

Technical Specifications

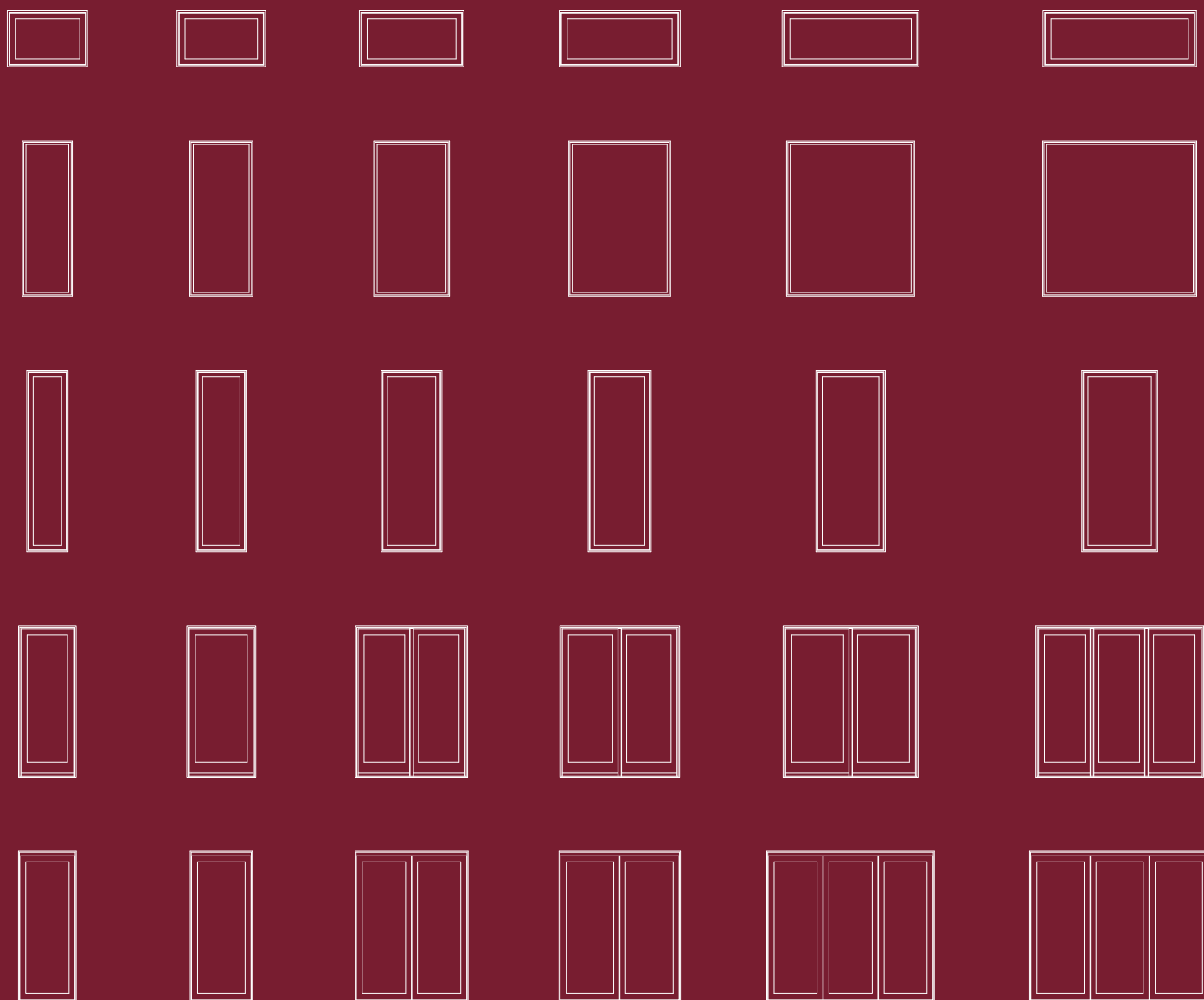




Table of Contents

4	Ordering
5	Lite Cuts
6	Awning
9	Casement
11	Casement Picture
17	Direct Glaze
26	Bi-Fold Door
32	Inswing French Door
34	Outswing French Door
37	Sliding French Door
40	Sliding Patio Door
43	WDMA and Performance Grade (PG)
44	Sound Transmission
45	Altitude Guidelines

VIVID DIRECT GLAZE WINDOWS
Ebony

Ordering

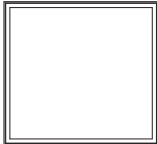
Each product section offers product codes for ordering under each unit. Codes do not necessarily indicate product size. Metric millimeter measurements are in parentheses.

You'll notice four measurements for each window or door: masonry opening, rough opening, frame size and day light opening size. The masonry opening (MO) is for a home built with brick or stone; rough openings (RO) are for houses with wood, vinyl or metal siding. Frame size (FS) measures from edge to edge of the unit; Daylight Opening (DLO) indicates the dimensions of the total visible area in a single sash or panel.

The Inside Opening (IO) ordering method is also available when the Insert Application is selected. For assistance, please contact your Marvin representative.

MO (mm)	6-5 1/2 (1969)	6-11 1/2 (2121)	7-5 1/2 (2273)	7-11 1/2 (2426)
RO (mm)	6-6 (1981)	7-0 (2134)	7-6 (2286)	8-0 (2438)
FS (mm)	6-5 (1956)	6-11 (2108)	7-5 (2261)	7-11 (2413)
DLO (mm)	71 15/64 (1809)	77 15/64 (1962)	83 15/64 (2114)	89 15/64 (2267)

5-11 3/4 (1822)
6-0 (1829)
5-11 1/2 (1816)
65 47/64 (1670)



VCAP6660



VCAP7060



VCAP7660



VCAP8060

Mulling Options - A variety of factory mulled combinations are available. Field mulling kits are available, as well as prep for Field mulling, to create your own multiple assemblies. Please contact your local Marvin representative for more information.

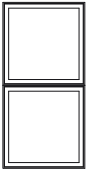
Examples of Possible Configurations



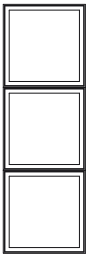
Casement
2 Wide



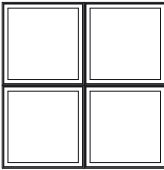
Casement
3 Wide



Casement
2 High

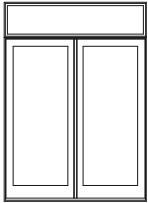


Casement
3 High



Casement
2 Wide 2 High

Field Mull Only

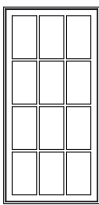


Direct Glaze Over
Outswing French Door

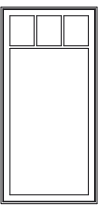
The information provided in this catalog has been gathered and assembled with every effort made to validate accuracy and consistency of the content. However, Marvin does not make any warranty or guarantee as to this information. Please verify critical product data in Marvin Order Management System (OMS) quotes and at the time of ordering.

Lite Cuts

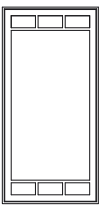
Windows



Rectangle

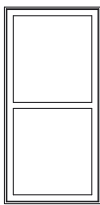


Cottage

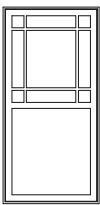


Trellis
Horizontal

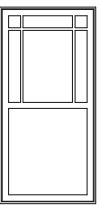
SDL Only



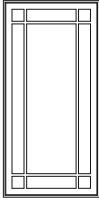
Simulated
Check Rail



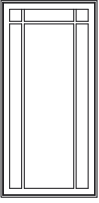
Simulated
Check Rail
Prairie 9



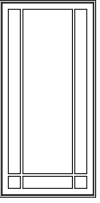
Simulated
Check Rail
Prairie 6



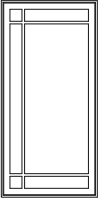
Prairie 9



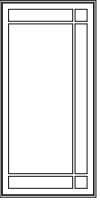
Prairie 6
Top



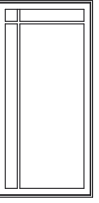
Prairie 6
Bottom



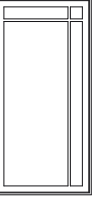
Prairie 6
Left



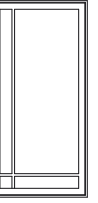
Prairie 6
Right



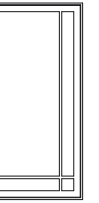
Prairie 4
Top Left



Prairie 4
Top Right

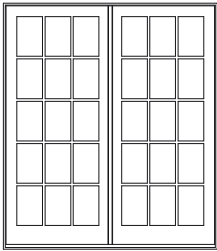


Prairie 4
Bottom Left

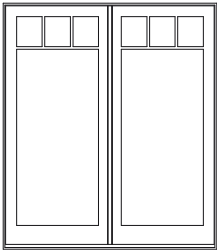


Prairie 4
Bottom Right

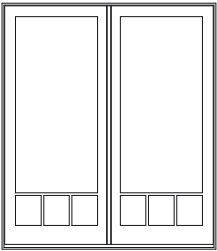
Doors



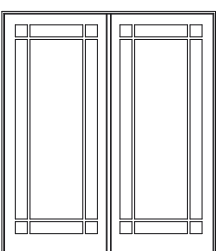
Rectangle



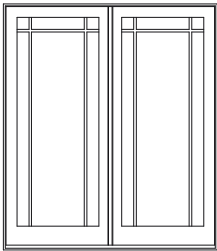
Cottage



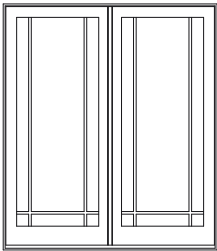
Oriel



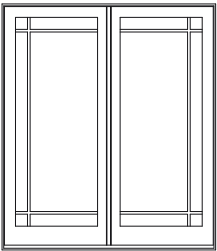
Prairie 9



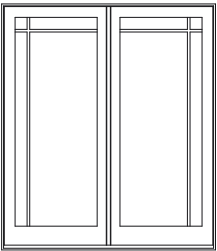
Prairie 6
Top



Prairie 6
Bottom



Prairie 6
Left



Prairie 6
Right

Prairie 4
Top Left

Prairie 4
Top Right

Prairie 4
Btm Left

Prairie 4
Btm Right

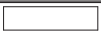
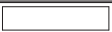
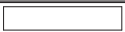
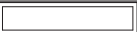
SDL (Simulated Divided Lite) with Spacer Bar - 7/8" (22)
Simulated Check Rail SDL with Spacer Bar - 2" (51)
GBG (Grilles Between the Glass) - 23/32" (18)
Lite cuts are dependent on product type and size. Please consult your local Marvin representative for details and availability.

Awning

MO (mm)	1-5 1/2 (445)	1-7 1/2 (495)	1-11 1/2 (597)	2-4 1/2 (724)	2-5 1/2 (749)	2-8 1/2 (826)	2-11 1/2 (902)
RO (mm)	1-6 (457)	1-8 (508)	2-0 (610)	2-5 (737)	2-6 (762)	2-9 (838)	3-0 (914)
FS (mm)	1-5 (432)	1-7 (483)	1-11 (584)	2-4 (711)	2-5 (737)	2-8 (813)	2-11 (889)
DLO (mm)	11 15/64 (285)	13 15/64 (336)	17 15/64 (438)	22 15/64 (565)	23 15/64 (590)	26 15/64 (666)	29 15/64 (743)
1-5 3/4 (451) 1-6 (457) 1-7 1/2 (495) 1-8 (508) 1-11 1/2 (597) 1-11 3/4 (603) 2-0 (610) 2-5 3/4 (756) 2-6 (762) 2-5 1/2 (749) 2-11 3/4 (908) 3-0 (914) 2-11 1/2 (902) 29 47/64 (755) 3-5 3/4 (1060) 3-6 (1067) 3-5 1/2 (1054) 35 47/64 (908) 3-11 3/4 (1213) 4-0 (1219) 3-11 1/2 (1207) 41 47/64 (1060) 4-5 3/4 (1365) 4-6 (1372) 4-5 1/2 (1359) 47 47/64 (1212) 4-11 3/4 (1518) 5-0 (1524) 4-11 1/2 (1511) 53 47/64 (1365)	 VAWN1616	 VAWN1816	 VAWN2016	 VAWN2516	 VAWN2616	 VAWN2916	 VAWN3016
1-7 3/4 (502) 1-8 (508) 1-7 1/2 (495) 13 47/64 (349) 1-11 3/4 (603) 2-0 (610) 1-11 1/2 (597) 17 47/64 (450) 2-5 3/4 (756) 2-6 (762) 2-5 1/2 (749) 23 47/64 (603) 2-11 3/4 (908) 3-0 (914) 2-11 1/2 (902) 29 47/64 (755) 3-5 3/4 (1060) 3-6 (1067) 3-5 1/2 (1054) 35 47/64 (908) 3-11 3/4 (1213) 4-0 (1219) 3-11 1/2 (1207) 41 47/64 (1060) 4-5 3/4 (1365) 4-6 (1372) 4-5 1/2 (1359) 47 47/64 (1212) 4-11 3/4 (1518) 5-0 (1524) 4-11 1/2 (1511) 53 47/64 (1365)	 VAWN1618	 VAWN1818	 VAWN2018	 VAWN2518	 VAWN2618	 VAWN2918	 VAWN3018
1-11 3/4 (603) 2-0 (610) 1-11 1/2 (597) 17 47/64 (450) 2-5 3/4 (756) 2-6 (762) 2-5 1/2 (749) 23 47/64 (603) 2-11 3/4 (908) 3-0 (914) 2-11 1/2 (902) 29 47/64 (755) 3-5 3/4 (1060) 3-6 (1067) 3-5 1/2 (1054) 35 47/64 (908) 3-11 3/4 (1213) 4-0 (1219) 3-11 1/2 (1207) 41 47/64 (1060) 4-5 3/4 (1365) 4-6 (1372) 4-5 1/2 (1359) 47 47/64 (1212) 4-11 3/4 (1518) 5-0 (1524) 4-11 1/2 (1511) 53 47/64 (1365)	 VAWN1620	 VAWN1820	 VAWN2020	 VAWN2520	 VAWN2620	 VAWN2920	 VAWN3020
2-5 3/4 (756) 2-6 (762) 2-5 1/2 (749) 23 47/64 (603) 2-11 3/4 (908) 3-0 (914) 2-11 1/2 (902) 29 47/64 (755) 3-5 3/4 (1060) 3-6 (1067) 3-5 1/2 (1054) 35 47/64 (908) 3-11 3/4 (1213) 4-0 (1219) 3-11 1/2 (1207) 41 47/64 (1060) 4-5 3/4 (1365) 4-6 (1372) 4-5 1/2 (1359) 47 47/64 (1212) 4-11 3/4 (1518) 5-0 (1524) 4-11 1/2 (1511) 53 47/64 (1365)	 VAWN1626	 VAWN1826	 VAWN2026	 VAWN2526	 VAWN2626	 VAWN2926	 VAWN3026
2-5 3/4 (756) 2-6 (762) 2-5 1/2 (749) 23 47/64 (603) 2-11 3/4 (908) 3-0 (914) 2-11 1/2 (902) 29 47/64 (755) 3-5 3/4 (1060) 3-6 (1067) 3-5 1/2 (1054) 35 47/64 (908) 3-11 3/4 (1213) 4-0 (1219) 3-11 1/2 (1207) 41 47/64 (1060) 4-5 3/4 (1365) 4-6 (1372) 4-5 1/2 (1359) 47 47/64 (1212) 4-11 3/4 (1518) 5-0 (1524) 4-11 1/2 (1511) 53 47/64 (1365)	 VAWN1630	 VAWN1830	 VAWN2030	 VAWN2530	 VAWN2630	 VAWN2930	 VAWN3030
2-5 3/4 (756) 2-6 (762) 2-5 1/2 (749) 23 47/64 (603) 2-11 3/4 (908) 3-0 (914) 2-11 1/2 (902) 29 47/64 (755) 3-5 3/4 (1060) 3-6 (1067) 3-5 1/2 (1054) 35 47/64 (908) 3-11 3/4 (1213) 4-0 (1219) 3-11 1/2 (1207) 41 47/64 (1060) 4-5 3/4 (1365) 4-6 (1372) 4-5 1/2 (1359) 47 47/64 (1212) 4-11 3/4 (1518) 5-0 (1524) 4-11 1/2 (1511) 53 47/64 (1365)	 VAWN1636	 VAWN1836	 VAWN2036	 VAWN2536	 VAWN2636	 VAWN2936	 VAWN3036
3-5 3/4 (1060) 3-6 (1067) 3-5 1/2 (1054) 35 47/64 (908) 3-11 3/4 (1213) 4-0 (1219) 3-11 1/2 (1207) 41 47/64 (1060) 4-5 3/4 (1365) 4-6 (1372) 4-5 1/2 (1359) 47 47/64 (1212) 4-11 3/4 (1518) 5-0 (1524) 4-11 1/2 (1511) 53 47/64 (1365)	 VAWN1640	 VAWN1840	 VAWN2040	 VAWN2540	 VAWN2640	 VAWN2940	 VAWN3040
4-5 3/4 (1365) 4-6 (1372) 4-5 1/2 (1359) 47 47/64 (1212) 4-11 3/4 (1518) 5-0 (1524) 4-11 1/2 (1511) 53 47/64 (1365)	 VAWN1646	 VAWN1846	 VAWN2046	 VAWN2546	 VAWN2646	 VAWN2946	 VAWN3046
4-11 3/4 (1518) 5-0 (1524) 4-11 1/2 (1511) 53 47/64 (1365)	 VAWN1650	 VAWN1850	 VAWN2050	 VAWN2550	 VAWN2650	 VAWN2950	 VAWN3050

Details and Elevations not to scale.
Special sized units available within product size matrix. See your Marvin retailer.
For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

Awning

MO (mm)	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)
RO (mm)	3-6 (1067)	4-0 (1219)	4-6 (1372)	5-0 (1524)	5-6 (1676)	6-0 (1829)
FS (mm)	3-5 (1041)	3-11 (1194)	4-5 (1346)	4-11 (1499)	5-5 (1651)	5-11 (1803)
DLO (mm)	35 15/64 (895)	41 15/64 (1047)	47 15/64 (1200)	53 15/64 (1352)	59 15/64 (1505)	65 15/64 (1657)
1-5 3/4 (451) 1-6 (457) 1-7 1/2 (495) 1-8 (508) 1-11 1/2 (597) 1-11 3/4 (603) 2-0 (610) 2-5 3/4 (756) 2-6 (762) 2-5 1/2 (749) 2-11 3/4 (908) 3-0 (914) 2-11 1/2 (902) 29 47/64 (755) 3-5 3/4 (1060) 3-6 (1067) 3-5 1/2 (1054) 35 47/64 (908) 3-11 3/4 (1213) 4-0 (1219) 3-11 1/2 (1207) 41 47/64 (1060) 4-5 3/4 (1365) 4-6 (1372) 4-5 1/2 (1359) 47 47/64 (1212) 4-11 3/4 (1518) 5-0 (1524) 4-11 1/2 (1511) 53 47/64 (1365)	 VAWN3616	 VAWN4016	 VAWN4616	 VAWN5016	 VAWN5616	 VAWN6016
1-7 3/4 (502) 1-8 (508) 1-7 1/2 (495) 13 47/64 (349) 1-11 3/4 (603) 2-0 (610) 1-11 1/2 (597) 17 47/64 (450) 2-5 3/4 (756) 2-6 (762) 2-5 1/2 (749) 23 47/64 (603) 2-11 3/4 (908) 3-0 (914) 2-11 1/2 (902) 29 47/64 (755) 3-5 3/4 (1060) 3-6 (1067) 3-5 1/2 (1054) 35 47/64 (908) 3-11 3/4 (1213) 4-0 (1219) 3-11 1/2 (1207) 41 47/64 (1060) 4-5 3/4 (1365) 4-6 (1372) 4-5 1/2 (1359) 47 47/64 (1212) 4-11 3/4 (1518) 5-0 (1524) 4-11 1/2 (1511) 53 47/64 (1365)	 VAWN3618	 VAWN4018	 VAWN4618	 VAWN5018	 VAWN5618	 VAWN6018
1-11 3/4 (603) 2-0 (610) 1-11 1/2 (597) 17 47/64 (450) 2-5 3/4 (756) 2-6 (762) 2-5 1/2 (749) 23 47/64 (603) 2-11 3/4 (908) 3-0 (914) 2-11 1/2 (902) 29 47/64 (755) 3-5 3/4 (1060) 3-6 (1067) 3-5 1/2 (1054) 35 47/64 (908) 3-11 3/4 (1213) 4-0 (1219) 3-11 1/2 (1207) 41 47/64 (1060) 4-5 3/4 (1365) 4-6 (1372) 4-5 1/2 (1359) 47 47/64 (1212) 4-11 3/4 (1518) 5-0 (1524) 4-11 1/2 (1511) 53 47/64 (1365)	 VAWN3620	 VAWN4020	 VAWN4620	 VAWN5020	 VAWN5620	 VAWN6020
2-5 3/4 (756) 2-6 (762) 2-5 1/2 (749) 23 47/64 (603) 2-11 3/4 (908) 3-0 (914) 2-11 1/2 (902) 29 47/64 (755) 3-5 3/4 (1060) 3-6 (1067) 3-5 1/2 (1054) 35 47/64 (908) 3-11 3/4 (1213) 4-0 (1219) 3-11 1/2 (1207) 41 47/64 (1060) 4-5 3/4 (1365) 4-6 (1372) 4-5 1/2 (1359) 47 47/64 (1212) 4-11 3/4 (1518) 5-0 (1524) 4-11 1/2 (1511) 53 47/64 (1365)	 VAWN3626	 VAWN4026	 VAWN4626	 VAWN5026	 VAWN5626	 VAWN6026
2-5 3/4 (756) 2-6 (762) 2-5 1/2 (749) 23 47/64 (603) 2-11 3/4 (908) 3-0 (914) 2-11 1/2 (902) 29 47/64 (755) 3-5 3/4 (1060) 3-6 (1067) 3-5 1/2 (1054) 35 47/64 (908) 3-11 3/4 (1213) 4-0 (1219) 3-11 1/2 (1207) 41 47/64 (1060) 4-5 3/4 (1365) 4-6 (1372) 4-5 1/2 (1359) 47 47/64 (1212) 4-11 3/4 (1518) 5-0 (1524) 4-11 1/2 (1511) 53 47/64 (1365)	 VAWN3630	 VAWN4030	 VAWN4630	 VAWN5030	 VAWN5630	 VAWN6030
3-5 3/4 (1060) 3-6 (1067) 3-5 1/2 (1054) 35 47/64 (908) 3-11 3/4 (1213) 4-0 (1219) 3-11 1/2 (1207) 41 47/64 (1060) 4-5 3/4 (1365) 4-6 (1372) 4-5 1/2 (1359) 47 47/64 (1212) 4-11 3/4 (1518) 5-0 (1524) 4-11 1/2 (1511) 53 47/64 (1365)	 VAWN3636	 VAWN4036	 VAWN4636	 VAWN5036	 VAWN5636	 VAWN6036
3-11 3/4 (1213) 4-0 (1219) 3-11 1/2 (1207) 41 47/64 (1060) 4-5 3/4 (1365) 4-6 (1372) 4-5 1/2 (1359) 47 47/64 (1212) 4-11 3/4 (1518) 5-0 (1524) 4-11 1/2 (1511) 53 47/64 (1365)	 VAWN3640	 VAWN4040	 VAWN4640	 VAWN5040	 VAWN5640	 VAWN6040
4-5 3/4 (1365) 4-6 (1372) 4-5 1/2 (1359) 47 47/64 (1212) 4-11 3/4 (1518) 5-0 (1524) 4-11 1/2 (1511) 53 47/64 (1365)	 VAWN3646	 VAWN4046	 VAWN4646	 VAWN5046	 VAWN5646	 VAWN6046
4-11 3/4 (1518) 5-0 (1524) 4-11 1/2 (1511) 53 47/64 (1365)	 VAWN3650	 VAWN4050	 VAWN4650	 VAWN5050	 VAWN5650	 VAWN6050

Awning

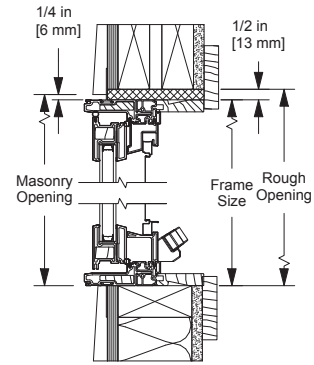
MO (mm)	1-5 1/2 (445)	1-7 1/2 (495)	1-11 1/2 (597)	2-4 1/2 (724)	2-5 1/2 (749)	2-8 1/2 (826)	2-11 1/2 (902)
RO (mm)	1-6 (457)	1-8 (508)	2-0 (610)	2-5 (737)	2-6 (762)	2-9 (838)	3-0 (914)
FS (mm)	1-5 (432)	1-7 (483)	1-11 (584)	2-4 (711)	2-5 (737)	2-8 (813)	2-11 (889)
DLO (mm)	11 15/64 (285)	13 15/64 (336)	17 15/64 (438)	22 15/64 (565)	23 15/64 (590)	26 15/64 (666)	29 15/64 (743)

5-5 3/4 (1670) 5-6 (1676) 5-5 1/2 (1664) 59 47/64 (1517)							
5-11 3/4 (1822) 6-0 (1829) 5-11 1/2 (1816) 65 47/64 (1670)							

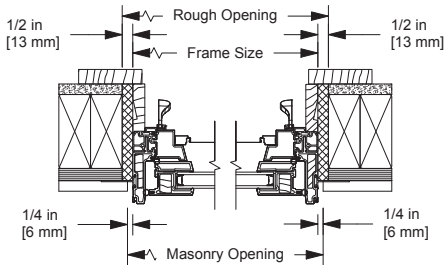
MO (mm)	3-5 1/2 (1054)	3-11 1/2 (1207)	4-5 1/2 (1359)	4-11 1/2 (1511)
RO (mm)	3-6 (1067)	4-0 (1219)	4-6 (1372)	5-0 (1524)
FS (mm)	3-5 (1041)	3-11 (1194)	4-5 (1346)	4-11 (1499)
DLO (mm)	35 15/64 (895)	41 15/64 (1047)	47 15/64 (1200)	53 15/64 (1352)

5-5 3/4 (1670) 5-6 (1676) 5-5 1/2 (1664) 59 47/64 (1517)				
5-11 3/4 (1822) 6-0 (1829) 5-11 1/2 (1816) 65 47/64 (1670)				

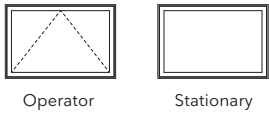
Construction Details



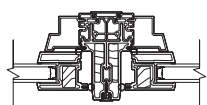
Head Jamb and Sill



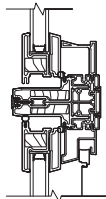
Jamb



Operator Stationary



Vertical Mullion



Horizontal Mullion

Details and Elevations not to scale.
Special sized units available within product size matrix. See your Marvin retailer.
For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

Casement

MO (mm)	1-5 1/2 (445)	1-7 1/2 (495)	1-11 1/2 (597)	2-4 1/2 (724)	2-5 1/2 (749)	2-8 1/2 (826)	2-11 1/2 (902)	3-5 1/2 (1054)
RO (mm)	1-6 (457)	1-8 (508)	2-0 (610)	2-5 (737)	2-6 (762)	2-9 (838)	3-0 (914)	3-6 (1067)
FS (mm)	1-5 (432)	1-7 (483)	1-11 (584)	2-4 (711)	2-5 (737)	2-8 (813)	2-11 (889)	3-5 (1041)
DLO (mm)	11 15/64 (285)	13 15/64 (336)	17 15/64 (438)	22 15/64 (565)	23 15/64 (590)	26 15/64 (666)	29 15/64 (743)	35 15/64 (895)

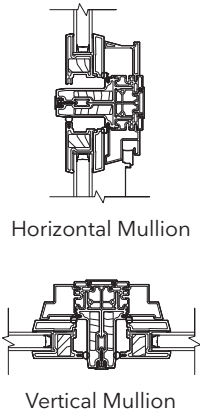
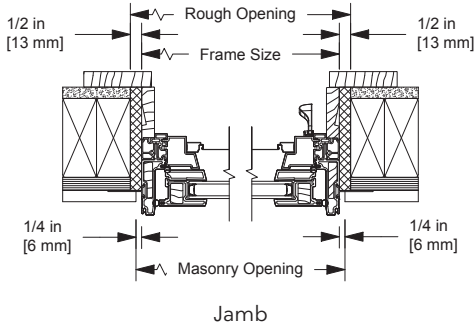
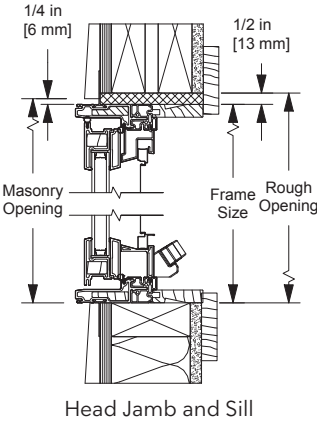
1-5 3/4 (451) 1-6 (457) 1-5 1/2 (445) 11 47/64 (298)								
1-7 3/4 (502) 1-8 (508) 1-7 1/2 (495) 13 47/64 (349)								
1-11 3/4 (603) 2-0 (610) 1-11 1/2 (597) 17 47/64 (450)								
2-5 3/4 (756) 2-6 (762) 2-5 1/2 (749) 23 47/64 (603)								
2-11 3/4 (608) 3-0 (614) 2-11 1/2 (902) 29 47/64 (755)								
3-5 3/4 (1060) 3-6 (1067) 3-5 1/2 (1054) 35 47/64 (908)								
3-11 3/4 (1213) 4-0 (1219) 3-11 1/2 (1207) 41 47/64 (1060)								
4-5 3/4 (1365) 4-6 (1372) 4-5 1/2 (1359) 47 47/64 (1212)								
4-11 3/4 (1518) 5-0 (1524) 4-11 1/2 (1511) 53 47/64 (1365)								
5-5 3/4 (1670) 5-6 (1676) 5-5 1/2 (1664) 59 47/64 (1517)								

E = Egress
Casements available as an operator or stationary.
L or R handing determined from exterior.

Casement

MO (mm)	1-5 1/2 (445)	1-7 1/2 (495)	1-11 1/2 (597)	2-4 1/2 (724)	2-5 1/2 (749)	2-8 1/2 (826)	2-11 1/2 (902)	3-5 1/2 (1054)
RO (mm)	1-6 (457)	1-8 (508)	2-0 (610)	2-5 (737)	2-6 (762)	2-9 (838)	3-0 (914)	3-6 (1067)
FS (mm)	1-5 (432)	1-7 (483)	1-11 (584)	2-4 (711)	2-5 (737)	2-8 (813)	2-11 (889)	3-5 (1041)
DLO (mm)	11 15/64 (285)	13 15/64 (336)	17 15/64 (438)	22 15/64 (565)	23 15/64 (590)	26 15/64 (666)	29 15/64 (743)	35 15/64 (895)
5-11 3/4 (1822) 6-0 (1829) 5-11 1/2 (1816) 65 47/64 (1670)								
6-5 3/4 (1975) 6-6 (1981) 6-5 1/2 (1969) 71 47/64 (1822)								
6-11 3/4 (2127) 7-0 (2134) 6-11 1/2 (2121) 77 47/64 (1974)								
7-5 3/4 (2280) 7-6 (2286) 7-5 1/2 (2273) 83 47/64 (2127)								
7-11 3/4 (2432) 8-0 (2438) 7-11 1/2 (2426) 89 47/64 (2279)								
E = Egress								

Construction Details



Casement Picture

MO (mm)	1-5 1/2 (445)	1-7 1/2 (495)	1-11 1/2 (597)	2-4 1/2 (724)	2-5 1/2 (749)	2-8 1/2 (826)	2-11 1/2 (902)	3-5 1/2 (1054)	3-11 1/2 (1207)
RO (mm)	1-6 (457)	1-8 (508)	2-0 (610)	2-5 (737)	2-6 (762)	2-9 (838)	3-0 (914)	3-6 (1067)	4-0 (1219)
FS (mm)	1-5 (432)	1-7 (483)	1-11 (584)	2-4 (711)	2-5 (737)	2-8 (813)	2-11 (889)	3-5 (1041)	3-11 (1194)
DLO (mm)	11 15/64 (285)	13 15/64 (336)	17 15/64 (438)	22 15/64 (565)	23 15/64 (590)	26 15/64 (666)	29 15/64 (743)	35 15/64 (895)	41 15/64 (1047)
5-11 3/4 (1822) 6-0 (1829) 5-11 1/2 (1816) 65 47/64 (1670)									
1-7 3/4 (502) 1-8 (508) 1-7 1/2 (495) 13 47/64 (349)									
1-11 3/4 (603) 2-0 (610) 1-11 1/2 (597) 17 47/64 (450)									
2-5 3/4 (756) 2-6 (762) 2-5 1/2 (749) 23 47/64 (603)									
2-11 3/4 (608) 3-0 (914) 2-11 1/2 (902) 29 47/64 (755)									
3-5 3/4 (1060) 3-6 (1067) 3-5 1/2 (1054) 35 47/64 (908)									
3-11 3/4 (1213) 4-0 (1219) 3-11 1/2 (1207) 41 47/64 (1060)									
4-5 3/4 (1365) 4-6 (1372) 4-5 1/2 (1359) 47 47/64 (1212)									
4-11 3/4 (1518) 5-0 (1524) 4-11 1/2 (1511) 53 47/64 (1365)									
5-5 3/4 (1670) 5-6 (1676) 5-5 1/2 (1664) 59 47/64 (1517)									

Casement Picture

MO (mm)	1-5 1/2 (445)	1-7 1/2 (495)	1-11 1/2 (597)	2-4 1/2 (724)	2-5 1/2 (749)	2-8 1/2 (826)	2-11 1/2 (902)	3-5 1/2 (1054)	3-11 1/2 (1207)
RO (mm)	1-6 (457)	1-8 (508)	2-0 (610)	2-5 (737)	2-6 (762)	2-9 (838)	3-0 (914)	3-6 (1067)	4-0 (1219)
FS (mm)	1-5 (432)	1-7 (483)	1-11 (584)	2-4 (711)	2-5 (737)	2-8 (813)	2-11 (889)	3-5 (1041)	3-11 (1194)
DLO (mm)	11 15/64 (285)	13 15/64 (336)	17 15/64 (438)	22 15/64 (565)	23 15/64 (590)	26 15/64 (666)	29 15/64 (743)	35 15/64 (895)	41 15/64 (1047)

5-11 3/4 (1822) 6-0 (1829) 5-11 1/2 (1816) 65 47/64 (1670)									
6-5 3/4 (1975) 6-6 (1981) 6-5 1/2 (1969) 71 47/64 (1822)									
6-11 3/4 (2127) 7-0 (2134) 6-11 1/2 (2121) 77 47/64 (1974)									
7-5 3/4 (2280) 7-6 (2286) 7-5 1/2 (2273) 83 47/64 (2127)									
7-11 3/4 (2432) 8-0 (2438) 7-11 1/2 (2426) 89 47/64 (2279)									

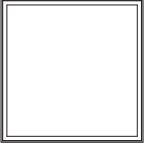
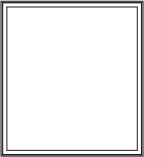
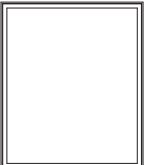
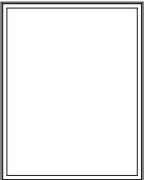
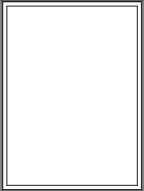
Details and Elevations not to scale.
Special sized units available within product size matrix. See your Marvin retailer.
For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

Casement Picture

MO (mm)	4-5 1/2 (1359)	4-11 1/2 (1511)	5-5 1/2 (1664)	5-11 1/2 (1816)
RO (mm)	4-6 (1372)	5-0 (1524)	5-6 (1676)	6-0 (1829)
FS (mm)	4-5 (1346)	4-11 (1499)	5-5 (1651)	5-11 (1803)
DLO (mm)	47 15/64 (1200)	53 15/64 (1352)	59 15/64 (1505)	65 15/64 (1657)

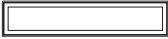
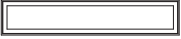
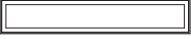
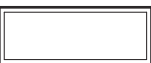
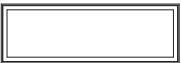
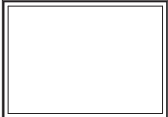
5-5 3/4 (1670) 5-6 (1676) 5-5 1/2 (1664) 59 47/64 (1517)				
1-5 3/4 (502) 1-6 (457) 1-8 (508) 1-7 1/2 (495) 13 47/64 (349) 11 47/64 (298)				
1-11 3/4 (603) 2-0 (610) 1-11 1/2 (597) 17 47/64 (450)				
2-5 3/4 (756) 2-6 (762) 2-5 1/2 (749) 23 47/64 (603)				
2-11 3/4 (608) 3-0 (914) 2-11 1/2 (902) 29 47/64 (755)				
3-5 3/4 (1060) 3-6 (1067) 3-5 1/2 (1054) 35 47/64 (908)				
3-11 3/4 (1213) 4-0 (1219) 3-11 1/2 (1207) 41 47/64 (1060)				
4-5 3/4 (1365) 4-6 (1372) 4-5 1/2 (1359) 47 47/64 (1212)				
4-11 3/4 (1518) 5-0 (1524) 4-11 1/2 (1511) 53 47/64 (1365)				
				

Casement Picture

MO (mm)	4-5 1/2 (1359)	4-11 1/2 (1511)	5-5 1/2 (1664)	5-11 1/2 (1816)
RO (mm)	4-6 (1372)	5-0 (1524)	5-6 (1676)	6-0 (1829)
FS (mm)	4-5 (1346)	4-11 (1499)	5-5 (1651)	5-11 (1803)
DLO (mm)	47 15/64 (1200)	53 15/64 (1352)	59 15/64 (1505)	65 15/64 (1657)
5-11 3/4 (1822) 6-0 (1829) 5-11 1/2 (1816) 65 47/64 (1670)				
	VCAP4660	VCAP5060	VCAP5660	VCAP6060
6-5 3/4 (1975) 6-6 (1981) 6-5 1/2 (1969) 71 47/64 (1822)				
	VCAP4666	VCAP5066	VCAP5666	VCAP6066
6-11 3/4 (2127) 7-0 (2134) 6-11 1/2 (2121) 77 47/64 (1974)				
	VCAP4670	VCAP5070	VCAP5670	VCAP6070
7-5 3/4 (2280) 7-6 (2286) 7-5 1/2 (2273) 83 47/64 (2127)				
	VCAP4676	VCAP5076	VCAP5676	VCAP6076
7-11 3/4 (2432) 8-0 (2438) 7-11 1/2 (2426) 89 47/64 (2279)				
	VCAP4680	VCAP5080	VCAP5680	VCAP6080

Details and Elevations not to scale.
Special sized units available within product size matrix. See your Marvin retailer.
For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

Casement Picture

MO (mm)	6-5 1/2 (1969)	6-11 1/2 (2121)	7-5 1/2 (2273)	7-11 1/2 (2426)
RO (mm)	6-6 (1981)	7-0 (2134)	7-6 (2286)	8-0 (2438)
FS (mm)	6-5 (1956)	6-11 (2108)	7-5 (2261)	7-11 (2413)
DLO (mm)	71 15/64 (1809)	77 15/64 (1962)	83 15/64 (2114)	89 15/64 (2267)
5-11 3/4 (1822) 6-0 (1829) 5-11 1/2 (1816) 65 47/64 (1670)				
	VCAP6616	VCAP7016	VCAP7616	VCAP8016
1-7 3/4 (502) 1-8 (508) 1-7 1/2 (495) 13 47/64 (349)				
	VCAP6618	VCAP7018	VCAP7618	VCAP8018
1-11 3/4 (603) 2-0 (610) 1-11 1/2 (597) 17 47/64 (450)				
	VCAP6620	VCAP7020	VCAP7620	VCAP8020
2-5 3/4 (756) 2-6 (762) 2-5 1/2 (749) 23 47/64 (603)				
	VCAP6626	VCAP7026	VCAP7626	VCAP8026
2-11 3/4 (908) 3-0 (914) 2-11 1/2 (902) 29 47/64 (755)				
	VCAP6630	VCAP7030	VCAP7630	VCAP8030
3-5 3/4 (1060) 3-6 (1067) 3-5 1/2 (1054) 35 47/64 (908)				
	VCAP6636	VCAP7036	VCAP7636	VCAP8036
3-11 3/4 (1213) 4-0 (1219) 3-11 1/2 (1207) 41 47/64 (1060)				
	VCAP6640	VCAP7040	VCAP7640	VCAP8040
4-5 3/4 (1365) 4-6 (1372) 4-5 1/2 (1359) 47 47/64 (1212)				
	VCAP6646	VCAP7046	VCAP7646	VCAP8046
4-11 3/4 (1518) 5-0 (1524) 4-11 1/2 (1511) 53 47/64 (1365)				
	VCAP6650	VCAP7050	VCAP7650	VCAP8050
5-5 3/4 (1670) 5-6 (1676) 5-5 1/2 (1664) 59 47/64 (1517)				
	VCAP6656	VCAP7056	VCAP7656	VCAP8056

Casement Picture

MO (mm)	6-5 1/2 (1969)	6-11 1/2 (2121)	7-5 1/2 (2273)	7-11 1/2 (2426)
RO (mm)	6-6 (1981)	7-0 (2134)	7-6 (2286)	8-0 (2438)
FS (mm)	6-5 (1956)	6-11 (2108)	7-5 (2261)	7-11 (2413)
DLO (mm)	71 15/64 (1809)	77 15/64 (1962)	83 15/64 (2114)	89 15/64 (2267)

5-11 3/4 (1822)

6-0 (1829)

5-11 1/2 (1816)

65 47/64 (1670)

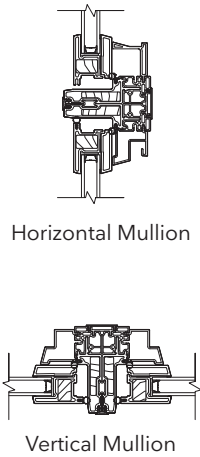
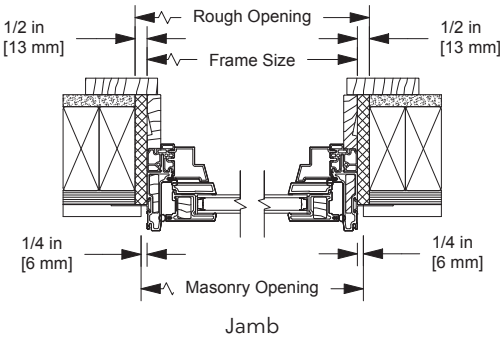
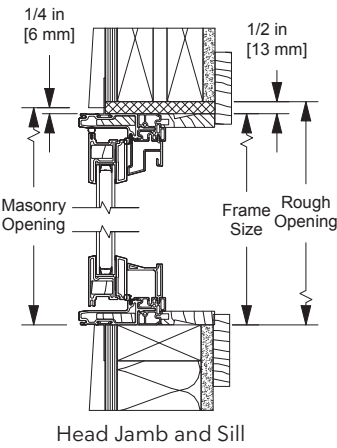
VCAP6660

VCAP7060

VCAP7660

VCAP8060

Construction Details



Details and Elevations not to scale.
Special sized units available within product size matrix. See your Marvin retailer.
For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

Direct Glaze

MO (mm)	1-5 1/2 (445)	1-7 1/2 (495)	1-11 1/2 (597)	2-4 1/2 (724)	2-5 1/2 (749)	2-8 1/2 (826)	2-11 1/2 (902)	3-5 1/2 (1054)	3-11 1/2 (1207)
RO (mm)	1-6 (457)	1-8 (508)	2-0 (610)	2-5 (737)	2-6 (762)	2-9 (838)	3-0 (914)	3-6 (1067)	4-0 (1219)
FS (mm)	1-5 (432)	1-7 (483)	1-11 (584)	2-4 (711)	2-5 (737)	2-8 (813)	2-11 (889)	3-5 (1041)	3-11 (1194)
DLO (mm)	1-1 3/4 (349)	1-3 3/4 (400)	1-7 3/4 (502)	2-0 3/4 (629)	2-1 3/4 (654)	2-4 3/4 (730)	2-7 3/4 (807)	3-1 3/4 (959)	3-7 3/4 (1111)

1-5 3/4 (451)

1-6 (457)

1-8 (508)

1-7 3/4 (502)

1-11 3/4 (603)

2-5 3/4 (756)

2-11 3/4 (608)

3-5 3/4 (1060)

3-11 3/4 (1213)

4-5 3/4 (1365)

4-11 3/4 (1518)

5-5 3/4 (1670)

VDG1616

VDG1816

VDG2016

VDG2516

VDG2616

VDG2916

VDG3016

VDG3616

VDG4016

1-5 1/2 (445)

1-6 (457)

1-7 1/2 (495)

1-8 (508)

1-11 1/2 (597)

2-4 1/2 (724)

2-5 1/2 (749)

2-8 1/2 (826)

2-11 1/2 (902)

3-5 1/2 (1054)

3-11 1/2 (1207)

VDG1618

VDG1818

VDG2018

VDG2518

VDG2618

VDG2918

VDG3018

VDG3618

VDG4018

1-5 1/2 (445)

1-6 (457)

1-7 1/2 (495)

1-8 (508)

1-11 1/2 (597)

2-4 1/2 (724)

2-5 1/2 (749)

2-8 1/2 (826)

2-11 1/2 (902)

3-5 1/2 (1054)

3-11 1/2 (1207)

VDG1620

VDG1820

VDG2020

VDG2520

VDG2620

VDG2920

VDG3020

VDG3620

VDG4020

1-5 1/2 (445)

1-6 (457)

1-7 1/2 (495)

1-8 (508)

1-11 1/2 (597)

2-4 1/2 (724)

2-5 1/2 (749)

2-8 1/2 (826)

2-11 1/2 (902)

3-5 1/2 (1054)

3-11 1/2 (1207)

VDG1626

VDG1826

VDG2026

VDG2526

VDG2626

VDG2926

VDG3026

VDG3626

VDG4026

1-5 1/2 (445)

1-6 (457)

1-7 1/2 (495)

1-8 (508)

1-11 1/2 (597)

2-4 1/2 (724)

2-5 1/2 (749)

2-8 1/2 (826)

2-11 1/2 (902)

3-5 1/2 (1054)

3-11 1/2 (1207)

VDG1630

VDG1830

VDG2030

VDG2530

VDG2630

VDG2930

VDG3030

VDG3630

VDG4030

1-5 1/2 (445)

1-6 (457)

1-7 1/2 (495)

1-8 (508)

1-11 1/2 (597)

2-4 1/2 (724)

2-5 1/2 (749)

2-8 1/2 (826)

2-11 1/2 (902)

3-5 1/2 (1054)

3-11 1/2 (1207)

VDG1636

VDG1836

VDG2036

VDG2536

VDG2636

VDG2936

VDG3036

VDG3636

VDG4036

1-5 1/2 (445)

1-6 (457)

1-7 1/2 (495)

1-8 (508)

1-11 1/2 (597)

2-4 1/2 (724)

2-5 1/2 (749)

2-8 1/2 (826)

2-11 1/2 (902)

3-5 1/2 (1054)

3-11 1/2 (1207)

VDG1640

VDG1840

VDG2040

VDG2540

VDG2640

VDG2940

VDG3040

VDG3640

VDG4040

1-5 1/2 (445)

1-6 (457)

1-7 1/2 (495)

1-8 (508)

1-11 1/2 (597)

2-4 1/2 (724)

2-5 1/2 (749)

2-8 1/2 (826)

2-11 1/2 (902)

3-5 1/2 (1054)

3-11 1/2 (1207)

VDG1646

VDG1846

VDG2046

VDG2546

VDG2646

VDG2946

VDG3046

VDG3646

VDG4046

1-5 1/2 (445)

1-6 (457)

1-7 1/2 (495)

1-8 (508)

1-11 1/2 (597)

2-4 1/2 (724)

2-5 1/2 (749)

2-8 1/2 (826)

2-11 1/2 (902)

3-5 1/2 (1054)

3-11 1/2 (1207)

VDG1650

VDG1850

VDG2050

VDG2550

VDG2650

VDG2950

VDG3050

VDG3650

VDG4050

1-5 1/2 (445)

1-6 (457)

1-7 1/2 (495)

1-8 (508)

1-11 1/2 (597)

2-4 1/2 (724)

2-5 1/2 (749)

2-8 1/2 (826)

2-11 1/2 (902)

3-5 1/2 (1054)

3-11 1/2 (1207)

VDG1656

VDG1856

VDG2056

VDG2556

VDG2656

VDG2956

VDG3056

VDG3656

VDG4056

Direct Glaze

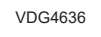
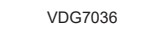
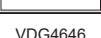
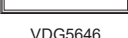
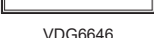
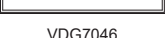
MO (mm)	1-5 1/2 (445)	1-7 1/2 (495)	1-11 1/2 (597)	2-4 1/2 (724)	2-5 1/2 (749)	2-8 1/2 (826)	2-11 1/2 (902)	3-5 1/2 (1054)	3-11 1/2 (1207)
RO (mm)	1-6 (457)	1-8 (508)	2-0 (610)	2-5 (737)	2-6 (762)	2-9 (838)	3-0 (914)	3-6 (1067)	4-0 (1219)
FS (mm)	1-5 (432)	1-7 (483)	1-11 (584)	2-4 (711)	2-5 (737)	2-8 (813)	2-11 (889)	3-5 (1041)	3-11 (1194)
DLO (mm)	1-1 3/4 (349)	1-3 3/4 (400)	1-7 3/4 (502)	2-0 3/4 (629)	2-1 3/4 (654)	2-4 3/4 (730)	2-7 3/4 (807)	3-1 3/4 (959)	3-7 3/4 (1111)
5-11 3/4 (1822)									
6-5 3/4 (1975)									
6-11 3/4 (2127)									
7-5 3/4 (2280)									
7-11 3/4 (2432)									
8-5 3/4 (2584)									

Direct Glaze

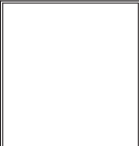
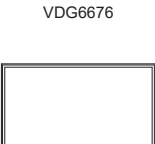
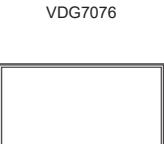
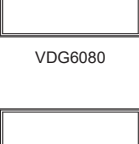
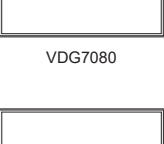
MO (mm)	1-5 1/2 (445)	1-7 1/2 (495)	1-11 1/2 (597)	2-4 1/2 (724)	2-5 1/2 (749)	2-8 1/2 (826)	2-11 1/2 (902)	3-5 1/2 (1054)	3-11 1/2 (1207)
RO (mm)	1-6 (457)	1-8 (508)	2-0 (610)	2-5 (737)	2-6 (762)	2-9 (838)	3-0 (914)	3-6 (1067)	4-0 (1219)
FS (mm)	1-5 (432)	1-7 (483)	1-11 (584)	2-4 (711)	2-5 (737)	2-8 (813)	2-11 (889)	3-5 (1041)	3-11 (1194)
DLO (mm)	1-1 3/4 (349)	1-3 3/4 (400)	1-7 3/4 (502)	2-0 3/4 (629)	2-1 3/4 (654)	2-4 3/4 (730)	2-7 3/4 (807)	3-1 3/4 (959)	3-7 3/4 (1111)
8-11 3/4 (2737)									
9-5 3/4 (2889)									
9-11 3/4 (3042)									

Details and Elevations not to scale.
Special sized units available within product size matrix. See your Marvin retailer.
For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

Direct Glaze

MO (mm)	4-5 1/2 (1359)	4-11 1/2 (1511)	5-5 1/2 (1664)	5-11 1/2 (1816)	6-5 1/2 (1969)	6-11 1/2 (2121)
RO (mm)	4-6 (1372)	5-0 (1524)	5-6 (1676)	6-0 (1829)	6-6 (1981)	7-0 (2134)
FS (mm)	4-5 (1346)	4-11 (1499)	5-5 (1651)	5-11 (1803)	6-5 (1956)	6-11 (2108)
DLO (mm)	4-1 3/4 (1264)	4-7 3/4 (1416)	5-1 3/4 (1569)	5-7 3/4 (1721)	6-1 3/4 (1873)	6-7 3/4 (2026)
1-5 3/4 (451)						
1-6 (457)						
1-7 3/4 (502)						
1-8 (508)						
1-11 1/2 (597)						
2-0 (610)						
2-5 3/4 (756)						
2-6 (762)						
2-11 3/4 (908)						
3-0 (914)						
3-5 3/4 (1060)						
3-6 (1067)						
3-11 3/4 (1213)						
4-0 (1219)						
4-5 3/4 (1365)						
4-6 (1372)						
4-11 3/4 (1518)						
5-0 (1524)						
5-5 3/4 (1670)						
5-6 (1676)						
5-11 1/2 (1816)						
5-2 1/4 (1581)						

Direct Glaze

MO (mm)	4-5 1/2 (1359)	4-11 1/2 (1511)	5-5 1/2 (1664)	5-11 1/2 (1816)	6-5 1/2 (1969)	6-11 1/2 (2121)
RO (mm)	4-6 (1372)	5-0 (1524)	5-6 (1676)	6-0 (1829)	6-6 (1981)	7-0 (2134)
FS (mm)	4-5 (1346)	4-11 (1499)	5-5 (1651)	5-11 (1803)	6-5 (1956)	6-11 (2108)
DLO (mm)	4-1 3/4 (1264)	4-7 3/4 (1416)	5-1 3/4 (1569)	5-7 3/4 (1721)	6-1 3/4 (1873)	6-7 3/4 (2026)
5-11 3/4 (1822)						
6-0 (1829)						
6-5 3/4 (1975)						
6-6 (1981)						
6-11 3/4 (2127)						
7-0 (2134)						
7-5 3/4 (2280)						
7-6 (2286)						
7-11 3/4 (2432)						
8-0 (2438)						
8-5 3/4 (2584)						
8-6 (2591)						
8-11 1/2 (2578)						
8-2 1/4 (2496)						

Direct Glaze

MO (mm)	4-5 1/2 (1359)	4-11 1/2 (1511)	5-5 1/2 (1664)	5-11 1/2 (1816)
RO (mm)	4-6 (1372)	5-0 (1524)	5-6 (1676)	6-0 (1829)
FS (mm)	4-5 (1346)	4-11 (1499)	5-5 (1651)	5-11 (1803)
DLO (mm)	4-1 3/4 (1264)	4-7 3/4 (1416)	5-1 3/4 (1569)	5-7 3/4 (1721)

8-11 3/4 (2737)				
9-0 (2743)				
8-11 1/2 (2731)				
8-8 1/4 (2648)				
	VDG4690	VDG5090	VDG5690	VDG6090
	VDG4696	VDG5096	VDG5696	VDG6096
9-5 3/4 (2889)				
9-6 (2896)				
9-5 1/2 (2883)				
9-2 1/4 (2801)				
	VDG46100	VDG50100	VDG56100	VDG60100
9-11 3/4 (3042)				
10-0 (3048)				
9-11 1/2 (3035)				
9-8 1/4 (2953)				

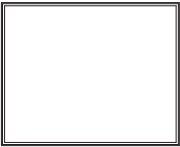
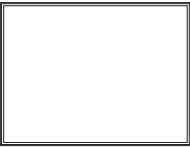
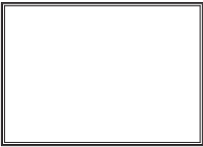
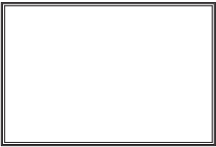
Details and Elevations not to scale.
Special sized units available within product size matrix. See your Marvin retailer.
For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

Direct Glaze

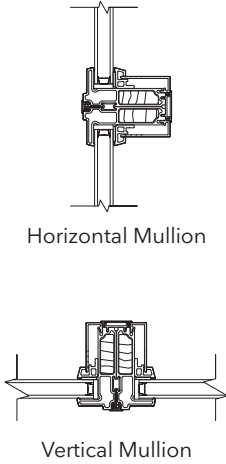
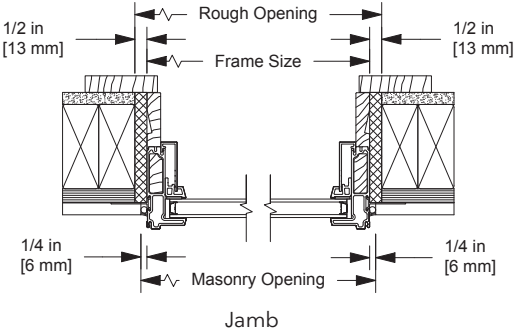
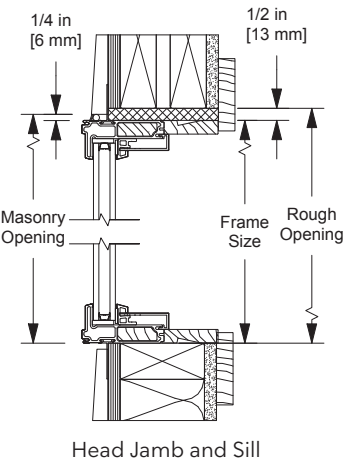
MO (mm)	7-5 1/2 (2273)	7-11 1/2 (2426)	8-5 1/2 (2578)	8-11 1/2 (2731)
RO (mm)	7-6 (2286)	8-0 (2438)	8-6 (2591)	9-0 (2743)
FS (mm)	7-5 (2261)	7-11 (2413)	8-5 (2565)	8-11 (2718)
DLO (mm)	7-1 3/4 (2178)	7-7 3/4 (2331)	8-1 3/4 (2483)	8-7 3/4 (2635)

1-5 3/4 (451)				
1-6 (457)	VDG7616	VDG8016	VDG8616	VDG9016
1-7 3/4 (502)				
1-8 (508)	VDG7618	VDG8018	VDG8618	VDG9018
1-7 1/2 (495)				
1-4 1/4 (413)				
1-11 3/4 (603)				
2-0 (610)	VDG7620	VDG8020	VDG8620	VDG9020
1-11 1/2 (597)				
1-8 1/4 (515)				
2-5 3/4 (756)				
2-6 (762)	VDG7626	VDG8026	VDG8626	VDG9026
2-5 1/2 (749)				
2-2 1/4 (667)				
2-11 3/4 (908)				
3-0 (914)	VDG7630	VDG8030	VDG8630	VDG9030
2-11 1/2 (902)				
2-8 1/4 (819)				
3-5 3/4 (1060)				
3-6 (1067)	VDG7636	VDG8036	VDG8636	VDG9036
3-5 1/2 (1054)				
3-2 1/4 (972)				
3-11 3/4 (1213)				
4-0 (1219)	VDG7640	VDG8040	VDG8640	VDG9040
3-11 1/2 (1207)				
3-8 1/4 (1124)				
4-5 3/4 (1365)				
4-6 (1372)	VDG7646	VDG8046	VDG8646	VDG9046
4-5 1/2 (1359)				
4-2 1/4 (1277)				
4-11 3/4 (1518)				
5-0 (1524)	VDG7650	VDG8050	VDG8650	VDG9050
4-11 1/2 (1511)				
4-8 1/4 (1429)				
5-5 3/4 (1670)				
5-6 (1676)	VDG7656	VDG8056	VDG8656	VDG9056
5-5 1/2 (1664)				
5-2 1/4 (1581)				

Direct Glaze

MO (mm)	7-5 1/2 (2273)	7-11 1/2 (2426)	8-5 1/2 (2578)	8-11 1/2 (2731)
RO (mm)	7-6 (2286)	8-0 (2438)	8-6 (2591)	9-0 (2743)
FS (mm)	7-5 (2261)	7-11 (2413)	8-5 (2565)	8-11 (2718)
DLO (mm)	7-1 3/4 (2178)	7-7 3/4 (2331)	8-1 3/4 (2483)	8-7 3/4 (2635)
5-11 3/4 (1822) 6-0 (1829) 5-11 1/2 (1816) 5-8 1/4 (1734)				
	VDG7660	VDG8060	VDG8660	VDG9060
6-5 3/4 (1975) 6-6 (1981) 6-5 1/2 (1969) 6-2 1/4 (1886)				
	VDG7666	VDG8066	VDG8666	
6-11 3/4 (2127) 7-0 (2134) 6-11 1/2 (2121) 6-8 1/4 (2039)				
	VDG7670	VDG8070	VDG8670	

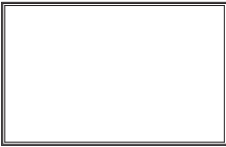
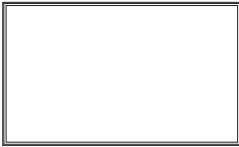
Construction Details



Details and Elevations not to scale.
Special sized units available within product size matrix. See your Marvin retailer.
For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

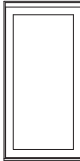
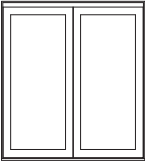
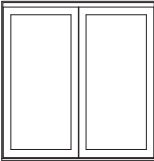
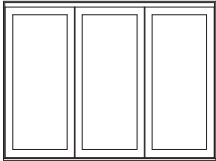
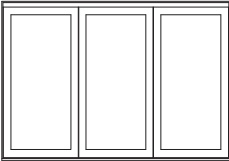
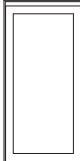
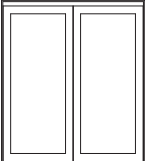
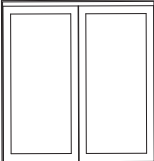
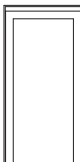
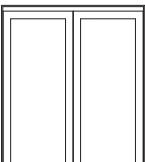
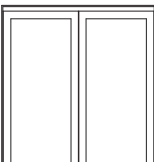
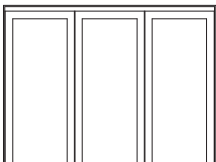
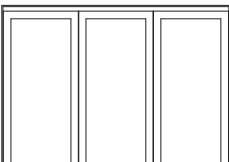
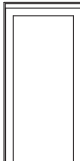
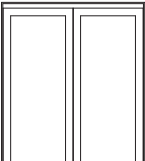
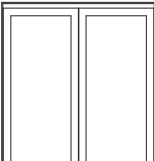
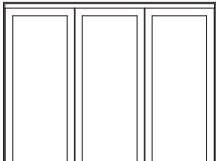
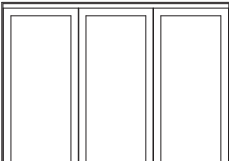
Direct Glaze

MO (mm)	9-5 1/2 (2883)	9-11 1/2 (3035)
RO (mm)	9-6 (2896)	10-0 (3048)
FS (mm)	9-5 (2870)	9-11 (3023)
DLO (mm)	9-1 3/4 (2788)	9-7 3/4 (2940)
1-5 3/4 (451) 1-6 (457) 1-7 3/4 (502) 1-8 (508) 1-11 3/4 (603) 2-0 (610) 1-11 1/2 (597) 1-8 1/4 (515)		
	VDG9616	VDG10016
1-7 3/4 (502) 1-8 (508) 1-7 1/2 (495) 1-4 1/4 (413)		
	VDG9618	VDG10018
1-11 3/4 (603) 2-0 (610) 1-11 1/2 (597) 1-8 1/4 (515)		
	VDG9620	VDG10020
2-5 3/4 (756) 2-6 (762) 2-5 1/2 (749) 2-2 1/4 (667)		
	VDG9626	VDG10026
2-11 3/4 (908) 3-0 (914) 2-11 1/2 (902) 2-8 1/4 (819)		
	VDG9630	VDG10030
3-5 3/4 (1060) 3-6 (1067) 3-5 1/2 (1054) 3-2 1/4 (972)		
	VDG9636	VDG10036
3-11 3/4 (1213) 4-0 (1219) 3-11 1/2 (1207) 3-8 1/4 (1124)		
	VDG9640	VDG10040
4-5 3/4 (1365) 4-6 (1372) 4-5 1/2 (1359) 4-2 1/4 (1277)		
	VDG9646	VDG10046
4-11 3/4 (1518) 5-0 (1524) 4-11 1/2 (1511) 4-8 1/4 (1429)		
	VDG9650	VDG10050
5-5 3/4 (1670) 5-6 (1676) 5-5 1/2 (1664) 5-2 1/4 (1581)		
	VDG9656	VDG10056

MO (mm)	9-5 1/2 (2883)	9-11 1/2 (3035)
RO (mm)	9-6 (2896)	10-0 (3048)
FS (mm)	9-5 (2870)	9-11 (3023)
DLO (mm)	9-1 3/4 (2788)	9-7 3/4 (2940)
5-11 3/4 (1822) 6-0 (1829) 5-11 1/2 (1816) 5-8 1/4 (1734)		
	VDG9660	VDG10060

Bi-Fold Door

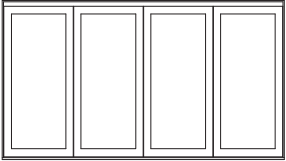
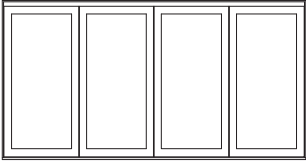
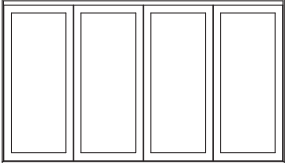
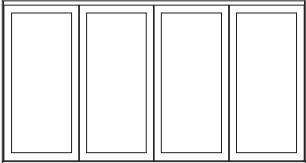
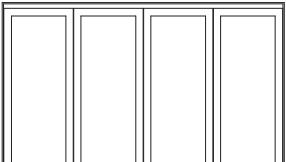
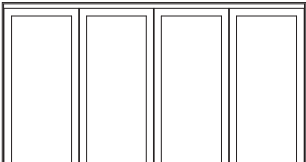
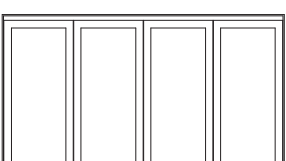
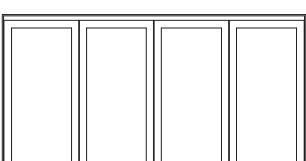
1, 2, 3 Panel

MO (mm)	3-1 3/32 (942)	3-3 25/32 (1010)	6-0 1/16 (1830)	6-5 27/64 (1967)	8-10 39/64 (2708)	9-6 21/32 (2912)
RO (mm)	3-1 19/32 (955)	3-4 9/32 (1023)	6-0 9/16 (1843)	6-5 59/64 (1979)	8-11 7/64 (2721)	9-7 5/32 (2925)
FS (mm)	3-0 19/32 (929)	3-3 9/32 (998)	5-11 9/16 (1818)	6-4 59/64 (1954)	8-10 7/64 (2695)	9-6 5/32 (2899)
DLO (mm)	2-3 3/16 (691)	2-5 7/8 (759)	2-3 3/16 (691)	2-5 7/8 (759)	2-3 3/16 (691)	2-5 7/8 (759)
6-7 3/4 (2026) 6-8 (2032) 6-7 1/2 (2019) 5-7 19/64 (1709)						
	VNBFLD3065	VNBFLD3465	VNBFLD6065	VNBFLD6665	VNBFLD9065	VNBFLD9865
6-10 1/4 (2089) 6-10 1/2 (2096) 6-10 (2083) 5-9 51/64 (1773)						
	VNBFLD3068	VNBFLD3468	VNBFLD6068	VNBFLD6668	VNBFLD9068	VNBFLD9868
7-2 1/4 (2191) 7-2 1/2 (2197) 7-2 (2184) 6-1 51/64 (1874)						
	VNBFLD3070	VNBFLD3470	VNBFLD6070	VNBFLD6670	VNBFLD9070	VNBFLD9870
7-11 3/4 (2432) 8-0 (2438) 7-11 1/2 (2426) 6-11 19/64 (2116)						
	VNBFLD3080	VNBFLD3480	VNBFLD6080	VNBFLD6680	VNBFLD9080	VNBFLD9880

Details and Elevations not to scale.
Special sized units available within product size matrix. See your Marvin retailer.
For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

Bi-Fold Door

4 Panel

MO (mm)	11-9 1/2 (3594)	12-8 7/32 (3867)
RO (mm)	11-10 (3607)	12-8 23/32 (3879)
FS (mm)	11-9 (3581)	12-7 23/32 (3854)
DLO (mm)	2-3 3/16 (691)	2-5 7/8 (759)
6-7 3/4 (2026) 6-8 (2032) 6-7 1/2 (2019) 5-7 19/64 (1709)		
	VNBFLD12065	VNBFLD12865
6-10 1/4 (2089) 6-10 1/2 (2096) 6-10 (2083) 5-9 51/64 (1773)		
	VNBFLD12068	VNBFLD12868
7-2 1/4 (2191) 7-2 1/2 (2197) 7-2 (2184) 6-1 51/64 (1874)		
	VNBFLD12070	VNBFLD12870
7-11 3/4 (2432) 8-0 (2438) 7-11 1/2 (2426) 6-11 19/64 (2116)		
	VNBFLD12080	VNBFLD12880

Bi-Fold Door

5 Panel

MO (mm)	14-8 3/32 (4473)	15-9 1/2 (4813)
RO (mm)	14-8 19/32 (4485)	15-10 (4826)
FS (mm)	14-7 19/32 (4460)	15-9 (4801)
DLO (mm)	2-3 3/16 (691)	2-5 7/8 (759)

6-7 3/4 (2026)

6-8 (2032)

6-7 1/2 (2019)

5-7 19/64 (1709)

6-10 1/4 (2089)

6-10 1/2 (2096)

6-10 (2083)

5-9 51/64 (1773)

7-2 1/4 (2191)

7-2 1/2 (2197)

7-2 (2184)

6-1 51/64 (1874)

7-11 3/4 (2432)

8-0 (2438)

7-11 1/2 (2426)

6-11 19/64 (2116)

VNBFLD15065

VNBFLD16065

VNBFLD15068

VNBFLD16068

VNBFLD15070

VNBFLD16070

VNBFLD15080

VNBFLD16080

Details and Elevations not to scale.
Special sized units available within product size matrix. See your Marvin retailer.
For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

Bi-Fold Door

6 Panel

MO (mm)	17-6 7/8 (5356)	18-10 31/32 (5765)
RO (mm)	17-7 3/8 (5369)	18-11 15/32 (5778)
FS (mm)	17-6 3/8 (5344)	18-10 15/32 (5752)
DLO (mm)	2-3 3/16 (691)	2-5 7/8 (759)

6-7 3/4 (2026)

6-8 (2032)

6-7 1/2 (2019)

5-7 19/64 (1709)

6-10 1/4 (2089)

6-10 1/2 (2096)

6-10 (2083)

5-9 51/64 (1773)

7-2 1/4 (2191)

7-2 1/2 (2197)

7-2 (2184)

6-1 51/64 (1874)

7-11 3/4 (2432)

8-0 (2438)

7-11 1/2 (2426)

6-11 19/64 (2116)

VNBFLD17865

VNBFLD19065

VNBFLD17868

VNBFLD19068

VNBFLD17870

VNBFLD19070

VNBFLD17880

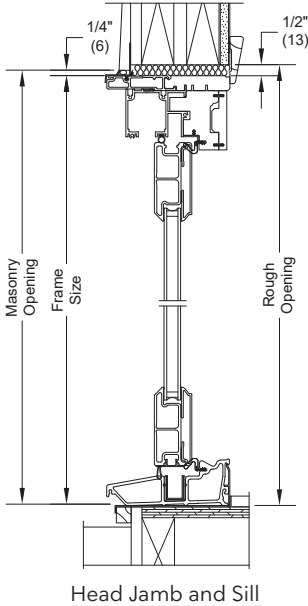
VNBFLD19080

Bi-Fold Door

7 Panel

MO (mm)	20-5 37/64 (6238)	22-0 11/32 (6714)
RO (mm)	20-6 5/64 (6250)	22-0 27/32 (6727)
FS (mm)	20-5 5/64 (6225)	21-11 27/32 (6702)
DLO (mm)	2-3 3/16 (691)	2-5 7/8 (759)

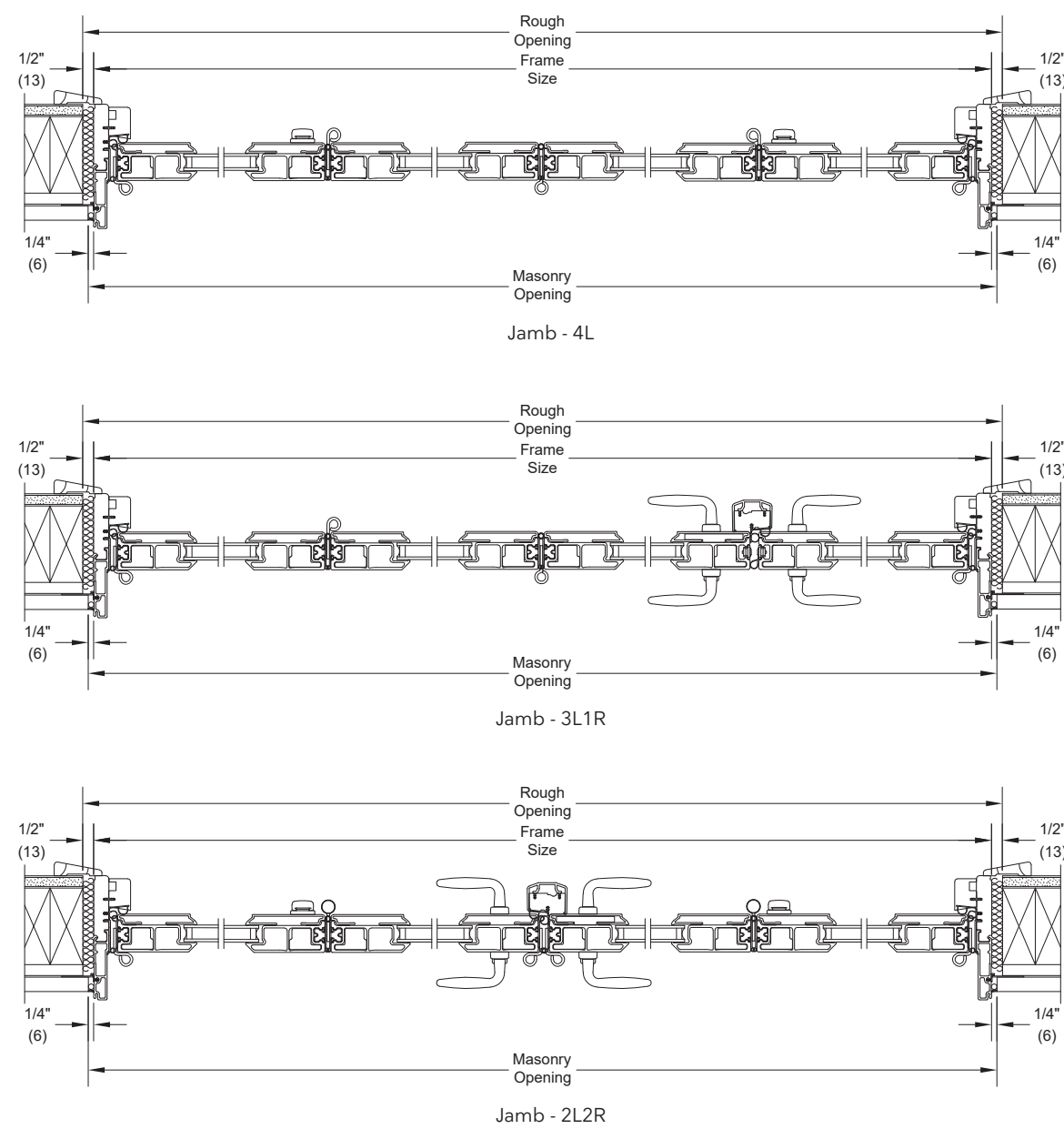
6-7 3/4 (2026)		VNBFLD20665
6-8 (2032)		VNBFLD22065
6-7 1/2 (2019)		VNBFLD20668
5-7 19/64 (1709)		VNBFLD22068
6-10 1/4 (2089)		VNBFLD20670
6-10 1/2 (2096)		VNBFLD22070
6-10 (2083)		VNBFLD20680
5-9 51/64 (1773)		VNBFLD22080
7-2 1/4 (2191)		
7-2 1/2 (2197)		
7-2 (2184)		
6-1 51/64 (1874)		
7-11 3/4 (2432)		
8-0 (2438)		
7-11 1/2 (2426)		
6-11 19/64 (2116)		



Details and Elevations not to scale.
Special sized units available within product size matrix. See your Marvin retailer.
For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

Bi-Fold Door

Construction Details



Inswing French Door

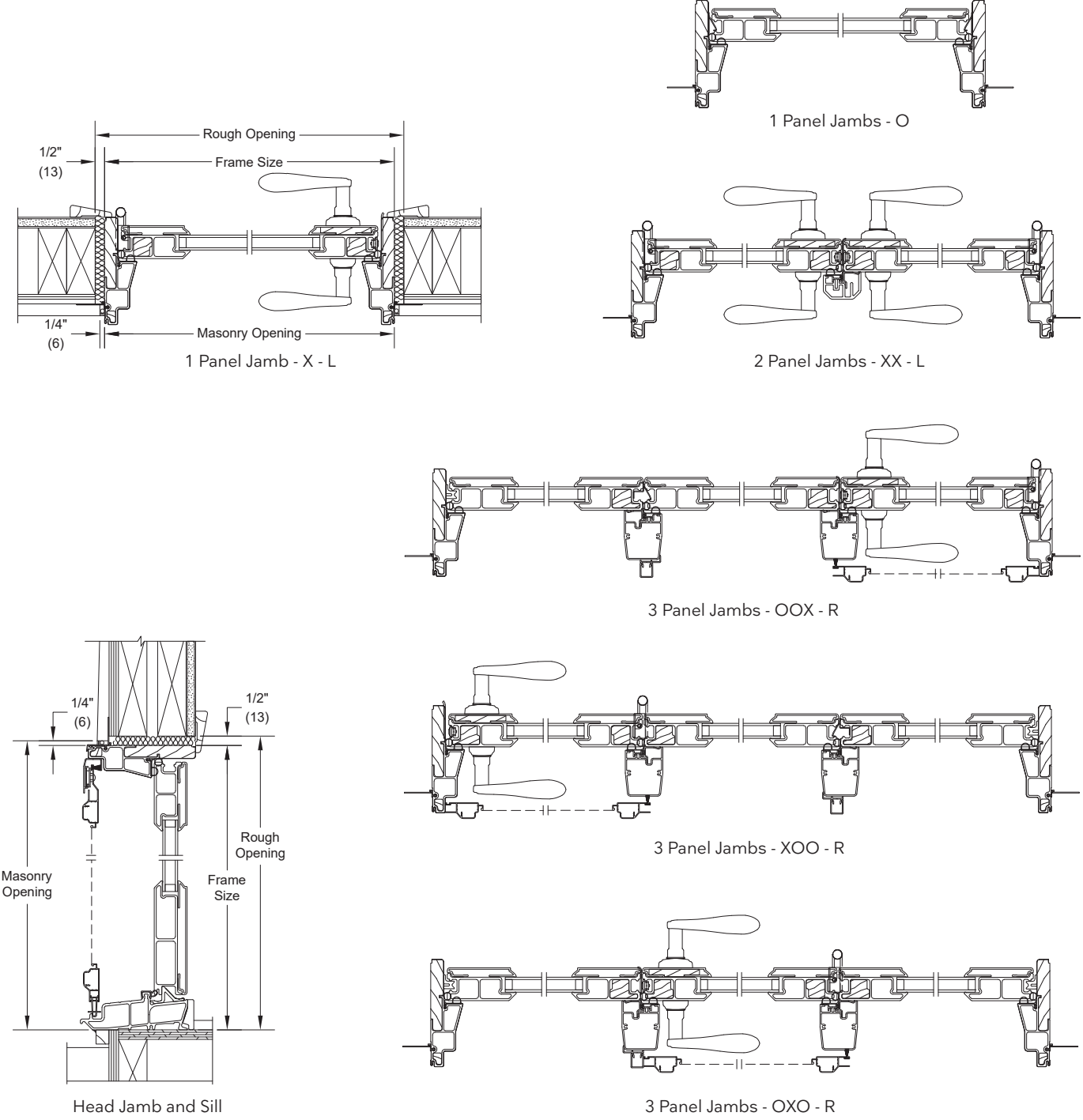
2 Panel

MO (mm)	5-10 1/4 (1784)	7-4 1/4 (2242)	7-10 1/4 (2394)	8-10 1/4 (2699)
RO (mm)	5-10 3/4 (1797)	7-4 3/4 (2254)	7-10 3/4 (2407)	8-10 3/4 (2711)
FS (mm)	5-9 3/4 (1772)	7-3 3/4 (2229)	7-9 3/4 (2381)	8-9 3/4 (2686)
DLO (mm)	1-3 11/32 (390)	1-9 11/32 (542)	1-11 11/32 (593)	2-3 11/32 (695)
6-7 3/4 (2026)				
6-8 (2032)	VNIFD6065	VNIFD7665	VNIFD8065	VNIFD9065
6-7 1/2 (2019)				
5-7 3/32 (1704)				
6-10 1/4 (2089)				
6-10 1/2 (2096)	VNIFD6068	VNIFD7668	VNIFD8068	VNIFD9068
6-10 (2083)				
5-9 19/32 (1768)				
7-2 1/4 (2191)				
7-2 1/2 (2197)	VNIFD6070	VNIFD7670	VNIFD8070	VNIFD9070
7-2 (2184)				
6-1 19/32 (1869)				
7-11 3/4 (2432)				
8-0 (2438)	VNIFD6080	VNIFD7680	VNIFD8080	VNIFD9080
7-11 1/2 (2426)				
6-11 3/32 (2111)				

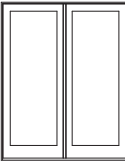
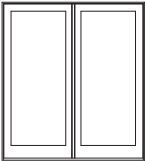
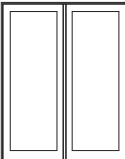
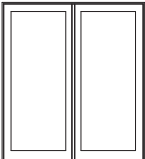
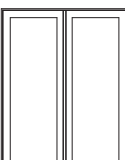
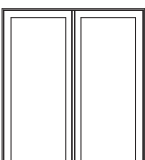
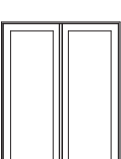
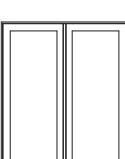
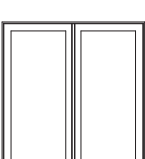
Details and Elevations not to scale.
Special sized units available within product size matrix. See your Marvin retailer.
For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

Inswing French Door

Construction Details



Outswing French Door

MO (mm)	2-6 13/16 (783)	2-8 13/16 (834)	3-0 13/16 (935)	4-11 3/4 (1518)	5-3 3/4 (1619)	5-11 3/4 (1822)
RO (mm)	2-7 5/16 (796)	2-9 5/16 (846)	3-1 5/16 (948)	5-0 1/4 (1530)	5-4 1/4 (1632)	6-0 1/4 (1835)
FS (mm)	2-6 5/16 (770)	2-8 5/16 (821)	3-0 5/16 (923)	4-11 1/4 (1505)	5-3 1/4 (1607)	5-11 1/4 (1810)
DLO (mm)	1-9 11/32 (542)	1-11 11/32 (593)	2-3 11/32 (695)	1-9 11/32 (542)	1-11 11/32 (593)	2-3 11/32 (695)
6-7 3/4 (2026) 6-8 (2032) 6-7 1/2 (2019) 5-7 3/32 (1704)						
	VNOFD2665	VNOFD2865	VNOFD3065	VNOFD5065	VNOFD5465	VNOFD6065
6-10 1/4 (2089) 6-10 1/2 (2096) 6-10 (2083) 5-9 19/32 (1768)						
	VNOFD2668	VNOFD2868	VNOFD3068	VNOFD5068	VNOFD5468	VNOFD6068
7-2 1/4 (2191) 7-2 1/2 (2197) 7-2 (2184) 6-1 19/32 (1869)						
	VNOFD2670	VNOFD2870	VNOFD3070	VNOFD5070	VNOFD5470	VNOFD6070
7-11 3/4 (2432) 8-0 (2438) 7-11 1/2 (2426) 6-11 3/32 (2111)						
	VNOFD2680	VNOFD2880	VNOFD3080	VNOFD5080	VNOFD5480	VNOFD6080

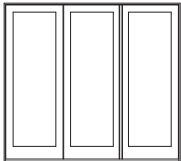
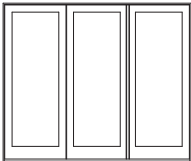
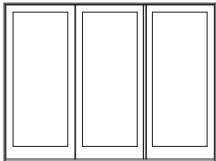
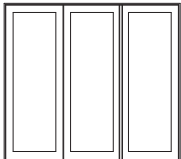
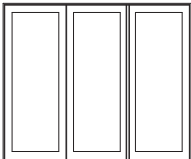
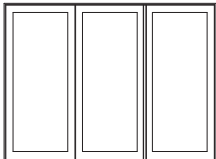
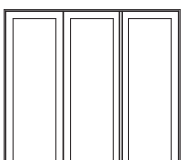
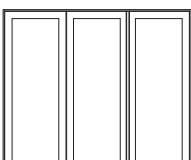
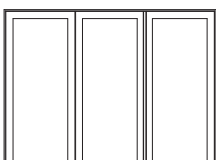
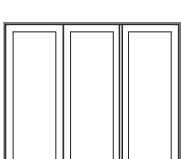
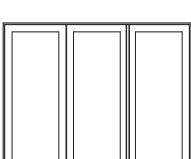
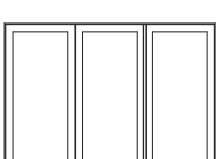
Outswing Door Operation

X signifies an operating door panel, O means stationary. Listing the panels in a door starts from the left to the right, looking from the exterior.



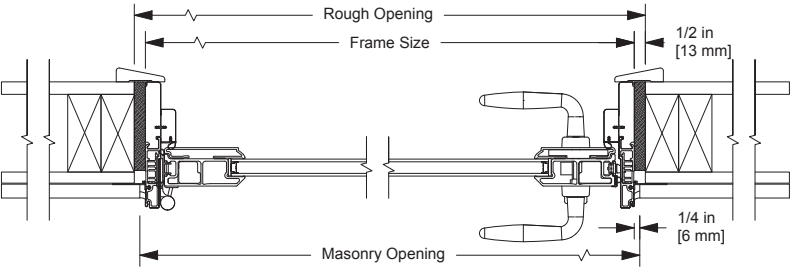
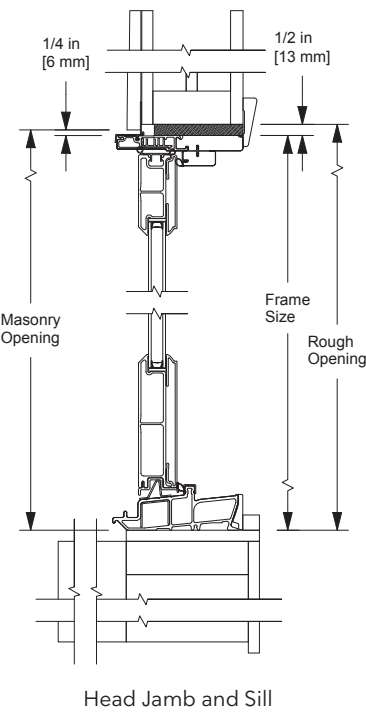
Details and Elevations not to scale.
Special sized units available within product size matrix. See your Marvin retailer.
For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

Outswing French Door

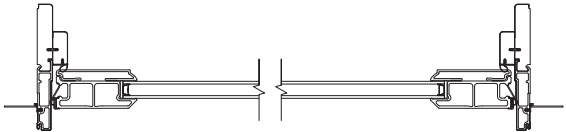
MO (mm)	7-4 1/2 (2248)	7-10 1/2 (2400)	8-10 1/2 (2705)
RO (mm)	7-5 (2261)	7-11 (2413)	8-11 (2718)
FS (mm)	7-4 (2235)	7-10 (2388)	8-10 (2692)
DLO (mm)	1-9 11/32 (542)	1-11 11/32 (593)	2-3 11/32 (695)
6-7 3/4 (2026) 6-8 (2032) 6-7 1/2 (2019) 5-7 3/32 (1704)			
	VNOFD7665	VNOFD8065	VNOFD9065
6-10 1/4 (2089) 6-10 1/2 (2096) 6-10 (2083) 5-9 19/32 (1768)			
	VNOFD7668	VNOFD8068	VNOFD9068
7-2 1/4 (2191) 7-2 1/2 (2197) 7-2 (2184) 6-1 19/32 (1869)			
	VNOFD7670	VNOFD8070	VNOFD9070
7-11 3/4 (2432) 8-0 (2438) 7-11 1/2 (2426) 6-11 3/32 (2111)			
	VNOFD7680	VNOFD8080	VNOFD9080

Outswing French Door

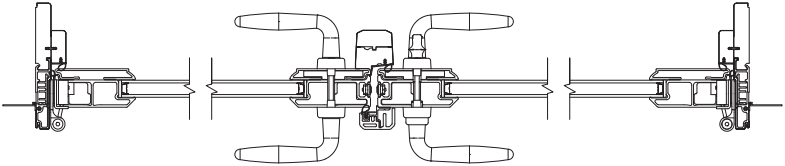
Construction Details



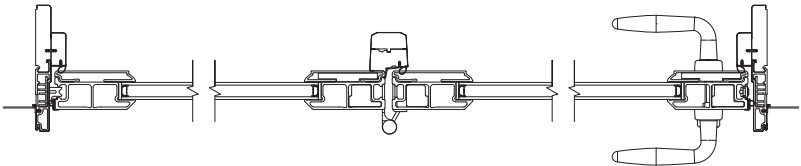
1 Panel Jamb - X - R



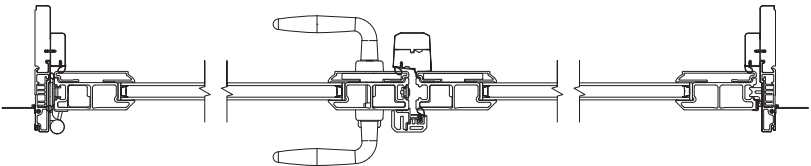
1 Panel Jamb - O



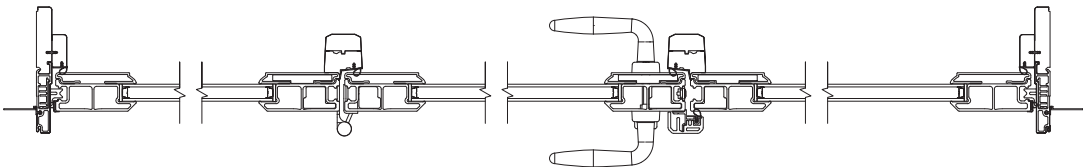
2 Panel Jamb - XX - L



2 Panel Jamb - OX - R



2 Panel Jamb - XO - R



3 Panel Jamb - OXO - R

Details and Elevations not to scale.
Special sized units available within product size matrix. See your Marvin retailer.
For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

Sliding French Door

2 Panel

MO (mm)	4-11 1/2 (1511)	5-11 1/2 (1816)	7-11 1/2 (2426)
RO (mm)	5-0 (1524)	6-0 (1829)	8-0 (2438)
FS (mm)	4-11 (1499)	5-11 (1803)	7-11 (2413)
DLO (mm)	1-10 3/8 (568)	2-4 3/8 (721)	3-4 3/8 (1026)

6-7 3/4 (2026)			
6-8 (2032)			
6-7 1/2 (2019)			
5-7 3/32 (1704)			
6-10 1/4 (2089)			
6-10 1/2 (2096)			
6-10 (2083)			
5-9 19/32 (1768)			
7-11 3/4 (2432)			
8-0 (2438)			
7-11 1/2 (2426)			
6-11 3/32 (2111)			

3 Panel

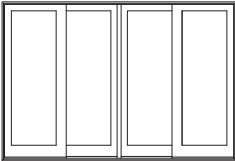
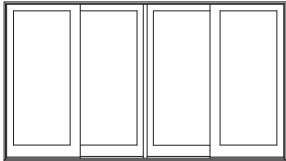
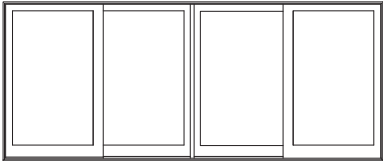
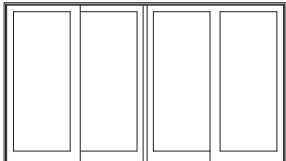
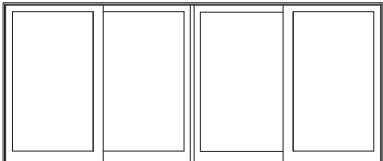
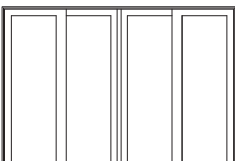
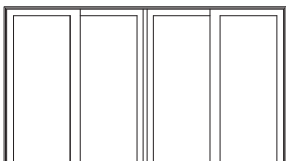
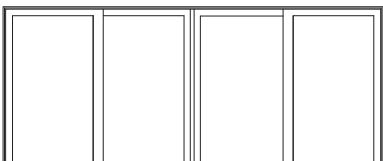
MO (mm)	7-5 (2261)	8-11 (2718)	11-11 (3632)
RO (mm)	7-5 1/2 (2273)	8-11 1/2 (2731)	11-11 1/2 (3645)
FS (mm)	7-4 1/2 (2248)	8-10 1/2 (2705)	11-10 1/2 (3620)
DLO (mm)	1-10 3/8 (568)	2-4 3/8 (721)	3-4 3/8 (1026)

6-7 3/4 (2026)			
6-8 (2032)			
6-7 1/2 (2019)			
5-7 3/32 (1704)			
6-10 1/4 (2089)			
6-10 1/2 (2096)			
6-10 (2083)			
5-9 19/32 (1768)			
7-11 3/4 (2432)			
8-0 (2438)			
7-11 1/2 (2426)			
6-11 3/32 (2111)			

Sliding French Door

4 Panel

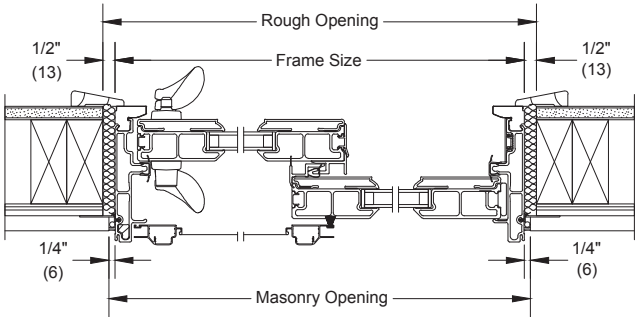
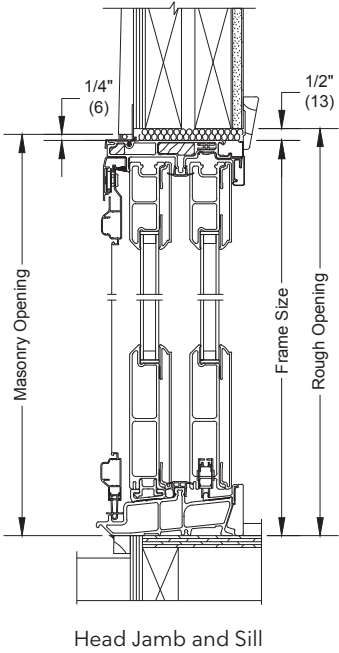
MO (mm)	9-9 1/2 (2985)	11-9 1/2 (3594)	15-9 1/2 (4813)
RO (mm)	9-10 (2997)	11-10 (3607)	15-10 (4826)
FS (mm)	9-9 (2972)	11-9 (3581)	15-9 (4801)
DLO (mm)	1-10 3/8 (568)	2-4 3/8 (721)	3-4 3/8 (1026)

6-10 1/4 (2089)			
6-10 1/2 (2096)			
6-10 (2083)			
5-7 3/32 (1704)			
			
7-2 1/4 (2191)			
7-2 1/2 (2197)			
7-2 (2184)			
5-9 19/32 (1704)			
			
7-11 3/4 (2432)			
8-0 (2438)			
7-11 1/2 (2426)			
6-11 3/32 (2111)			

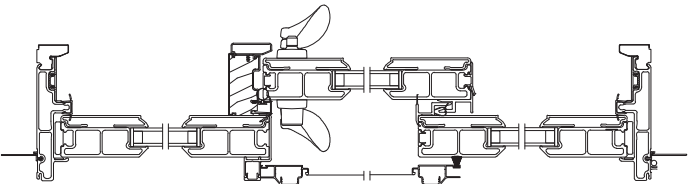
Details and Elevations not to scale.
Special sized units available within product size matrix. See your Marvin retailer.
For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

Sliding French Door

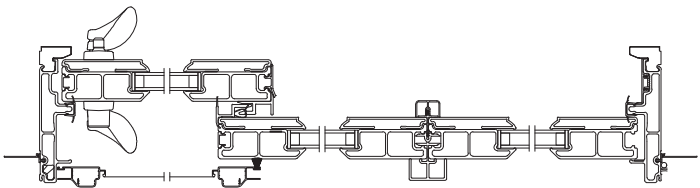
Construction Details 2, 3, and 4 Panel



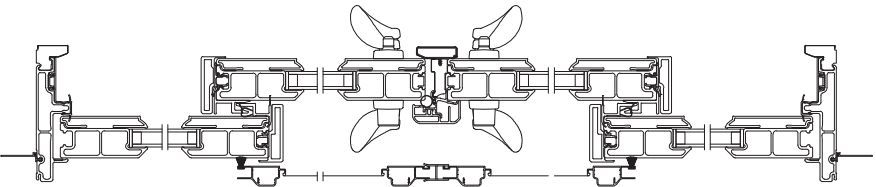
2 Panel Jamb - XO Operator



3 Panel Jamb - OXO Operator



3 Panel Jamb - XOO Operator

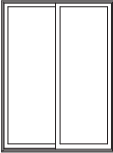
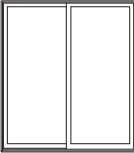
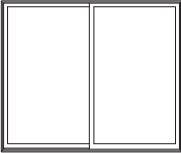
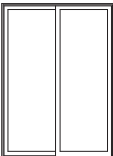
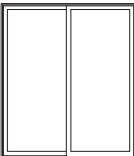
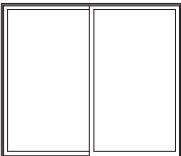
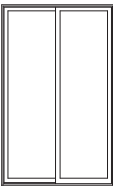
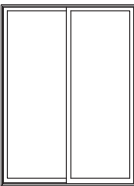
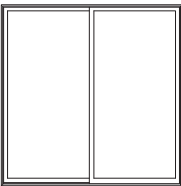


4 Panel Jamb - OXXO Operator

Sliding Patio Door

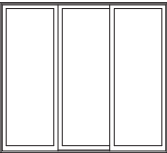
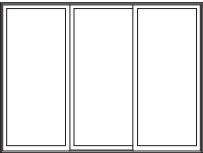
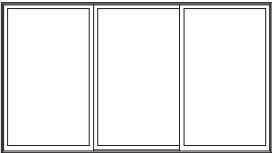
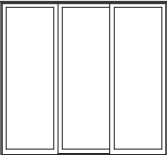
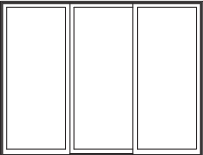
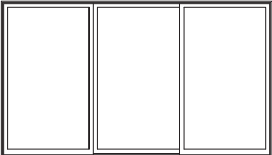
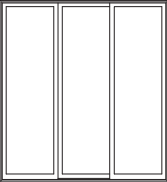
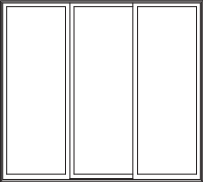
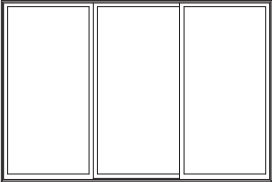
2 Panel

MO (mm)	4-11 1/2 (1511)	5-11 1/2 (1816)	7-11 1/2 (2426)
RO (mm)	5-0 (1524)	6-0 (1829)	8-0 (2438)
FS (mm)	4-11 (1499)	5-11 (1803)	7-11 (2413)
DLO (mm)	2-1 (635)	2-7 (787)	3-7 (1092)

6-7 3/4 (2026) 6-8 (2032) 6-7 1/2 (2019) 6-0 1/32 (1803)	 VNSPD5065	 VNSPD6065	 VNSPD8065
6-10 1/4 (2089) 6-10 1/2 (2096) 6-10 (2083) 6-2 17/32 (1893)	 VNSPD5068	 VNSPD6068	 VNSPD8068
7-11 3/4 (2432) 8-0 (2438) 7-11 1/2 (2426) 7-4 1/32 (2236)	 VNSPD5080	 VNSPD6080	 VNSPD8080

3 Panel

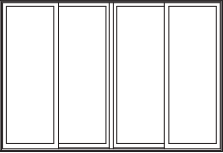
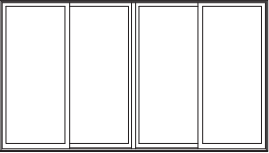
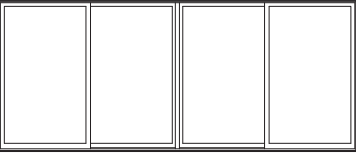
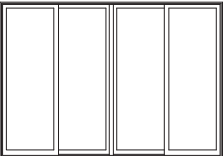
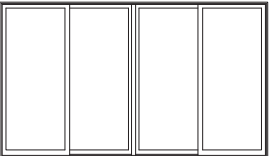
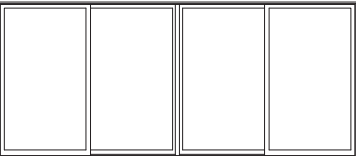
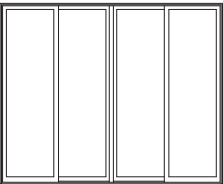
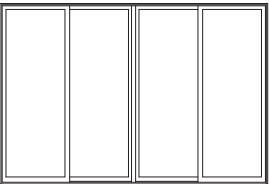
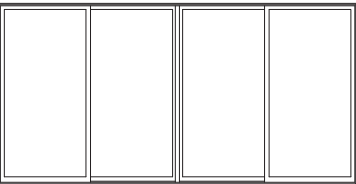
MO (mm)	7-5 (2261)	8-11 (2718)	11-11 (3632)
RO (mm)	7-5 1/2 (2273)	8-11 1/2 (2731)	11-11 1/2 (3645)
FS (mm)	7-4 1/2 (2248)	8-10 1/2 (2705)	11-10 1/2 (3620)
DLO (mm)	2-1 (635)	2-7 (787)	3-7 (1092)

6-7 3/4 (2026) 6-8 (2032) 6-7 1/2 (2019) 6-0 1/32 (1803)	 VNSPD7665	 VNSPD9065	 VNSPD12065
6-10 1/4 (2089) 6-10 1/2 (2096) 6-10 (2083) 6-2 17/32 (1893)	 VNSPD7668	 VNSPD9068	 VNSPD12068
7-11 3/4 (2432) 8-0 (2438) 7-11 1/2 (2426) 7-4 1/32 (2236)	 VNSPD7680	 VNSPD9080	 VNSPD12080

Sliding Patio Door

4 Panel

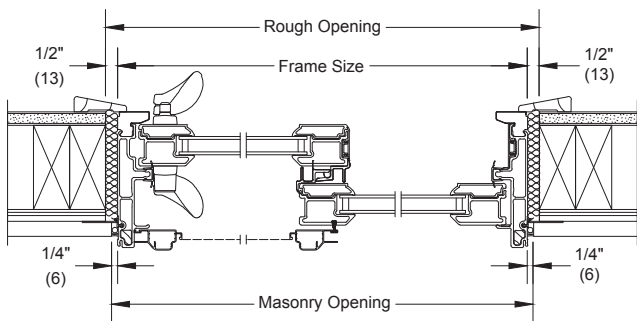
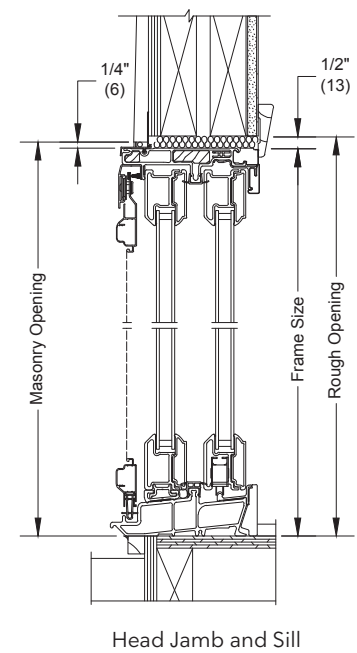
MO (mm)	6-7 3/4 (2026)	6-10 1/4 (2089)	7-11 3/4 (2432)
RO (mm)	6-8 (2032)	6-10 1/2 (2096)	8-0 (2438)
FS (mm)	6-7 1/2 (2019)	6-10 (2083)	7-11 1/2 (2426)
DLO (mm)	2-1 (635)	2-7 (787)	3-7 (1092)

6-10 1/4 (2089) 6-10 1/2 (2096) 6-10 (2083) 6-2 17/32 (1893)	 VNSP10065	 VNSPD12065	 VNSPD16065
7-2 1/4 (2191) 7-2 1/2 (2197) 7-2 (2184) 6-6 17/32 (1995)	 VNSPD10068	 VNSPD12068	 VNSPD16068
7-11 3/4 (2432) 8-0 (2438) 7-11 1/2 (2426) 7-4 1/32 (2236)	 VNSPD10080	 VNSPD12080	 VNSPD16080

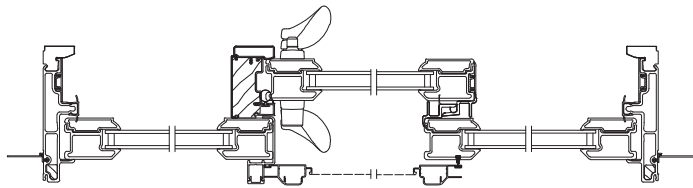
Details and Elevations not to scale.
Special sized units available within product size matrix. See your Marvin retailer.
For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

Sliding Patio Door

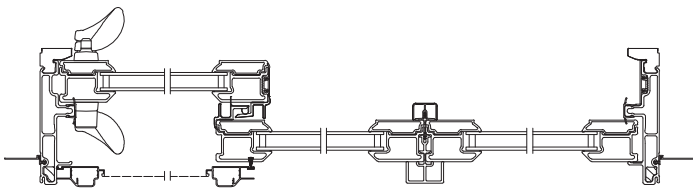
Construction Details



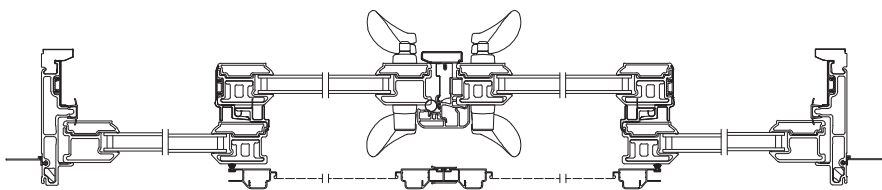
2 Panel XO Operator Jamb



3 Panel OXO Operator Jamb



3 Panel XOO Operator Jamb



4 Panel OXXO Operator Jamb

WDMA and Performance Grade (PG)

WDMA Standards

The Window and Door Manufacturers Association (WDMA) in conjunction with other organizations in the industry has developed standards that make it easy to compare windows 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 North American Fenestration Standard (AAMA/WDMA CSA 101/I.S.2/A440) and are certified in compliance with the WDMA Hallmark program.

Performance Grade (PG)

A performance grade rating, as created by AAMA/WDMA/CSA Standards, is a measure of the overall tested performance of a window or door that addresses all of the applicable requirements of the Standards. A product receives a PG rating if it meets all performance requirements, including: air infiltration resistance, water penetration resistance, structural performance, ease of operation, durability, weatherability, and resistance to forced entry. The higher a PG number a product has, the better the performance. As a frame of reference: PG40 means that a product is tested structurally to a minimum 60 pounds per square foot (psf) and must withstand water penetration under conditions equal to 8 inches of rain per hour driven by a minimum of 50 mph winds.

Casement	LC-PG50-C
Casement Picture	LC-PG50-FW
Awning	LC-PG50-AP
Direct Glaze	CW-PG50-FW

Sliding Patio Doors	LC-PG40-SD***
Sliding French Doors	LC-PG40-SD****
Inswing French Doors	LC-PG30-SHD
Outswing French Doors	LC-PG50-SHD
Bi-Fold Doors	LC-PG30-FLD

***VSPD 2 and 3 panel call sizes wider than CN60 or taller than CN70 are LC-PG30-SD, VSPD 3 and 4 panel call sizes wider than CN90 are LC-PG25-SD
****VSFD 2 and 3 panel call sizes taller than CN70 or wider than CN90 are LC-PG30-SD, VSFD 4 panel units are LC-PG30-SD, High performance option available for VSFD 2 and 3 panel units up to CN90 widths and CN80 heights which increases design pressure rating of units to LC-PG50-SD



Sound Transmission

PRODUCT TYPE	EXTERIOR GLAZING	AIR SPACE	INTERIOR GLAZING OR CENTER GLAZING	AIRSPACE	INTERIOR GLAZING	STC	OITC
Casement/Awning							
VCA	1/8" (3.1)	1/2" (13.0)	1/8" (3.1)	--	--	29	24
	1/8" (3.1)	7/16" (11.5)	3/16" (4.7)	--	--	32	28
	1/8" (3.1)	3/8" (9.8)	1/8" (3.1)	3/8" (9.8)	1/8" (3.1)	30	24
	3/16" (4.7)	5/16" (8.0)	5/32" (3.9)	5/16" (8.0)	3/16" (4.7)	30	25
VCAP	1/8" (3.1)	1/2" (13.0)	1/8" (3.1)	--	--	28	24
	1/8" (3.1)	7/16" (11.5)	3/16" (4.7)	--	--	32	27
	1/8" (3.1)	3/8" (9.8)	1/8" (3.1)	3/8" (9.8)	1/8" (3.1)	28	23
	3/16" (4.7)	5/16" (8.0)	5/32" (3.9)	5/16" (8.0)	3/16" (4.7)	32	26
VAWN	1/8" (3.1)	1/2" (13.0)	1/8" (3.1)	--	--	28	24
	1/8" (3.1)	7/16" (11.5)	3/16" (4.7)	--	--	33	28
	1/8" (3.1)	3/8" (9.8)	1/8" (3.1)	3/8" (9.8)	1/8" (3.1)	28	23
	3/16" (4.7)	5/16" (8.0)	5/32" (3.9)	5/16" (8.0)	3/16" (4.7)	30	24

Direct Glaze

VDG	1/8" (3.1)	1/2" (13.0)	1/8" (3.1)	--	--	27	23
	1/8" (3.1)	7/16" (11.5)	3/16" (4.7)	--	--	30	26
	1/8" (3.1)	3/8" (9.8)	1/8" (3.1)	3/8" (9.8)	1/8" (3.1)	27	23
	3/16" (4.7)	3/8" (9.8)	3/16" (4.7)	3/8" (9.8)	3/16" (4.7)	32	26

Sliding Patio Door

VNSPD	1/8" (3.1)	17/32" (13.0)	1/8" (3.1)	--	--	27	23
	1/8" (3.1)	15/32" (11.5)	3/16" (4.7)	--	--	30	26

Sliding French Door

VNSFD	1/8" (3.1)	17/32" (13.0)	1/8" (3.1)	--	--	28	24
	1/8" (3.1)	15/32" (11.5)	3/16" (4.7)	--	--	31	27

Inswing French Door

VNIFD	1/8" (3.1)	17/32" (13.0)	1/8" (3.1)	--	--	29	24
	1/8" (3.1)	15/32" (11.5)	3/16" (4.7)	--	--	32	27
	5/32" (3.9)	5/16" (8.0)	9/32" (6.9) SGP laminate			32	29

Outswing French Door

VNOFD	1/8" (3.1)	17/32" (13.0)	1/8" (3.1)	--	--	30	24
	1/8" (3.1)	15/32" (11.5)	3/16" (4.7)	--	--	32	27
	5/32" (3.9)	5/16" (8.0)	9/32" (6.9) SGP laminate	--	--	32	29

Sound Transmission Class (STC) and Outdoor-Indoor Transmission Class (OITC) values are subject to change. Values are generated in accordance with ASTM E90 and ASTM 1332 test Specifications. Tested glass types available in units using 3.1 mm standard glass thickness. Contact your Marvin retailer for details.

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

Altitude Guidelines

Casement									Casement - STC/OITC								
ALTITUDE LIMITS (FEET)									ALTITUDE LIMITS (FEET)								
	UNIT SIZE	16	18	20	25	26	29	30	36	16	18	20	25	26	29	30	36
16	Annealed	4000	4000	4000	4000	4000	4000	4000	4000	3000	3000	3000	3000	3000	3000	3000	3000
	Tempered	4000	5000	5000	7000	7000	7000	7000	7000	3000	4000	5000	6000	6000	6000	6000	6000
18	Annealed	4000	4000	4000	4500	4500	4500	5000	5000	3000	3000	3000	3500	3500	3500	4000	4000
	Tempered	4000	5000	6000	7500	7500	7500	9000	9000	4000	4000	5000	6500	6500	6500	8000	8000
20	Annealed	4000	4000	5000	5000	5000	5000	5000	5000	3000	3000	4000	4000	4000	4000	4000	4000
	Tempered	4000	5000	7000	8000	8000	9000	8000	10000	4000	4000	6000	6000	8000	8000	8000	10000
26	Annealed	4000	4000	5000	6000	6000	7000	7000	7000	3000	3000	4000	5000	5000	5000	5000	5500
	Tempered	6000	6500	7000	10000	10000	10000	10000	10000	5000	5500	7500	8000	9000	9000	9000	9500
30	Annealed	4000	4000	5000	6500	6000	7000	8000	8000	3000	3000	4000	5000	5500	6000	7000	7000
	Tempered	6000	8000	7000	10000	10000	10000	10000	10000	5000	7000	7500	9000	9500	10000	10000	10000
36	Annealed	4000	4000	5000	6500	6000	7500	8000	10000	3000	3000	4000	5000	5500	6500	7000	8000
	Tempered	6000	8000	10000	10000	10000	10000	10000	10000	5000	7000	9000	9000	9500	10000	10000	N/A
40	Annealed	4000	4000	5000	7000	6000	7500	8000	10000	3000	3000	4000	5000	5500	6500	7500	8000
	Tempered	6000	8000	10000	10000	10000	10000	10000	10000	5000	7000	9000	10000	9500	10000	10000	N/A
46	Annealed	4000	4000	5000	7000	7000	8000	8000	10000	3000	3000	4000	5000	6000	7000	7500	9000
	Tempered	6000	8000	10000	10000	10000	10000	10000	10000	5000	7000	9000	10000	10000	10000	10000	N/A
50	Annealed	4000	4000	5000	7000	7000	8000	9000	10000	3000	3000	4000	5000	6000	7000	8000	9000
	Tempered	6000	8000	10000	10000	10000	10000	10000	10000	5000	7000	9000	10000	10000	10000	10000	N/A
56	Annealed	4000	4000	5000	7000	7000	7000	9000	9000	3000	3000	4000	5000	6000	N/A	8000	N/A
	Tempered	6000	8000	10000	10000	10000	10000	10000	10000	5000	7000	9000	10000	10000	10000	10000	N/A
60	Annealed	4000	4000	5000	6000	7000	7000	9000	10000	3000	3000	4000	N/A	N/A	N/A	N/A	N/A
	Tempered	6000	8000	10000	10000	10000	10000	10000	10000	5000	7000	9000	10000	10000	10000	10000	N/A
66	Annealed	4000	4000	5000	6000	7000	7000	9000	10000	3000	3000	4000	N/A	N/A	N/A	N/A	N/A
	Tempered	6000	8000	10000	10000	10000	10000	10000	10000	5000	7000	9000	10000	10000	10000	10000	N/A
70	Annealed	4000	4000	5000	6000	7000	7000	9000	10000	3000	3000	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	6000	8000	10000	10000	10000	10000	10000	10000	5000	7000	9000	10000	10000	10000	10000	N/A
76	Annealed	4000	4000	5000	6000	7000	6000	9000	6000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	4000	6000	8000	10000	10000	10000	10000	10000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
80	Annealed	4000	4000	5000	5000	7000	6000	9000	6000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	4000	4000	6000	8000	10000	10000	10000	10000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Casement - Triple Pane									
ALTITUDE LIMITS (FEET)									
	UNIT SIZE	16	18	20	25	26	29	30	36
16	Annealed	3000	3000	3000	3000	3000	3000	3000	3000
	Tempered	3000	4000	4000	5000	5000	5000	5000	5000
18	Annealed	3000	3000	3000	3000	3000	3000	3000	3000
	Tempered	4000	4000	5000	6000	6000	6000	7000	7000
20	Annealed	3000	3000	4000	4000	4000	4000	4000	4000
	Tempered	4000	4000	6000	6000	7500	7500	7500	9000
26	Annealed	3000	3000	4000	4000	5000	5000	5000	5500
	Tempered	5000	5500	7000	8000	8000	9000	9000	9500
30	Annealed	3000	3000	4000	4500	5000	5000	6000	6000
	Tempered	5000	7000	7000	9000	9000	9000	10000	10000
36	Annealed	3000	3000	4000	4500	5000	5500	6000	7000
	Tempered	5000	7000	8000	9000	9000	9500	10000	9000
40	Annealed	3000	3000	4000	5000	5000	5500	6500	7000
	Tempered	5000	7000	8000	10000	9000	9500	10000	9000
46	Annealed	3000	3000	4000	5000	5000	6000	6500	8000
	Tempered	5000	7000	8000	10000	10000	10000	10000	9500
50	Annealed	3000	3000	4000	5000	5000	6000	7000	8000
	Tempered	5000	7000	8000	10000	10000	10000	10000	9500
56	Annealed	3000	3000	4000	5000	5000	6000	7000	8000
	Tempered	5000	7000	8000	10000	10000	10000	10000	9500
60	Annealed	3000	3000	4000	5000	5000	6000	7000	9000
	Tempered	5000	7000	8000	10000	10000	10000	10000	10000
66	Annealed	3000	3000	4000	5000	5000	6000	7000	8000
	Tempered	5000	7000	8000	10000	10000	10000	10000	10000
70	Annealed	3000	3000	4000	5000	5000	5000	6000	8000
	Tempered	5000	7000	8000	10000	10000	10000	10000	10000
76	Annealed	3000	4000	4000	4000	5000	5000	6000	8000
	Tempered	3000	4000	5000	7000	8000	9000	10000	10000
80	Annealed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Marvin recommends the maximum altitude limitation for its seal insulated glass units. These limits do not account for glass deflection which may take on a pillowed appearance below these elevation. The limits may be affected by site, location, temperature and/or divided lites. Marvin does not recommend the use of IG units in excess of these specified guidelines. These limitations apply to Marvin units and should not be interpreted as an industry standard.

Altitude Guidelines

Caseмент Picture																			
ALTITUDE LIMITS (FEET)																			
UNIT SIZE		16	18	20	25	26	29	30	36	40	46	50	56	60	66	70	76	80	
16	Annealed	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	
	Tempered	4000	5000	5000	7000	7000	7000	7000	7000	7000	7000	7000	7000	7000	7000	7000	5000	5000	
18	Annealed	4000	4000	4000	4500	4500	4500	5000	5000	5000	5000	5000	5000	5000	5000	5000	4000	4000	
	Tempered	4000	5000	6000	7500	7500	7500	9000	9000	9000	9000	9000	9000	9000	9000	9000	7000	7000	
20	Annealed	4000	4000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	
	Tempered	4000	5000	7000	8000	8000	9000	8000	10000	10000	10000	10000	10000	10000	10000	10000	9000	9000	
26	Annealed	4000	4000	5000	6000	6000	7000	7000	7000	7000	8000	8000	8000	7000	7000	7000	7000	7000	
	Tempered	6000	6500	7000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	
30	Annealed	4000	4000	5000	6500	6000	7000	8000	8000	8000	8000	10000	10000	9000	9000	9000	9000	9000	
	Tempered	6000	8000	7000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	
36	Annealed	4000	4000	5000	6500	6000	7500	8000	10000	10000	10000	10000	9000	10000	10000	10000	6000	6000	
	Tempered	6000	8000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	
40	Annealed	4000	4000	5000	7000	6000	7500	8000	10000	10000	10000	10000	10000	10000	10000	10000	10000	8000	
	Tempered	6000	8000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	
46	Annealed	4000	4000	5000	7000	7000	8000	8000	10000	10000	10000	10000	10000	10000	10000	8000	8000	9000	
	Tempered	6000	8000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	
50	Annealed	4000	4000	5000	7000	7000	8000	9000	10000	10000	10000	10000	10000	10000	10000	10000	9000	N/A	
	Tempered	6000	8000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	
56	Annealed	4000	4000	5000	7000	7000	7000	9000	9000	10000	10000	10000	10000	10000	10000	10000	10000	10000	
	Tempered	6000	8000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	
60	Annealed	4000	4000	5000	6000	7000	7000	9000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	
	Tempered	6000	8000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	
66	Annealed	4000	4000	5000	6000	7000	7000	9000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	
	Tempered	6000	8000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	
70	Annealed	4000	4000	5000	6000	7000	7000	9000	10000	10000	8000	10000	10000	10000	10000	10000	10000	10000	
	Tempered	6000	8000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	
76	Annealed	4000	4000	5000	6000	7000	6000	9000	6000	10000	8000	9000	10000	10000	10000	10000	10000	10000	
	Tempered	4000	6000	8000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	
80	Annealed	4000	4000	5000	5000	7000	6000	9000	6000	7000	9000	N/A	N/A	10000	10000	10000	10000	10000	
	Tempered	4000	4000	6000	8000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	

Caseмент Picture - STC/OITC																		
ALTITUDE LIMITS (FEET)																		
	UNIT SIZE	16	18	20	25	26	29	30	36	40	46	50	56	60	66	70	76	80
16	Annealed	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	N/A	N/A
	Tempered	3000	4000	5000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	N/A	N/A
18	Annealed	3000	3000	3000	3500	3500	3500	4000	4000	4000	4000	4000	4000	4000	4000	4000	N/A	N/A
	Tempered	4000	4000	5000	6500	6500	6500	8000	8000	8000	8000	8000	8000	8000	8000	8000	N/A	N/A
20	Annealed	3000	3000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	N/A	N/A	N/A
	Tempered	4000	4000	6000	6000	8000	8000	8000	10000	10000	10000	10000	10000	10000	10000	10000	N/A	N/A
26	Annealed	3000	3000	4000	5000	5000	5000	5000	5500	5500	6000	6000	6000	N/A	N/A	N/A	N/A	N/A
	Tempered	5000	5500	7500	8000	9000	9000	9000	9500	9500	10000	10000	10000	10000	10000	10000	N/A	N/A
30	Annealed	3000	3000	4000	5000	5500	6000	7000	7000	7500	7500	8000	8000	N/A	N/A	N/A	N/A	N/A
	Tempered	5000	7000	7500	9000	9500	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	N/A	N/A
36	Annealed	3000	3000	4000	5000	5500	6500	7000	8000	9000	9500	9500	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	5000	7000	9000	9000	9500	10000	10000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
40	Annealed	3000	3000	4000	5000	5500	6500	7500	8000	10000	10000	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	5000	7000	9000	10000	9500	10000	10000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
46	Annealed	3000	3000	4000	5000	6000	7000	7500	9000	10000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	5000	7000	9000	10000	10000	10000	10000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
50	Annealed	3000	3000	4000	5000	6000	7000	8000	9000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	5000	7000	9000	10000	10000	10000	10000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
56	Annealed	3000	3000	4000	5000	6000	N/A	8000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	5000	7000	9000	10000	10000	10000	10000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
60	Annealed	3000	3000	4000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	5000	7000	9000	10000	10000	10000	10000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
66	Annealed	3000	3000	4000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	5000	7000	9000	10000	10000	10000	10000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
70	Annealed	3000	3000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	5000	7000	9000	10000	10000	10000	10000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
76	Annealed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
80	Annealed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Altitude Guidelines

[illegible][illegible]

Altitude Guidelines

Direct Glaze		ALTITUDE LIMITS (FEET)																				
	UNIT SIZE	16	18	20	25	26	29	30	36	40	46	50	56	60	66	70	76	80	86	90	96	100
16	Annealed	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	3000	3000	3000
	Tempered	5000	5000	6500	6500	6500	8000	8000	8000	8000	8000	8000	8000	8000	8000	6000	6000	4000	4000	3000	3000	3000
18	Annealed	4000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	4000	4000	4000
	Tempered	5000	7000	7000	8500	8500	8500	10000	10000	10000	10000	10000	10000	10000	10000	8000	8000	6000	6000	4000	4000	4000
20	Annealed	4000	5000	5000	5000	5500	5500	5500	6000	6000	6000	6000	6000	6000	6000	6000	6000	5000	5000	5000	5000	5000
	Tempered	6500	7000	9000	9000	9500	9500	9500	10000	10000	10000	10000	10000	10000	10000	10000	10000	8000	8000	5000	5000	5000
26	Annealed	4000	5000	5500	7000	7000	7000	7000	7500	7500	8000	8000	8000	8000	8000	8000	7000	7000	7000	6000	6000	6000
	Tempered	8000	8500	9500	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	9000	9000	9000
30	Annealed	4000	5000	5500	7500	7000	8000	9000	9000	9500	9500	9500	10000	9000	9000	9000	9000	8000	8000	8000	8000	8000
	Tempered	8000	10000	9500	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
36	Annealed	4000	5000	6000	7500	7500	8500	9000	10000	10000	10000	10000	10000	10000	10000	10000	9000	9000	9000	9000	N/A	N/A
	Tempered	8000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
40	Annealed	4000	5000	6000	7500	7500	8500	9500	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	N/A	N/A	N/A	N/A
	Tempered	8000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
46	Annealed	4000	5000	6000	8000	8000	8500	9500	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	N/A	N/A	N/A
	Tempered	8000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
50	Annealed	4000	5000	6000	8000	8000	9000	9500	10000	10000	10000	10000	10000	10000	10000	10000	10000	N/A	N/A	N/A	N/A	N/A
	Tempered	8000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
56	Annealed	4000	5000	6000	7000	8000	9000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	N/A	N/A	N/A	N/A
	Tempered	8000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
60	Annealed	4000	5000	6000	7000	8000	9000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	N/A	N/A	N/A	N/A
	Tempered	8000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
66	Annealed	4000	5000	6000	7000	8000	8000	9000	10000	10000	10000	10000	10000	10000	10000	10000	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	8000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	N/A	10000	N/A
70	Annealed	4000	5000	6000	7000	8000	8000	9000	9000	10000	10000	10000	10000	10000	10000	10000	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	6000	8000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	N/A	N/A	N/A
76	Annealed	4000	5000	6000	7000	7000	8000	9000	9000	10000	10000	N/A	10000	10000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	6000	8000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	N/A	N/A	N/A
80	Annealed	4000	5000	5000	7000	7000	8000	8000	9000	N/A	10000	N/A	10000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	4000	6000	8000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	N/A	N/A	N/A	N/A	N/A	N/A
86	Annealed	4000	5000	5000	7000	7000	8000	8000	9000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	4000	6000	8000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	N/A	N/A	N/A	N/A	N/A	N/A
90	Annealed	3000	4000	5000	6000	6000	7000	8000	9000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	3000	4000	5000	8000	9000	10000	10000	10000	10000	10000	10000	10000	10000	10000	N/A	N/A	N/A	N/A	N/A	N/A	N/A
96	Annealed	3000	4000	5000	N/A	6000	7000	8000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	3000	4000	5000	N/A	9000	10000	10000	10000	10000	10000	10000	10000	10000	10000	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100	Annealed	3000	4000	5000	6000	6000	7000	8000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	3000	4000	5000	8000	9000	10000	10000	10000	10000	10000	10000	10000	10000	10000	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Altitude Guidelines

[illegible]

Altitude Guidelines

Sliding French Door									
ALTITUDE LIMITS (FEET)									
UNIT SIZE		50	60	76	80	90	100	120	160
65	Annealed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000	10000	10000
68	Annealed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000	10000	10000
70	Annealed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	N/A	10000	10000	10000	N/A
80	Annealed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000	10000	10000

Sliding French Door STC							
ALTITUDE LIMITS (FEET)							
UNIT SIZE		50	60	76	90	100	120*
65	Annealed	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000
68	Annealed	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000
70	Annealed	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000

*STC is only available on CN120 OXXO units (not CN120 3-panel units)

Inswing French Door							
ALTITUDE LIMITS (FEET)							
UNIT SIZE		26	28	30	50	54	60
65	Annealed	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000
68	Annealed	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000
70	Annealed	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000
80	Annealed	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000

Inswing French Door STC							
ALTITUDE LIMITS (FEET)							
UNIT SIZE		26	28	30	50	54	60
65	Annealed	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000
68	Annealed	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000
70	Annealed	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000

Outswing French Door							
ALTITUDE LIMITS (FEET)							
UNIT SIZE		26	28	30	50	54	60
65	Annealed	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000
68	Annealed	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000
70	Annealed	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000
80	Annealed	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000

Outswing French Door STC							
ALTITUDE LIMITS (FEET)							
UNIT SIZE		26	28	30	50	54	60
65	Annealed	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000
68	Annealed	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000
70	Annealed	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000

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.

Altitude Guidelines

Sliding Patio Door									
ALTITUDE LIMITS (FEET)									
UNIT SIZE		50	60	76	80	90	100	120	160
65	Annealed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000	10000	10000
68	Annealed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000	10000	10000
70	Annealed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	N/A	10000	10000	10000	10000
80	Annealed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000	10000	10000

Sliding Patio Door STC									
ALTITUDE LIMITS (FEET)									
UNIT SIZE		50	60	76	80	90	100	120	160
65	Annealed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000	10000	10000
68	Annealed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000	10000	10000
70	Annealed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	N/A	10000	10000	10000	10000
80	Annealed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000	10000	10000

Bi-Fold Door																
ALTITUDE LIMITS (FEET)																
UNIT SIZE		30	34	60	66	90	98	120	128	150	160	178	190	206	220	
65	Annealed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
68	Annealed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
70	Annealed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
80	Annealed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000

Bi-Fold Door STC																
ALTITUDE LIMITS (FEET)																
UNIT SIZE		30	34	60	66	90	98	120	128	150	160	178	190	206	220	
65	Annealed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
68	Annealed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
70	Annealed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	N/A	10000	10000	10000
80	Annealed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A



Since 1912, Marvin has been a family-owned and -led company, with a legacy of innovation and commitment to the highest quality. We understand the unique opportunity windows and doors have to improve our spaces and how we feel in them. That's why we never stop pushing what's possible and inventing new solutions to channel fresh air, enhance light quality, and connect with the world around us.

MARVIN.COM