/64	(2427)
	10-0	10-2 1/4	(3105)	10-2 1/2	(3112)	10-2	(3099)	9-11 7/64	(3025)	9-5 9/64	(2698)	114 29/64	(2732)

Ultimate Inswing Door: UID  
 Ultimate Outswing Door: UOD

- Inswing Doors and Outswing Doors are 2 1/4" panels
- Inswing Doors require 6 9/16" jamb.
- Some configurations require KD.

For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

# INSWING / OUTSWING DOOR (3" STILES) TRANSOMS

## SIZE CHART

Standard Ultimate Inswing/Outswing Door In-Sash Transom Unit Measurements													
Width													
Unit Type	Call Number	Masonry Opening		Rough Opening		Frame Size		Sash OM		Daylight Opening		Glass Size	
		ft - in	mm	ft - in	mm	ft - in	mm	ft-in	mm	ft - in	mm	ft-in	mm
1 Sash 1 Frame	1-6	1-8 11/32	(517)	1-8 27/32	(529)	1-7 27/32	(504)	1-5 15/32	(444)	0-11 1/2	(292)	1-0 3/4	(324)
	2-0	2-1 15/16	(659)	2-2 7/16	(672)	2-1 7/16	(646)	1-11 1/16	(586)	1-5 3/32	(434)	1-6 11/32	(466)
	2-6	2-7 15/16	(811)	2-8 7/16	(824)	2-7 7/16	(799)	2-5 1/16	(738)	1-11 3/32	(587)	2-0 11/32	(618)
	2-8	2-9 15/16	(862)	2-10 7/16	(875)	2-9 7/16	(849)	2-7 1/16	(789)	2-1 3/32	(637)	2-2 11/32	(669)
	3-0	3-1 15/16	(964)	3-2 7/16	(976)	3-1 7/16	(951)	2-11 1/16	(891)	2-5 3/32	(739)	2-6 11/32	(771)
	3-6	3-7 15/16	(1116)	3-8 7/16	(1129)	3-7 7/16	(1103)	3-5 1/16	(1043)	2-11 3/32	(891)	3-0 11/32	(923)
	4-0	4-1 1/8	(1248)	4-1 5/8	(1260)	4-0 5/8	(1235)	3-10 1/4	(1175)	3-4 9/32	(1023)	3-5 17/32	(1055)
	5-0	5-1 1/8	(1553)	5-1 5/8	(1565)	5-0 5/8	(1540)	4-10 1/4	(1480)	4-4 9/32	(1328)	4-5 17/32	(1360)
	5-4	5-5 1/8	(1654)	5-5 5/8	(1667)	5-4 5/8	(1641)	5-2 1/4	(1581)	4-8 9/32	(1430)	4-9 17/32	(1461)
	6-0	6-1 1/8	(1857)	6-1 5/8	(1870)	6-0 5/8	(1845)	5-10 1/4	(1784)	5-4 9/32	(1633)	5-5 17/32	(1664)
7-0	7-1 1/8	(2162)	7-1 5/8	(2175)	7-0 5/8	(2149)	6-10 1/4	(2089)	6-4 9/32	(1938)	6-5 17/32	(1969)	
2 Sash 1 Frame	4-0	4-1 1/8	(1248)	4-1 5/8	(1260)	4-0 5/8	(1235)	1-11 1/16	(586)	1-5 3/32	(434)	1-6 11/32	(466)
	5-0	5-1 1/8	(1553)	5-1 5/8	(1565)	5-0 5/8	(1540)	2-5 1/16	(738)	1-11 3/32	(587)	2-0 11/32	(618)
	5-4	5-5 1/8	(1654)	5-5 5/8	(1667)	5-4 5/8	(1641)	2-7 1/16	(789)	2-1 3/32	(637)	2-2 11/32	(669)
	6-0	6-1 1/8	(1857)	6-1 5/8	(1870)	6-0 5/8	(1845)	2-11 1/16	(891)	2-5 3/32	(739)	2-6 11/32	(771)
	7-0	7-1 1/8	(2162)	7-1 5/8	(2175)	7-0 5/8	(2149)	3-5 1/16	(1043)	2-11 3/32	(891)	3-0 11/32	(923)
3 Sash 1 Frame	6-0	6-0 5/16	(1837)	6-0 13/16	(1849)	5-11 13/16	(1824)	1-11 1/16	(586)	1-5 3/32	(434)	1-6 11/32	(466)
	7-6	7-6 5/16	(2294)	7-6 13/16	(2307)	7-5 13/16	(2281)	2-5 1/16	(738)	1-11 3/32	(587)	2-0 11/32	(618)
	8-0	8-0 5/16	(2446)	8-0 13/16	(2459)	7-11 13/16	(2434)	2-7 1/16	(789)	2-1 3/32	(637)	2-2 11/32	(669)
	9-0	9-0 5/16	(2751)	9-0 13/16	(2764)	8-11 13/16	(2738)	2-11 1/16	(891)	2-5 3/32	(739)	2-6 11/32	(771)
	10-6	10-6 5/16	(3208)	10-6 13/16	(3221)	10-5 13/16	(3196)	3-5 1/16	(1043)	2-11 3/32	(891)	3-0 11/32	(923)
4 Sash 1 Frame	8-0	7-11 1/2	(2426)	8-0	(2438)	7-11	(2413)	1-11 1/16	(586)	1-5 3/32	(434)	1-6 11/32	(466)
	10-0	9-11 1/2	(3035)	10-0	(3048)	9-11	(3023)	2-5 1/16	(738)	1-11 3/32	(587)	2-0 11/32	(618)
	10-8	10-7 1/2	(3239)	10-8	(3251)	10-7	(3226)	2-7 1/16	(789)	2-1 3/32	(637)	2-2 11/32	(669)
	12-0	11-11 1/2	(3645)	12-0	(3658)	11-11	(3632)	2-11 1/16	(891)	2-5 3/32	(739)	2-6 11/32	(771)
	14-0	13-11 1/2	(4255)	14-0	(4267)	13-11	(4242)	3-5 1/16	(1043)	2-11 3/32	(891)	3-0 11/32	(923)
Height													
Unit Type	Call Number	Masonry Opening		Rough Opening		Frame Size		Sash OM		Daylight Opening		Glass Size	
		ft - in	mm	ft - in	mm	ft - in	mm	ft-in	mm	ft - in	mm	ft - in	mm
All Configurations	1-6	1-6 1/4	(464)	1-6 1/2	(470)	1-6	(457)	1-3 5/8	(397)	1-0 13/64	(310)	13 29/64	(342)
	2-0	2-0 1/4	(616)	2-0 1/2	(622)	2-0	(610)	1-9 5/8	(549)	1-3 5/8	(397)	19 29/64	(494)
	2-6	2-6 1/4	(768)	2-6 1/2	(775)	2-6	(762)	2-3 5/8	(702)	1-9 5/8	(549)	25 29/64	(647)

- Transom sash are 1 3/4" panels.
- Tripane transom sash are 2 1/4" panels.

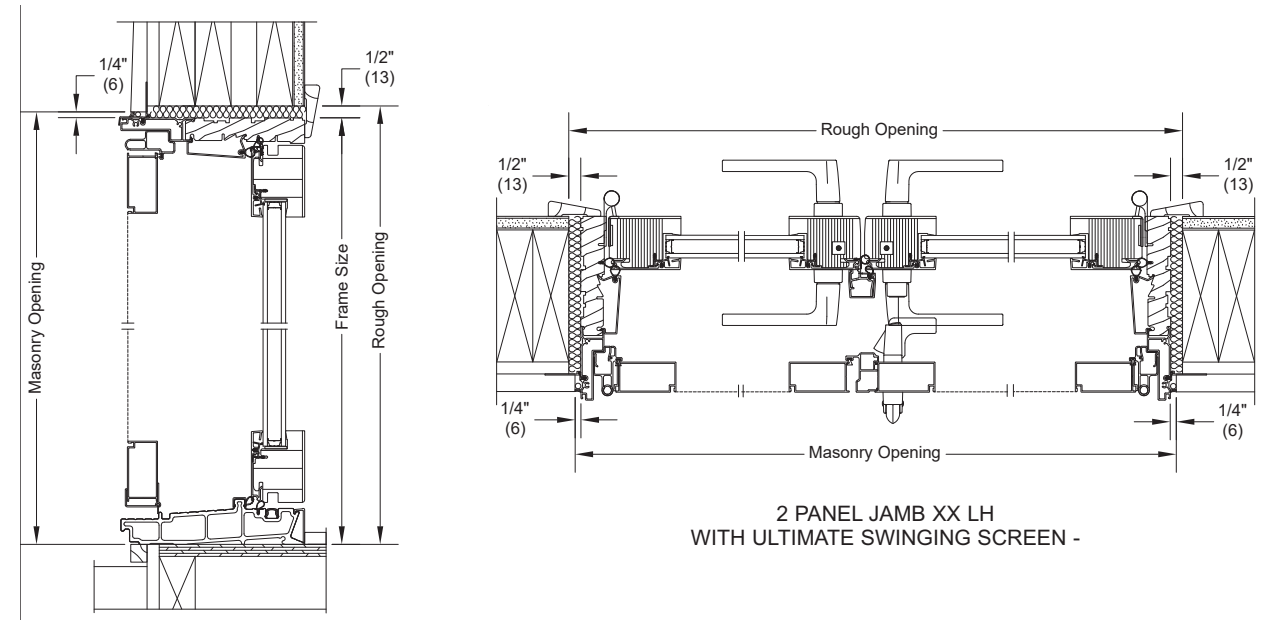
Please consult your local Marvin representative for masonry openings that include casings and subsills.

For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

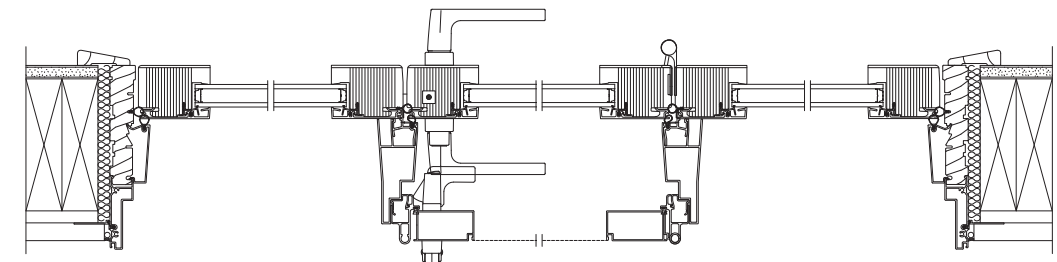
Ultimate Inswing Door Transoms: UIDTR  
 Ultimate Outswing Door Transoms: UODTR

# INSWING DOOR (3" STILES)

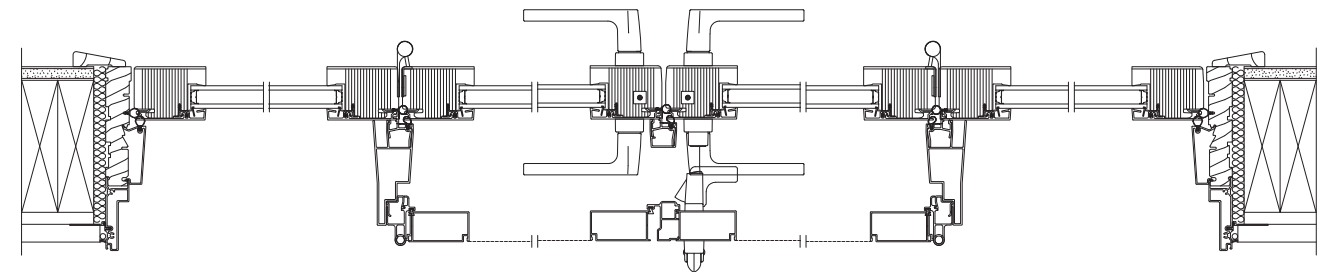
## CONSTRUCTION DETAILS



HEAD JAMB AND SILL WITH ULTIMATE SWINGING SCREEN



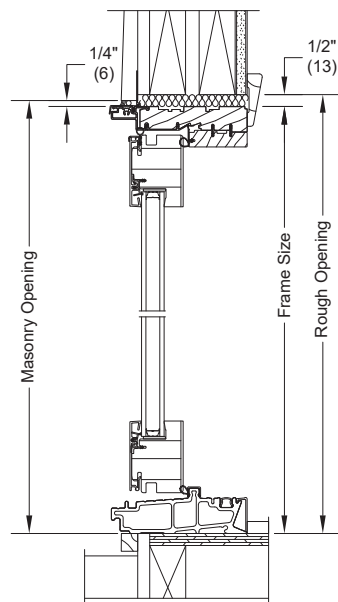
3 PANEL JAMB OXO RH WITH ULTIMATE SWINGING SCREEN



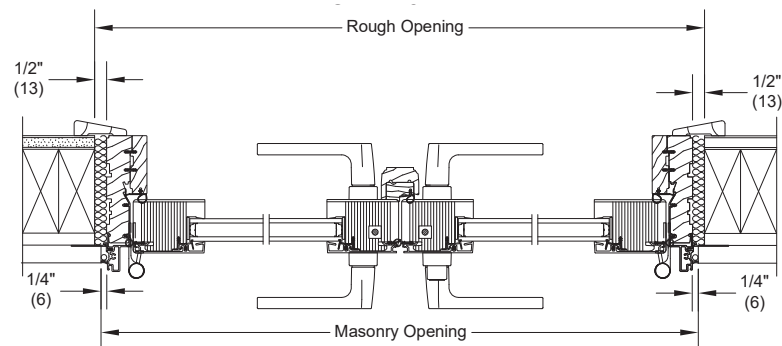
4 PANEL JAMB OXXO LH WITH ULTIMATE SWINGING SCREEN

# OUTSWING DOOR (3" STILES)

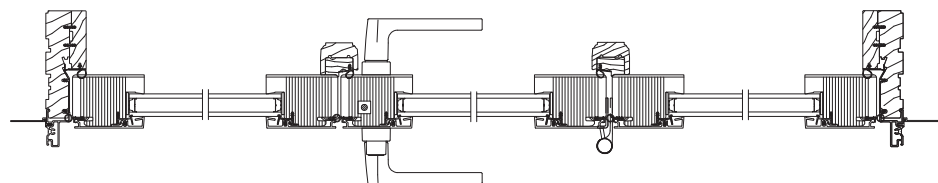
## CONSTRUCTION DETAILS



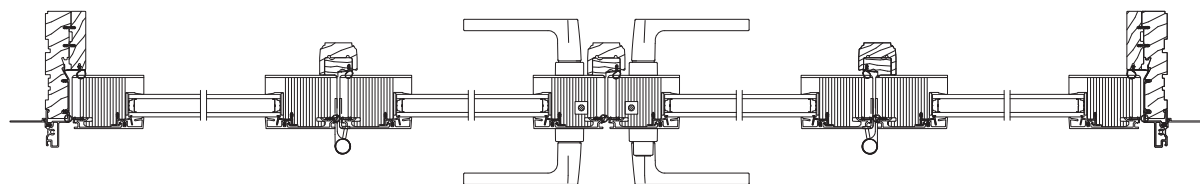
HEAD JAMB AND SILL



2 PANEL JAMB XX LH



3 PANEL JAMB OXO LH-



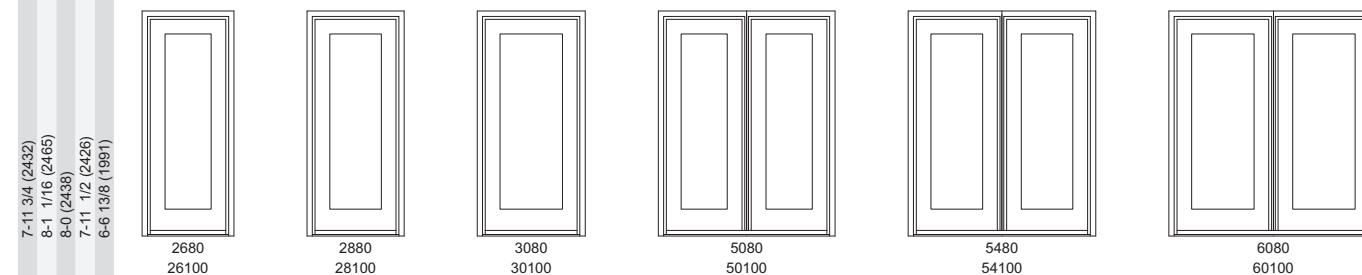
4 PANEL JAMB OXXO LH

# WOOD INSWING / OUTSWING FRENCH DOOR 2 1/4"

## ELEVATIONS

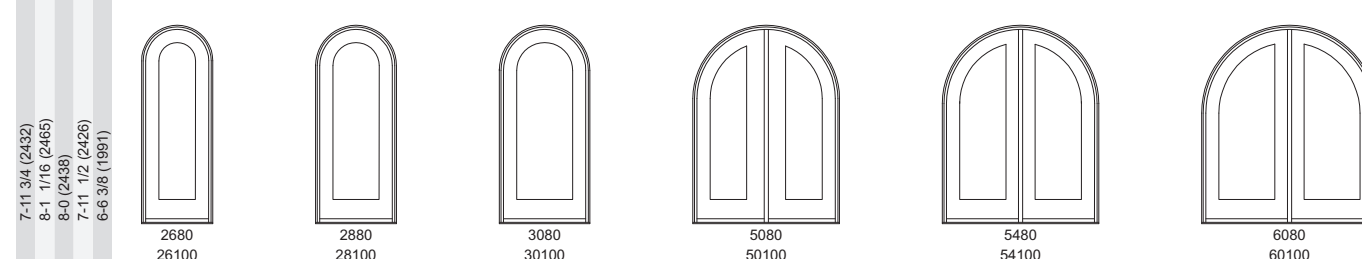
8/0 HEIGHT RECTANGLE INSWING AND OUTSWING (10/0 HEIGHT SEE BELOW)

Clad MO (mm)	2-7 15/16 (811)	2-9 15/16 (862)	3-1 15/16 (964)	5-1 1/8 (1533)	5-5 1/8 (1654)	6-1 1/8 (1857)
Wood MO (mm)	2-10 9/16 (878)	3-0 9/16 (929)	3-4 9/16 (1030)	5-3 3/4 (1619)	5-7 3/4 (1721)	6-3 3/4 (1924)
RO (mm)	2-8 7/16 (824)	2-10 7/16 (875)	3-2 7/16 (976)	5-1 5/8 (1565)	5-5 5/8 (1667)	6-1 5/8 (1870)
FS (mm)	2-7 7/16 (799)	2-9 7/16 (849)	3-1 7/16 (951)	5-0 5/8 (1540)	5-4 5/8 (1641)	6-0 5/8 (1845)
DLO (mm)	1-5 3/32 (434)	1-7 3/32 (485)	1-11 3/32 (587)	1-5 3/32 (434)	1-7 3/32 (485)	1-11 3/32 (587)



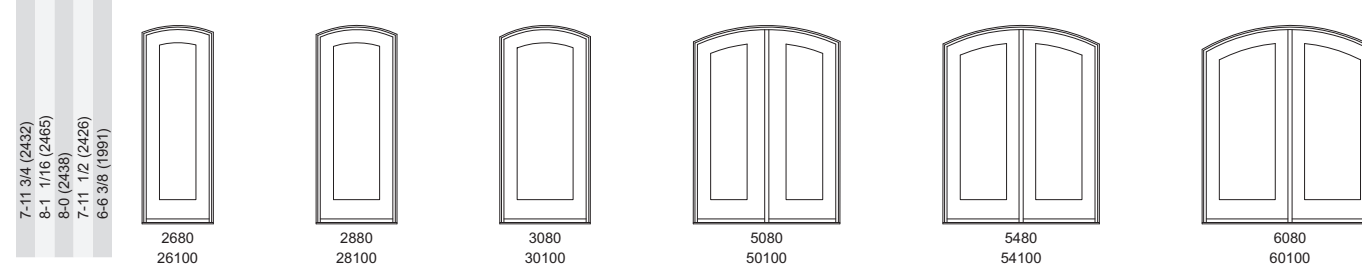
8/0 HEIGHT ARCHTOP RT2 INSWING AND OUTSWING (10/0 HEIGHT SEE BELOW)

Clad MO (mm)	2-7 15/16 (811)	2-9 15/16 (862)	3-1 15/16 (964)	5-1 1/8 (1533)	5-5 1/8 (1654)	6-1 1/8 (1857)
Wood MO (mm)	2-10 9/16 (878)	3-0 9/16 (929)	3-4 9/16 (1030)	5-3 3/4 (1619)	5-7 3/4 (1721)	6-3 3/4 (1924)
RO (mm)	2-8 7/16 (824)	2-10 7/16 (875)	3-2 7/16 (976)	5-1 5/8 (1565)	5-5 5/8 (1667)	6-1 5/8 (1870)
FS (mm)	2-7 7/16 (799)	2-9 7/16 (849)	3-1 7/16 (951)	5-0 5/8 (1540)	5-4 5/8 (1641)	6-0 5/8 (1845)
DLO (mm)	1-5 3/32 (434)	1-7 3/32 (485)	1-11 3/32 (587)	1-5 3/32 (434)	1-7 3/32 (485)	1-11 3/32 (587)



8/0 HEIGHT ARCHTOP RT6 INSWING AND OUTSWING (10/0 HEIGHT SEE BELOW)

Clad MO (mm)	2-7 15/16 (811)	2-9 15/16 (862)	3-1 15/16 (964)	5-1 1/8 (1533)	5-5 1/8 (1654)	6-1 1/8 (1857)
Wood MO (mm)	2-10 9/16 (878)	3-0 9/16 (929)	3-4 9/16 (1030)	5-3 3/4 (1619)	5-7 3/4 (1721)	6-3 3/4 (1924)
RO (mm)	2-8 7/16 (824)	2-10 7/16 (875)	3-2 7/16 (976)	5-1 5/8 (1565)	5-5 5/8 (1667)	6-1 5/8 (1870)
FS (mm)	2-7 7/16 (799)	2-9 7/16 (849)	3-1 7/16 (951)	5-0 5/8 (1540)	5-4 5/8 (1641)	6-0 5/8 (1845)
DLO (mm)	1-5 3/32 (434)	1-7 3/32 (485)	1-11 3/32 (587)	1-5 3/32 (434)	1-7 3/32 (485)	1-11 3/32 (587)

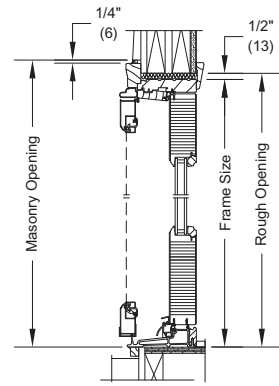


10-0 HEIGHTS:	
	10-0 Height
Clad MO (mm)	9-1 3/4 (2788)
Wood MO (mm)	10-1 1/16 (3075)
RO (mm)	10-0 (3048)
FS (mm)	9-11 1/2 (3035)
DLO (mm)	8-6 3/8 (2600) O.A.

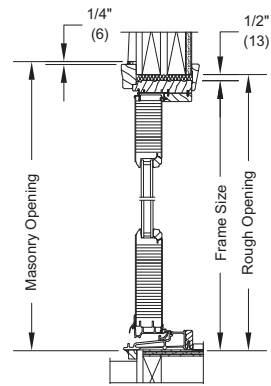
Ultimate Wood Inswing French Door 2 1/4 inch: UWIFD2.25  
 Ultimate Wood Outswing French Door 2 1/4 inch: UWOFD2.25

# WOOD INSWING / WOOD OUTSWING FRENCH DOOR 2 1/4"

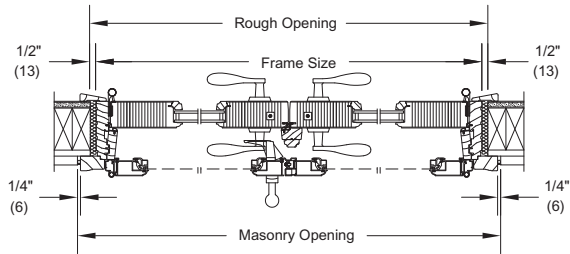
## CONSTRUCTION DETAILS



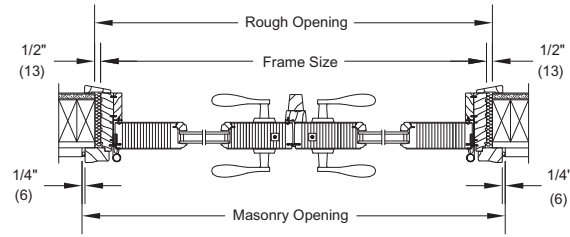
**WOOD INSWING  
HEAD JAMB AND SILL  
WITH ULTIMATE SWINGING  
SCREEN**



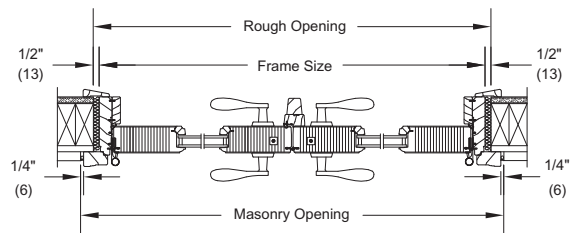
**WOOD OUTSWING  
HEAD JAMB AND SILL**



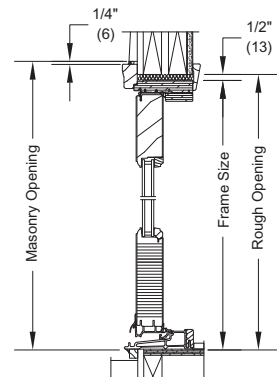
**WOOD INSWING 2 PANEL JAMB XXLHI  
WITH ULTIMATE SWINGING SCREEN**



**WOOD OUTSWING  
2 PANEL JAMB XXRHO**



**WOOD ARCHTOP OUTSWING  
2 PANEL JAMB XXR**



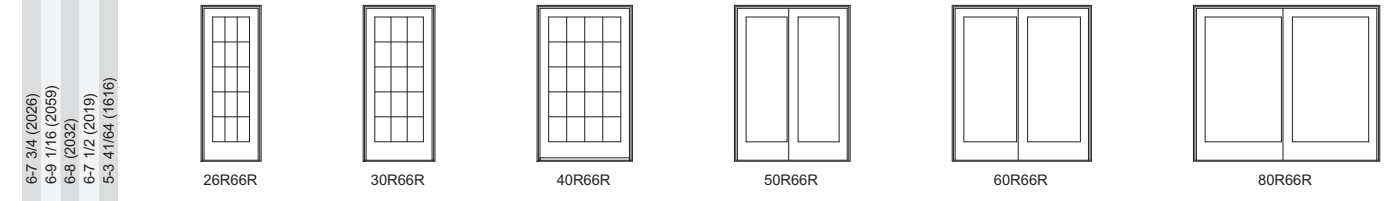
**WOOD ARCHTOP OUTSWING  
HEAD JAMB AND SILL**

Details and Elevations not to scale.  
Please consult your local Marvin representative for more information.  
For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

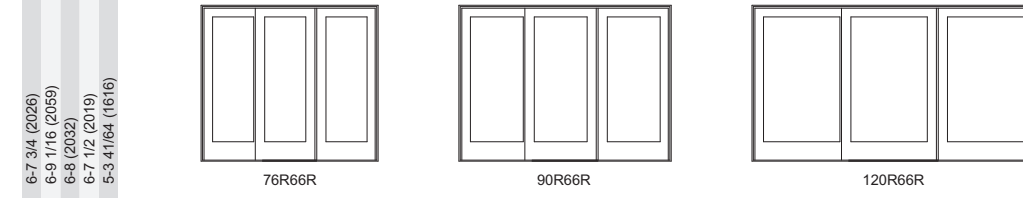
# SLIDING FRENCH DOOR

## 6-6R HEIGHT

<b>Clad MO (mm)</b>	2-7 1/8 (791)	3-1 1/8 (943)	4-1 1/8 (1248)	4-11 1/2 (1511)	5-11 1/2 (1816)	7-11 1/2 (2426)
<b>Wood MO (mm)</b>	2-9 3/4 (857)	3-3 3/4 (1010)	4-3 3/4 (1314)	5-2 1/8 (1578)	6-2 1/8 (1883)	8-2 1/8 (2492)
<b>RO (mm)</b>	2-7 5/8 (803)	3-1 5/8 (956)	4-1 5/8 (1260)	5-0 (1524)	6-0 (1829)	8-0 (2438)
<b>FS (mm)</b>	2-6 5/8 (778)	3-0 5/8 (930)	4-0 5/8 (1235)	4-11 (1499)	5-11 (1803)	7-11 (2413)
<b>DLO (mm)</b>	1-6 25/32 (477)	2-0 25/32 (629)	3-0 25/32 (934)	1-7 19/32 (498)	2-1 19/32 (650)	3-1 19/32 (955)



<b>Clad MO (mm)</b>	7-6 3/4 (2306)	9-0 3/4 (2763)	12-0 3/4 (3677)
<b>Wood MO (mm)</b>	7-9 3/8 (2373)	8-9 3/8 (2677)	12-3 3/8 (3744)
<b>RO (mm)</b>	7-7 1/4 (2319)	9-1 1/4 (2776)	12-1 1/4 (3690)
<b>FS (mm)</b>	7-6 1/4 (2293)	9-0 1/4 (2750)	12-0 1/4 (3665)
<b>DLO (mm)</b>	1-8 15/16 (532)	2-2 15/16 (684)	3-2 15/16 (989)



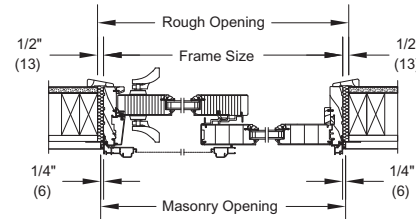
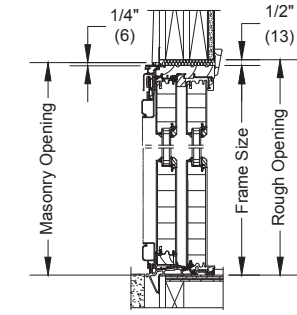
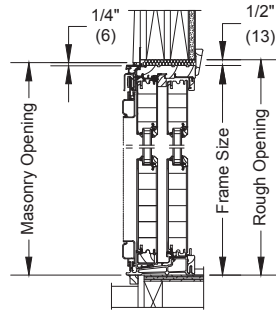
Details and Elevations not to scale.  
O: STATIONARY X: OPERATING L: LEFT HAND R: RIGHT HAND  
R = Retro Size  
• Lite patterns shown are for standard, SDL and ADL in 6-6 and 6-8 heights. The standard lite pattern for 8-0 height is a 6 high lite cut. Standard lite cut for 9-0 height is a 7 high lite cut.  
• All glass is tempered.  
• Right or left hand operation is determined by the direction the door panel travels to open position, as viewed from exterior. OXXO can be ordered Left active or Right active.  
• Available in clad 6-8 height only.  
Please consult your local Marvin representative for masonry openings that include casings and subsills.

For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

Ultimate Sliding French Door: USFD

# SLIDING FRENCH DOOR

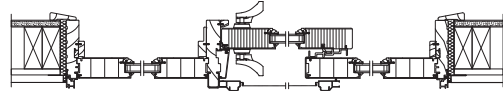
## CONSTRUCTION DETAILS



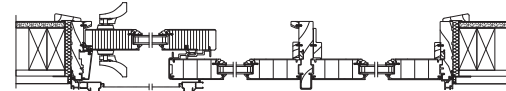
ULTIMATE SLIDING FRENCH DOOR HEAD JAMB AND SILL WITH ULTIMATE SLIDING SCREEN

ULTIMATE SLIDING FRENCH DOOR HEAD JAMB AND SILL WITH ULTIMATE SLIDING SCREEN

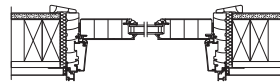
ULTIMATE SLIDING FRENCH DOOR 2 PANEL JAMB XO WITH ULTIMATE SLIDING SCREEN



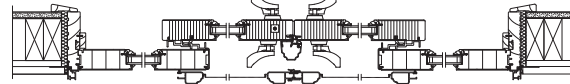
ULTIMATE SLIDING FRENCH DOOR 3 PANEL JAMB OXO R WITH ULTIMATE SLIDING SCREEN



ULTIMATE SLIDING FRENCH DOOR 3 PANEL JAMB X00 WITH ULTIMATE SLIDING SCREEN

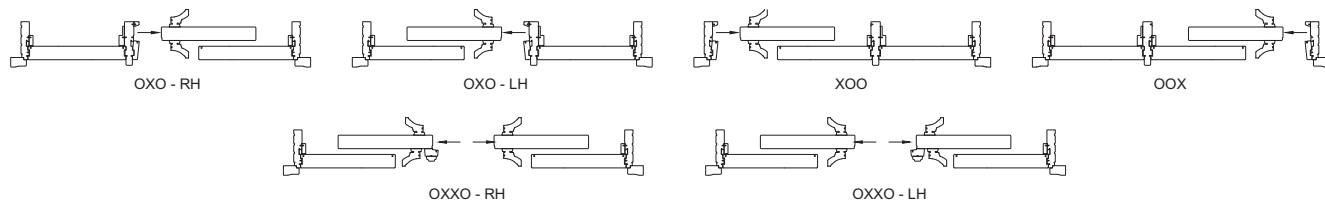
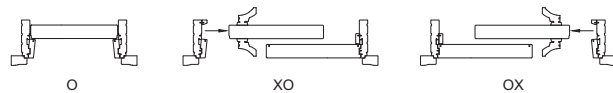


ULTIMATE SLIDING FRENCH DOOR 1 PANEL JAMB O STATIONARY



ULTIMATE SLIDING FRENCH DOOR 4 PANEL JAMB OXXO R WITH ULTIMATE SLIDING SCREEN

## PANEL CONFIGURATIONS



# SLIDING FRENCH DOOR TRANSOMS

1 FRAME 1 SASH 1/6 HEIGHT (2/0 AND 2/6 HEIGHTS SEE BELOW)

Clad MO (mm)	2-7 15/16 (811)	3-1 15/16 (964)	4-1 15/16 (1268)	5-1 1/8 (1553)	6-1 1/8 (1857)	8-1 1/8 (2467)
RO (mm)	2-8 7/16 (824)	3-2 7/16 (976)	4-2 7/16 (1281)	5-1 5/8 (1565)	6-1 5/8 (1870)	8-1 5/8 (2480)
FS (mm)	2-7 7/16 (799)	3-1 7/16 (951)	4-1 7/16 (1256)	5-0 5/8 (1540)	6-0 5/8 (1845)	8-0 5/8 (2454)
DLO (mm)	1-7 19/32 (498)	2-1 19/32 (650)	3-1 19/32 (955)	4-0 25/32 (1239)	5-0 25/32 (1544)	7-0 25/32 (2153)

1-6 1/4 (464)	2616	3016	4016	5016	6016	8016
1-8 1/4 (514)	2620	3020	4020	5020	6020	8020
1-6 1/2 (470)	2626	3026	4026	5026	6026	8026
1-6 (457)						
0-9 5/16 (237)						

1 FRAME 1 SASH WITH CENTER STILE 1/6 HEIGHT (2/0 AND 2/6 HEIGHTS SEE BELOW)

Clad MO (mm)	5-1 1/8 (1553)	6-1 1/8 (1857)	8-1 1/8 (2467)
RO (mm)	5-1 5/8 (1565)	6-1 5/8 (1870)	8-1 5/8 (2480)
FS (mm)	5-0 5/8 (1540)	6-0 5/8 (1845)	8-0 5/8 (2454)
DLO (mm)	1-9 3/4 (552)	2-3 3/4 (705)	3-3 3/4 (1010)

1-6 1/4 (464)	5016	6016	8016
1-8 1/4 (514)	5020	6020	8020
1-6 1/2 (470)	5026	6026	8026
1-6 (457)			
0-9 5/16 (237)			

1 FRAME 2 SASH WITH CENTER STILE 1/6 HEIGHT (2/0 AND 2/6 HEIGHTS SEE BELOW)

Clad MO (mm)	7-9 1/4 (2369)	9-3 1/4 (2826)	12-3 1/4 (3740)
RO (mm)	7-9 3/4 (2381)	9-3 3/4 (2838)	12-3 3/4 (3753)
FS (mm)	7-8 3/4 (2356)	9-2 3/4 (2813)	12-2 3/4 (3727)
DLO (mm)	1-9 3/4 (552)	2-3 3/4 (705)	3-3 3/4 (1010)

1-6 1/4 (464)	7616	9016	12016
1-8 1/4 (514)	7620	9020	12020
1-6 1/2 (470)	7626	9026	12026
1-6 (457)			
0-9 5/16 (237)			

1 FRAME 2 SASH WITH 2 CENTER STILE 1/6 HEIGHT (2/0 AND 2/6 HEIGHTS SEE BELOW)

Clad MO (mm)	9-11 1/2 (3035)	11-11 1/2 (3645)	15-11 1/2 (4864)
RO (mm)	10-0 (3048)	12-0 (3658)	16-0 (4877)
FS (mm)	9-11 (3023)	11-11 (3632)	15-11 (4851)
DLO (mm)	1-9 3/4 (552)	2-3 3/4 (705)	3-3 3/4 (1010)

1-6 1/4 (464)	10016	12016	16016
1-8 1/4 (514)	10020	12020	16020
1-6 1/2 (470)	10026	12026	16026
1-6 (457)			
0-9 5/16 (237)			

2-0 and 2-6 Heights:		
	2-0 Height	2-6 Height
Clad MO (mm)	2-0 1/4 (616)	2-6 1/4 (768)
RO (mm)	2-0 1/2 (622)	2-6 1/2 (775)
FS (mm)	2-0 (610)	2-6 (762)
DLO (mm)	1-3 5/16 (389)	1-9 5/16 (541)

Details and Elevations not to scale.  
 • Some transoms available factory mullied.  
 Please consult your local Marvin representative for information on structural mulling guidelines and masonry openings that include casings and subsills.  
 For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

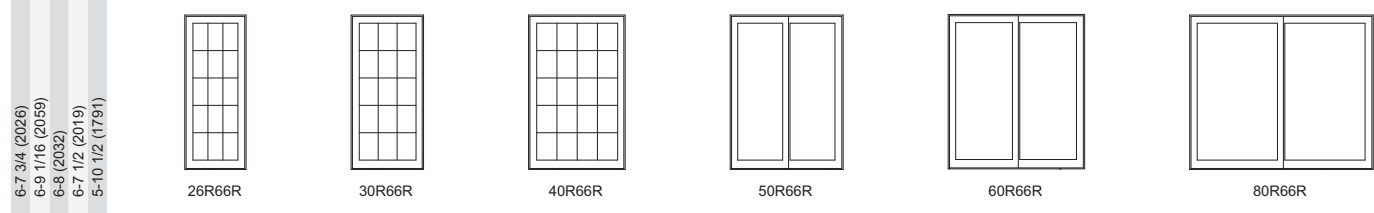
Ultimate Sliding French Door Transom: USFDTR



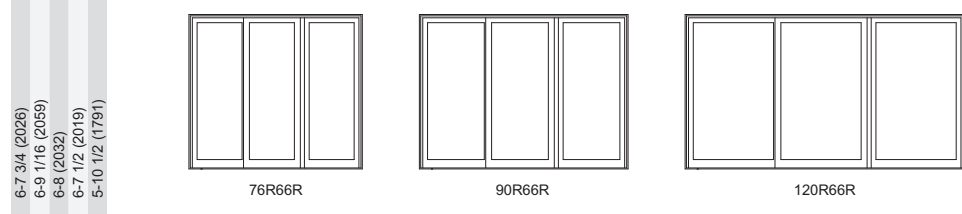
# SLIDING PATIO DOOR

6-6R HEIGHT

<b>Clad MO (mm)</b>	2-8 7/16 (824)	3-2 7/16 (976)	4-2 7/16 (1281)	4-11 1/2 (1511)	5-11 1/2 (1816)	7-11 1/2 (2426)
<b>RO (mm)</b>	2-8 15/16 (837)	3-2 15/16 (989)	4-2 15/16 (1294)	5-0 (1524)	6-0 (1829)	8-0 (2438)
<b>FS (mm)</b>	2-7 15/16 (812)	3-1 15/16 (964)	4-1 15/16 (1268)	4-11 (1499)	5-11 (1803)	7-11 (2413)
<b>DLO (mm)</b>	1-11 5/8 (600)	2-5 5/8 (752)	3-5 5/8 (1057)	2-0 7/16 (621)	2-5 5/8 (752)	3-6 7/16 (1078)



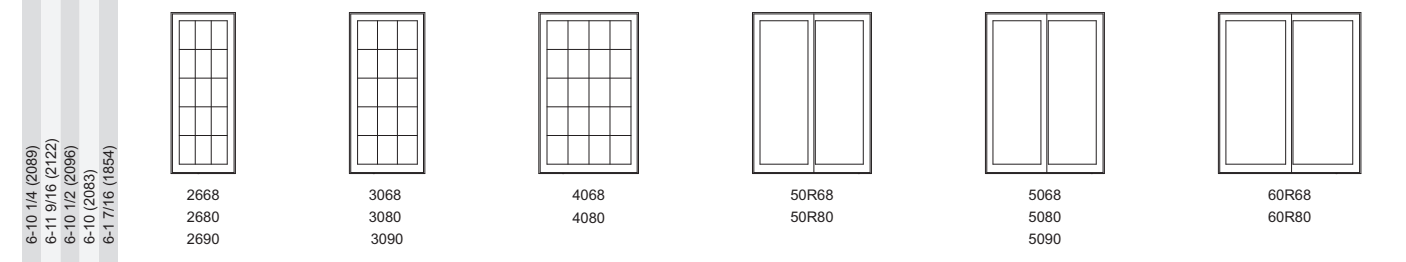
<b>Clad MO (mm)</b>	7-6 13/16 (2307)	9-0 13/16 (2764)	12-0 13/16 (3678)
<b>RO (mm)</b>	7-7 5/16 (2319)	9-1 5/16 (2777)	12-1 5/16 (3691)
<b>FS (mm)</b>	7-6 5/16 (2294)	9-0 5/16 (2751)	12-0 5/16 (3666)
<b>DLO (mm)</b>	1-11 5/8 (600)	2-5 5/8 (752)	3-5 5/8 (1057)



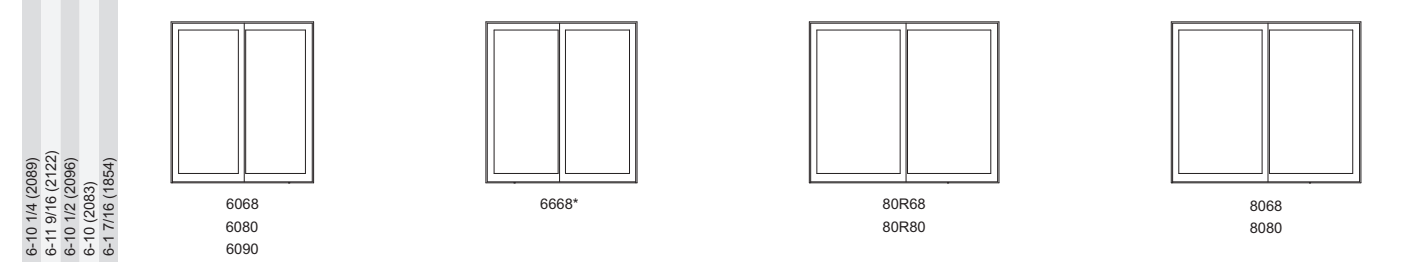
# SLIDING PATIO DOOR

6-8 HEIGHT (8-0 AND 9-0 HEIGHT SEE BELOW)

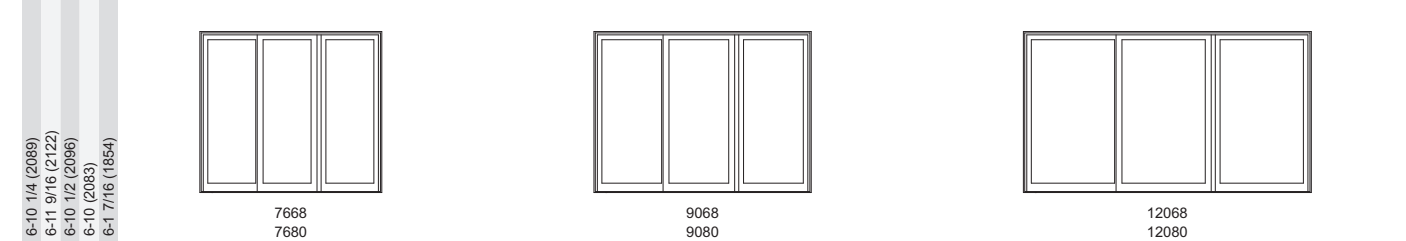
<b>Clad MO (mm)</b>	2-9 1/4 (845)	3-3 1/4 (997)	4-3 1/4 (1302)	4-11 1/2 (1511)	5-1 1/8 (1553)	5-11 1/2 (1816)
<b>RO (mm)</b>	2-9 3/4 (857)	3-3 3/4 (1010)	4-3 3/4 (1314)	5-0 (1524)	5-1 5/8 (1565)	6-0 (1829)
<b>FS (mm)</b>	2-8 3/4 (833)	3-2 3/4 (985)	4-2 3/4 (1290)	4-11 (1499)	5-0 5/8 (1540)	5-11 (1803)
<b>DLO (mm)</b>	2-0 7/16 (621)	2-6 7/16 (773)	3-6 7/16 (1078)	1-11 5/8 (600)	2-0 7/16 (621)	2-5 5/8 (752)



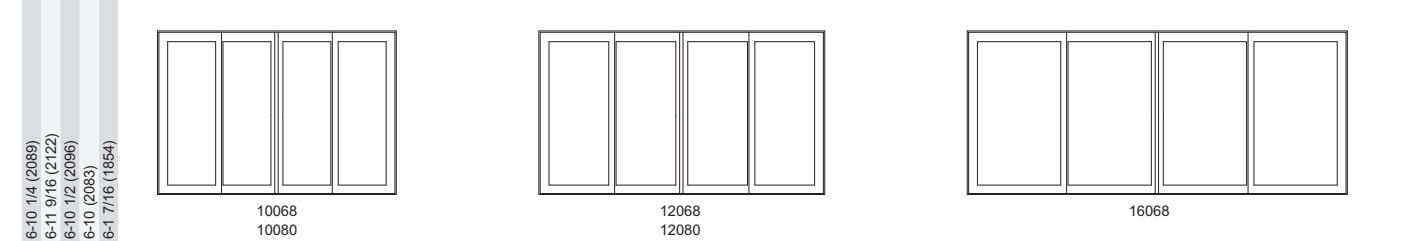
<b>Clad MO (mm)</b>	6-1 1/8 (1857)	6-5 1/2 (1969)	7-11 1/2 (2426)	8-1 1/8 (2467)
<b>RO (mm)</b>	6-1 5/8 (1870)	6-6 (1981)	8-0 (2438)	8-1 5/8 (2480)
<b>FS (mm)</b>	6-0 5/8 (1845)	6-5 (1956)	7-11 (2413)	8-0 5/8 (2454)
<b>DLO (mm)</b>	2-6 7/16 (773)	2-8 5/8 (829)	3-5 5/8 (1057)	3-6 7/16 (1078)



<b>Clad MO (mm)</b>	7-9 1/4 (2368)	9-3 1/4 (2825)	12-3 1/4 (3740)
<b>RO (mm)</b>	7-9 3/4 (2380)	9-3 3/4 (2838)	12-3 3/4 (3753)
<b>FS (mm)</b>	7-8 3/4 (2355)	9-2 3/4 (2812)	12-2 3/4 (3727)
<b>DLO (mm)</b>	2-0 7/16 (621)	2-6 7/16 (773)	3-6 7/16 (1078)



<b>Clad MO (mm)</b>	9-11 1/2 (3035)	11-11 1/2 (3645)	15-11 1/2 (4864)
<b>RO (mm)</b>	10-0 (3048)	12-0 (3658)	16-0 (4877)
<b>FS (mm)</b>	9-11 (3023)	11-11 (3632)	15-11 (4851)
<b>DLO (mm)</b>	2-0 7/16 (621)	2-6 7/16 (773)	3-6 7/16 (1078)



8-0 AND 9-0 HEIGHTS:		
	8-0 Height	9-0 Height
Clad MO (mm)	7-11 3/4 (2432)	8-11 3/4 (2737)
RO (mm)	8-0 (2438)	9-0 (2743)
FS (mm)	7-11 1/2 (2426)	8-11 1/2 (2731)
DLO (mm)	7-2 1/2 (2197)	8-2 1/2 (2502)

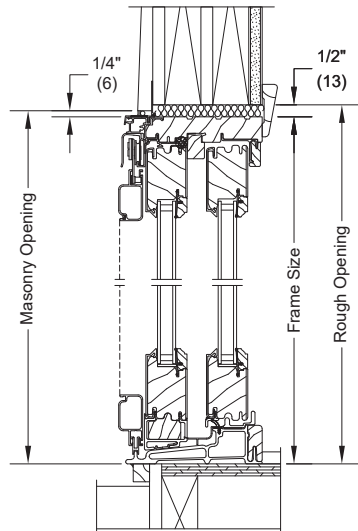
Details and Elevations not to scale.  
 R = Retro Size  
 • Lite patterns shown are for standard and SDL.  
 • All glass is tempered.  
 • Right or left hand operation is determined by the direction the door panel travels to open position, as viewed from exterior.  
 Please consult your local Marvin representative for masonry openings that include casings and subsills.  
 For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

Details and Elevations not to scale.  
 • CN 9-0 heights are limited to 1 and 2 wide configurations using CN2-6 and 3-0 panels.  
 \* Clad Only  
 Please consult your local Marvin representative for more information.  
 For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

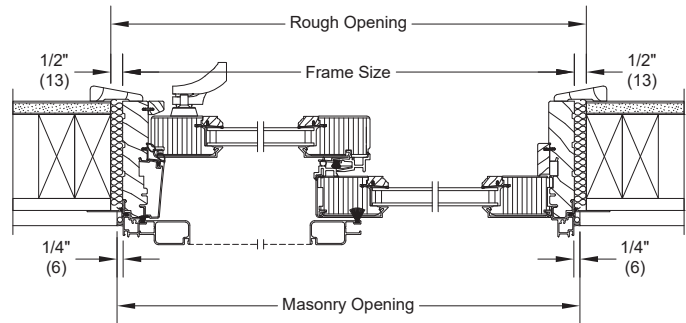
Ultimate Sliding Patio Door: USPD

**SLIDING PATIO DOOR**

CONSTRUCTION DETAILS



CLAD HEAD JAMB AND SILL WITH ULTIMATE SLIDING SCREEN



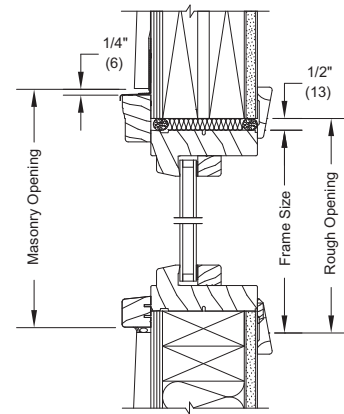
CLAD JAMB XO

**DIRECT GLAZE DOOR TRANSOMS**

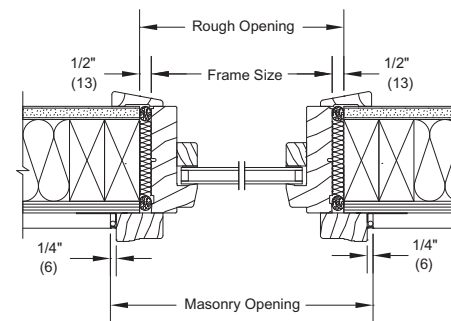
1/0 HEIGHT (1/2 AND 1/6 HEIGHTS SEE BELOW)

<b>Clad MO (mm)</b>	2-1 15/16 (659)	2-7 15/16 (811)	2-9 15/16 (862)	3-1 15/16 (964)	3-7 15/16 (1116)	5-1 1/8 (1553)
<b>Wood MO (mm)</b>	2-4 9/16 (726)	2-10 9/16 (878)	3-0 9/16 (929)	3-4 9/16 (1030)	3-10 9/16 (1183)	5-3 3/4 (1619)
<b>RO (mm)</b>	2-2 7/16 (672)	2-8 7/16 (824)	2-10 7/16 (875)	3-2 7/16 (976)	3-8 7/16 (1129)	5-1 5/8 (1565)
<b>FS (mm)</b>	2-1 7/16 (646)	2-7 7/16 (799)	2-9 7/16 (849)	3-1 7/16 (951)	3-7 7/16 (1103)	5-0 5/8 (1540)
<b>DLO (mm)</b>	1-9 1/2 (546)	2-3 1/2 (699)	2-5 1/2 (749)	2-9 1/2 (851)	3-3 1/2 (1003)	4-8 11/16 (1440)
1-1/4 (311)						
1-2 1/4 (362)	2010	2610	2810	3010	3610	5010
1-1/2 (318)	2012	2612	2812	3012	3612	5012
1-0 (305)	2016	2616	2816	3016	3616	5016
0-8 1/16 (205)						
<b>Clad MO (mm)</b>	5-5 1/8 (1654)	6-1 1/8 (1857)	7-1 1/8 (2161)	8-1 1/8 (2467)		
<b>Wood MO (mm)</b>	5-7 3/4 (1721)	6-3 3/4 (1924)	7-3 3/4 (2229)	8-3 3/4 (2534)		
<b>RO (mm)</b>	5-5 5/8 (1667)	6-1 5/8 (1870)	7-1 5/8 (2175)	8-1 5/8 (2480)		
<b>FS (mm)</b>	5-4 5/8 (1641)	6-0 5/8 (1845)	7-0 5/8 (2149)	8-0 5/8 (2454)		
<b>DLO (mm)</b>	5-0 11/16 (1541)	5-8 11/16 (1745)	6-8 11/16 (2049)	7-8 11/16 (2354)		
1-1/4 (311)						
1-2 1/4 (362)	5410	6010	7010	8010		
1-1/2 (318)	5412	6012	7012	8012		
1-0 (305)	5416	6016	7016	8016		
0-8 1/16 (205)						

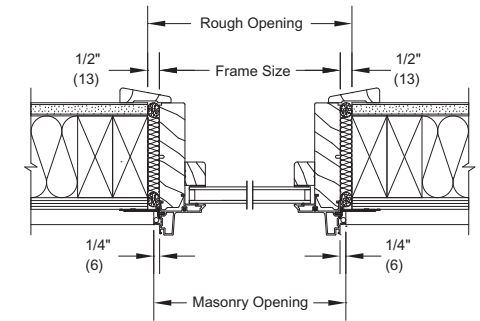
CONSTRUCTION DETAILS



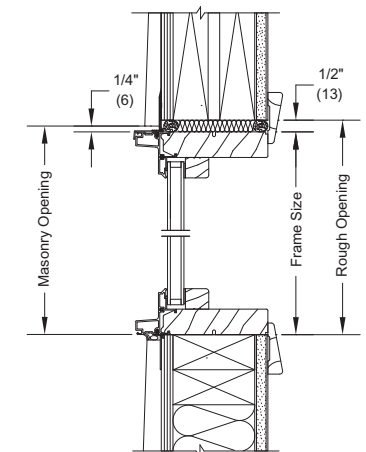
WOOD HEAD JAMB AND SILL - DIRECT GLAZE



WOOD JAMB - DIRECT GLAZE



CLAD JAMB - DIRECT GLAZE



CLAD HEAD JAMB AND SILL - DIRECT GLAZE

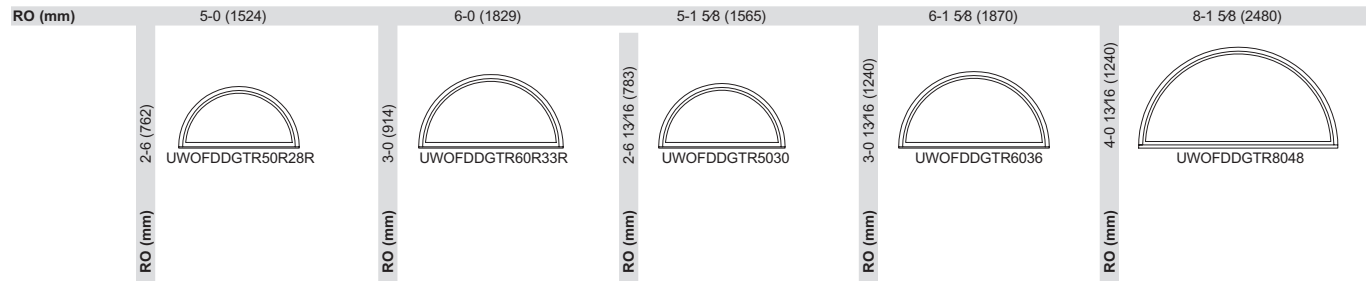
1-2 and 1-6 Heights:		
	1-2 Height	1-6 Height
Clad MO (mm)	1-2 1/4 (362)	1-6 1/4 (464)
Wood MO (mm)	1-4 1/4 (413)	1-8 1/4 (514)
RO (mm)	1-2 1/2 (368)	1-6 1/2 (470)
FS (mm)	1-2 (356)	1-6 (457)
DLO (mm)	0-10 1/16 (256)	1-2 1/16 (357)

Details and Elevations not to scale. Please consult your local Marvin representative for masonry openings that include casings and subsills. For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

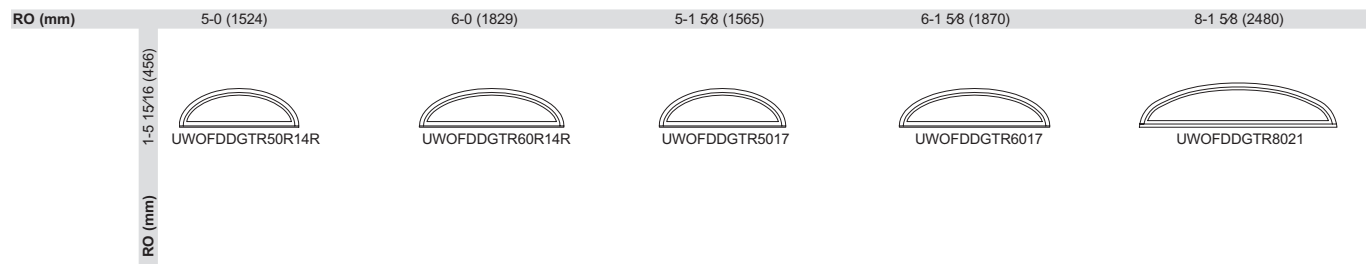
Ultimate Direct Glaze Door Transoms: UDGTR

## WOOD DIRECT GLAZE ROUND TOP DOOR TRANSOMS

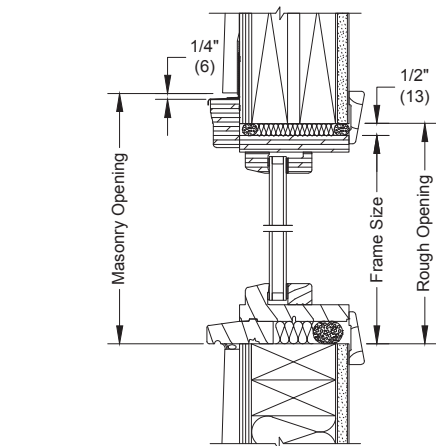
RT1 TRUE HALF CIRCLE STANDARD SIZES - DIRECT GLAZE



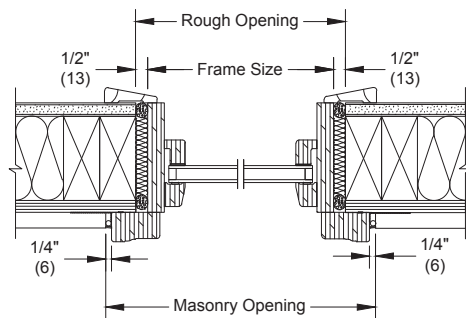
RT29 ELLIPTICAL STANDARD SIZES - DIRECT GLAZE



### CONSTRUCTION DETAILS



HEAD JAMB AND SILL - DIRECT GLAZE\*



JAMB - DIRECT GLAZE\*

Details and Elevations not to scale.

R = Retro Size

- If these units are not used as transoms, add 15/16" (24) to rough opening heights for subsill.
- Non-back rabbet casing shown. Back rabbet casing used on Wood 2 1/4" Inswing French Doors and Wood Commercial Doors.

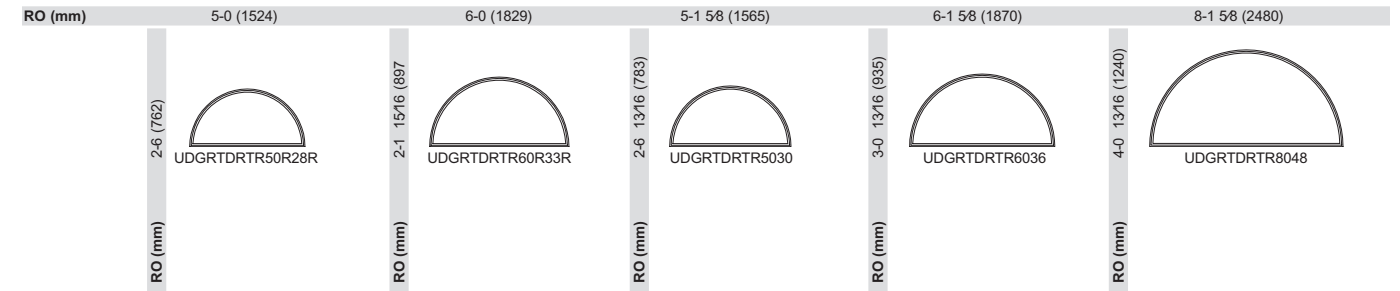
Please consult your local Marvin representative for more information.

For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

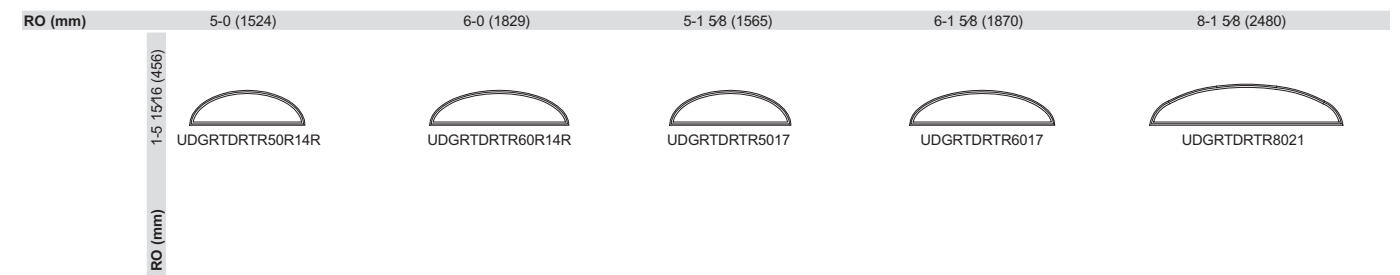
Ultimate Wood Direct Glaze Round Top Door Transoms: UWOFDDGTR

## DIRECT GLAZE ROUND TOP DOOR TRANSOMS

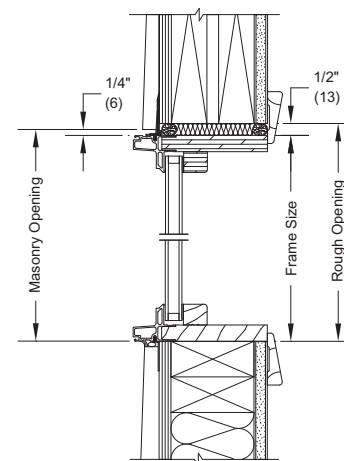
RT1 TRUE HALF CIRCLE STANDARD SIZES - DIRECT GLAZE



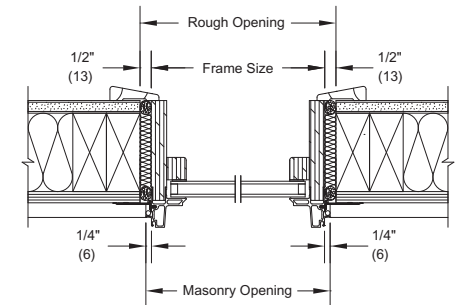
RT29 ELLIPTICAL STANDARD SIZES DIRECT - GLAZE



### CONSTRUCTION DETAILS



HEAD JAMB AND SILL - DIRECT GLAZE



JAMB - DIRECT GLAZE

Ultimate Direct Glaze Round Top Door Transoms: UDGRTDRTR

## WOOD / CLAD ROUND TOP GUIDE

### WOOD ROUND TOP GUIDE TO STANDARD ROUND TOPS AND THE UNITS THEY FIT OVER

#### ULTIMATE CASEMENT / AWNING SERIES

Unit Type	RT Call Number
1W20 CM	UWRT2010 CM
	UWQCIR2020 CM
1W24 CM/AWN	UWRT2412 CM
	UWQCIR2424 CM
	UWRT24__CM*
1W28 CM/AWN	UWRT2814 CM
	UWQCIR2828 CM
	UWRT28__CM*
1W32CM or 2W16 CM	UWRT3216 CM
	UWQCIR3232 CM
	UWRT32__CM*
1W36 CM/AWN	UWRT3618 CM
	UWQCIR3636 CM
	UWRT36__CM*
1W40 AWN, 2W20 CM or 1W40 CMP	UWRT4020 CM
	UWQCIR4040 CM
	UWRT4017 CM
	UWRT40__CM*
1W48 AWN, 2W24 CM or 1W48 CMP	UWRT4824 CM
	UWQCIR4848 CM
	UWRT4817 CM
	UWRT48__CM*
1W56 CMP or 2W28 CM	UWRT5628 CM
	UWRT5617 CM
	UWRT56__CM*
1W60 CMP or 3W20 CM	UWRT6026 CM
1W64 CMP or 2W32 CM	UWRT6432 CM
1W72 CMP or 2W36 CM or 3W24 CM	UWRT7236 CM
	UWRT7217 CM
	UWRT72__CM*
3W28 CM/AWN	UWRT8442 CM
	UWRT8417CM
2W48 AWN or 4W24 CM	UWRT9648 CM
24-60-24 TPU	UWRT10854 CM
5W24 CM/AWN	UWRT12060 CM

#### ULTIMATE DOUBLE HUNG SERIES

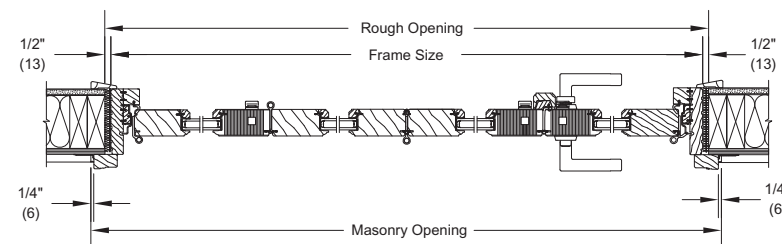
Unit Type	RT Call Number
1W20 DH	UWRT25__DH*
1W24 DH	UWRT2914 DH
	UWRT29__DH*
1W26 DH	UWRT3115 DH
	UWRT31__DH*
1W28 DH	UWRT3316 DH
	UWRT33__DH*
1W30 DH	UWRT3517 DH
	UWRT35__DH*
1W32 DH	UWRT3718 DH
	UWRT37__DH*
1W36 DH	UWRT4120 DH
	UWRT41__DH*
1W40 DH	UWRT4522 DH
	UWRT 45__DH*
2W20 DH	UWRT5025 DH
	UWRT5118 DH
	UWRT51__DH*
2W24 DH	UWRT5828 DH
	UWRT5918 DH
	UWRT59__DH*
2W28 DH	UWRT6632 DH
	UWRT6718 DH
	UWRT67__DH*
2W32 DH	UWRT7437 DH
	UWRT7518 DH
	UWRT75__DH*

#### DOOR SERIES

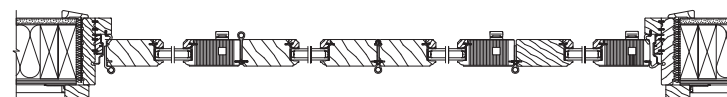
Unit Type	RT Call Number
5066	UWDR RT 5028
FDR/Uil. FD, SPD, SFD	UWDR RT 5014
6066	UWDR RT 6033
FDR/Uil. FD, SPD, SFD	UWDR RT 6014
5068/70/80, SPD	UWDR RT 5030
FRD/Uil. FD, SFD	UWDR RT 5017
6068/70/80, SPD	UWDR RT 6036
FDR/Uil. FD, SFD	UWDR RT 6017
8068/70/80	UWDR RT 8048
FDR/Uil. SFD	UWDR RT 8021

## WOOD BI-FOLD DOOR

### WOOD CONSTRUCTION DETAILS - PERFORMANCE, LOW PROFILE, AND FLOOR CHANNEL SILL



JAMBS  
FOUR PANEL - 3L1R



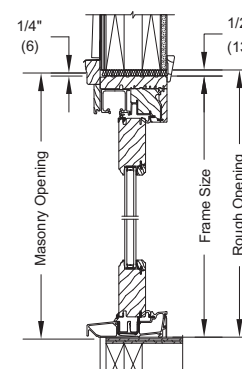
JAMBS  
FOUR PANEL - 4L\*



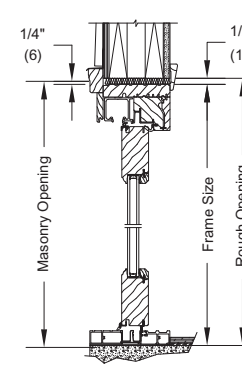
JAMBS  
FOUR PANEL - 2L2R\*

\* NOT ACCESSIBLE FROM EXTERIOR.

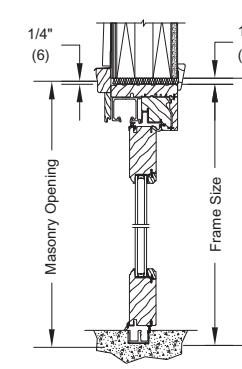
### CONSTRUCTION DETAILS - PERFORMANCE, LOW PROFILE AND FLOOR CHANNEL SILLS



HEAD JAMB AND SILL  
SHOWN WITH PERFORMANCE SILL



HEAD JAMB AND SILL  
SHOWN WITH LOW PROFILE SILL



HEAD JAMB AND SILL  
SHOWN WITH FLOOR CHANNEL SILL

Details and Elevations not to scale.

\* The underscore indicates that a range of heights are available for eyebrow above springline units. For example 24\_\_ means 24 wide and a range of heights.

Please consult your local Marvin representative for more information. For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

Details and Elevations not to scale.

- Configurations available from 1 to 16 operating panels
- Operating panel width: minimum 29 1/16"; maximum 41 1/16"
- Rough opening minimum size: 34" x 51 1/2"
- Rough opening maximum size: 665 1/4" x 114 3/4"

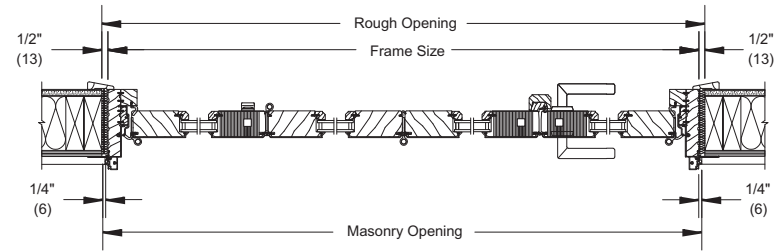
Please consult your local Marvin representative for more information. For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

The Ultimate Lift and Slide product is not certified for Air, Water, and Structural performance.

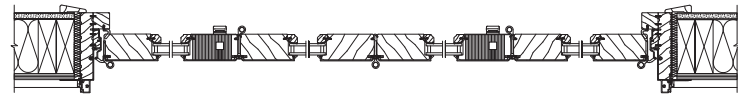
Ultimate Wood Bi-Fold Door - UWBFLD

# BI-FOLD DOOR

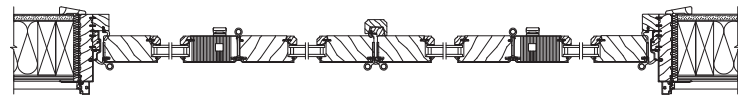
CLAD CONSTRUCTION DETAILS - PERFORMANCE, LOW PROFILE, AND FLOOR CHANNEL SILL



JAMBS  
FOUR PANEL - 3L1R



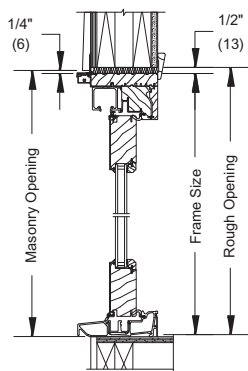
JAMBS  
FOUR PANEL - 4L\*



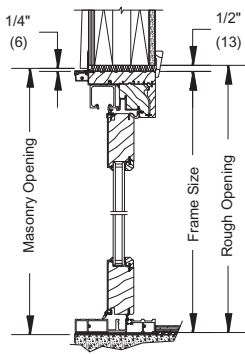
JAMBS  
FOUR PANEL - 2L2R\*

\* NOT ACCESSIBLE FROM EXTERIOR.

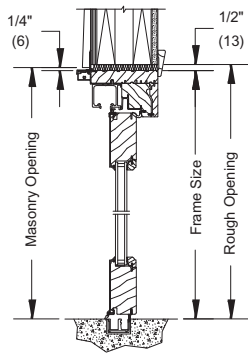
CONSTRUCTION DETAILS - PERFORMANCE, LOW PROFILE, AND FLOOR CHANNEL SILLS



HEAD JAMB AND SILL  
SHOWN WITH PERFORMANCE SILL



HEAD JAMB AND SILL  
SHOWN WITH LOW PROFILE SILL



HEAD JAMB AND SILL  
SHOWN WITH FLOOR CHANNEL SILL

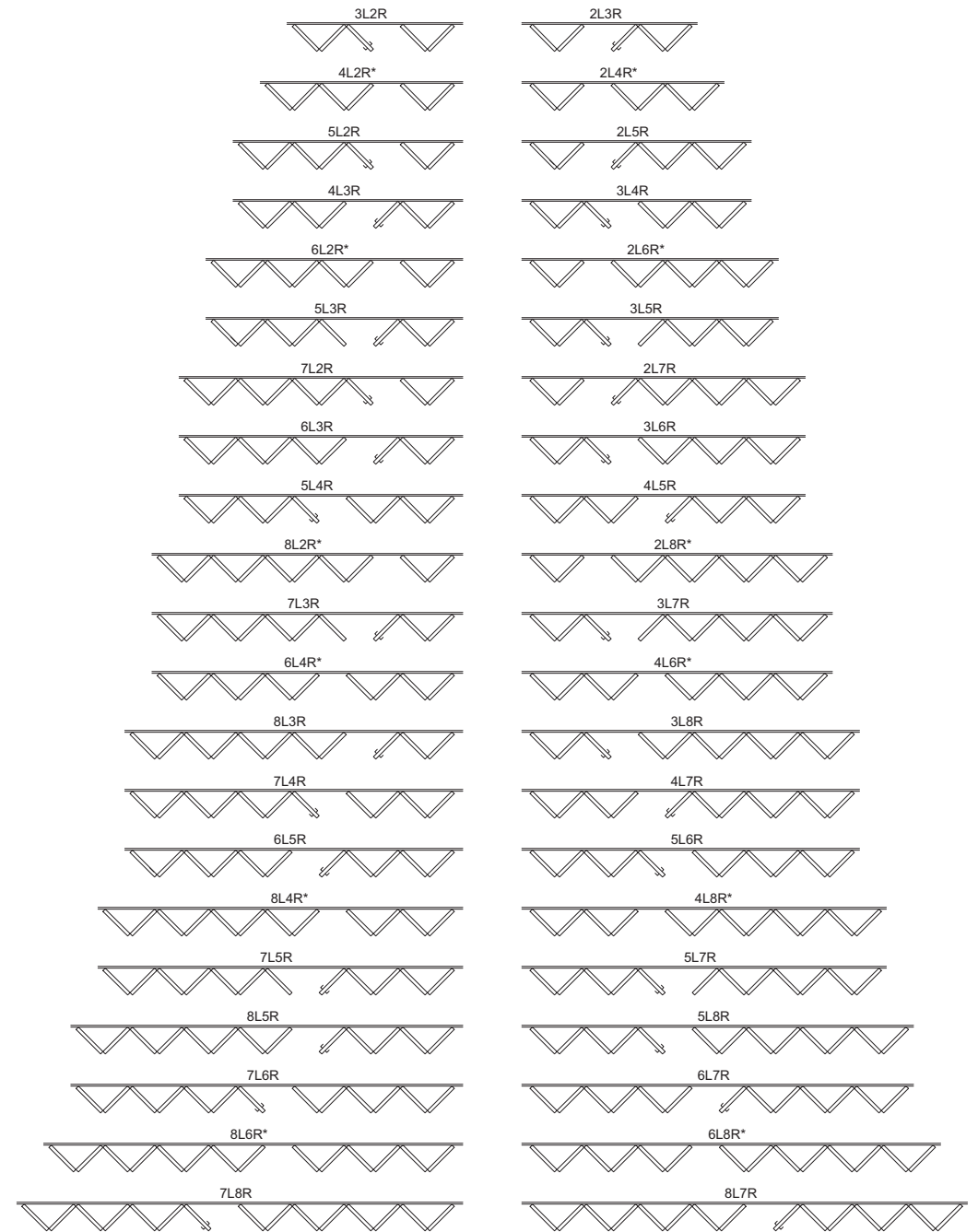
Details and Elevations not to scale.

- Configurations available from 1 to 16 operating panels
- Operating panel width: minimum 29 1/16"; maximum 41 1/16"
- Rough opening minimum size: 34" x 51 1/2"
- Rough opening maximum size: 665 1/4" x 114 3/4"

Please consult your local Marvin representative for more information. For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

# WOOD BI-FOLD DOOR / BI-FOLD DOOR

WOOD AND CLAD PANEL CONFIGURATIONS - BI PARTING (UN-EQUAL) UNITS



Details and Elevations not to scale.

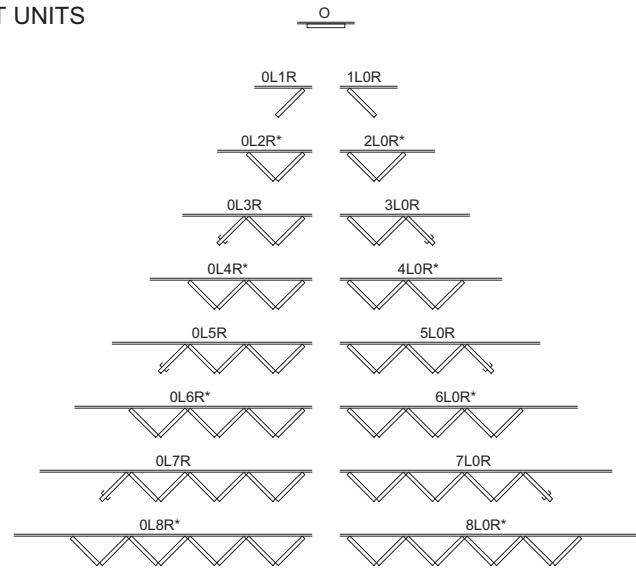
\* Not accessible from exterior. Please consult your local Marvin representative for more information. For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

The Ultimate Wood Bi-Fold product is not certified for Air, Water, and Structural performance.

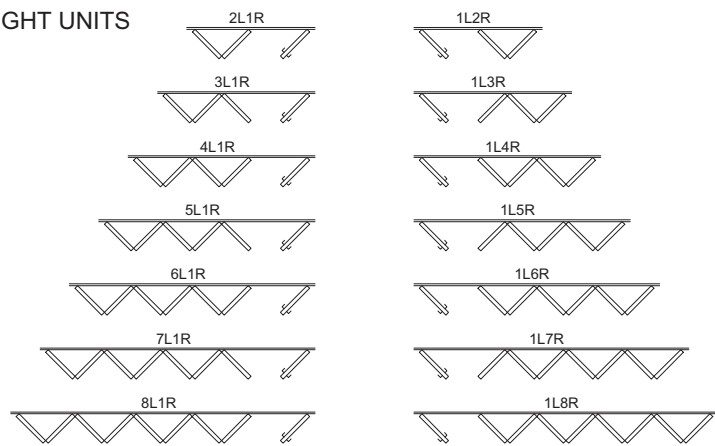
# WOOD BI-FOLD DOOR / BI-FOLD DOOR

WOOD AND CLAD PANEL CONFIGURATIONS - STATIONARY UNIT

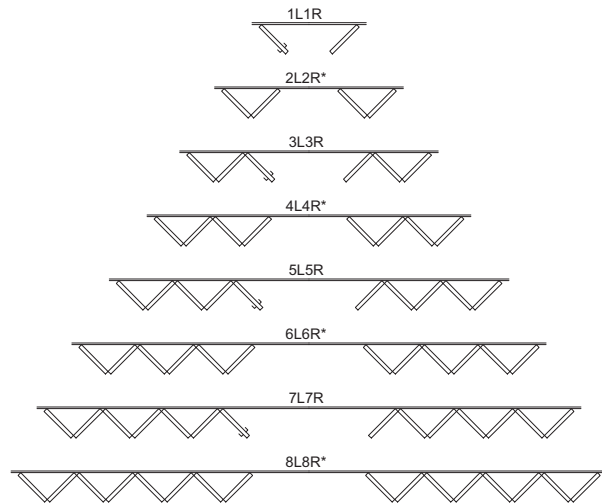
## UNI-DIRECTIONAL LEFT OR RIGHT UNITS



## UNI-DIRECTIONAL LEFT OR RIGHT UNITS WITH OPERATING PANELS



## BI PARTING (EQUAL) UNITS



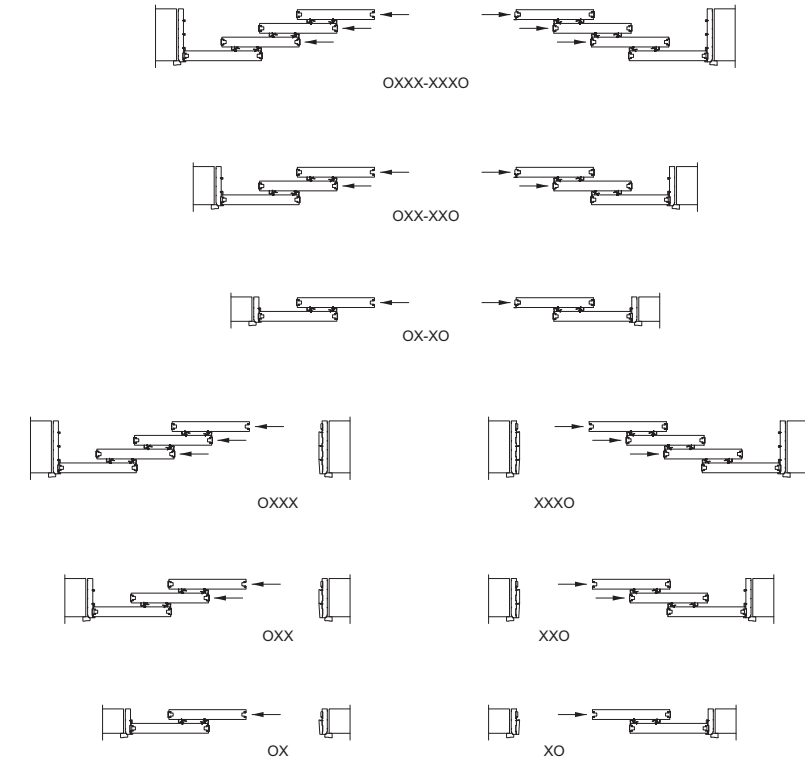
Details and Elevations not to scale.  
 \* Not accessible from exterior.  
 Please consult your local Marvin representative for more information.  
 For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

The Ultimate Wood Bi-fold product is not certified for Air, Water, and Structural performance.

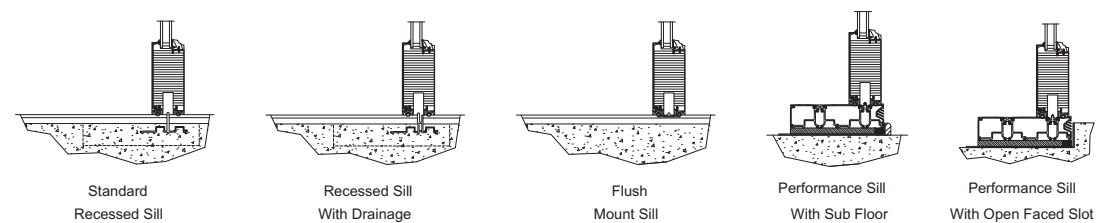
# WOOD LIFT AND SLIDE / LIFT AND SLIDE DOOR

PROMOTED SIZES AND CONFIGURATIONS - STACKED UNITS

STACKED UNITS PROMOTED SIZES AND CONFIGURATIONS BASED ON: 3/0, 4/0, 5/0, 6/0 PANEL WIDTHS 7/0, 8/0, 10/0 PANEL HEIGHTS					
2W OX / XO	3W XXO / OXX	4W OXXX / XXXO	4W OX-XO L OR R	6W OXX-XXO L OR R	8W OXXX-XXXO L
6070	9070	12070	12070	18070	24070
8070	12070	16070	16070	24070	32070
10070	15070	20070	20070	30070	40070
12070	18070	24070	24070	36070	48070
6080	9080	12080	12080	18080	24080
8080	12080	16080	16080	24080	32080
10080	15080	20080	20080	30080	40080
12080	18080	24080	24080	36080	48080
60100	90100	120100	120100	180100	240100
80100	120100	160100	160100	240100	320100
100100	150100	200100	200100	300100	400100
120100	180100	240100	240100	360100	480100



## OPTIONAL SILLS - SHOWN IN CLAD ALSO AVAILABLE IN WOOD

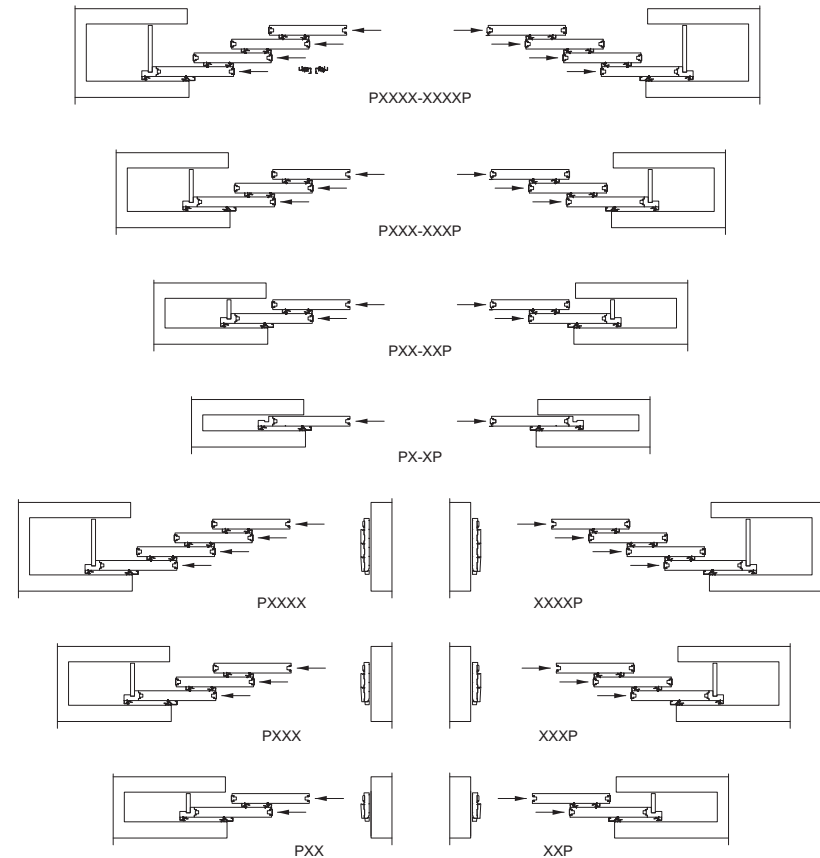


The Ultimate and Ultimate Wood Lift and Slide products are not certified for Air, Water, and Structural performance.

### WOOD LIFT AND SLIDE / LIFT AND SLIDE DOOR

PROMOTED SIZES AND CONFIGURATIONS - POCKET UNITS

POCKET UNITS PROMOTED SIZES AND CONFIGURATIONS BASED ON: 3/0, 4/0, 5/0, 6/0 PANEL WIDTHS 7/0, 8/0, 10/0 PANEL HEIGHTS						
1 POCKET	1 POCKET	1 POCKET	2 POCKETS	2 POCKETS	2 POCKETS	2 POCKETS
2 PANELS	3 PANELS	4 PANELS	2 PANELS	4 PANELS	6 PANELS	8 PANELS
(PXX / XXP)	(PXXX / XXXP)	(PXXXX / XXXXP)	(PX-XP)	(PXX-XXP)	(PXXX-XXXXP)	(PXXXX-XXXXP)
6070	9070	12070	6070	12070	18070	24070
8070	12070	16070	8070	16070	24070	32070
10070	15070	20070	10070	20070	30070	40070
12070	18070	24070	12070	24070	36070	48070
6080	9080	12080	6080	12080	18080	24080
8080	12080	16080	8080	16080	24080	32080
10080	15080	20080	10080	20080	30080	40080
12080	18080	24080	12080	24080	36080	48080
60100	90100	120100	60100	120100	180100	240100
80100	120100	160100	80100	160100	240100	320100
100100	150100	200100	100100	200100	300100	400100
120100	180100	240100	120100	240100	360100	480100

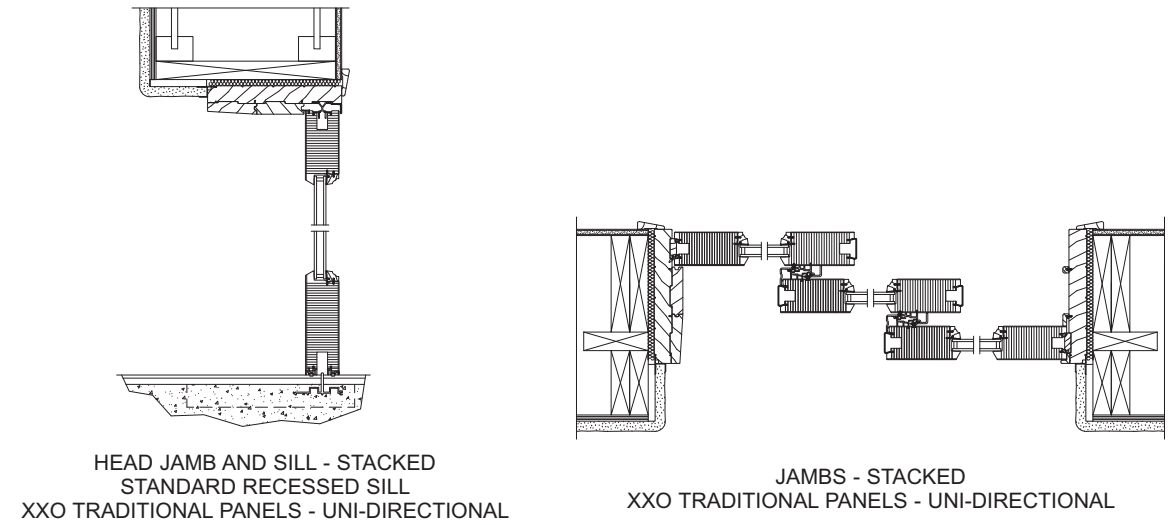


Details and Elevations not to scale.  
Please consult your local Marvin representative for more information.  
For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

The Ultimate and Ultimate Wood Lift and Slide products are not certified for Air, Water, and Structural performance.

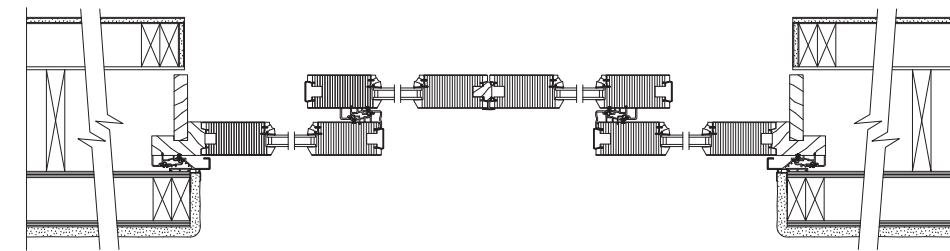
### WOOD LIFT AND SLIDE DOOR

CONSTRUCTION DETAILS - TRADITIONAL PANELS (TALL BOTTOM RAIL)



HEAD JAMB AND SILL - STACKED  
STANDARD RECESSED SILL  
XXO TRADITIONAL PANELS - UNI-DIRECTIONAL

JAMBS - STACKED  
XXO TRADITIONAL PANELS - UNI-DIRECTIONAL



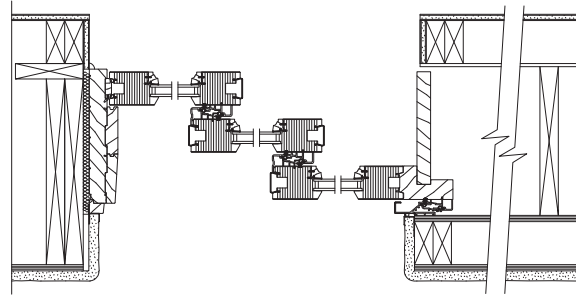
JAMBS - POCKET  
PXX-XXP TRADITIONAL PANELS - BI PARTING

Details and Elevations not to scale.  
Please consult your local Marvin representative for more information.  
For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

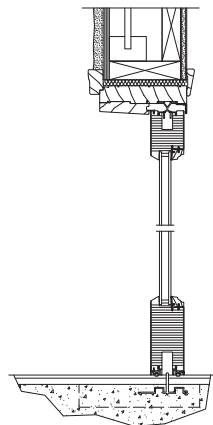
The Wood Lift and Slide product is not certified for Air, Water, and Structural performance.

## WOOD LIFT AND SLIDE DOOR

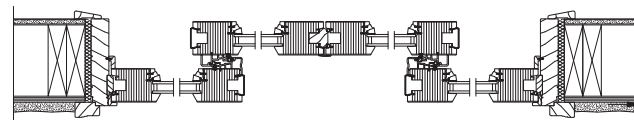
CONSTRUCTION DETAILS - CONTEMPORARY PANELS (SHORT BOTTOM RAIL)



JAMBS - POCKET  
 XXXP CONTEMPORARY PANELS - UNI-DIRECTIONAL



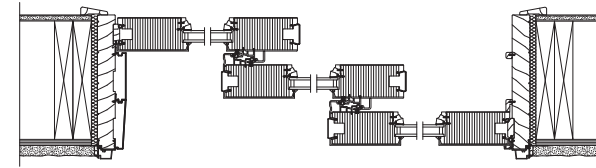
HEAD JAMB AND SILL - STACKED  
 STANDARD RECESSED SILL  
 OX-XO CONTEMPORARY PANELS -  
 BI PARTING



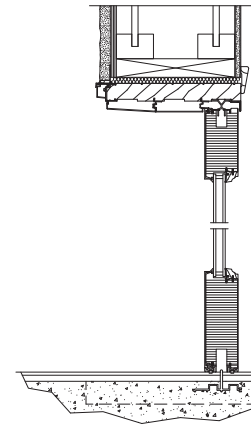
JAMBS - STACKED  
 OX-XO CONTEMPORARY PANELS - BI PARTING

## LIFT AND SLIDE DOOR

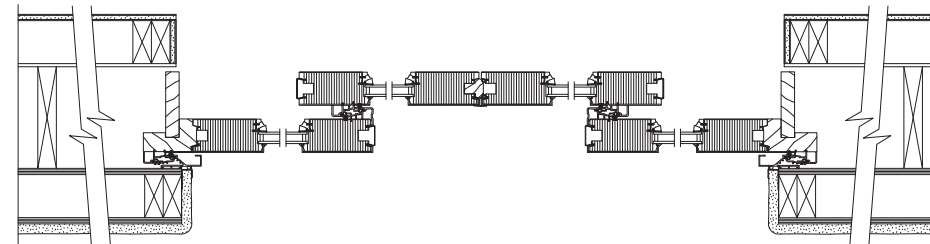
CONSTRUCTION DETAILS - TRADITIONAL PANELS (TALL BOTTOM RAIL)



JAMBS - STACKED  
 XXO TRADITIONAL PANELS - UNI-DIRECTIONAL



HEAD JAMB AND SILL - STACKED  
 STANDARD RECESSED SILL  
 XXO TRADITIONAL PANELS - UNI-DIRECTIONAL



JAMBS - POCKET  
 PXX-XXP TRADITIONAL PANELS - BI PARTING

Details and Elevations not to scale.  
 Please consult your local Marvin representative for more information.  
 For further details and drawings visit the 'Technical Specifications'  
 section at Marvin.com.

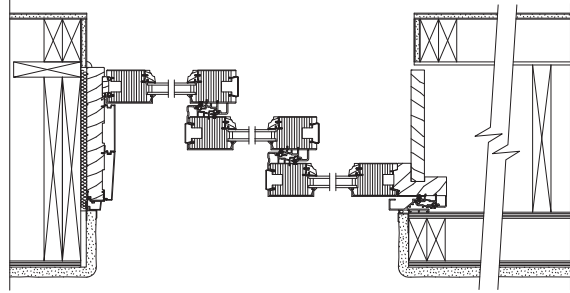
The Ultimate Wood Lift and Slide product is not certified for Air, Water,  
 and Structural performance.

The Ultimate Lift and Slide product is not certified for Air, Water, and  
 Structural performance.

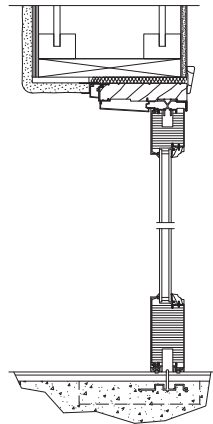


# LIFT AND SLIDE DOOR

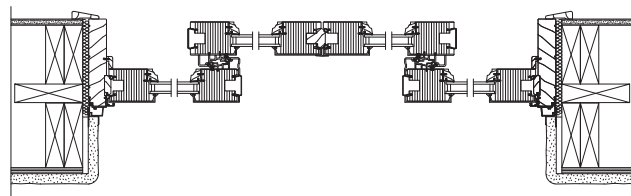
CONSTRUCTION DETAILS - CONTEMPORARY PANELS (SHORT BOTTOM RAIL)



JAMBS POCKET  
XXXP CONTEMPORARY PANELS - UNI-DIRECTIONAL



HEAD JAMB AND SILL - STACKED  
STANDARD RECESSED SILL  
OX-XO CONTEMPORARY PANELS - BI PARTING



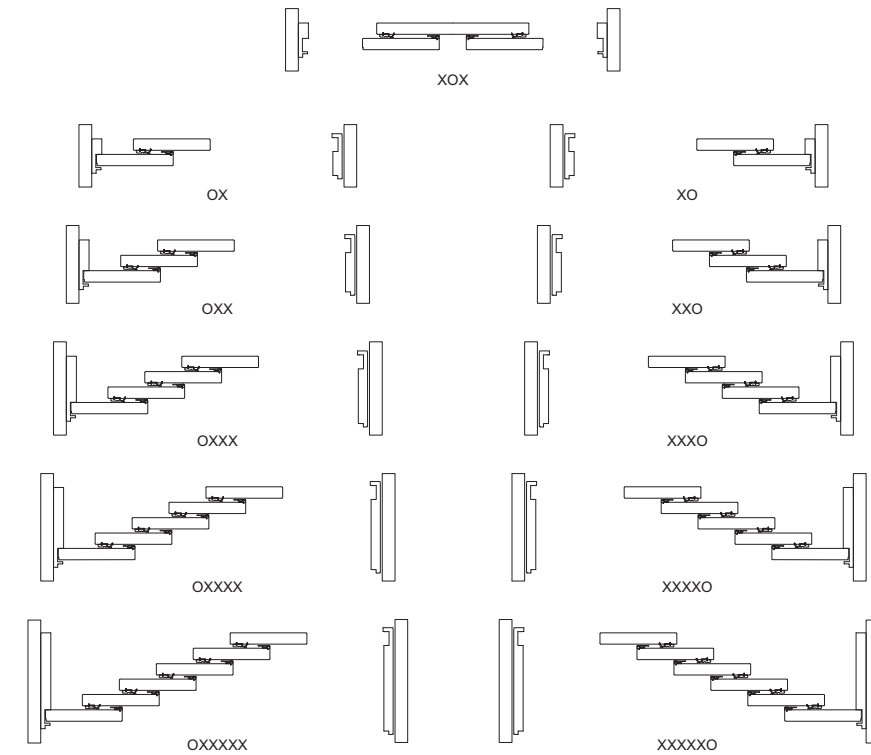
JAMBS - STACKED  
OX-XO CONTEMPORARY PANELS - BI PARTING

Details and Elevations not to scale.  
Please consult your local Marvin representative for more information.  
For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

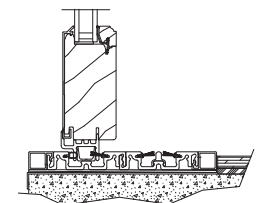
# MULTI-SLIDE DOOR

STANDARD SIZES AND CONFIGURATIONS - UNI-DIRECTIONAL STACKED

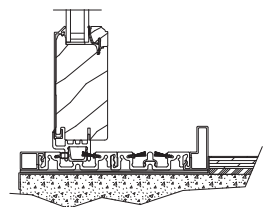
2W OX/XO	3W OXX/XXO	4W OXXX/XXXO	5W OXXXX/XXXXXO	6W OXXXXX/XXXXXO
6070	9070	12070	15070	18070
8070	12070	16070	20070	24070
10070	15070	20070	25070	30070
12070	18070	24070	30070	36070
6080	9080	12080	15080	18080
8080	12080	16080	20080	24080
10080	15080	20080	25080	30080
12080	18080	24080	30080	36080
6090	9090	12090	15090	18090
8090	12090	16090	20090	24090
10090	15090	20090	25090	30090
12090	18090	24090	30090	36090
60100	90100	120100	150100	180100
80100	120100	160100	200100	240100
100100	150100	200100	250100	300100
120100	180100	240100	300100	360100
60120	90120	120120	150120	180120
80120	120120	160120	200120	240120
100120	150120	200120	250120	300120
120120	180120	240120	300120	360120



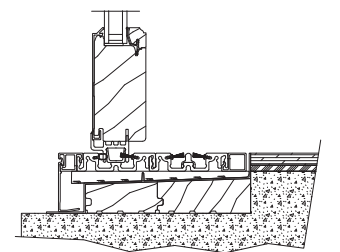
## OPTIONAL SILLS - STACKED AND POCKET UNITS



FLUSH SILL



PERFORMANCE SILL



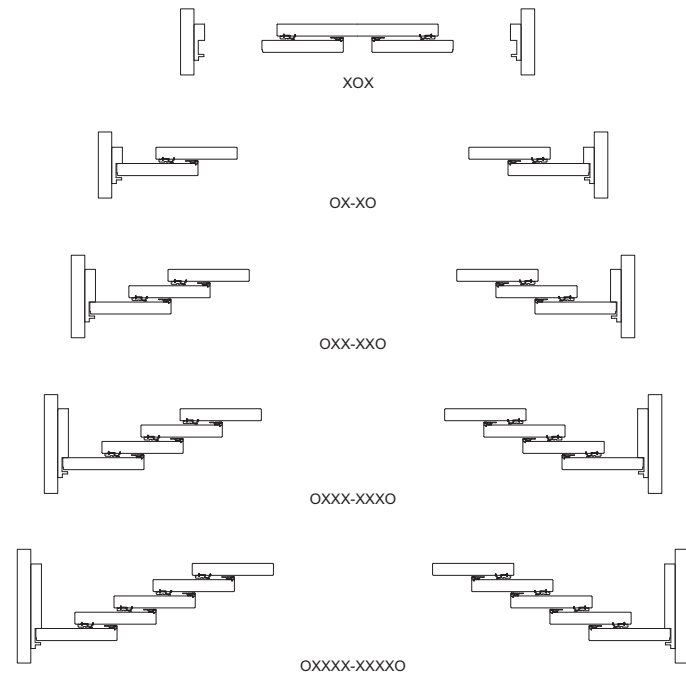
HIGH PERFORMANCE SILL

The Ultimate Lift and Slide product is not certified for Air, Water, and Structural performance.

### MULTI-SLIDE DOOR

STANDARD SIZES AND CONFIGURATIONS - BI PARTING STACKED

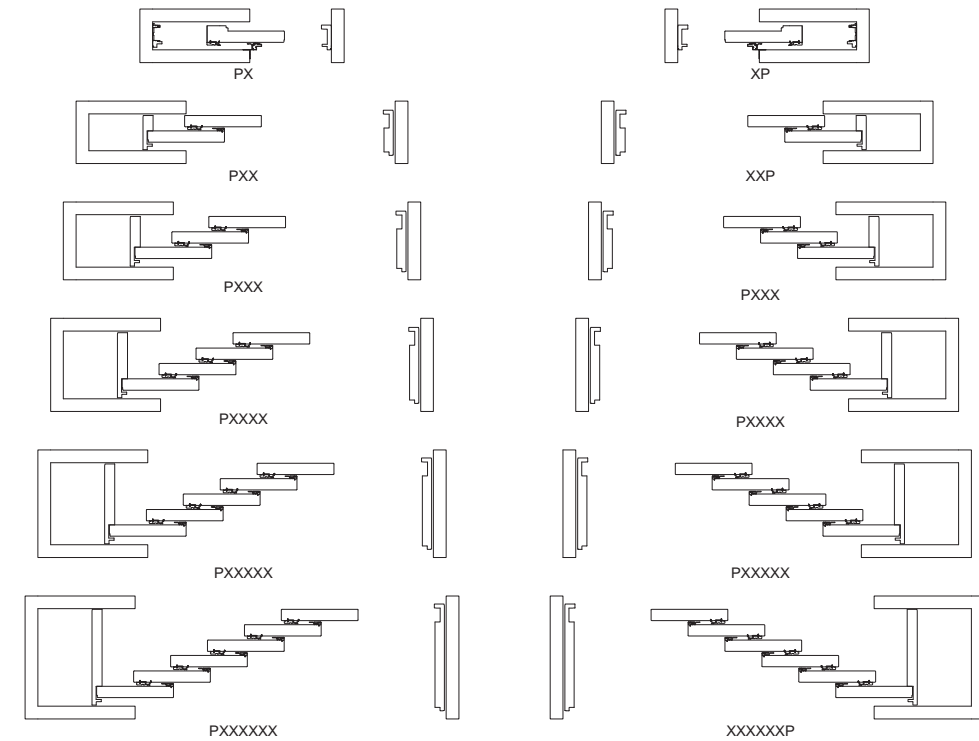
2W OX-XO	3W OXX-XXO	4W OXXX-XXXO	5W OXXXX-XXXXO	3W XOX
12070	18070	24070	30070	12070
16070	24070	32070	40070	16070
20070	30070	40070	50070	
24070	36070	48070	60070	
12080	18080	24080	30080	12080
16080	24080	32080	40080	15080
20080	30080	40080	50080	
24080	36080	48080	60080	
12090	18090	24090	30090	12090
16090	24090	32090	40090	120100
20090	30090	40090	50090	
24090	36090	48090	60090	
120100	180100	240100	300100	120100
160100	240100	320100	400100	
200100	300100	400100	500100	
240100	360100	480100	600100	
120120	180120	240120	300120	120120
160120	240120	320120	400120	
200120	300120	400120	500120	
240120	360120	480120	600120	



### MULTI-SLIDE DOOR

STANDARD SIZES AND CONFIGURATIONS - UNI-DIRECTIONAL POCKET

1 PANEL	2 PANEL	3 PANEL	4 PANEL	5 PANEL	6 PANEL
PX/XP	PXX/XXP	PXXX/PXXX	PXXXX/XXXXP	PXXXXX/XXXXXP	PXXXXXX/XXXXXXP
3070	6070	9070	12070	15070	18070
4070	8070	12070	16070	20070	24070
5070	10070	15070	20070	25070	30070
6070	12070	18070	24070	30070	36070
3080	6080	9080	12080	15080	18080
4080	8080	12080	16080	20080	24080
5080	10080	15080	20080	25080	30080
6080	12080	18080	24080	30080	36080
3090	6090	9090	12090	15090	18090
4090	8090	12090	16090	20090	24090
5090	10090	15090	20090	25090	30090
6090	12090	18090	24090	30090	36090
30100	60100	90100	120100	150100	180100
40100	80100	120100	160100	200100	240100
50100	100100	150100	200100	250100	300100
60100	120100	180100	240100	300100	360100
30120	60120	90120	120120	150120	180120
40120	80120	120120	160120	200120	240120
50120	100120	150120	200120	250120	300120
60120	120120	180120	240120	300120	360120

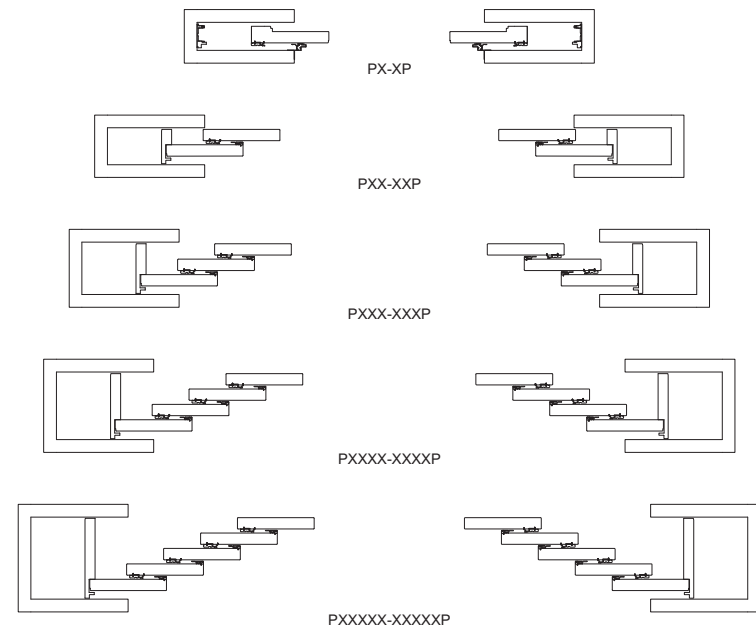


Details and Elevations not to scale.  
Please consult your local Marvin representative for more information.  
For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

# MULTI-SLIDE DOOR

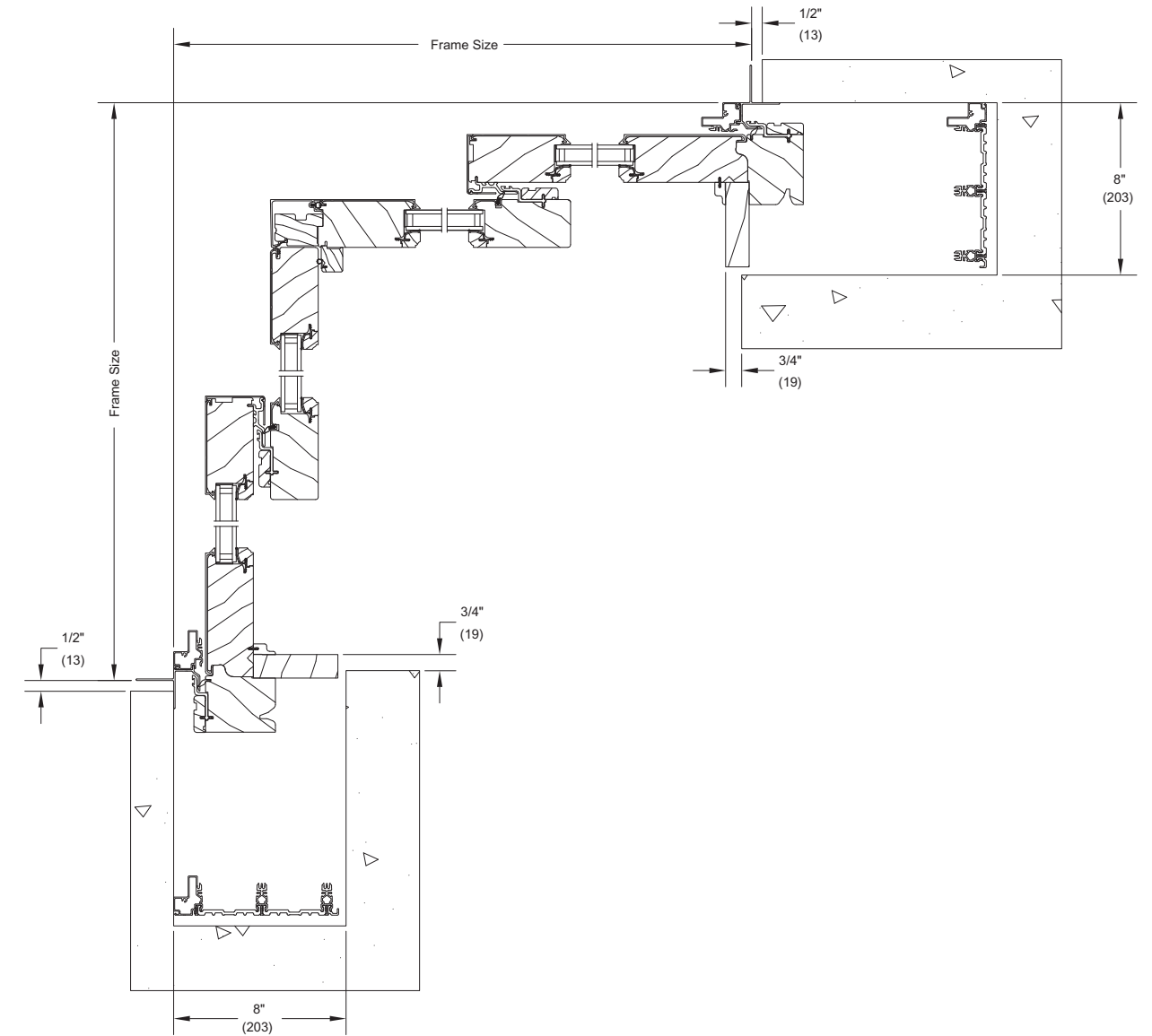
## STANDARD SIZES AND CONFIGURATIONS - BI PARTING POCKET

2-PANEL	4-PANEL	6-PANEL	8-PANEL	10-PANEL
PX-XP	PXX-XXP	PXXX-XXXP	PXXXX-XXXXP	PXXXXX-XXXXXP
6070	12070	18070	24070	30070
8070	16070	24070	32070	40070
10070	20070	30070	40070	50070
12070	24070	36070	48070	60070
6080	12080	18080	24080	30080
8080	16080	24080	32080	40080
10080	20080	30080	40080	50080
12080	24080	36080	48080	60080
6090	12090	18090	24090	30090
8090	16090	24090	32090	40090
10090	20090	30090	40090	50090
12090	24090	36090	48090	60090
60100	120100	180100	240100	300100
80100	160100	240100	320100	400100
100100	200100	300100	400100	500100
120100	240100	360100	480100	600100
60120	120120	180120	240120	300120
80120	160120	240120	320120	400120
100120	200120	300120	400120	500120
120120	240120	360120	480120	600120



# MULTI-SLIDE DOOR POCKET CORNER

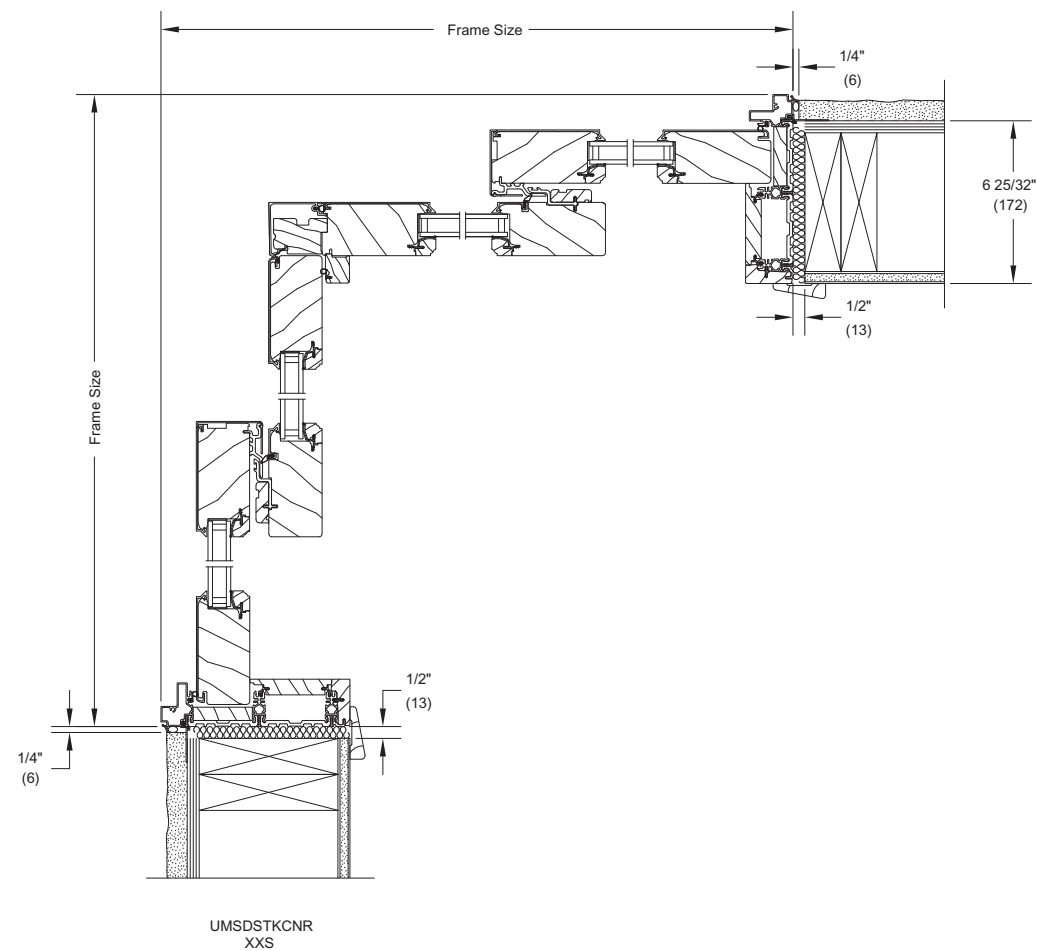
## CONSTRUCTION DETAILS



Details and Elevations not to scale.  
Please consult your local Marvin representative for more information.  
For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

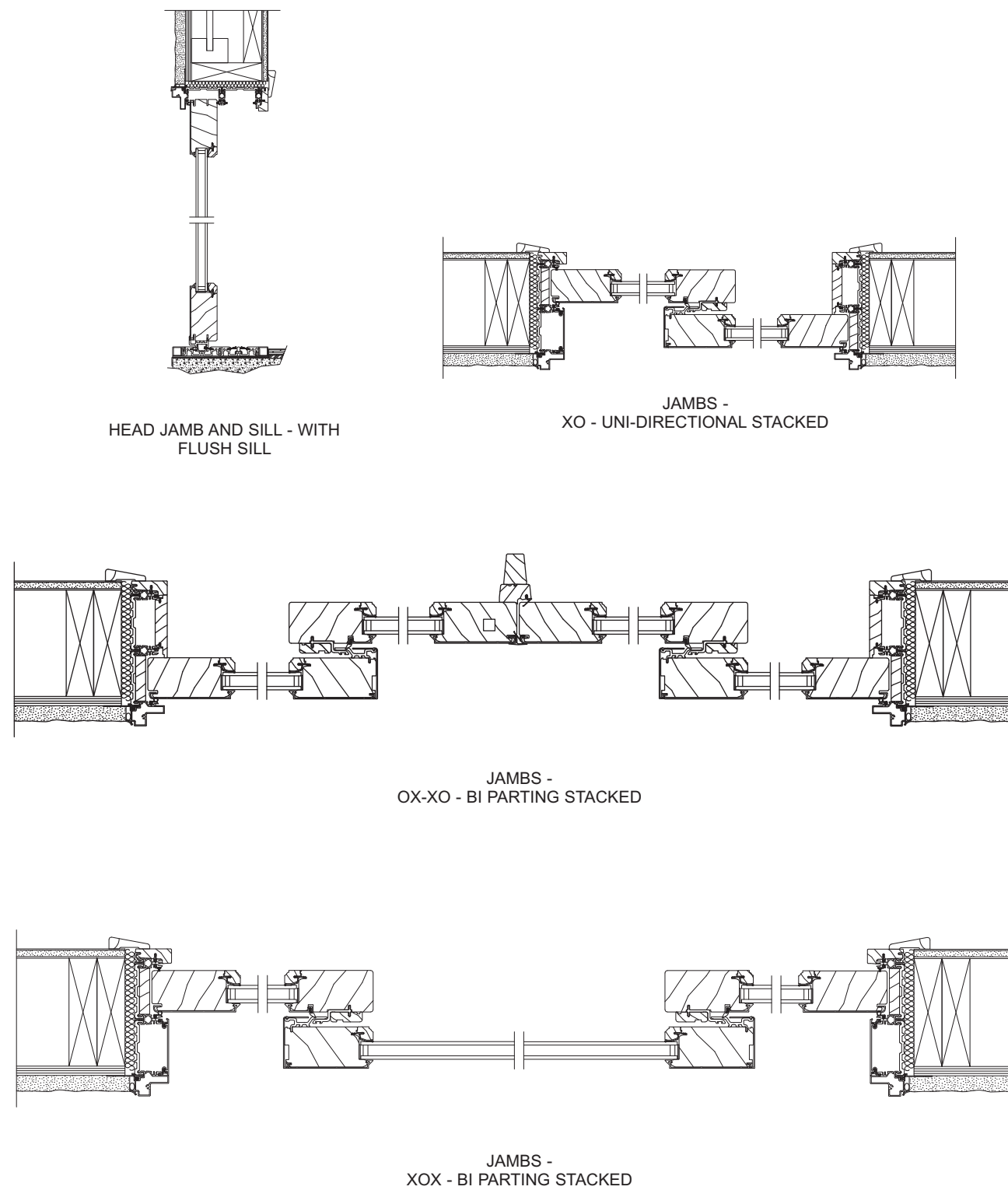
# MULTI-SLIDE DOOR STACKED CORNER

CONSTRUCTION DETAILS



# MULTI-SLIDE DOOR

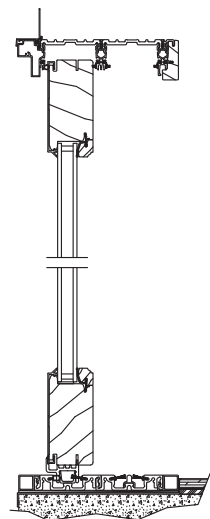
CONSTRUCTION DETAILS - UNI-DIRECTIONAL AND BI PARTING STACKED



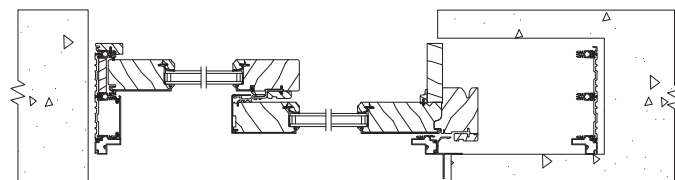
Details and Elevations not to scale.  
Please consult your local Marvin representative for more information.  
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### MULTI-SLIDE DOOR

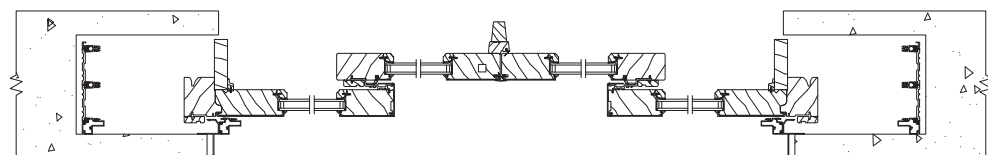
CONSTRUCTION DETAILS - UNI-DIRECTIONAL AND BI PARTING POCKET



HEAD JAMB AND SILL - WITH FLUSH SILL



JAMBS - XO - UNI-DIRECTIONAL POCKETS

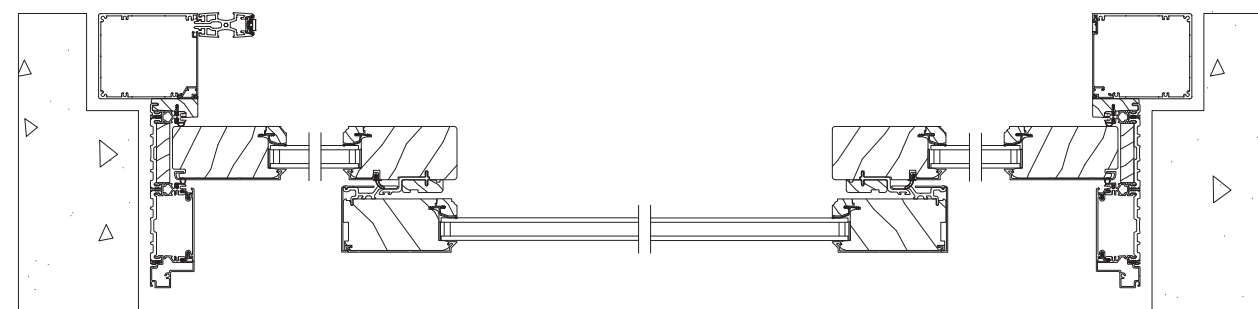


JAMBS - OX-XO - BI PARTING POCKET

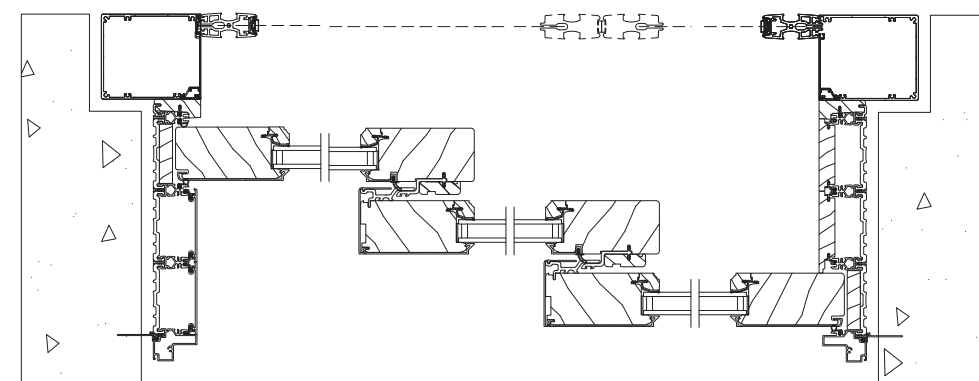
Details and Elevations not to scale.  
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### SCENIC DOOR SCREENS

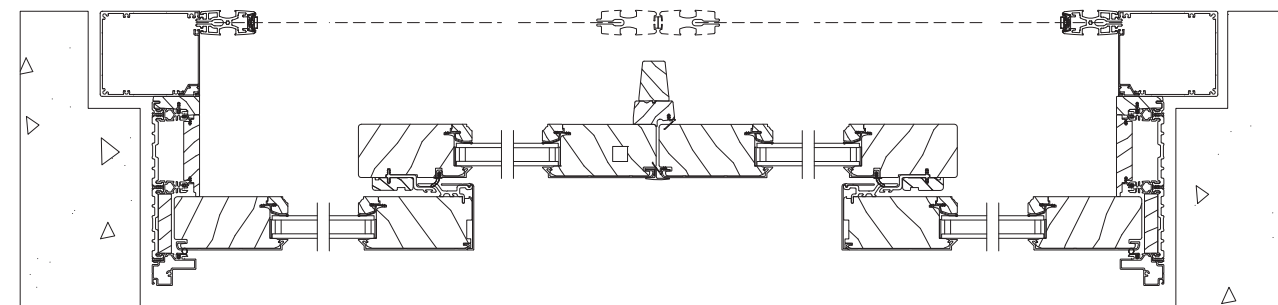
CONSTRUCTION DETAILS - UNI-DIRECTIONAL AND BI PARTING STACKED



UMSD STK  
Center Stacked XOX  
Left-Hand Screen



Unidirectional XXO  
Bi-Parting Screen



Bi-Parting OX-XO  
Bi-Parting Screen

Details and Elevations not to scale.  
Scenic Screen shown on Multi-Slide Door, but also available with Bi-Fold and Lift and Slide products.  
Please consult your local Marvin representative for more information.  
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Since we opened as a family-owned and -operated lumber and cedar company in 1912, Marvin has designed products to help people live better. We remain committed to bringing beauty and simplicity into people's lives with windows and doors that stand the test of time.

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