

Technical Specifications

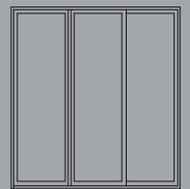
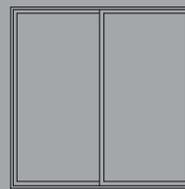
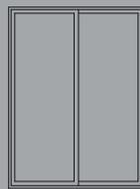
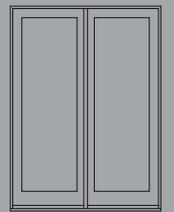
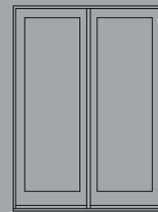
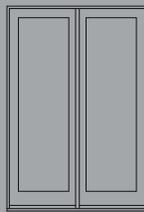
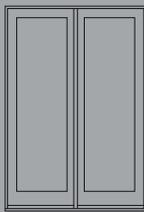
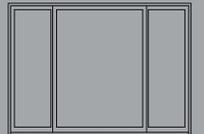
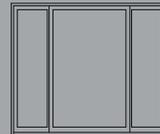
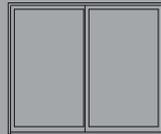
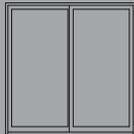
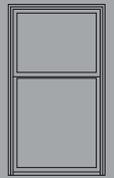
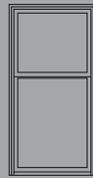
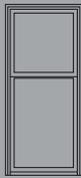
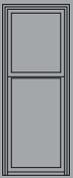




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ELEVATE CASEMENT WINDOWS
Gunmetal

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.

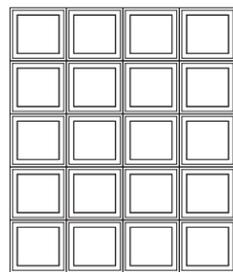
MO (mm)	2-0 1/2 (622)	2-4 1/2 (724)	2-8 1/2 (826)	3-0 1/2 (927)	4-0 1/2 (1232)
RO (mm)	2-1 (635)	2-5 (737)	2-9 (838)	3-1 (940)	4-1 (1245)
FS (mm)	2-0 (610)	2-4 (711)	2-8 (813)	3-0 (914)	4-0 (1219)
DLO (mm)	1-6 25/32 (477)	1-10 25/32 (579)	2-2 25/32 (680)	2-6 25/32 (782)	3-6 25/32 (1087)

1-7 3/8 (492)					
1-7 5/8 (498)	ELAWN2519	ELAWN2919	ELAWN3319	ELAWN3719	ELAWN4919
1-7 1/8 (486)					
1-1 29/32 (353)					

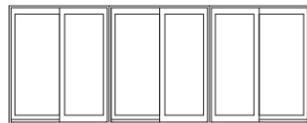
Mulling Options - A variety of factory mulled combinations are available, See Page 71 for certified mull chart.

Field mulling kits available to create your own unique multiple assemblies. Please contact your local Marvin representative for more information.

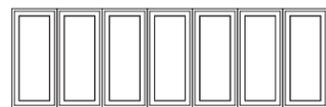
Examples of Possible Configurations



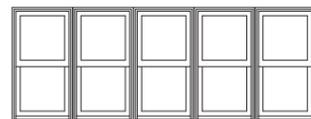
Casement Picture
4 Wide 5 High



Glider
3 Wide 1 High



Casement
7 Wide 1 High

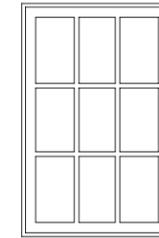


Double Hung
5 Wide 1 High

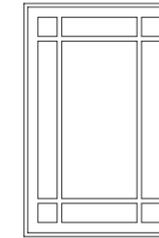
The information provided in this catalog has been gathered and assembled with every effort made to validate accuracy and consistency of the content. However, Marvin does not make any warranty or guarantee as to this information. Please verify critical product data in Marvin Order Management System (OMS)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

Lite Cuts

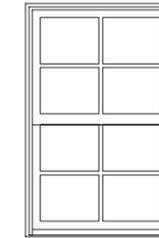
Windows



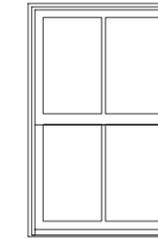
Rectangular
Available as GBG and SDL*



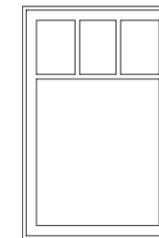
Prairie
Available as GBG and SDL*



2w2h
Available as GBG and SDL*



2w1h
Available as GBG and SDL*



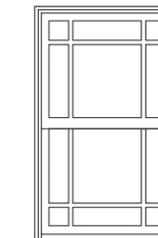
Cottage
Available as GBG and SDL*



Equal Lite
Available as GBG and SDL*

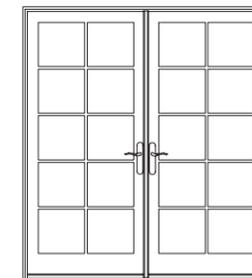


Simulated Checkrail
Available as SDL**

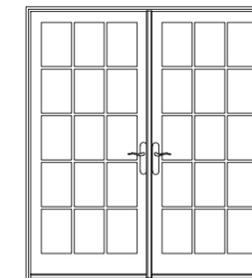


6 Lite Prairie
Available as GBG and SDL*

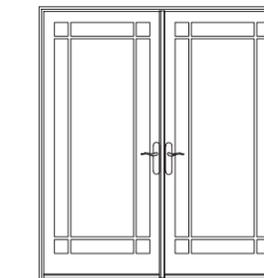
Doors



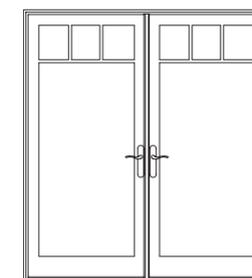
10/12 Lite
One vertical bar per panel
available as GBG and SDL*



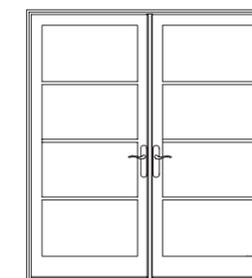
15/18 Lite
Two vertical bars per panel
available as GBG and SDL*



Prairie
Available as GBG and SDL*



Cottage
Available as GBG and SDL*



Equal Lite
Available as GBG and SDL*

SDL available with or without Spacer Bar.
2 11/32" (59) Simulated Checkrail available with or without spacer bar. Compatible with SDL and SDL with spacer bar. Horizontal bar only. Vertical location can be specified. Available on Casement, Awning, Glider, Direct Glaze Rectangles and Double Hung Picture units.
Cottage lite cut not available on Double Hung.
Equal lite allows for the number of horizontal and vertical lites to be specified for a custom appearance.
Lite cuts are dependent on product type and size. Please consult your local Marvin representative for details and availability.

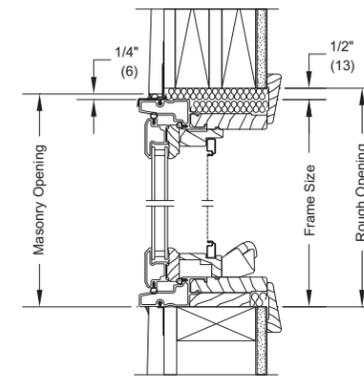
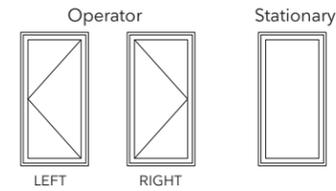
Casement

MO (mm)	1-4 1/2 (419)	1-8 1/2 (521)	2-0 1/2 (622)	2-4 1/2 (724)	2-8 1/2 (826)	3-0 1/2 (927)
RO (mm)	1-5 (432)	1-9 (533)	2-1 (635)	2-5 (737)	2-9 (838)	3-1 (940)
FS (mm)	1-4 (406)	1-8 (508)	2-0 (610)	2-4 (711)	2-8 (813)	3-0 (914)
DLO (mm)	0-10 25/32 (274)	1-2 25/32 (376)	1-6 25/32 (477)	1-10 25/32 (579)	2-2 25/32 (680)	2-6 25/32 (782)
2-7 3/8 (797)						
2-7 3/8 (803)						
2-7 1/8 (791)						
2-11 3/8 (898)						
2-11 5/8 (905)						
2-11 1/8 (892)						
2-5 29/32 (760)						
3-3 3/8 (1000)						
3-3 5/8 (1006)						
3-3 1/8 (994)						
3-7 1/2 (1105)						
3-7 3/4 (1111)						
3-7 1/4 (1099)						
3-11 3/8 (1203)						
3-11 5/8 (1210)						
3-11 1/8 (1197)						
3-5 29/32 (1065)						
4-7 3/8 (1406)						
4-7 5/8 (1413)						
4-7 1/8 (1400)						
4-1 29/32 (1268)						
4-11 3/8 (1508)						
4-11 5/8 (1514)						
4-11 1/8 (1502)						
4-5 29/32 (1369)						
5-3 3/8 (1610)						
5-3 5/8 (1616)						
5-3 1/8 (1603)						
4-9 29/32 (1471)						
5-11 3/8 (1813)						
5-11 5/8 (1819)						
5-11 1/8 (1807)						
5-5 29/32 (1674)						

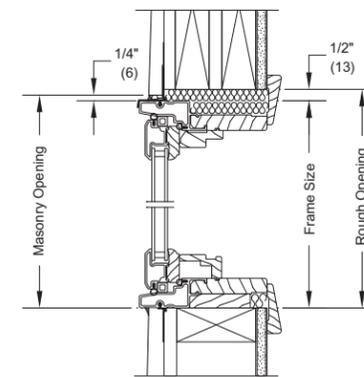
Casement

Construction Details

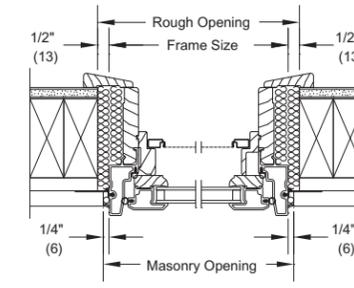
Casements available as an operator or stationary.
L or R handing determined from exterior.



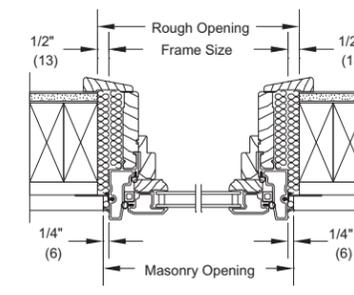
Operator Head Jamb and Sill



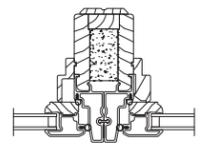
Stationary Head Jamb and Sill



Operator Jamb



Stationary Jamb



Vertical Mullion

Details and Elevations not to scale.
Special sized units available within product size matrix. See your Marvin retailer.
E = These windows meet National Egress Codes for fire evacuation. Local codes may differ.
T = Standard Tempered
Optional Casement GBGs and SDLs are available in a standard Rectangular cut shown.
Other available lite cuts shown on page 3.
* 3735 and 3739 meet Egress if installed at proper height from floor.
For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

Casement

2 Wide

MO (mm)	2-8 1/2 (826)	3-4 1/2 (1029)	4-0 1/2 (1232)	4-8 1/2 (1435)	5-4 1/2 (1638)	6-0 1/2 (1842)
RO (mm)	2-9 (838)	3-5 (1041)	4-1 (1245)	4-9 (1448)	5-5 (1651)	6-1 (1854)
FS (mm)	2-8 (813)	3-4 (1016)	4-0 (1219)	4-8 (1422)	5-4 (1626)	6-0 (1829)
2-7 3/8 (797)						
2-7 5/8 (803)						
2-7 1/8 (791)						
2-11 3/8 (898)						
2-11 5/8 (905)						
2-11 1/8 (892)						
3-3 3/8 (1000)						
3-3 5/8 (1006)						
3-3 1/8 (994)						
3-7 1/2 (1105)						
3-7 3/4 (1111)						
3-7 1/4 (1099)						
3-11 3/8 (1203)						
3-11 5/8 (1210)						
3-11 1/8 (1197)						
4-7 3/8 (1406)						
4-7 5/8 (1413)						
4-7 1/8 (1400)						
4-11 3/8 (1508)						
4-11 5/8 (1514)						
4-11 1/8 (1502)						
5-3 3/8 (1610)						
5-3 5/8 (1616)						
5-3 1/8 (1603)						
5-11 3/8 (1813)						
5-11 5/8 (1819)						
5-11 1/8 (1807)						

Details and Elevations not to scale.

Special sized units available within product size matrix. See your Marvin retailer.

E = These windows meet National Egress Codes for fire evacuation. Local codes may differ.

T = Standard Tempered

* 3735 and 3739 meet Egress if installed at proper height from floor.

Any unit in these combinations can be operating or stationary. Operating sash are viewed from the exterior.

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

Casement

3 Wide

MO (mm)	4-0 1/2 (1232)	5-0 1/2 (1537)	6-0 1/2 (1842)	7-0 1/2 (2146)	8-0 1/2 (2451)	9-0 1/2 (2756)
RO (mm)	4-1 (1245)	5-1 (1549)	6-1 (1854)	7-1 (2159)	8-1 (2464)	9-1 (2769)
FS (mm)	4-0 (1219)	5-0 (1524)	6-0 (1829)	7-0 (2134)	8-0 (2438)	9-0 (2743)
2-7 3/8 (797)						
2-7 5/8 (803)						
2-7 1/8 (791)						
2-11 3/8 (898)						
2-11 5/8 (905)						
2-11 1/8 (892)						
3-3 3/8 (1000)						
3-3 5/8 (1006)						
3-3 1/8 (994)						
3-7 1/2 (1105)						
3-7 3/4 (1111)						
3-7 1/4 (1099)						
3-11 3/8 (1203)						
3-11 5/8 (1210)						
3-11 1/8 (1197)						
4-7 3/8 (1406)						
4-7 5/8 (1413)						
4-7 1/8 (1400)						
4-11 3/8 (1508)						
4-11 5/8 (1514)						
4-11 1/8 (1502)						
5-3 3/8 (1610)						
5-3 5/8 (1616)						
5-3 1/8 (1603)						
5-11 3/8 (1813)						
5-11 5/8 (1819)						
5-11 1/8 (1807)						

MULTIPLE ASSEMBLIES

Multiple assemblies can be factory mullied.

MAXIMUM ROUGH OPENING not to exceed 113" x 71 5/8" Maximum up to 7 units wide by 1 unit high.

MAXIMUM ROUGH OPENING not to exceed 85" x 94 3/4" Maximum up to 4 units wide by 5 units high.

Field mull kits are available. Structural mullion reinforcement is required for some assemblies.

Please consult your local Marvin representative for more information.

Casement

4 Wide

MO (mm)	5-4 1/2 (1638)	6-8 1/2 (2045)	8-0 1/2 (2451)	9-4 1/2 (2858)
RO (mm)	5-5 (1651)	6-9 (2057)	8-1 (2464)	9-5 (2870)
FS (mm)	5-4 (1626)	6-8 (2032)	8-0 (2438)	9-4 (2845)
2-7 3/8 (797)				
2-7 5/8 (803)				
2-7 7/8 (892)				
2-11 3/8 (898)				
2-11 5/8 (905)				
2-11 7/8 (892)				
3-3 3/8 (1000)				
3-3 5/8 (1006)				
3-3 7/8 (994)				
3-7 1/2 (1105)				
3-7 3/4 (1111)				
3-7 1/4 (1099)				
3-11 3/8 (1203)				
3-11 5/8 (1210)				
3-11 1/8 (1197)				
4-7 3/8 (1406)				
4-7 5/8 (1413)				
4-7 1/8 (1400)				
4-11 3/8 (1508)				
4-11 5/8 (1514)				
4-11 1/8 (1502)				
5-3 3/8 (1610)				
5-3 5/8 (1616)				
5-3 1/8 (1603)				
5-11 3/8 (1813)				
5-11 5/8 (1819)				
5-11 1/8 (1807)				

Details and Elevations not to scale.
 Special sized units available within product size matrix. See your Marvin retailer.
 E = These windows meet National Egress Codes for fire evacuation. Local codes may differ.
 T = Standard Tempered
 Any unit in these combinations can be operating or stationary. Operating sash are viewed from the exterior.
 For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

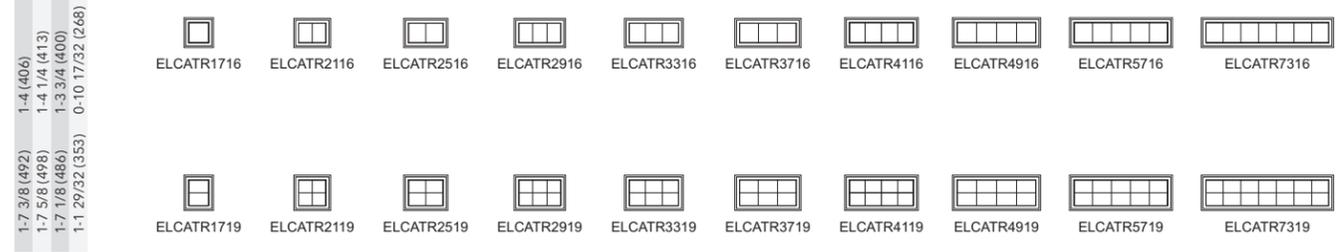
MULTIPLE ASSEMBLIES
 Multiple assemblies can be factory mullied.
 MAXIMUM ROUGH OPENING not to exceed 113" x 71 5/8"
 Maximum up to 7 units wide by 1 unit high.
 MAXIMUM ROUGH OPENING not to exceed 85" x 94 3/4"
 Maximum up to 4 units wide by 5 units high.
 Field mull kits are available. Structural mullion reinforcement is required for some assemblies.
 Please consult your local Marvin representative for more information.

Casement Picture

MO (mm)	1-4 1/2 (419)	1-8 1/2 (521)	2-0 1/2 (622)	2-4 1/2 (724)	2-8 1/2 (826)	3-0 1/2 (927)	3-4 1/2 (1029)	4-0 1/2 (1232)	4-8 1/2 (1435)	6-0 1/2 (1842)
RO (mm)	1-5 (432)	1-9 (533)	2-1 (635)	2-5 (737)	2-9 (838)	3-1 (940)	3-5 (1041)	4-1 (1245)	4-9 (1448)	6-1 (1854)
FS (mm)	1-4 (406)	1-8 (508)	2-0 (610)	2-4 (711)	2-8 (813)	3-0 (914)	3-4 (1016)	4-0 (1219)	4-8 (1422)	6-0 (1829)
DLO (mm)	0-10 25/32 (274)	1-2 25/32 (376)	1-6 25/32 (477)	1-10 25/32 (579)	2-2 25/32 (680)	2-6 25/32 (782)	2-10 25/32 (884)	3-6 25/32 (1087)	4-2 25/32 (1290)	5-6 25/32 (1696)
1-7 3/8 (492)										
1-7 5/8 (498)										
1-11 3/8 (594)										
1-11 5/8 (600)										
1-11 7/8 (689)										
1-11 1/8 (587)										
1-11 3/4 (657)										
1-11 5/8 (603)										
1-11 7/8 (689)										
2-3 3/8 (695)										
2-3 5/8 (702)										
2-3 7/8 (791)										
2-7 1/8 (657)										
2-7 3/8 (695)										
2-7 5/8 (702)										
2-7 7/8 (791)										
2-11 3/8 (898)										
2-11 5/8 (905)										
2-11 7/8 (892)										
3-3 3/8 (1000)										
3-3 5/8 (1006)										
3-3 7/8 (994)										
3-7 1/2 (1105)										
3-7 3/4 (1111)										
3-7 1/4 (1099)										
3-11 3/8 (1203)										
3-11 5/8 (1210)										
3-11 1/8 (1197)										
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4-7 5/8 (1413)										
4-7 1/8 (1400)										
4-11 3/8 (1508)										
4-11 5/8 (1514)										
4-11 1/8 (1502)										
5-3 3/8 (1610)										
5-3 5/8 (1616)										
5-3 1/8 (1603)										
5-11 3/8 (1813)										
5-11 5/8 (1819)										
5-11 1/8 (1807)										

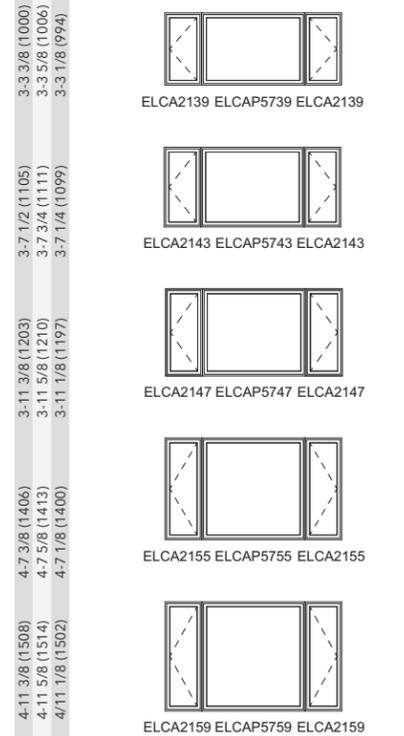
Casement Transom

MO (mm)	1-4 1/2 (419)	1-8 1/2 (521)	2-0 1/2 (622)	2-4 1/2 (724)	2-8 1/2 (826)	3-0 1/2 (927)	3-4 1/2 (1029)	4-0 1/2 (1232)	4-8 1/2 (1435)	6-0 1/2 (1842)
RO (mm)	1-5 (432)	1-9 (533)	2-1 (635)	2-5 (737)	2-9 (838)	3-1 (940)	3-5 (1041)	4-1 (1245)	4-9 (1448)	6-1 (1854)
FS (mm)	1-4 (406)	1-8 (508)	2-0 (610)	2-4 (711)	2-8 (813)	3-0 (914)	3-4 (1016)	4-0 (1219)	4-8 (1422)	6-0 (1829)
DLO (mm)	0-10 25/32 (274)	1-2 25/32 (376)	1-6 25/32 (477)	1-10 25/32 (579)	2-2 25/32 (680)	2-6 25/32 (782)	2-10 25/32 (884)	3-6 25/32 (1087)	4-2 25/32 (1290)	5-6 25/32 (1696)



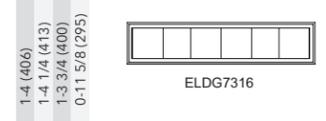
Multiple Assemblies/Casement Flankers with Center Picture

MO (mm)	8-0 1/2 (2451)
RO (mm)	8-1 (2464)
FS (mm)	8-0 (2438)

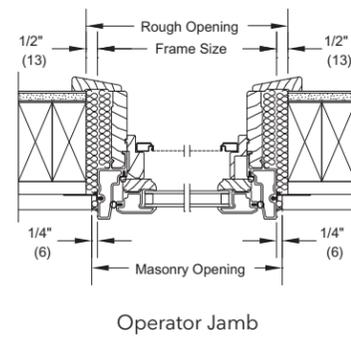
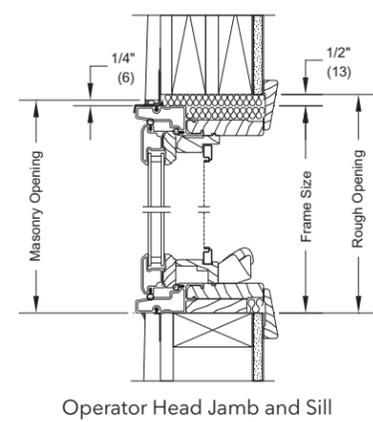


Direct Glaze

MO (mm)	6-0 1/2 (1842)
RO (mm)	6-1 (1854)
FS (mm)	6-0 (1829)
DLO (mm)	5-8 1/16 (1729)



Construction Details



Details and Elevations not to scale.

Special sized units available within product size matrix. See your Marvin retailer.

Optional picture GBGs and SDLs are available in a standard Rectangular cut shown.

Also available in Prairie lite cuts shown on page 3.

Any ELCA unit in these combinations can be operating or stationary. Operating sash are viewed from the exterior.

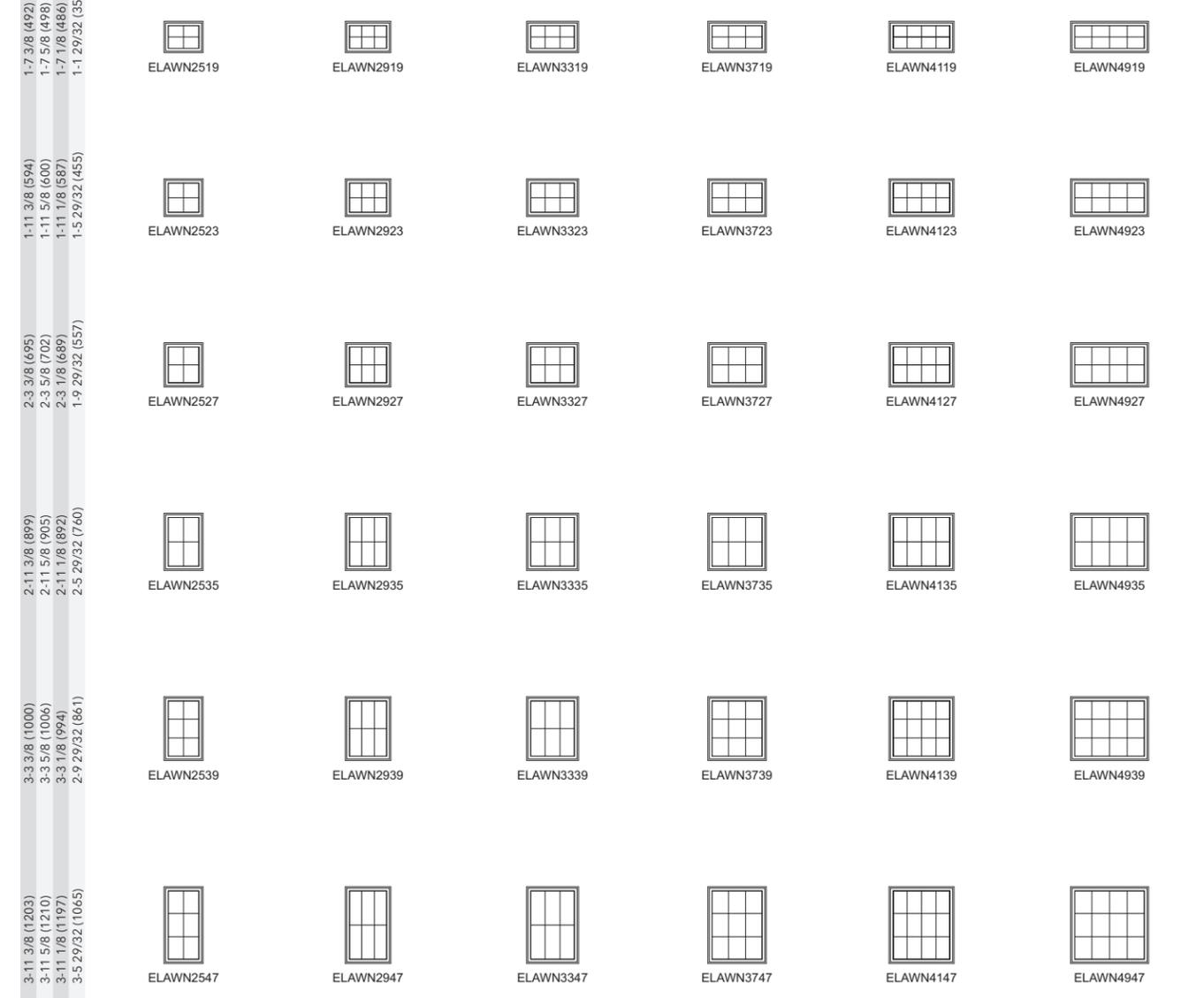
Unequal lite cuts on Direct Glaze. GBG and SDL in an ELDG 7316 will line up over a 25-3W ELCA only.

Direct Glaze Rectangles also available, see Direct Glaze, pages 37-49.

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

Awning

MO (mm)	2-0 1/2 (622)	2-4 1/2 (724)	2-8 1/2 (826)	3-0 1/2 (927)	3-4 1/2 (1029)	4-0 1/2 (1232)
RO (mm)	2-1 (635)	2-5 (737)	2-9 (838)	3-1 (940)	3-5 (1041)	4-1 (1245)
FS (mm)	2-0 (610)	2-4 (711)	2-8 (813)	3-0 (914)	3-4 (1016)	4-0 (1219)
DLO (mm)	1-6 25/32 (477)	1-10 25/32 (579)	2-2 25/32 (680)	2-6 25/32 (782)	2-10 25/32 (884)	3-6 25/32 (1087)



MULTIPLE ASSEMBLIES

Multiple assemblies can be factory mullied.

MAXIMUM ROUGH OPENING not to exceed 113" x 71 5/8"

Maximum up to 7 units wide by 1 unit high.

MAXIMUM ROUGH OPENING not to exceed 85" x 94 3/8"

Maximum up to 4 units wide by 5 units high.

Field mull kits are available. Structural mullion reinforcement is required for some assemblies.

Please consult your local Marvin representative for more information.

Awning

2 Wide

MO (mm)	4-0 1/2 (1232)	4-8 1/2 (1435)	5-4 1/2 (1638)	6-0 1/2 (1842)	6-8 1/2 (2057)	8-0 1/2 (2451)
RO (mm)	4-1 (1245)	4-9 (1448)	5-5 (1651)	6-1 (1854)	6-9 (2051)	8-1 (2464)
FS (mm)	4-0 (1219)	4-8 (1422)	5-4 (1626)	6-0 (1829)	6-8 (2032)	8-0 (2438)

1-7 3/8 (492) 1-7 5/8 (498) 1-7 1/8 (486)						
	ELAWN2519 2W	ELAWN2919 2W	ELAWN3319 2W	ELAWN3719 2W	ELAWN4119 2W	ELAWN4919 2W
1-11 3/8 (594) 1-11 5/8 (600) 1-11 1/8 (587)						
	ELAWN2523 2W	ELAWN2923 2W	ELAWN3323 2W	ELAWN3723 2W	ELAWN4123 2W	ELAWN4923 2W
2-3 3/8 (695) 2-3 5/8 (702) 2-3 1/8 (689)						
	ELAWN2527 2W	ELAWN2927 2W	ELAWN3327 2W	ELAWN3727 2W	ELAWN4127 2W	ELAWN4927 2W
2-11 3/8 (899) 2-11 5/8 (905) 2-11 1/8 (892)						
	ELAWN2535 2W	ELAWN2935 2W	ELAWN3335 2W	ELAWN3735 2W	ELAWN4135 2W	ELAWN4935 2W
3-3 3/8 (1000) 3-3 5/8 (1006) 3-3 1/8 (994)						
	ELAWN2539 2W	ELAWN2939 2W	ELAWN3339 2W	ELAWN3739 2W	ELAWN4139 2W	ELAWN4939 2W
3-11 3/8 (1203) 3-11 5/8 (1210) 3-11 1/8 (1197)						
	ELAWN2547 2W	ELAWN2947 2W	ELAWN3347 2W	ELAWN3747 2W	ELAWN4147 2W	ELAWN4947 2W

Details and Elevations not to scale.
 Special sized units available within product size matrix. See your Marvin retailer.
 Any unit in these combinations can be operating or stationary. Operating sash are viewed from the exterior.
 For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

Awning

3 Wide

MO (mm)	6-0 1/2 (1842)	7-0 1/2 (2146)	8-0 1/2 (2451)	9-0 1/2 (2756)
RO (mm)	6-1 (1854)	7-1 (2159)	8-1 (2464)	9-1 (2769)
FS (mm)	6-0 (1829)	7-0 (2134)	8-0 (2438)	9-0 (2743)

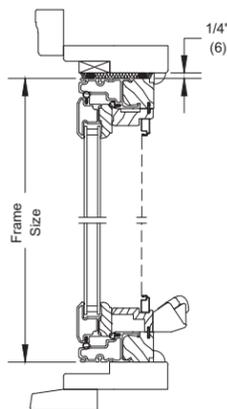
1-7 3/8 (492) 1-7 5/8 (498) 1-7 1/8 (486)				
	ELAWN2519 3W	ELAWN2919 3W	ELAWN3319 3W	ELAWN3719 3W
1-11 3/8 (594) 1-11 5/8 (600) 1-11 1/8 (587)				
	ELAWN2523 3W	ELAWN2923 3W	ELAWN3323 3W	ELAWN3723 3W
2-3 3/8 (695) 2-3 5/8 (702) 2-3 1/8 (689)				
	ELAWN2527 3W	ELAWN2927 3W	ELAWN3327 3W	ELAWN3727 3W
2-11 3/8 (899) 2-11 5/8 (905) 2-11 1/8 (892)				
	ELAWN2535 3W	ELAWN2935 3W	ELAWN3335 3W	ELAWN3735 3W
3-3 3/8 (1000) 3-3 5/8 (1006) 3-3 1/8 (994)				
	ELAWN2539 3W	ELAWN2939 3W	ELAWN3339 3W	ELAWN3739 3W
3-11 3/8 (1203) 3-11 5/8 (1210) 3-11 1/8 (1197)				
	ELAWN2547 3W	ELAWN2947 3W	ELAWN3347 3W	ELAWN3747 3W

MULTIPLE ASSEMBLIES

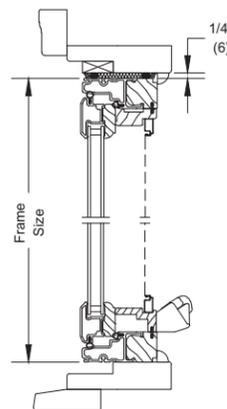
Multiple assemblies can be factory mullied.
 MAXIMUM ROUGH OPENING not to exceed 113" x 71 5/8"
 Maximum up to 7 units wide by 1 unit high.
 MAXIMUM ROUGH OPENING not to exceed 85" x 94 3/4"
 Maximum up to 4 units wide by 5 units high.
 Field mull kits are available. Structural mullion reinforcement is required for some assemblies.
 Please consult your local Marvin representative for more information.

Casement + Awning Narrow Frame

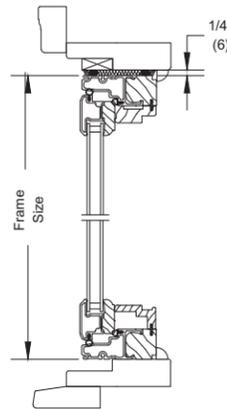
Construction Details



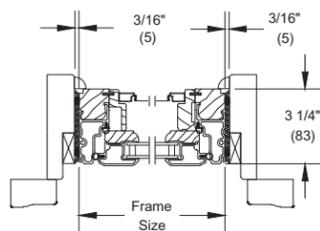
Elevate Casement Operator Head Jamb and Sill



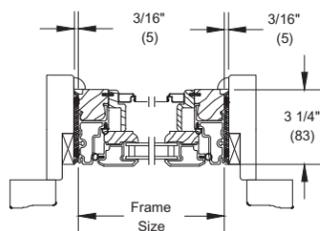
Elevate Awning Operator Head Jamb and Sill



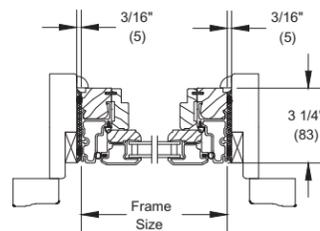
Transom and Picture Head Jamb and Sill



Elevate Casement Operator Jamb



Elevate Awning Operator Jamb



Transom and Picture Jamb

Details and Elevations not to scale.
 Special sized units available within product size matrix.
 See your Marvin retailer.
 Optional Casement GBGs and SDLs are available in a standard Rectangular cut.
 Available lite cuts shown on page 3.
 For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

MULTIPLE ASSEMBLIES
 Multiple assemblies can be factory mull.
 MAXIMUM ROUGH OPENING not to exceed 113" x 71 5/8"
 Maximum up to 7 units wide by 1 unit high.
 MAXIMUM ROUGH OPENING not to exceed 85" x 94 3/4"
 Maximum up to 4 unit wide by 5 units high.
 Field mull kits are available.
 Please consult your local Marvin representative for more information.

Double Hung

MO (mm)	1-10 (559)	2-2 (660)	2-6 (762)	2-8 (813)	2-10 (864)
RO (mm)	1-10 1/2 (572)	2-2 1/2 (673)	2-6 1/2 (775)	2-8 1/2 (826)	2-10 1/2 (876)
FS (mm)	1-9 1/2 (546)	2-1 1/2 (648)	2-5 1/2 (749)	2-7 1/2 (800)	2-9 1/2 (851)
DLO (mm)	1-3 11/16 (398)	1-7 11/16 (500)	1-11 11/16 (602)	2-1 11/16 (652)	2-3 11/16 (703)
3-0 (914)	ELD2236	ELD2636	ELD3036	ELD3236	ELD3436
3-4 (1016)	ELD2240	ELD2640	ELD3040	ELD3240	ELD3440
3-8 (1176)	ELD2244	ELD2644	ELD3044	ELD3244	ELD3444
4-0 (1219)	ELD2248	ELD2648	ELD3048	ELD3248	ELD3448
4-4 (1321)	ELD2252	ELD2652	ELD3052	ELD3252	ELD3452
4-8 (1422)	ELD2256	ELD2656	ELD3056	ELD3256	ELD3456
5-0 (1524)	ELD2260	ELD2660	ELD3060	ELD3260	ELD3460
5-4 (1626)	ELD2264	ELD2664	ELD3064	ELD3264	ELD3464
5-8 (1727)	ELD2268	ELD2668	ELD3068	ELD3268 E	ELD3468 E
6-0 (1829)	ELD2272	ELD2672	ELD3072	ELD3272 E	ELD3472 E
6-4 (1930)	ELD2276	ELD2676	ELD3076 E	ELD3276 E	ELD3476 E

Double Hung

MO (mm)	3-0 (914)	3-2 (965)	3-6 (1067)	4-0 (1219)	4-6 (1372)
RO (mm)	3-0 1/2 (927)	3-2 1/2 (978)	3-6 1/2 (1080)	4-0 1/2 (1232)	4-6 1/2 (1384)
FS (mm)	2-11 1/2 (902)	3-1 1/2 (953)	3-5 1/2 (1054)	3-11 1/2 (1207)	4-5 1/2 (1359)
DLO (mm)	2-5 11/16 (754)	2-7 11/16 (805)	2-11 11/16 (906)	3-5 11/16 (1059)	3-11 11/16 (1211)
6-4 (1930)	ELD3676 E	ELD3876 E	ELD4276 E	ELD4876 E	ELD5476 E
6-4 1/4 (1937)					
6-3 3/4 (1924)					
2-9 11/16 (856)					
6-0 (1829)	ELD3672 E	ELD3872 E	ELD4272 E	ELD4872 E	ELD5472 E
6-0 1/4 (1835)					
5-11 3/4 (1822)					
2-7 11/16 (805)					
5-8 (1727)	ELD3668 E	ELD3868 E	ELD4268 E	ELD4868 E	ELD5468 E
5-8 1/4 (1734)					
5-7 3/4 (1721)					
2-5 11/16 (754)					
5-4 (1626)	ELD3664 E	ELD3864 E	ELD4264 E	ELD4864 E	ELD5464 E
5-4 1/4 (1632)					
5-3 3/4 (1619)					
2-3 11/16 (703)					
5-0 (1524)	ELD3660 E	ELD3860 E	ELD4260 E	ELD4860 E	ELD5460 E
5-0 1/4 (1530)					
4-11 3/4 (1518)					
2-1 11/16 (652)					
4-8 (1422)	ELD3656	ELD3856	ELD4256	ELD4856	ELD5456
4-8 1/4 (1429)					
4-7 3/4 (1416)					
1-11 11/16 (602)					
4-4 (1321)	ELD3652	ELD3852	ELD4252	ELD4852	ELD5452
4-4 1/4 (1327)					
4-3 3/4 (1314)					
1-9 11/16 (551)					
4-0 (1219)	ELD3648	ELD3848	ELD4248	ELD4848	ELD5448
4-0 1/4 (1226)					
3-11 3/4 (1213)					
1-7 11/16 (500)					
3-8 (1176)	ELD3644	ELD3844	ELD4244	ELD4844	ELD5444
3-8 1/4 (1182)					
3-7 3/4 (1169)					
1-5 11/16 (449)					
3-4 (1016)	ELD3640	ELD3840	ELD4240	ELD4840	ELD5440
3-4 1/4 (1022)					
3-3 3/4 (1010)					
1-1 11/16 (348)					
3-0 (914)	ELD3636	ELD3836	ELD4236	ELD4836	ELD5436
3-0 1/4 (921)					
2-11 3/4 (908)					

Double Hung

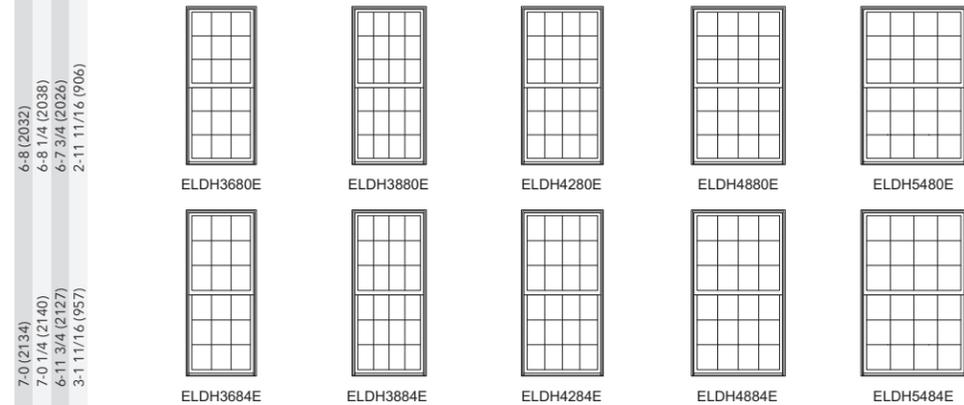
MO (mm)	1-10 (559)	2-2 (660)	2-6 (762)	2-8 (813)	2-10 (864)
RO (mm)	1-10 1/2 (572)	2-2 1/2 (673)	2-6 1/2 (775)	2-8 1/2 (826)	2-10 1/2 (876)
FS (mm)	1-9 1/2 (546)	2-1 1/2 (648)	2-5 1/2 (749)	2-7 1/2 (800)	2-9 1/2 (851)
DLO (mm)	1-3 11/16 (398)	1-7 11/16 (500)	1-11 11/16 (602)	2-1 11/16 (652)	2-3 11/16 (703)
7-0 (2134)	ELD2284	ELD2684	ELD3084E	ELD3284E	ELD3484E
7-0 1/4 (2140)					
6-11 3/4 (2127)					
3-1 11/16 (957)					
6-8 (2032)	ELD2280	ELD2680	ELD3080E	ELD3280E	ELD3480E
6-8 1/4 (2038)					
6-7 3/4 (2026)					
2-11 11/16 (906)					

Details and Elevations not to scale.
 Special sized units available within and outside of CN matrix. Please contact your Marvin dealer.
 Minimum frame size: 17 1/2" x 27 3/4"
 Maximum frame size: 53 1/2" x 83 3/4"
 Optional Double Hung GBGs and SDLs are available in a standard Rectangular cut shown.
 Other available lite cuts shown on page 3.
 E = These windows meet National Egress Codes for fire evacuation. Local codes may differ.
 Available in equal, cottage, and reverse cottage sash configurations. Cottage and reverse cottage sash configurations are not available below CN 36 height and above CN 68 height.
 For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

MULTIPLE ASSEMBLIES
 Multiple assemblies can be factory mullied.
MAXIMUM ROUGH OPENING not to exceed 113 1/2" x 76 1/4" Maximum up to 5 units wide by 1 unit high.
MAXIMUM ROUGH OPENING not to exceed 84" x 92" Maximum up to 3 units wide by 5 units high.
 Field mull kits are available. Structural mullion reinforcement is required for some assemblies.
 Please consult your local Marvin representative for more information.

Double Hung

MO (mm)	3-0 (914)	3-2 (965)	3-6 (1067)	4-0 (1219)	4-6 (1372)
RO (mm)	3-0 1/2 (927)	3-2 1/2 (978)	3-6 1/2 (1080)	4-0 1/2 (1232)	4-6 1/2 (1384)
FS (mm)	2-11 1/2 (902)	3-1 1/2 (953)	3-5 1/2 (1054)	3-11 1/2 (1207)	4-5 1/2 (1359)
DLO (mm)	2-5 11/16 (754)	2-7 11/16 (805)	2-11 11/16 (906)	3-5 11/16 (1059)	3-11 11/16 (1211)



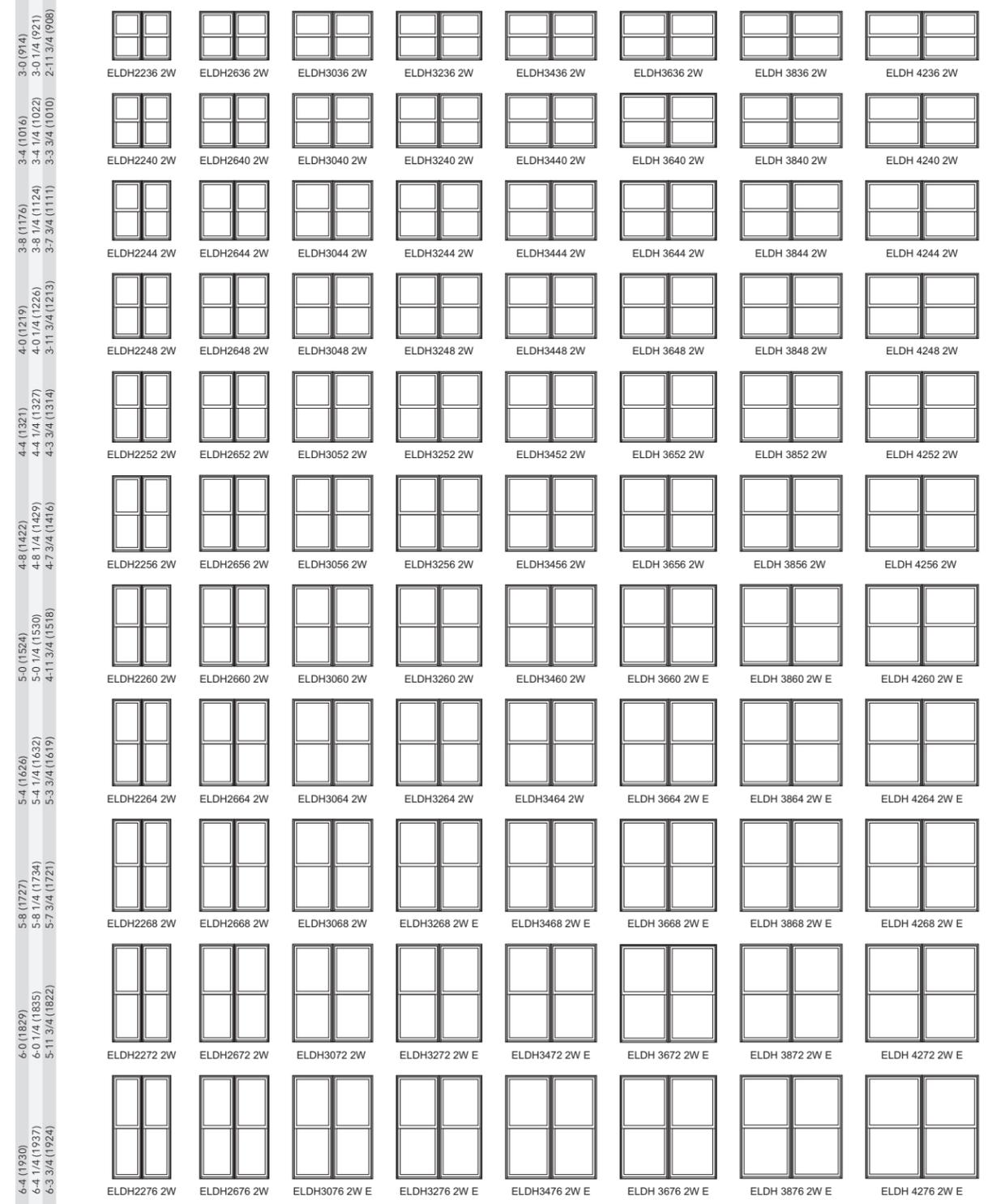
Details and Elevations not to scale.
 Special sized units available within and outside of CN matrix. Please contact your Marvin dealer.
 Minimum frame size: 17 1/2" x 27 3/4"
 Maximum frame size: 53 1/2" x 83 3/4"
 Optional Double Hung GBGs and SDLs are available in a standard Rectangular cut shown.
 Other available lite cuts shown on page 3.
 E = These windows meet National Egress Codes for fire evacuation. Local codes may differ.
 Available in equal, cottage, and reverse cottage sash configurations. Cottage and reverse cottage sash configurations are not available below CN 36 height and above CN 68 height.
 For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

MULTIPLE ASSEMBLIES
 Multiple assemblies can be factory mullied.
 MAXIMUM ROUGH OPENING not to exceed 113 1/2" x 76 1/4" Maximum up to 5 units wide by 1 unit high.
 MAXIMUM ROUGH OPENING not to exceed 84" x 92" Maximum up to 3 units wide by 5 units high.
 Field mull kits are available. Structural mullion reinforcement is required for some assemblies.
 Please consult your local Marvin representative for more information.

Double Hung

2 Wide

MO (mm)	3-7 1/2 (1105)	4-3 1/2 (1308)	4-11 1/2 (1511)	5-3 1/2 (1613)	5-7 1/2 (1715)	5-11 1/2 (1816)	6-3 1/2 (1918)	6-11 1/2 (2121)
RO (mm)	3-8 (1118)	4-4 (1321)	5-0 (1524)	5-4 (1626)	5-8 (1727)	6-0 (1829)	6-4 (1930)	7-0 (2134)
FS (mm)	3-7 (1092)	4-3 (1295)	4-11 (1499)	5-3 (1600)	5-7 (1702)	5-11 (1803)	6-3 (1905)	6-11 (2108)



Double Hung

2 Wide

MO (mm)	7-11 1/2 (2426)	8-11 1/2 (2731)
RO (mm)	8-0 (2438)	9-0 (2743)
FS (mm)	7-11 (2413)	8-11 (2718)

3-0 (914)		
3-0 1/4 (921)		
3-4 (1016)		
3-4 1/4 (1022)		
3-8 (1176)		
3-8 1/4 (1182)		
3-11 3/4 (1010)		
3-11 (1010)		
3-7 3/4 (1111)		
4-0 (1219)		
4-0 1/4 (1226)		
4-4 (1321)		
4-4 1/4 (1327)		
4-3 3/4 (1314)		
4-8 (1422)		
4-8 1/4 (1429)		
4-7 3/4 (1416)		
5-0 (1524)		
5-0 1/4 (1530)		
4-11 3/4 (1518)		
5-4 (1626)		
5-4 1/4 (1632)		
5-3 3/4 (1619)		
5-8 (1727)		
5-8 1/4 (1734)		
5-7 3/4 (1721)		
6-0 (1829)		
6-0 1/4 (1835)		
5-11 3/4 (1822)		
6-4 (1930)		
6-4 1/4 (1937)		
6-3 3/4 (1924)		

80" HEIGHTS:

MO (mm)	6-8 (2032)
RO (mm)	6-8 1/4" (2038)
FS (mm)	6-7 3/4" (2026)
DLO (mm)	2-11 11/16" (906)

84" HEIGHTS:

MO (mm)	7-0 (2134)
RO (mm)	7-0 1/4" (2140)
FS (mm)	6-11 3/4" (2127)
DLO (mm)	3-1 11/16" (957)

MULTIPLE ASSEMBLIES
 Multiple assemblies can be factory mullied.
 MAXIMUM ROUGH OPENING not to exceed 113 1/2" x 76 1/4" Maximum up to 5 units wide by 1 unit high.
 MAXIMUM ROUGH OPENING not to exceed 84" x 92"
 Maximum up to 3 units wide by 5 units high.
 Field mull kits are available. Structural mullion reinforcement is required for some assemblies.
 Please consult your local Marvin representative for more information.

Details and Elevations not to scale.
 Special sized units available within and outside of CN matrix.
 Please contact your Marvin dealer.
 Minimum frame size: 17 1/2" x 27 3/4"
 Maximum frame size: 53 1/2" x 83 3/4"
 Optional Double Hung GBGs and SDLs are available in a standard Rectangular cut shown.
 Other available lite cuts shown on page 3.

E = These windows meet National Egress Codes for fire evacuation. Local codes may differ.
 Available in equal, cottage, and reverse cottage sash configurations. Cottage and reverse cottage sash configurations are not available below CN 36 height and above CN 68 height.
 For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

Double Hung

3 Wide

MO (mm)	5-5 (1651)	6-5 (1956)	7-5 (2261)	7-11 (2413)	8-5 (2565)	8-11 (2718)
RO (mm)	5-5 1/2 (1664)	6-5 1/2 (1969)	7-5 1/2 (2273)	7-11 1/2 (2426)	8-5 1/2 (2578)	8-11 1/2 (2731)
FS (mm)	5-4 1/2 (1638)	6-4 1/2 (1943)	7-4 1/2 (2248)	7-10 1/2 (2400)	8-4 1/2 (2553)	8-10 1/2 (2705)

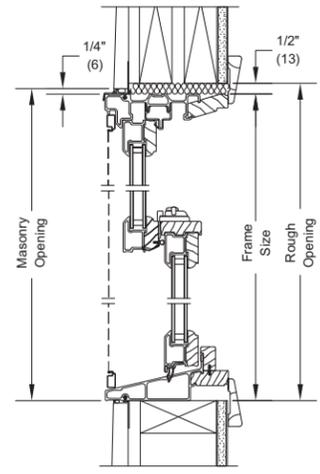
3-0 (914)						
3-0 1/4 (921)						
3-4 (1016)						
3-4 1/4 (1022)						
3-8 (1176)						
3-8 1/4 (1182)						
3-11 3/4 (1010)						
3-11 (1010)						
3-7 3/4 (1111)						
4-0 (1219)						
4-0 1/4 (1226)						
4-4 (1321)						
4-4 1/4 (1327)						
4-3 3/4 (1314)						
4-8 (1422)						
4-8 1/4 (1429)						
4-7 3/4 (1416)						
5-0 (1524)						
5-0 1/4 (1530)						
4-11 3/4 (1518)						
5-4 (1626)						
5-4 1/4 (1632)						
5-3 3/4 (1619)						
5-8 (1727)						
5-8 1/4 (1734)						
5-7 3/4 (1721)						
6-0 (1829)						
6-0 1/4 (1835)						
5-11 3/4 (1822)						
6-4 (1930)						
6-4 1/4 (1937)						
6-3 3/4 (1924)						

Double Hung

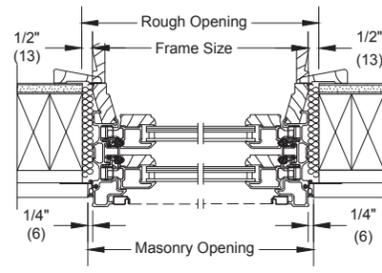
3 Wide and 4 Wide

MO (mm)	9-5 (2870)	7-2 1/2 (2197)	8-6 1/2 (2604)
RO (mm)	9-5 1/2 (2883)	7-3 (2210)	8-7 (2616)
FS (mm)	9-4 1/2 (2858)	7-2 (2184)	8-6 (2591)

3-0 (914)			
3-0 1/4 (921)			
3-0 1/2 (914)			
3-0 3/4 (908)			
3-1 (914)			
3-1 1/4 (921)			
3-1 1/2 (914)			
3-1 3/4 (908)			
3-2 (914)			
3-2 1/4 (921)			
3-2 1/2 (914)			
3-2 3/4 (908)			
3-3 (914)			
3-3 1/4 (908)			
3-3 1/2 (914)			
3-3 3/4 (908)			
3-4 (914)			
3-4 1/4 (921)			
3-4 1/2 (914)			
3-4 3/4 (908)			
3-5 (914)			
3-5 1/4 (921)			



Operator Head Jamb and Sill



Operator Jamb

MULTIPLE ASSEMBLIES
 Multiple assemblies can be factory mullied.
 MAXIMUM ROUGH OPENING not to exceed 113 1/2" x 76 1/4"
 Maximum up to 5 units wide by 1 unit high.
 MAXIMUM ROUGH OPENING not to exceed 84" x 92"
 Maximum up to 3 units wide by 5 units high.
 Field mull kits are available. Structural mullion reinforcement is required for some assemblies.
 Please consult your local Marvin representative for more information.

Details and Elevations not to scale.
 Special sized units available within and outside of CN matrix. Please contact your Marvin dealer.
 Minimum frame size: 17 1/2" x 27 3/4"
 Maximum frame size: 53 1/2" x 83 3/4"
 Optional Double Hung GBGs and SDLs are available in a standard Rectangular cut shown. Other available lite cuts shown on page 3.

E = These windows meet National Egress Codes for fire evacuation. Local codes may differ.
 Available in equal, cottage, and reverse cottage sash configurations. Cottage and reverse cottage sash configurations are not available below CN 36 height and above CN 68 height.
 For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

Double Hung Picture

MO (mm)	1-10 (559)	2-2 (660)	2-6 (762)	2-8 (813)	2-10 (864)	3-0 (914)	3-2 (965)	3-6 (1067)	4-0 (1219)
RO (mm)	1-10 1/2 (572)	2-2 1/2 (673)	2-6 1/2 (775)	2-8 1/2 (826)	2-10 1/2 (876)	3-0 1/2 (927)	3-2 1/2 (978)	3-6 1/2 (1080)	4-0 1/2 (1232)
FS (mm)	1-9 1/2 (546)	2-1 1/2 (648)	2-5 1/2 (749)	2-7 1/2 (800)	2-9 1/2 (851)	2-11 1/2 (902)	3-1 1/2 (953)	3-5 1/2 (1054)	3-11 1/2 (1207)
DLO (mm)	1-3 11/16 (398)	1-7 11/16 (500)	1-11 11/16 (602)	2-1 11/16 (652)	2-3 11/16 (703)	2-5 11/16 (754)	2-7 11/16 (805)	2-11 11/16 (906)	3-5 11/16 (1059)

3-0 (914)									
3-0 1/4 (921)									
3-0 1/2 (914)									
3-0 3/4 (908)									
3-1 (914)									
3-1 1/4 (921)									
3-1 1/2 (914)									
3-1 3/4 (908)									
3-2 (914)									
3-2 1/4 (921)									
3-2 1/2 (914)									
3-2 3/4 (908)									

Details and Elevations not to scale.
 Special sized units available within and outside of CN matrix. Please contact your Marvin dealer.
 Minimum frame size: 17 1/2" x 27 3/4"
 Maximum frame size: 53 1/2" x 83 3/4" or 61 1/2" x 75 3/4"
 Optional Double Hung GBGs and SDLs are available in a standard Rectangular cut shown. Other available lite cuts shown on page 3.
 For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

Double Hung Picture

MO (mm)	4-2 (1270)	4-6 (1372)	5-2 (1575)
RO (mm)	4-2 1/2 (1283)	4-6 1/2 (1384)	5-2 1/2 (1588)
FS (mm)	4-1 1/2 (1257)	4-5 1/2 (1359)	5-1 1/2 (1562)
DLO (mm)	3-7 11/16 (1110)	3-11 11/16 (1211)	4-7 11/16 (1414)

3-0 (914)	3-0 1/4 (921)	3-0 1/2 (938)	3-0 3/4 (955)	3-1 (972)	3-1 1/4 (989)	3-1 1/2 (1006)	3-1 3/4 (1023)	3-2 (1040)	3-2 1/4 (1057)	3-2 1/2 (1074)	3-2 3/4 (1091)	3-3 (1108)	3-3 1/4 (1125)	3-3 1/2 (1142)	3-3 3/4 (1159)	3-4 (1176)	3-4 1/4 (1193)	3-4 1/2 (1210)	3-4 3/4 (1227)	3-5 (1244)	3-5 1/4 (1261)	3-5 1/2 (1278)	3-5 3/4 (1295)	3-6 (1312)	3-6 1/4 (1329)	3-6 1/2 (1346)	3-6 3/4 (1363)	3-7 (1380)	3-7 1/4 (1397)	3-7 1/2 (1414)	3-7 3/4 (1431)	3-8 (1448)	3-8 1/4 (1465)	3-8 1/2 (1482)	3-8 3/4 (1499)	3-9 (1516)	3-9 1/4 (1533)	3-9 1/2 (1550)	3-9 3/4 (1567)	4-0 (1584)	4-0 1/4 (1601)	4-0 1/2 (1618)	4-0 3/4 (1635)	4-1 (1652)	4-1 1/4 (1669)	4-1 1/2 (1686)	4-1 3/4 (1703)	4-2 (1720)	4-2 1/4 (1737)	4-2 1/2 (1754)	4-2 3/4 (1771)	4-3 (1788)	4-3 1/4 (1805)	4-3 1/2 (1822)	4-3 3/4 (1839)	4-4 (1856)	4-4 1/4 (1873)	4-4 1/2 (1890)	4-4 3/4 (1907)	4-5 (1924)	4-5 1/4 (1941)	4-5 1/2 (1958)	4-5 3/4 (1975)	4-6 (1992)	4-6 1/4 (2009)	4-6 1/2 (2026)	4-6 3/4 (2043)	4-7 (2060)	4-7 1/4 (2077)	4-7 1/2 (2094)	4-7 3/4 (2111)	4-8 (2128)	4-8 1/4 (2145)	4-8 1/2 (2162)	4-8 3/4 (2179)	4-9 (2196)	4-9 1/4 (2213)	4-9 1/2 (2230)	4-9 3/4 (2247)	5-0 (2264)	5-0 1/4 (2281)	5-0 1/2 (2298)	5-0 3/4 (2315)	5-1 (2332)	5-1 1/4 (2349)	5-1 1/2 (2366)	5-1 3/4 (2383)	5-2 (2400)	5-2 1/4 (2417)	5-2 1/2 (2434)	5-2 3/4 (2451)	5-3 (2468)	5-3 1/4 (2485)	5-3 1/2 (2502)	5-3 3/4 (2519)	5-4 (2536)	5-4 1/4 (2553)	5-4 1/2 (2570)	5-4 3/4 (2587)	5-5 (2604)	5-5 1/4 (2621)	5-5 1/2 (2638)	5-5 3/4 (2655)	5-6 (2672)	5-6 1/4 (2689)	5-6 1/2 (2706)	5-6 3/4 (2723)	5-7 (2740)	5-7 1/4 (2757)	5-7 1/2 (2774)	5-7 3/4 (2791)	5-8 (2808)	5-8 1/4 (2825)	5-8 1/2 (2842)	5-8 3/4 (2859)	5-9 (2876)	5-9 1/4 (2893)	5-9 1/2 (2910)	5-9 3/4 (2927)	6-0 (2944)	6-0 1/4 (2961)	6-0 1/2 (2978)	6-0 3/4 (2995)	6-1 (3012)	6-1 1/4 (3029)	6-1 1/2 (3046)	6-1 3/4 (3063)	6-2 (3080)	6-2 1/4 (3097)	6-2 1/2 (3114)	6-2 3/4 (3131)	6-3 (3148)	6-3 1/4 (3165)	6-3 1/2 (3182)	6-3 3/4 (3199)	6-4 (3216)	6-4 1/4 (3233)	6-4 1/2 (3250)	6-4 3/4 (3267)	6-5 (3284)	6-5 1/4 (3301)	6-5 1/2 (3318)	6-5 3/4 (3335)	6-6 (3352)	6-6 1/4 (3369)	6-6 1/2 (3386)	6-6 3/4 (3403)	6-7 (3420)	6-7 1/4 (3437)	6-7 1/2 (3454)	6-7 3/4 (3471)	6-8 (3488)	6-8 1/4 (3505)	6-8 1/2 (3522)	6-8 3/4 (3539)	6-9 (3556)	6-9 1/4 (3573)	6-9 1/2 (3590)	6-9 3/4 (3607)	7-0 (3624)	7-0 1/4 (3641)	7-0 1/2 (3658)	7-0 3/4 (3675)	7-1 (3692)	7-1 1/4 (3709)	7-1 1/2 (3726)	7-1 3/4 (3743)	7-2 (3760)	7-2 1/4 (3777)	7-2 1/2 (3794)	7-2 3/4 (3811)	7-3 (3828)	7-3 1/4 (3845)	7-3 1/2 (3862)	7-3 3/4 (3879)	7-4 (3896)	7-4 1/4 (3913)	7-4 1/2 (3930)	7-4 3/4 (3947)	7-5 (3964)	7-5 1/4 (3981)	7-5 1/2 (3998)	7-5 3/4 (4015)	7-6 (4032)	7-6 1/4 (4049)	7-6 1/2 (4066)	7-6 3/4 (4083)	7-7 (4100)	7-7 1/4 (4117)	7-7 1/2 (4134)	7-7 3/4 (4151)	7-8 (4168)	7-8 1/4 (4185)	7-8 1/2 (4202)	7-8 3/4 (4219)	7-9 (4236)	7-9 1/4 (4253)	7-9 1/2 (4270)	7-9 3/4 (4287)	8-0 (4304)	8-0 1/4 (4321)	8-0 1/2 (4338)	8-0 3/4 (4355)	8-1 (4372)	8-1 1/4 (4389)	8-1 1/2 (4406)	8-1 3/4 (4423)	8-2 (4440)	8-2 1/4 (4457)	8-2 1/2 (4474)	8-2 3/4 (4491)	8-3 (4508)	8-3 1/4 (4525)	8-3 1/2 (4542)	8-3 3/4 (4559)	8-4 (4576)	8-4 1/4 (4593)	8-4 1/2 (4610)	8-4 3/4 (4627)	8-5 (4644)	8-5 1/4 (4661)	8-5 1/2 (4678)	8-5 3/4 (4695)	8-6 (4712)	8-6 1/4 (4729)	8-6 1/2 (4746)	8-6 3/4 (4763)	8-7 (4780)	8-7 1/4 (4797)	8-7 1/2 (4814)	8-7 3/4 (4831)	8-8 (4848)	8-8 1/4 (4865)	8-8 1/2 (4882)	8-8 3/4 (4899)	8-9 (4916)	8-9 1/4 (4933)	8-9 1/2 (4950)	8-9 3/4 (4967)	9-0 (4984)	9-0 1/4 (5001)	9-0 1/2 (5018)	9-0 3/4 (5035)	9-1 (5052)	9-1 1/4 (5069)	9-1 1/2 (5086)	9-1 3/4 (5103)	9-2 (5120)	9-2 1/4 (5137)	9-2 1/2 (5154)	9-2 3/4 (5171)	9-3 (5188)	9-3 1/4 (5205)	9-3 1/2 (5222)	9-3 3/4 (5239)	9-4 (5256)	9-4 1/4 (5273)	9-4 1/2 (5290)	9-4 3/4 (5307)	9-5 (5324)	9-5 1/4 (5341)	9-5 1/2 (5358)	9-5 3/4 (5375)	9-6 (5392)	9-6 1/4 (5409)	9-6 1/2 (5426)	9-6 3/4 (5443)	9-7 (5460)	9-7 1/4 (5477)	9-7 1/2 (5494)	9-7 3/4 (5511)	9-8 (5528)	9-8 1/4 (5545)	9-8 1/2 (5562)	9-8 3/4 (5579)	9-9 (5596)	9-9 1/4 (5613)	9-9 1/2 (5630)	9-9 3/4 (5647)	10-0 (5664)	10-0 1/4 (5681)	10-0 1/2 (5698)	10-0 3/4 (5715)	10-1 (5732)	10-1 1/4 (5749)	10-1 1/2 (5766)	10-1 3/4 (5783)	10-2 (5800)	10-2 1/4 (5817)	10-2 1/2 (5834)	10-2 3/4 (5851)	10-3 (5868)	10-3 1/4 (5885)	10-3 1/2 (5902)	10-3 3/4 (5919)	10-4 (5936)	10-4 1/4 (5953)	10-4 1/2 (5970)	10-4 3/4 (5987)	10-5 (6004)	10-5 1/4 (6021)	10-5 1/2 (6038)	10-5 3/4 (6055)	10-6 (6072)	10-6 1/4 (6089)	10-6 1/2 (6106)	10-6 3/4 (6123)	10-7 (6140)	10-7 1/4 (6157)	10-7 1/2 (6174)	10-7 3/4 (6191)	10-8 (6208)	10-8 1/4 (6225)	10-8 1/2 (6242)	10-8 3/4 (6259)	10-9 (6276)	10-9 1/4 (6293)	10-9 1/2 (6310)	10-9 3/4 (6327)	11-0 (6344)	11-0 1/4 (6361)	11-0 1/2 (6378)	11-0 3/4 (6395)	11-1 (6412)	11-1 1/4 (6429)	11-1 1/2 (6446)	11-1 3/4 (6463)	11-2 (6480)	11-2 1/4 (6497)	11-2 1/2 (6514)	11-2 3/4 (6531)	11-3 (6548)	11-3 1/4 (6565)	11-3 1/2 (6582)	11-3 3/4 (6599)	11-4 (6616)	11-4 1/4 (6633)	11-4 1/2 (6650)	11-4 3/4 (6667)	11-5 (6684)	11-5 1/4 (6701)	11-5 1/2 (6718)	11-5 3/4 (6735)	11-6 (6752)	11-6 1/4 (6769)	11-6 1/2 (6786)	11-6 3/4 (6803)	11-7 (6820)	11-7 1/4 (6837)	11-7 1/2 (6854)	11-7 3/4 (6871)	11-8 (6888)	11-8 1/4 (6905)	11-8 1/2 (6922)	11-8 3/4 (6939)	11-9 (6956)	11-9 1/4 (6973)	11-9 1/2 (6990)	11-9 3/4 (7007)	12-0 (7024)	12-0 1/4 (7041)	12-0 1/2 (7058)	12-0 3/4 (7075)	12-1 (7092)	12-1 1/4 (7109)	12-1 1/2 (7126)	12-1 3/4 (7143)	12-2 (7160)	12-2 1/4 (7177)	12-2 1/2 (7194)	12-2 3/4 (7211)	12-3 (7228)	12-3 1/4 (7245)	12-3 1/2 (7262)	12-3 3/4 (7279)	12-4 (7296)	12-4 1/4 (7313)	12-4 1/2 (7330)	12-4 3/4 (7347)	12-5 (7364)	12-5 1/4 (7381)	12-5 1/2 (7398)	12-5 3/4 (7415)	12-6 (7432)	12-6 1/4 (7449)	12-6 1/2 (7466)	12-6 3/4 (7483)	12-7 (7500)	12-7 1/4 (7517)	12-7 1/2 (7534)	12-7 3/4 (7551)	12-8 (7568)	12-8 1/4 (7585)	12-8 1/2 (7602)	12-8 3/4 (7619)	12-9 (7636)	12-9 1/4 (7653)	12-9 1/2 (7670)	12-9 3/4 (7687)	13-0 (7704)	13-0 1/4 (7721)	13-0 1/2 (7738)	13-0 3/4 (7755)	13-1 (7772)	13-1 1/4 (7789)	13-1 1/2 (7806)	13-1 3/4 (7823)	13-2 (7840)	13-2 1/4 (7857)	13-2 1/2 (7874)	13-2 3/4 (7891)	13-3 (7908)	13-3 1/4 (7925)	13-3 1/2 (7942)	13-3 3/4 (7959)	13-4 (7976)	13-4 1/4 (7993)	13-4 1/2 (8010)	13-4 3/4 (8027)	13-5 (8044)	13-5 1/4 (8061)	13-5 1/2 (8078)	13-5 3/4 (8095)	13-6 (8112)	13-6 1/4 (8129)	13-6 1/2 (8146)	13-6 3/4 (8163)	13-7 (8180)	13-7 1/4 (8197)	13-7 1/2 (8214)	13-7 3/4 (8231)	13-8 (8248)	13-8 1/4 (8265)	13-8 1/2 (8282)	13-8 3/4 (8299)	13-9 (8316)	13-9 1/4 (8333)	13-9 1/2 (8350)	13-9 3/4 (8367)	14-0 (8384)	14-0 1/4 (8401)	14-0 1/2 (8418)	14-0 3/4 (8435)	14-1 (8452)	14-1 1/4 (8469)	14-1 1/2 (8486)	14-1 3/4 (8503)	14-2 (8520)	14-2 1/4 (8537)	14-2 1/2 (8554)	14-2 3/4 (8571)	14-3 (8588)	14-3 1/4 (8605)	14-3 1/2 (8622)	14-3 3/4 (8639)	14-4 (8656)	14-4 1/4 (8673)	14-4 1/2 (8690)	14-4 3/4 (8707)	14-5 (8724)	14-5 1/4 (8741)	14-5 1/2 (8758)	14-5 3/4 (8775)	14-6 (8792)	14-6 1/4 (8809)	14-6 1/2 (8826)	14-6 3/4 (8843)	14-7 (8860)	14-7 1/4 (8877)	14-7 1/2 (8894)	14-7 3/4 (8911)	14-8 (8928)	14-8 1/4 (8945)	14-8 1/2 (8962)	14-8 3/4 (8979)	14-9 (8996)	14-9 1/4 (9013)	14-9 1/2 (9030)	14-9 3/4 (9047)	15-0 (9064)	15-0 1/4 (9081)	15-0 1/2 (9098)	15-0 3/4 (9115)	15-1 (9132)	15-1 1/4 (9149)	15-1 1/2 (9166)	15-1 3/4 (9183)	15-2 (9200)	15-2 1/4 (9217)	15-2 1/2 (9234)	15-2 3/4 (9251)	15-3 (9268)	15-3 1/4 (9285)	15-3 1/2 (9302)	15-3 3/4 (9319)	15-4 (9336)	15-4 1/4 (9353)	15-4 1/2 (9370)	15-4 3/4 (9387)	15-5 (9404)	15-5 1/4 (9421)	15-5 1/2 (9438)	15-5 3/4 (9455)	15-6 (9472)	15-6 1/4 (9489)	15-6 1/2 (9506)	15-6 3/4 (9523)	15-7 (9540)	15-7 1/4 (9557)	15-7 1/2 (9574)	15-7 3/4 (9591)	15-8 (9608)	15-8 1/4 (9625)	15-8 1/2 (9642)	15-8 3/4 (9659)	15-9 (9676)	15-9 1/4 (9693)	15-9 1/2 (9710)	15-9 3/4 (9727)	16-0 (9744)	16-0 1/4 (9761)	16-0 1/2 (9778)	16-0 3/4 (9795)	16-1 (9812)	16-1 1/4 (9829)	16-1 1/2 (9846)	16-1 3/4 (9863)	16-2 (9880)	16-2 1/4 (9897)	16-2 1/2 (9914)	16-2 3/4 (9931)	16-3 (9948)	16-3 1/4 (9965)	16-3 1/2 (9982)	16-3 3/4 (9999)	16-4 (10016)	16-4 1/4 (10033)	16-4 1/2 (10050)	16-4 3/4 (10067)	16-5 (10084)	16-5 1/4 (10101)	16-5 1/2 (10118)	16-5 3/4 (10135)	16-6 (10152)	16-6 1/4 (10169)	16-6 1/2 (10186)	16-6 3/4 (10203)	16-7 (10220)	16-7 1/4 (10237)	16-7 1/2 (10254)	16-7 3/4 (10271)	16-8 (10288)	16-8 1/4 (10305)	16-8 1/2 (10322)	16-8 3/4 (10339)	16-9 (10356)	16-9 1/4 (10373)	16-9 1/2 (10390)	16-9 3/4 (10407)	17-0 (10424)	17-0 1/4 (10441)	17-0 1/2 (10458)	17-0 3/4 (10475)	17-1 (10492)	17-1 1/4 (10509)	17-1 1/2 (10526)	17-1 3/4 (10543)	17-2 (10560)	17-2 1/4 (10577)	17-2 1/2 (10594)	17-2 3/4 (10611)	17-3 (10628)	17-3 1/4 (10645)	17-3 1/2 (10662)	17-3 3/4 (10679)	17-4 (10696)	17-4 1/4 (10713)	17-4 1/2 (10730)	17-4 3/4 (10747)	17-5 (10764)	17-5 1/4 (10781)	17-5 1/2 (10798)	17-5 3/4 (10815)	17-6 (10832)	17-6 1/4 (10849)	17-6 1/2 (10866)	17-6 3/4 (10883)	17-7 (10900)	17-7 1/4 (10917)	17-7 1/2 (10934)	17-7 3/4 (10951)	17-8 (10968)	17-8 1/4 (10985)	17-8 1/2 (11002)	17-8 3/4 (11019)	17-9 (11036)	17-9 1/4 (11053)	17-9 1/2 (11070)	17-9 3/4 (11087)	18-0 (11104)	18-0 1/4 (11121)	18-0 1/2 (11138)	18-0 3/4 (11155)	18-1 (11172)	18-1 1/4 (11189)	18-1 1/2 (11206)	18-1 3/4 (11223)	18-2 (11240)	18-2 1/4 (11257)	18-2 1/2 (11274)	18-2 3/4 (11291)	18-3 (11308)	18-3 1/4 (11325)	18-3 1/2 (11342)	18-3 3/4 (11359)	18-4 (11376)	18-4 1/4 (11393)	18-4 1/2 (11410)	18-4 3/4 (11427)	18-5 (11444)	18-5 1/4 (11461)	18-5 1/2 (11478)	18-5 3/4 (11495)	18-6 (11512)	18-6 1/4 (11529)	18-6 1/2 (11546)	18-6 3/4 (11563)	18-7 (11580)	18-7 1/4 (11597)	18-7 1/2 (11614)	18-7 3/4 (11631)	18-8 (11648)	18-8 1/4 (11665)	18-8 1/2 (11682)	18-8 3/4 (11699)	18-9 (11716)	18-9 1/4 (11733)	18-9 1/2 (11750)	18-9 3/4 (11767)	19-0 (11784)	19-0 1/4 (11801)	19-0 1/2 (11818)	19-0 3/4 (11835)	19-1 (11852)	19-1 1/4 (11869)	19-1 1/2 (11886)	19-1 3/4 (11903)	19-2 (11920)	19-2 1/4 (11937)	19-2 1/2 (11954)	19-2 3/4 (11971)	19-3 (11988)	19-3 1/4 (12005)	19-3 1/2 (12022)	19-3 3/4 (12039)	19-4 (12056)	19-4 1/4 (12073)	19-4 1/2 (12090)	19-4 3/4 (12107)	19-5 (12124)	19-5 1/4 (12141)	19-5 1/2 (12158)	19-5 3/4 (12175)	19-6 (12192)	19-6 1/4 (12209)	19-6 1/2 (12226)	19-6 3/4 (12243)	19-7 (12260)	19-7 1/
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Double Hung Picture

MO (mm)	1-10 (559)	2-2 (660)	2-6 (762)	2-8 (813)	2-10 (864)	3-0 (914)	3-2 (965)	3-6 (1067)	4-0 (1219)
RO (mm)	1-10 1/2 (572)	2-2 1/2 (673)	2-6 1/2 (775)	2-8 1/2 (826)	2-10 1/2 (876)	3-0 1/2 (927)	3-2 1/2 (978)	3-6 1/2 (1080)	4-0 1/2 (1232)
FS (mm)	1-9 1/2 (546)	2-1 1/2 (648)	2-5 1/2 (749)	2-7 1/2 (800)	2-9 1/2 (851)	2-11 1/2 (902)	3-1 1/2 (953)	3-5 1/2 (1054)	3-11 1/2 (1207)
DLO (mm)	1-3 11/16 (398)	1-7 11/16 (500)	1-11 11/16 (602)	2-1 11/16 (652)	2-3 11/16 (703)	2-5 11/16 (754)	2-7 11/16 (805)	2-11 11/16 (906)	3-5 11/16 (1059)

5-0 (1524)									
5-4 (1626)									
5-8 (1727)									
6-0 (1829)									
6-4 (1930)									
6-8 (2032)									
7-0 (2134)									

Details and Elevations not to scale.
 Special sized units available within product size matrix and available down to 17 1/2" frame width.
 See your Marvin retailer.
 Optional picture GBGs and SDLs are available in a standard Rectangular cut shown. Also available in Prairie lite cuts shown on page 3.

* Size available in picture unit also.
 For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

Double Hung Transom

MO (mm)	1-10 (559)	2-2 (660)	2-6 (762)	2-8 (813)	2-10 (864)	3-0 (914)	4-0 (1219)
RO (mm)	1-10 1/2 (572)	2-2 1/2 (673)	2-6 1/2 (775)	2-8 1/2 (826)	2-10 1/2 (876)	3-0 1/2 (927)	4-0 1/2 (1232)
FS (mm)	1-9 1/2 (546)	2-1 1/2 (648)	2-5 1/2 (749)	2-7 1/2 (800)	2-9 1/2 (851)	2-11 1/2 (902)	3-11 1/2 (1207)
DLO (mm)	1-3 11/16 (398)	1-7 11/16 (500)	1-9 11/16 (551)	1-11 11/16 (602)	2-3 11/16 (703)	2-5 11/16 (754)	3-5 11/16 (1059)

1-4 (406)							
2-0 (610)							

MO (mm)	3-2 (965)	3-6 (1067)	4-2 (1270)	4-6 (1372)	5-2 (1575)
RO (mm)	3-2 1/2 (978)	3-6 1/2 (1080)	4-2 1/2 (1283)	4-6 1/2 (1384)	5-2 1/2 (1588)
FS (mm)	3-1 1/2 (953)	3-5 1/2 (1054)	4-1 1/2 (1257)	4-5 1/2 (1359)	5-1 1/2 (1562)
DLO (mm)	2-7 11/16 (805)	2-11 11/16 (906)	3-7 11/16 (1110)	3-11 11/16 (1211)	4-7 11/16 (1414)

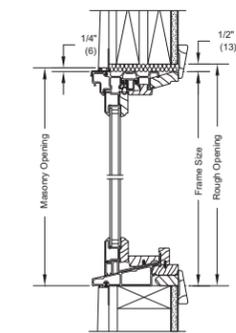
1-4 (406)					
2-0 (610)					

Double Hung Transoms Mullled Over Double Hungs

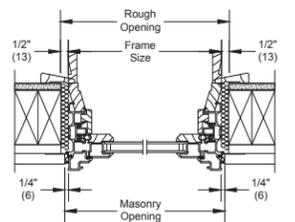
MO (mm)	1-10 (559)	2-6 (762)
RO (mm)	1-10 1/2 (572)	2-6 1/2 (775)
FS (mm)	1-9 1/2 (546)	2-5 1/2 (749)

5-3 3/4 (1619)		
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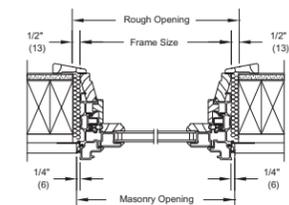
Construction Details



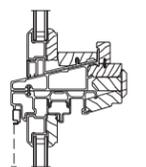
Head Jamb and Sill



Vertical Mullion



Jamb



Horizontal Mullion Transom/Operator

MULTIPLE ASSEMBLIES

Multiple assemblies can be factory mullled.
 MAXIMUM ROUGH OPENING not to exceed 113 1/2" x 76 1/4"
 Maximum up to 5 units wide by 1 unit high.
 MAXIMUM ROUGH OPENING not to exceed 84" x 92"
 Maximum up to 3 units wide by 5 units high.
 Field mull kits are available. Structural mullion reinforcement is required for some assemblies.
 Please consult your local Marvin representative for more information.

Double Hung

Multiple Assemblies

Flankers with Center Picture (call number 22 flankers shown, also available with call number 26 flankers)

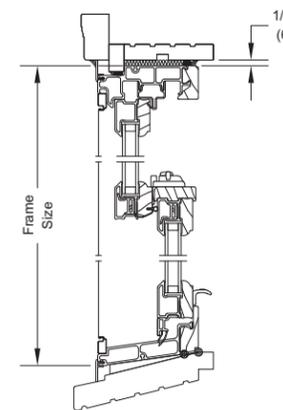
MO (mm)	6-9 (2057)	7-1 (2159)	7-9 (2362)	8-1 (2464)	8-9 (2667)
RO (mm)	6-9 1/2 (2070)	7-1 1/2 (2172)	7-9 1/2 (2375)	8-1 1/2 (2477)	8-9 1/2 (2680)
FS (mm)	6-8 1/2 (2045)	7-0 1/2 (2146)	7-8 1/2 (2350)	8-0 1/2 (2451)	8-8 1/2 (2654)
4-0 (1219)					
4-0 1/4 (1226)					
3-11 3/4 (1213)					
4-4 (1321)					
4-4 1/4 (1327)					
4-3 3/4 (1314)					
4-8 (1422)					
4-8 1/4 (1429)					
4-7 3/4 (1416)					
5-0 (1524)					
5-0 1/4 (1530)					
4-11 3/4 (1518)					
5-4 (1626)					
5-4 1/4 (1632)					
5-3 3/4 (1619)					

Cottage Style Flankers with Center Picture

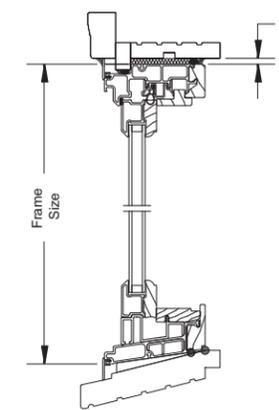
MO (mm)	8-1 (2464)	8-9 (2667)	9-5 (2870)
RO (mm)	8-1 1/2 (2477)	8-9 1/2 (2680)	9-5 1/2 (2883)
FS (mm)	8-0 1/2 (2451)	8-8 1/2 (2654)	9-4 1/2 (2858)
5-8 (1727)			
5-8 1/4 (1734)			
5-7 3/4 (1721)			

Double Hung Insert

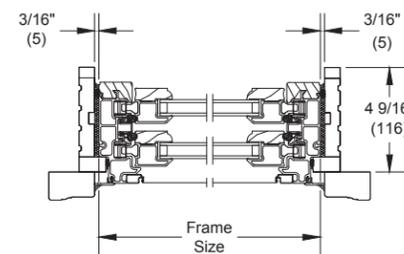
Construction Details



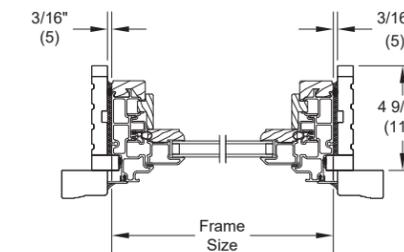
Operator Head Jamb and Sill



Transom and Picture Head Jamb and Sill



Operator Jamb



Transom and Picture Jamb

Details and Elevations not to scale.
 Special sized units available within product size matrix.
 See your Marvin retailer.
 Optional Double Hung GBGs and SDLs are available in a standard Rectangular cut.
 Available lite cuts shown on page 3.
 Cottage and Reverse Cottage sash configurations are available between 35 1/2" and 67 3/4" frame heights.
 For further details and drawings visit the "Technical Specifications" section at Marvin.com.

MULTIPLE ASSEMBLIES
 Multiple assemblies can be factory mullied.
 MAXIMUM ROUGH OPENING not to exceed 112 7/8" x 84 1/4"
 Maximum up to 5 units wide by 1 unit high.
 Field mull kits are available.
 Please consult your local Marvin representative for more information.

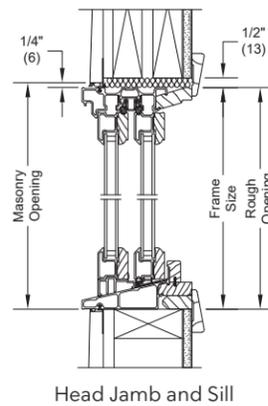
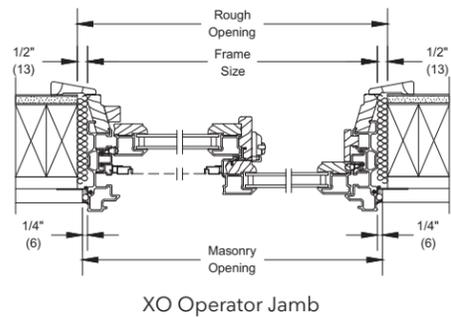
Glider

1 Wide and 2 Wide

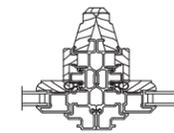
MO (mm)	3-0 (914)	4-0 (1219)	5-0 (1524)	6-0 (1829)	5-11 1/2 (1816)	7-11 1/2 (2426)
RO (mm)	3-0 1/2 (927)	4-0 1/2 (1232)	5-0 1/2 (1537)	6-0 1/2 (1842)	6-0 (1829)	8-0 (2438)
FS (mm)	2-11 1/2 (902)	3-11 1/2 (1207)	4-11 1/2 (1511)	5-11 1/2 (1816)	5-11 (1803)	7-11 (2413)
DLO (mm)	1-1 11/16 (348)	1-7 11/16 (500)	2-1 11/16 (652)	2-7 11/16 (805)	1-1 11/16 (348)	1-7 11/16 (500)

2-0 (610)						
3-0 (914)						
3-6 (1067)						
4-0 (1219)						
5-0 (1524)						

Construction Details



Mullion Detail



Vertical Mullion Operator Unit

Details and Elevations not to scale. Special sized units available within product size matrix. See your Marvin retailer.

E = These windows meet National Egress Codes for fire evacuation. Local codes may differ.

* These windows meet National Egress Codes for fire evacuation if floor to sill height does not exceed 44" (118 mm). Local codes may differ.

XO operation standard, OX operation optional.

Optional Glider GBGs and SDLs are available in a standard Rectangular cut shown. Other available lite cuts shown on page 3.

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

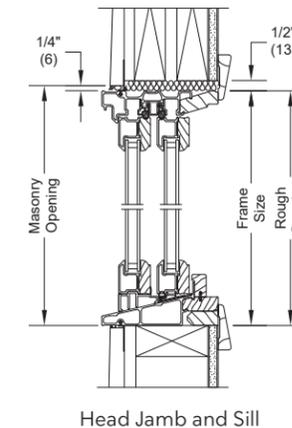
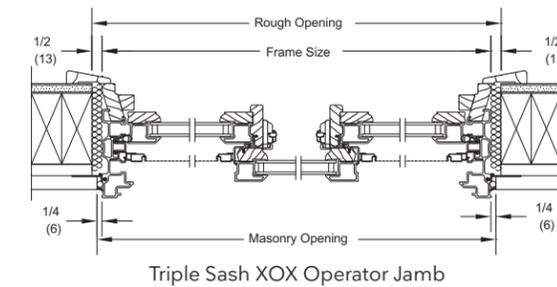
Glider - Triple Sash

1 Wide

MO (mm)	6-0 (1829)	7-0 (2134)	8-0 (2438)
RO (mm)	6-0 1/2 (1842)	7-0 1/2 (2146)	8-0 1/2 (2451)
FS (mm)	5-11 1/2 (1816)	6-11 1/2 (2121)	7-11 1/2 (2426)

2-0 (610)			
3-0 (914)			
3-6 (1067)			
4-0 (1219)			
5-0 (1524)			

Construction Details



MULTIPLE ASSEMBLIES

Multiple assemblies can be factory mullied.

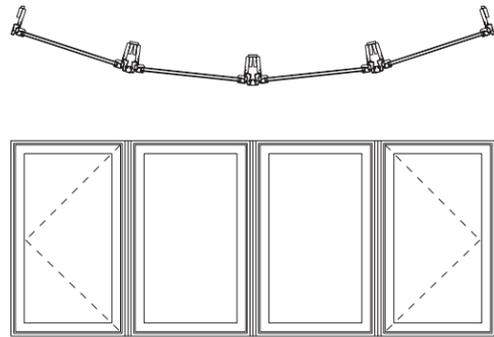
MAXIMUM ROUGH OPENING not to exceed 113 1/2" x 60 1/4" Maximum up to 3 units wide by 1 unit high.

Field mull kits are available. Structural mullion reinforcement is required for some assemblies.

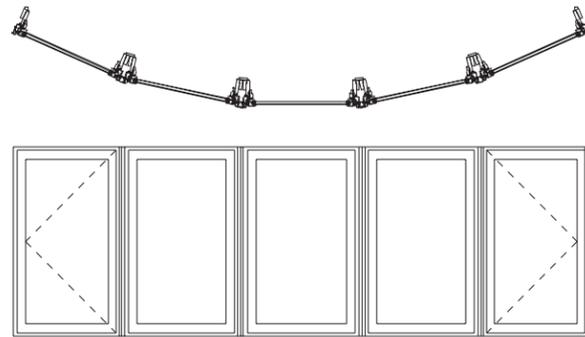
Please consult your local Marvin representative for more information.

Casement Bows

4 Wide Bows



5 Wide Bows

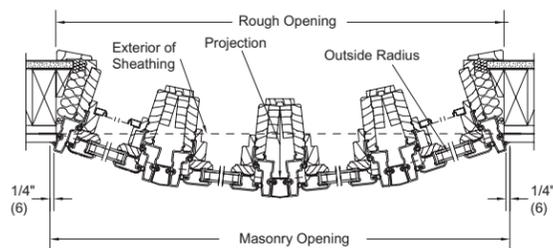


CN Width	RO Width		Projection	
	Inches	(mm)	Inches	(mm)
17 - 4W	66 17/64	(1683)	6 7/8	(175)
21 - 4W	81 53/64	(2078)	8 17/32	(217)
25 - 4W	97 25/64	(2474)	10 3/16	(259)
29 - 4W	112 61/64	(2869)	11 27/32	(301)

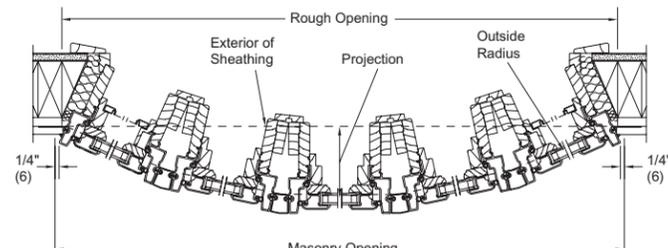
CN Width	RO Width		Projection	
	Inches	(mm)	Inches	(mm)
17 - 5W	81 31/64	(2070)	10 1/4	(260)
21 - 5W	100 5/8	(2556)	12 23/32	(323)
25 - 5W	119 3/4	(3042)	15 11/64	(385)

CN Height	RO Height	
	Inches	(mm)
31	31 13/16	(808)
35	35 13/16	(910)
39	39 13/16	(1011)
43	43 13/16	(1113)
47	47 13/16	(1214)
55	55 13/16	(1418)
59	59 13/16	(1519)
63	63 13/16	(1621)
71	71 13/16	(1824)

Construction Details



4-Wide Casement Bow Unit



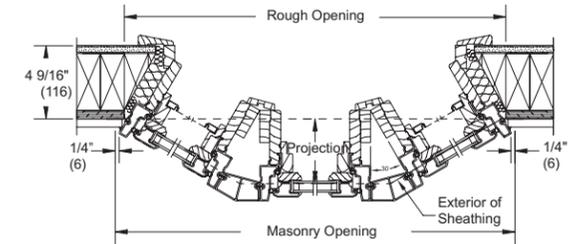
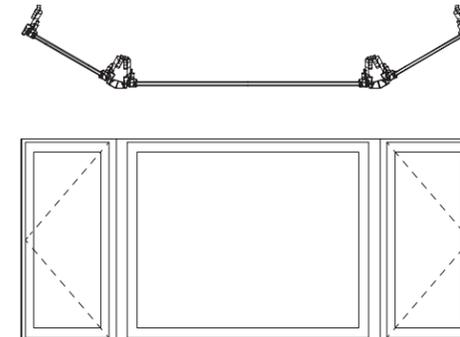
5-Wide Casement Bow Unit

Details and Elevations not to scale.

For rough opening height of a Bay or Bow, add 3/16" to Casement rough opening height.
 * When using Marvin Bays and Bows to replace products within existing openings, you will want to contact your local Marvin dealer for assistance and field verification of dimensions.
 For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

Casement Bays

30° Bays



30° Casement Bay with Stationary/ Center Picture Unit

CN Width	RO Width		Projection	
	Inches	(mm)	Inches	(mm)
17-17-17	49 25/64	(1255)	8 5/8	(219)
17-21-17	53 25/64	(1356)	8 5/8	(219)
17-25-17	57 25/64	(1458)	8 5/8	(219)
17-29-17	61 25/64	(1559)	8 5/8	(219)
17-33-17	65 25/64	(1661)	8 5/8	(219)
17-37-17	69 25/64	(1763)	8 5/8	(219)
17-41-17	73 25/64	(1864)	8 5/8	(219)
17-49-17	81 25/64	(2067)	8 5/8	(219)

CN Width	RO Width		Projection	
	Inches	(mm)	Inches	(mm)
33-17-33	77 7/64	(1959)	16 5/8	(422)
33-21-33	81 7/64	(2060)	16 5/8	(422)
33-25-33	85 7/64	(2162)	16 5/8	(422)
33-29-33	89 7/64	(2263)	16 5/8	(422)
33-33-33	93 7/64	(2365)	16 5/8	(422)
33-37-33	97 7/64	(2467)	16 5/8	(422)
33-41-33	101 7/64	(2568)	16 5/8	(422)
33-49-33	109 7/64	(2771)	16 5/8	(422)

21-17-21	56 21/64	(1431)	10 5/8	(270)
21-21-21	60 21/64	(1532)	10 5/8	(270)
21-25-21	64 21/64	(1634)	10 5/8	(270)
21-29-21	68 21/64	(1736)	10 5/8	(270)
21-33-21	72 21/64	(1837)	10 5/8	(270)
21-37-21	76 21/64	(1939)	10 5/8	(270)
21-41-21	80 21/64	(2040)	10 5/8	(270)
21-49-21	88 21/64	(2244)	10 5/8	(270)
21-57-21	96 21/64	(2447)	10 5/8	(270)
21-73-21	112 21/64	(2853)	10 5/8	(270)

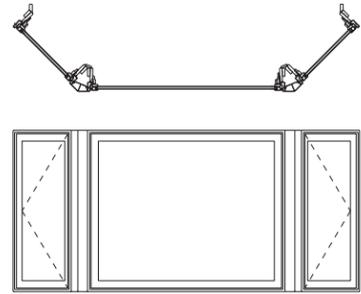
37-17-37	84 1/32	(2134)	18 5/8	(473)
37-21-37	88 1/32	(2236)	18 5/8	(473)
37-25-37	92 1/32	(2338)	18 5/8	(473)
37-29-37	96 1/32	(2439)	18 5/8	(473)
37-33-37	100 1/32	(2541)	18 5/8	(473)
37-37-37	104 1/32	(2642)	18 5/8	(473)

25-17-25	63 1/4	(1607)	12 5/8	(321)
25-21-25	67 1/4	(1708)	12 5/8	(321)
25-25-25	71 1/4	(1810)	12 5/8	(321)
25-29-25	75 1/4	(1911)	12 5/8	(321)
25-33-25	79 1/4	(2013)	12 5/8	(321)
25-37-25	83 1/4	(2115)	12 5/8	(321)
25-41-25	87 1/4	(2216)	12 5/8	(321)
25-49-25	95 1/4	(2419)	12 5/8	(321)
25-57-25	103 1/4	(2623)	12 5/8	(321)

29-17-29	70 11/64	(1782)	14 5/8	(372)
29-21-29	74 11/64	(1884)	14 5/8	(372)
29-25-29	78 11/64	(1986)	14 5/8	(372)
29-29-29	82 11/64	(2087)	14 5/8	(372)
29-33-29	86 11/64	(2189)	14 5/8	(372)
29-37-29	90 11/64	(2290)	14 5/8	(372)
29-41-29	94 11/64	(2392)	14 5/8	(372)
29-49-29	102 11/64	(2595)	14 5/8	(372)
29-57-29	110 11/64	(2798)	14 5/8	(372)

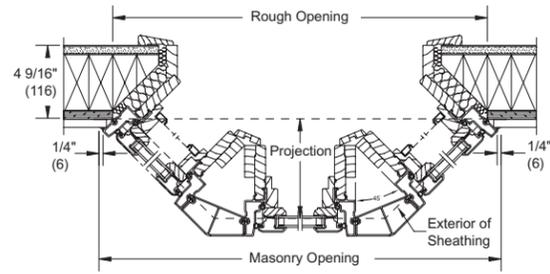
Casement Bays

45° Bays



CN Width	RO Width		Projection	
	Inches	(mm)	Inches	(mm)
17-17-17	46 11/64	(1173)	12 43/64	(322)
17-21-17	50 11/64	(1274)	12 43/64	(322)
17-25-17	54 11/64	(1376)	12 43/64	(322)
17-29-17	58 11/64	(1478)	12 43/64	(322)
17-33-17	62 11/64	(1579)	12 43/64	(322)
17-37-17	66 11/64	(1681)	12 43/64	(322)
17-41-17	70 11/64	(1782)	12 43/64	(322)
17-49-17	78 11/64	(1986)	12 43/64	(322)
21-17-21	51 53/64	(1317)	15 1/2	(394)
21-21-21	55 53/64	(1418)	15 1/2	(394)
21-25-21	59 53/64	(1520)	15 1/2	(394)
21-29-21	63 53/64	(1621)	15 1/2	(394)
21-33-21	67 53/64	(1723)	15 1/2	(394)
21-37-21	71 53/64	(1825)	15 1/2	(394)
21-41-21	75 53/64	(1926)	15 1/2	(394)
21-49-21	83 53/64	(2129)	15 1/2	(394)
21-57-21	91 53/64	(2333)	15 1/2	(394)
21-73-21	107 53/64	(2739)	15 1/2	(394)
25-17-25	57 31/64	(1460)	18 21/64	(466)
25-21-25	61 31/64	(1562)	18 21/64	(466)
25-25-25	65 31/64	(1663)	18 21/64	(466)
25-29-25	69 31/64	(1765)	18 21/64	(466)
25-33-25	73 31/64	(1867)	18 21/64	(466)
25-37-25	77 31/64	(1968)	18 21/64	(466)
25-41-25	81 31/64	(2070)	18 21/64	(466)
25-49-25	89 31/64	(2273)	18 21/64	(466)
25-57-25	97 31/64	(2476)	18 21/64	(466)
25-73-25	113 1/2	(2883)	18 21/64	(466)
29-17-29	63 9/64	(1604)	21 5/32	(537)
29-21-29	67 9/64	(1706)	21 5/32	(537)
29-25-29	71 9/64	(1807)	21 5/32	(537)
29-29-29	75 9/64	(1909)	21 5/32	(537)
29-33-29	79 9/64	(2011)	21 5/32	(537)
29-37-29	83 9/64	(2112)	21 5/32	(537)
29-41-29	87 9/64	(2213)	21 5/32	(537)
29-49-29	95 9/64	(2417)	21 5/32	(537)
29-57-29	103 9/64	(2620)	21 5/32	(537)

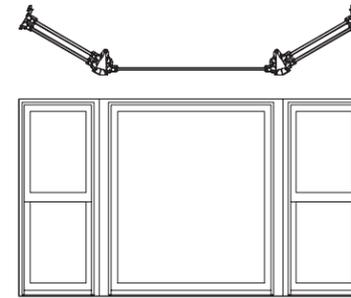
Construction Details



45° Casement Bay with Stationary/Center Picture Unit

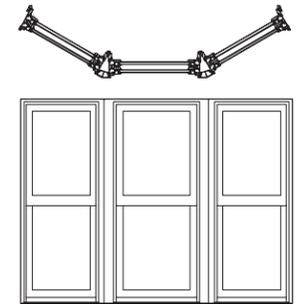
Double Hung Bays

30° Bay Center Picture



CN Width	RO Width		Projection	
	Inches	(mm)	Inches	(mm)
22-22-22	64 27/64	(1636)	11 3/8	(289)
22-26-22	68 27/64	(1738)	11 3/8	(289)
22-30-22	72 27/64	(1839)	11 3/8	(289)
22-32-22	74 27/64	(1890)	11 3/8	(289)
22-34-22	76 27/64	(1941)	11 3/8	(289)
22-36-22	78 27/64	(1992)	11 3/8	(289)
22-38-22	80 27/64	(2043)	11 3/8	(289)
22-42-22	84 27/64	(2144)	11 3/8	(289)
22-48-22	90 27/64	(2297)	11 3/8	(289)
22-50-22	92 27/64	(2347)	11 3/8	(289)
22-54-22	96 27/64	(2449)	11 3/8	(289)
22-62-22	104 27/64	(2652)	11 3/8	(289)
26-22-26	71 11/32	(1812)	13 3/8	(340)
26-26-26	75 11/32	(1914)	13 3/8	(340)
26-30-26	79 11/32	(2015)	13 3/8	(340)
26-32-26	81 11/32	(2066)	13 3/8	(340)
26-34-26	83 11/32	(2117)	13 3/8	(340)
26-36-26	85 11/32	(2168)	13 3/8	(340)
26-38-26	87 11/32	(2219)	13 3/8	(340)
26-42-26	91 11/32	(2320)	13 3/8	(340)
26-48-26	97 11/32	(2473)	13 3/8	(340)
26-50-26	99 11/32	(2523)	13 3/8	(340)
26-54-26	103 11/32	(2625)	13 3/8	(340)
26-62-26	111 11/32	(2828)	13 3/8	(340)
30-22-30	78 9/32	(1988)	15 3/8	(391)
30-26-30	82 9/32	(2090)	15 3/8	(391)
30-30-30	86 9/32	(2191)	15 3/8	(391)
30-32-30	88 9/32	(2242)	15 3/8	(391)
30-34-30	90 9/32	(2293)	15 3/8	(391)
30-36-30	92 9/32	(2344)	15 3/8	(391)
30-38-30	94 9/32	(2395)	15 3/8	(391)
30-42-30	98 9/32	(2496)	15 3/8	(391)
30-48-30	104 9/32	(2649)	15 3/8	(391)
30-50-30	106 9/32	(2699)	15 3/8	(391)
30-54-30	110 9/32	(2801)	15 3/8	(391)

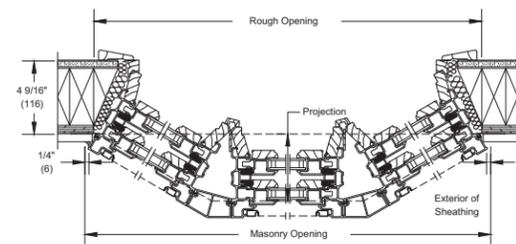
30° Bay Center Operator



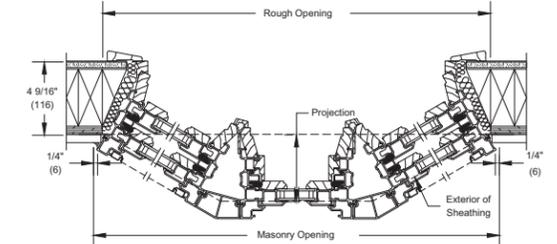
CN Width	RO Width		Projection	
	Inches	(mm)	Inches	(mm)
32-22-32	81 3/8	(2067)	16 3/8	(416)
32-26-32	85 3/8	(2169)	16 3/8	(416)
32-30-32	89 3/8	(2270)	16 3/8	(416)
32-32-32	91 47/64	(2330)	16 3/8	(416)
32-34-32	93 47/64	(2381)	16 3/8	(416)
32-36-32	95 47/64	(2432)	16 3/8	(416)
32-38-32	97 47/64	(2483)	16 3/8	(416)
32-42-32	101 47/64	(2584)	16 3/8	(416)
32-48-32	107 47/64	(2737)	16 3/8	(416)
32-50-32	109 47/64	(2787)	16 3/8	(416)
34-22-34	85 13/64	(2164)	17 3/8	(441)
34-26-34	89 13/64	(2266)	17 3/8	(441)
34-30-34	93 13/64	(2367)	17 3/8	(441)
34-32-34	95 13/64	(2418)	17 3/8	(441)
34-34-34	97 13/64	(2469)	17 3/8	(441)
34-36-34	99 13/64	(2520)	17 3/8	(441)
34-38-34	101 13/64	(2571)	17 3/8	(441)
34-42-34	105 13/64	(2672)	17 3/8	(441)
34-48-34	111 13/64	(2825)	17 3/8	(441)
34-50-34	113 13/64	(2875)	17 3/8	(441)
36-22-36	88 43/64	(2252)	18 3/8	(467)
36-26-36	92 43/64	(2354)	18 3/8	(467)
36-30-36	96 43/64	(2455)	18 3/8	(467)
36-32-36	98 43/64	(2506)	18 3/8	(467)
36-34-36	100 43/64	(2557)	18 3/8	(467)
36-36-36	102 43/64	(2608)	18 3/8	(467)
36-38-36	104 43/64	(2659)	18 3/8	(467)
36-42-36	108 43/64	(2760)	18 3/8	(467)
38-22-38	92 1/8	(2340)	19 3/8	(492)
38-26-38	96 1/8	(2442)	19 3/8	(492)
38-30-38	100 1/8	(2543)	19 3/8	(492)
38-32-38	102 1/8	(2594)	19 3/8	(492)
38-34-38	104 1/8	(2645)	19 3/8	(492)
38-36-38	106 1/8	(2696)	19 3/8	(492)
38-38-38	108 1/8	(2747)	19 3/8	(492)
38-42-38	112 1/8	(2848)	19 3/8	(492)
42-22-42	99 1/16	(2516)	21 3/8	(543)
42-26-42	103 1/16	(2618)	21 3/8	(543)
42-30-42	107 1/16	(2719)	21 3/8	(543)
42-32-42	109 1/16	(2770)	21 3/8	(543)
42-34-42	111 1/16	(2821)	21 3/8	(543)
42-36-42	113 1/16	(2872)	21 3/8	(543)
42-38-42	115 1/16	(2923)	21 3/8	(543)

Details and Elevations not to scale.
For rough opening height of a Bay, add 1 7/16" to the Double Hung rough opening height.

Construction Details



30° Bay with Operator Center Unit Jamb

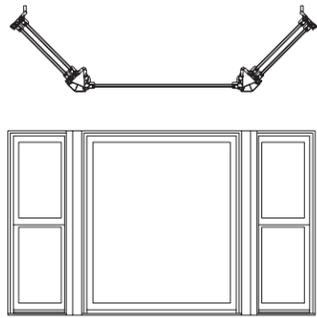


30° Bay with Center Picture Unit Jamb

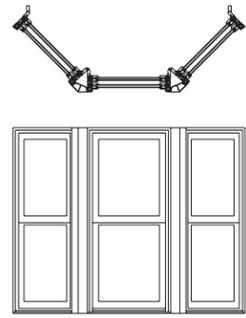
Details and Elevations not to scale.
For rough opening height of a Bay or Bow, add 3/16" to Casement rough opening height.
* When using Marvin Bays and Bows to replace products within existing openings, you will want to contact your local Marvin dealer for assistance and field verification of dimensions.
For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

Double Hung Bays

45° Bay Center Picture



45° Bay Center Operator



CN Width	RO Width		Projection	
	Inches	(mm)	Inches	(mm)
22-22-22	59 29/64	(1510)	16 9/16	(421)
22-26-22	63 29/64	(1612)	16 9/16	(421)
22-30-22	67 29/64	(1713)	16 9/16	(421)
22-32-22	69 29/64	(1764)	16 9/16	(421)
22-34-22	71 29/64	(1815)	16 9/16	(421)
22-36-22	73 29/64	(1866)	16 9/16	(421)
22-38-22	75 29/64	(1917)	16 9/16	(421)
22-42-22	79 29/64	(2018)	16 9/16	(421)
22-48-22	85 29/64	(2171)	16 9/16	(421)
22-50-22	87 29/64	(2221)	16 9/16	(421)
22-54-22	91 29/64	(2323)	16 9/16	(421)
22-62-22	99 29/64	(2526)	16 9/16	(421)
26-22-26	65 7/64	(1654)	19 25/64	(492)
26-26-26	69 7/64	(1755)	19 25/64	(492)
26-30-26	73 7/64	(1857)	19 25/64	(492)
26-32-26	75 7/64	(1908)	19 25/64	(492)
26-34-26	77 7/64	(1959)	19 25/64	(492)
26-36-26	79 7/64	(2009)	19 25/64	(492)
26-38-26	81 7/64	(2060)	19 25/64	(492)
26-42-26	85 7/64	(2162)	19 25/64	(492)
26-48-26	91 7/64	(2314)	19 25/64	(492)
26-50-26	93 7/64	(2365)	19 25/64	(492)
26-54-26	97 7/64	(2467)	19 25/64	(492)
26-62-26	105 7/64	(2670)	19 25/64	(492)

CN Width	RO Width		Projection	
	Inches	(mm)	Inches	(mm)
30-22-30	70 49/64	(1797)	22 7/32	(564)
30-26-30	74 49/64	(1899)	22 7/32	(564)
30-30-30	78 49/64	(2001)	22 7/32	(564)
30-32-30	80 49/64	(2051)	22 7/32	(564)
30-34-30	82 49/64	(2102)	22 7/32	(564)
30-36-30	84 49/64	(2153)	22 7/32	(564)
30-38-30	86 49/64	(2204)	22 7/32	(564)
30-42-30	90 49/64	(2305)	22 7/32	(564)
30-48-30	96 49/64	(2458)	22 7/32	(564)
30-50-30	98 49/64	(2509)	22 7/32	(564)
30-54-30	102 49/64	(2610)	22 7/32	(564)
30-62-30	110 49/64	(2813)	22 7/32	(564)

CN Height	RO Height	
	Inches	(mm)
24	25 11/16	(652)
36	37 11/16	(957)
40	41 11/16	(1059)
44	45 11/16	(1160)
48	49 11/16	(1262)
52	53 11/16	(1364)
56	57 11/16	(1465)
60	61 11/16	(1567)
64	65 11/16	(1668)
68	69 11/16	(1770)
72	73 11/16	(1872)
76	77 11/16	(1973)

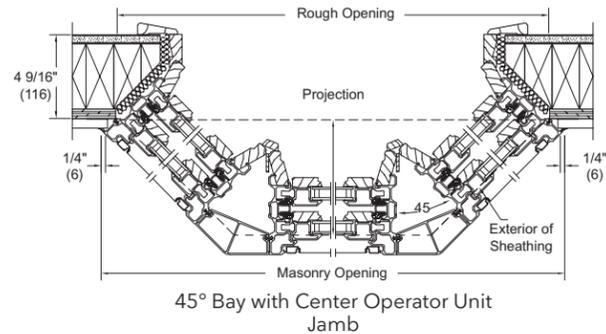
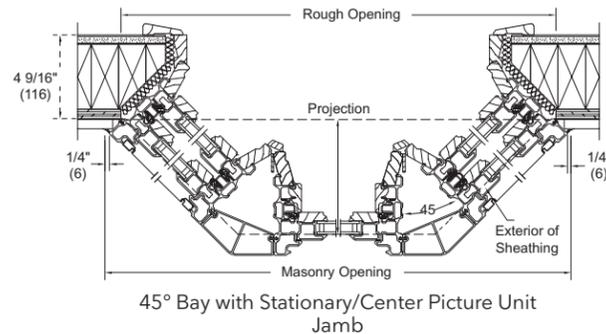
Details and Elevations not to scale.

For rough opening height of a Bay, add 1 7/16" to the Double Hung rough opening height.

Note: When using Marvin Bays and Bows to replace products within existing openings, you will want to contact your local Marvin dealer for assistance and field verification of dimensions.

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

Construction Details



Aluminum Direct Glaze Round Tops

Casement Frame Type

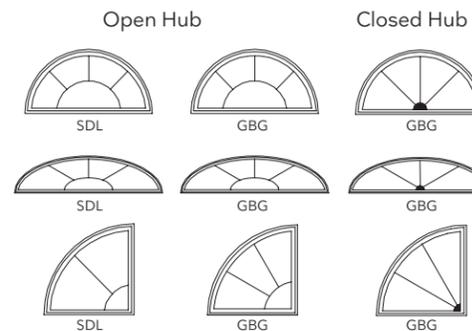
True Half (RT1), Quarter Round (RT7/8), Elliptical (RT29)

MO (mm) 2-4 1/2 (724) RO (mm) 2-5 (737) FS (mm) 2-4 (711)	MO (mm) 3-4 1/2 (1029) RO (mm) 3-5 (1041) FS (mm) 3-4 (1016)	MO (mm) 4-0 1/2 (1232) RO (mm) 4-1 (1245) FS (mm) 4-0 (1219)	MO (mm) 2-4 1/2 (724) RO (mm) 2-5 (737) FS (mm) 2-4 (711)
1-2 1/4 (362) 1-2 1/2 (368) 1-2 (356)	1-8 1/4 (514) 1-8 1/2 (521) 1-8 (508)	2-0 1/4 (616) 2-0 1/2 (622) 2-0 (610)	2-4 1/4 (718) 2-4 1/2 (724) 2-4 (711)
ELALDGR29 1W	ELALDGR21 2W	ELALDGR25 2W	ELALDG RT CIRQ29 1W
MO (mm) 4-8 1/2 (1435) RO (mm) 4-9 (1448) FS (mm) 4-8 (1422)	MO (mm) 6-0 1/2 (1842) RO (mm) 6-1 (1854) FS (mm) 6-0 (1829)	MO (mm) 6-0 1/2 (1842) RO (mm) 6-1 (1854) FS (mm) 6-0 (1829)	
2-4 1/4 (718) 2-4 1/2 (724) 2-4 (711)	3-0 1/4 (921) 3-0 1/2 (927) 3-0 (914)	1-6 1/4 (464) 1-6 1/2 (470) 1-6 (457)	
ELALDGR29 2W	ELALDGR25 3W	ELALDGR7318	

Multiple Assemblies

MO (mm) 6-0 1/2 (1842) RO (mm) 6-1 (1854) FS (mm) 6-0 (1829)	MO (mm) 6-0 1/2 (1842) RO (mm) 6-1 (1854) FS (mm) 6-0 (1829)	MO (mm) 6-0 1/2 (1842) RO (mm) 6-1 (1854) FS (mm) 6-0 (1829)
7-7 3/8 (2321) 7-7 5/8 (2327) 7-7 1/8 (2315)	7-11 3/8 (2423) 7-11 5/8 (2429) 7-11 1/8 (2416)	8-3 3/8 (2524) 8-3 5/8 (2530) 8-3 1/8 (2518)
ELALDGR25 3W / ELCA2555 3W	ELALDGR25 3W / ELCA2559 3W	ELALDGR25 3W / ELCA2563 3W
MO (mm) 2-4 1/2 (724) RO (mm) 2-5 (737) FS (mm) 2-4 (711)	MO (mm) 2-4 1/2 (724) RO (mm) 2-5 (737) FS (mm) 2-4 (711)	MO (mm) 2-4 1/2 (724) RO (mm) 2-5 (737) FS (mm) 2-4 (711)
6-3 3/8 (1915) 6-3 5/8 (1921) 6-3 1/8 (1908)	6-11 3/8 (2118) 6-11 5/8 (2124) 6-11 1/8 (2111)	7-3 3/8 (2219) 7-3 5/8 (2226) 7-3 1/8 (2213)
ELALDG RT29 1W / ELCA2947 E	ELALDG RT29 1W / ELCA2955 E	ELALDG RT29 1W / ELCA2959 E

Lite Patterns



MULTIPLE ASSEMBLIES
 Multiple assemblies can be factory mulled up to 3 units wide by 2 units high. **MAXIMUM ROUGH OPENING** not to exceed 113 1/2" x 91 1/16" or 85" x 107 9/16". Field mull kits are available. Structural mullion reinforcement is required for some assemblies. Please consult your local Marvin representative for more information.

Details and Elevations not to scale.
 E = These windows meet National Egress Codes for fire evacuation. Local codes may differ. Any Casement unit in these combinations can be operating or stationary. Operating sash are viewed from the exterior. Optional Round Top SDL, SDL with Spacer Bar and GBG are available in a standard cut, as shown to the left. (Round Top divided lites not available in other lite cuts.) Optional Casement GBGs and SDLs are available in several lite cut variations, standard Rectangular cut shown. For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

Aluminum Direct Glaze Round Tops

Casement Frame Type

True Half (RT1), Quarter Round (RT7/8)

MO (mm)	2-8 1/2 (826)
RO (mm)	2-9 (838)
FS (mm)	2-8 (813)



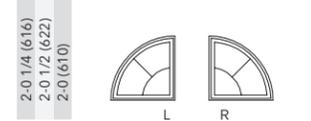
MO (mm)	3-0 1/2 (927)
RO (mm)	3-1 (940)
FS (mm)	3-0 (914)



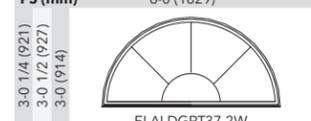
MO (mm)	5-4 1/2 (1638)
RO (mm)	5-5 (1651)
FS (mm)	5-4 (1626)



MO (mm)	2-0 1/2 (622)
RO (mm)	2-1 (635)
FS (mm)	2-0 (610)



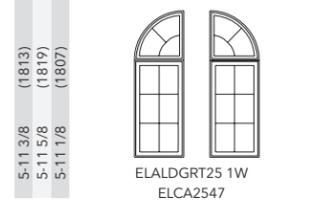
MO (mm)	6-0 1/2 (1842)
RO (mm)	6-1 (1854)
FS (mm)	6-0 (1829)



MULTIPLE ASSEMBLIES
Units may be factory mullied up to 3 units wide by 2 units high. Field mull kits are available. Structural mullion reinforcement is required for some assemblies. MAXIMUM ROUGH OPENING 113 1/2" (2883 mm) wide x 91 1/16" (2313 mm) high or 85" (2159 mm) wide x 107 9/16" (2732 mm) high. Quarter Round shapes require a Casement with a continuous head jamb. Please consult your local Marvin representative for more information.

Multiple Assemblies

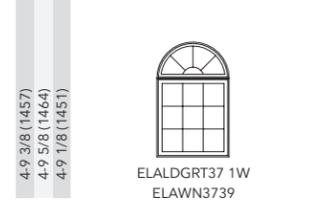
MO (mm)	2-0 1/2 (622)
RO (mm)	2-1 (635)
FS (mm)	2-0 (610)



MO (mm)	3-0 1/2 (927)
RO (mm)	3-1 (940)
FS (mm)	3-0 (914)



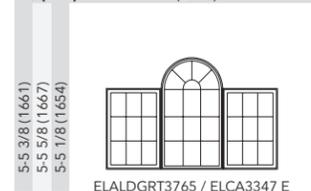
MO (mm)	3-0 1/2 (927)
RO (mm)	3-1 (940)
FS (mm)	3-0 (914)



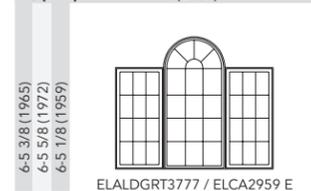
MO (mm)	2-8 1/2 (826)
RO (mm)	2-9 (838)
FS (mm)	2-8 (813)



MO (mm)	8-4 1/2 (2553)
RO (mm)	8-5 (2565)
FS (mm)	8-4 (2540)



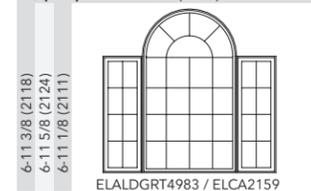
MO (mm)	7-8 1/2 (2350)
RO (mm)	7-9 (2362)
FS (mm)	7-8 (2337)



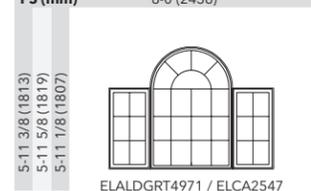
MO (mm)	6-4 1/2 (1943)
RO (mm)	6-5 (1956)
FS (mm)	6-4 (1930)



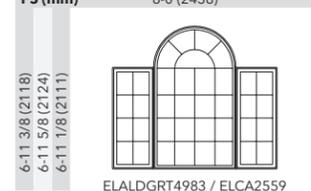
MO (mm)	7-4 1/2 (2248)
RO (mm)	7-5 (2261)
FS (mm)	7-4 (2235)



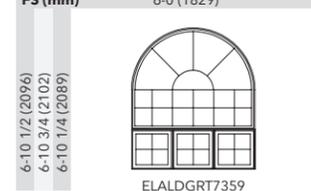
MO (mm)	8-0 1/2 (2451)
RO (mm)	8-1 (2464)
FS (mm)	8-0 (2438)



MO (mm)	8-0 1/2 (2451)
RO (mm)	8-1 (2464)
FS (mm)	8-0 (2438)



MO (mm)	6-0 1/2 (1842)
RO (mm)	6-1 (1854)
FS (mm)	6-0 (1829)

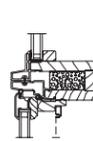


Construction Detail



Casement Round Top Head Jamb and Sill

Horizontal Mullion Detail



Casement Round Top Over Casement

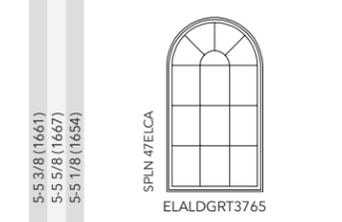
E = These windows meet National Egress Codes for fire evacuation. Local codes may differ. Contact your sales representative for multiple assembly lite alignment. Certain assemblies do not allow for exact lite alignment. Not to scale. Optional Round Top SDL and SDL with Spacer Bar are available in standard cut shown above. GBG patterns shown on page 46. (Round Top divided lites not available in other lite cuts) Optional Casement and Double Hung GBGs and SDLs are available in several lite variations, standard Rectangular cut shown. For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

Aluminum Direct Glaze Round Tops

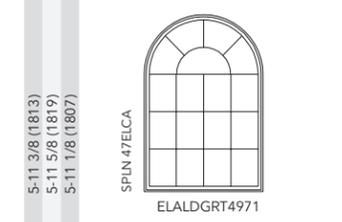
Casement Frame Type

True Half above Springline (RT2)

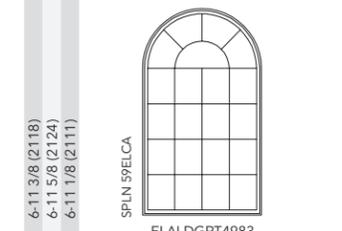
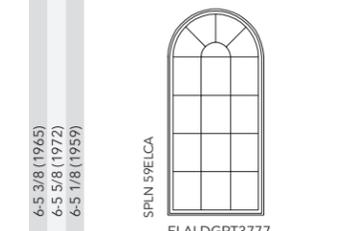
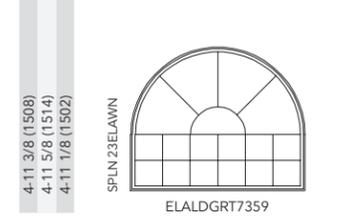
MO (mm)	3-0 1/2 (927)
RO (mm)	3-1 (940)
FS (mm)	3-0 (914)



MO (mm)	4-0 1/2 (1232)
RO (mm)	4-1 (1245)
FS (mm)	4-0 (1219)



MO (mm)	6-0 1/2 (1842)
RO (mm)	6-1 (1854)
FS (mm)	6-0 (1829)



Eyebrow above Springline (RT6)

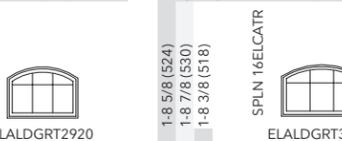
MO (mm)	1-8 1/2 (521)
RO (mm)	1-9 (533)
FS (mm)	1-8 (508)



MO (mm)	2-0 1/2 (622)
RO (mm)	2-1 (635)
FS (mm)	2-0 (610)



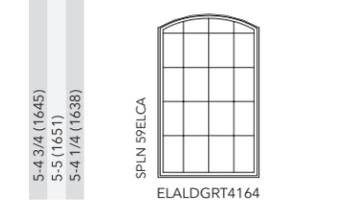
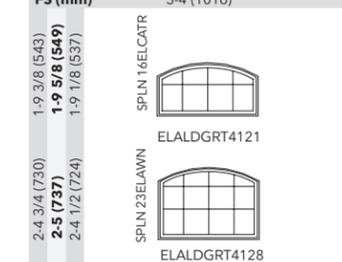
MO (mm)	2-4 1/2 (724)
RO (mm)	2-5 (737)
FS (mm)	2-4 (711)



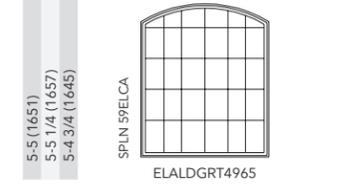
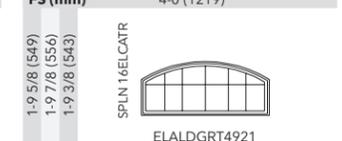
MO (mm)	2-8 1/2 (826)
RO (mm)	2-9 (838)
FS (mm)	2-8 (813)



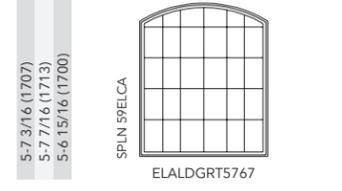
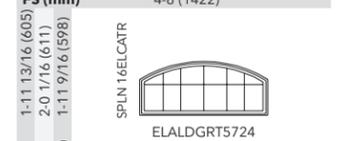
MO (mm)	3-4 1/2 (1029)
RO (mm)	3-5 (1041)
FS (mm)	3-4 (1016)



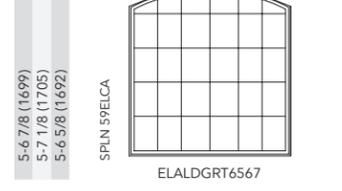
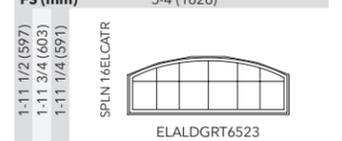
MO (mm)	4-0 1/2 (1232)
RO (mm)	4-1 (1245)
FS (mm)	4-0 (1219)



MO (mm)	4-8 1/2 (1435)
RO (mm)	4-9 (1448)
FS (mm)	4-8 (1422)



MO (mm)	5-4 1/2 (1638)
RO (mm)	5-5 (1651)
FS (mm)	5-4 (1626)

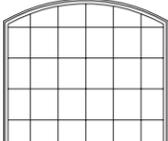


Aluminum Direct Glaze Round Tops

Casement Frame Type

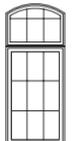
Eyebrow above Springline (RT6)

MO (mm)	6-0 1/2 (1842)
RO (mm)	6-1 (1854)
FS (mm)	6-0 (1829)

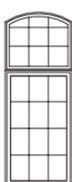
2-1 5/8 (651) 2-1 7/8 (657) 2-1 3/8 (645)	2-9 (838) 2-9 1/4 (845) 2-8 3/4 (832)	5-9 (1753) 5-9 1/4 (1759) 5-8 3/4 (1747)	SPLN 16ELCATR  ELALDGR7325	SPLN 23ELAWN  ELALDGR7333	SPLN 5PELCA  ELALDGR7369
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Multiple Assemblies

MO (mm)	2-4 1/2 (724)
RO (mm)	2-5 (737)
FS (mm)	2-4 (711)

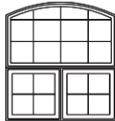
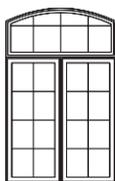
5-7 5/8 (1718) 5-7 7/8 (1724) 5-7 3/8 (1711)	 ELALDGR2920 ELCA2947 E
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MO (mm)	2-8 1/2 (826)
RO (mm)	2-9 (838)
FS (mm)	2-8 (813)

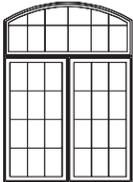
6-11 1/8 (2111) 6-11 3/8 (2118) 6-10 7/8 (2105)	 ELALDGR3328 ELCA3355 E
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Multiple Assemblies

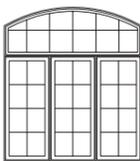
MO (mm)	4-0 1/2 (1232)
RO (mm)	4-1 (1245)
FS (mm)	4-0 (1219)

4-4 1/8 (1324) 4-4 3/8 (1330) 4-3 7/8 (1318)	 ELALDGR4929 ELAWN2523 2W
6-4 3/4 (1949) 6-5 (1956) 6-4 1/2 (1943)	 ELALDGR4921 ELCA2555 2W

MO (mm)	4-8 1/2 (1435)
RO (mm)	4-9 (1448)
FS (mm)	4-8 (1422)

6-6 15/16 (2005) 6-7 3/16 (2011) 6-6 11/16 (1999)	 ELALDGR5724 ELCA2955 2W E
4-6 5/16 (1354) 4-6 9/16 (1386) 4-6 1/16 (1373)	 ELALDGR5731 ELAWN2923 2W

MO (mm)	6-0 1/2 (1842)
RO (mm)	6-1 (1854)
FS (mm)	6-0 (1829)

4-8 1/8 (1425) 4-8 3/8 (1432) 4-7 7/8 (1419)	 ELDGR7333 ELAWN2523 3W
6-8 3/4 (2051) 6-9 (2057) 6-8 1/2 (2045)	 ELDGR7325 ELCA2555 3W

E = These windows meet National Egress Codes for fire evacuation. Local codes may differ. Contact your sales representative for multiple assembly lite alignment. Certain assemblies do not allow for exact lite alignment. Not to scale. Optional Round Top SDL and SDL with Spacer Bar are available in standard cut shown above. GBG patterns shown on page 46. (Round Top divided lites not available in other lite cuts) Optional Casement and Double Hung GBGs and SDLs are available in several lite variations, standard Rectangular cut shown. For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

MULTIPLE ASSEMBLIES
Units may be factory mullied up to 3 units wide by 2 units high. Field mull kits are available. Structural mullion reinforcement is required for some assemblies. Please consult your local Marvin representative for more information. MAXIMUM ROUGH OPENING 113 1/2" (2883 mm) wide x 91 1/16" (2313 mm) high or 85" (2159 mm) wide x 107 9/16" (2732 mm) high. Quarter Round shapes require a Casement with a continuous head jamb.

Aluminum Direct Glaze Round Tops

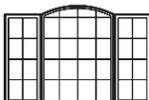
Casement Frame Type

Eyebrow above Springline (RT6)

MO (mm)	7-4 1/2 (2248)
RO (mm)	7-5 (2261)
FS (mm)	7-4 (2235)

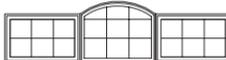
1-8 5/8 (524) 1-8 7/8 (530) 1-8 3/8 (518)	 ELALDGR3320 ELCA2916
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MO (mm)	8-0 1/2 (2451)
RO (mm)	8-1 (2464)
FS (mm)	8-0 (2438)

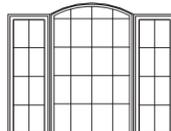
5-5 (1651) 5-5 1/4 (1657) 5-4 3/4 (1645)	 ELALDGR4965 ELCA2559
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Multiple Assemblies

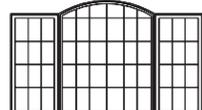
MO (mm)	9-0 1/2 (2756)
RO (mm)	9-1 (2769)
FS (mm)	9-0 (2743)

2-5 3/8 (746) 2-5 5/8 (752) 2-5 1/8 (740)	 ELALDGR3729 ELCA3723
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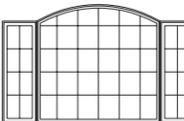
MO (mm)	6-8 1/2 (2045)
RO (mm)	6-9 (2057)
FS (mm)	6-8 (2032)

5-4 3/4 (1645) 5-5 (1651) 5-4 1/2 (1638)	 ELALDGR4164 ELCA2159
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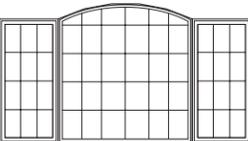
MO (mm)	9-4 1/2 (2858)
RO (mm)	9-5 (2870)
FS (mm)	9-4 (2845)

5-7 3/16 (1707) 5-7 7/16 (1713) 5-6 15/16 (1700)	 ELALDGR5767 ELCA2959 E
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MO (mm)	9-4 1/2 (2858)
RO (mm)	9-5 (2870)
FS (mm)	9-4 (2845)

5-9 (1753) 5-9 1/4 (1759) 5-8 3/4 (1747)	 ELALDGR7369 ELCA2159
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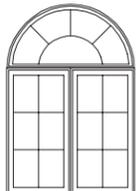
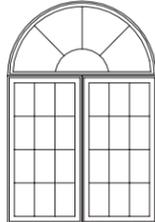
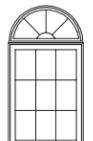
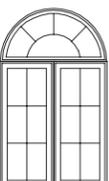
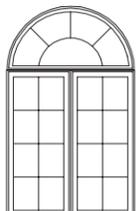
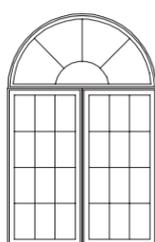
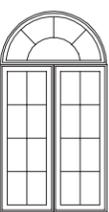
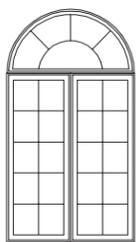
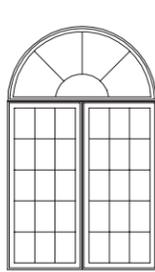
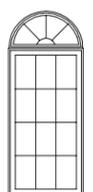
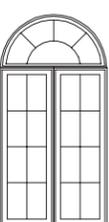
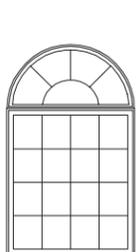
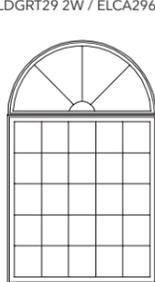
MO (mm)	10-0 1/2 (3061)
RO (mm)	10-1 (3073)
FS (mm)	10-0 (3048)

5-6 7/8 (1699) 5-7 1/8 (1705) 5-6 5/8 (1692)	 ELALDGR6567 ELCA2959 E
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Aluminum Direct Glaze Round Tops

Casement Frame Type

Multiple Assemblies

MO (mm) 2-4 1/2 (724) RO (mm) 2-5 (737) FS (mm) 2-4 (711)	MO (mm) 3-4 1/2 (1029) RO (mm) 3-5 (1041) FS (mm) 3-4 (1016)	MO (mm) 4-0 1/2 (1232) RO (mm) 4-1 (1245) FS (mm) 4-0 (1219)	MO (mm) 4-8 1/2 (1435) RO (mm) 4-9 (1448) FS (mm) 4-8 (1422)
4-1 3/8 (1254) 4-1 5/8 (1260) 4-1 1/8 (1248)	4-11 3/8 (1508) 4-11 5/8 (1514) 4-11 1/8 (1502)	5-11 3/8 (1813) 5-11 5/8 (1819) 5-11 1/8 (1807)	6-11 3/8 (2118) 6-11 5/8 (2124) 6-11 1/8 (2111)
			
ELALDGR29 1W / ELCA2935	ELALDGR21 2W / ELCA2139 2W	ELALDGR25 2W / ELCA2547 2W	ELALDGR29 2W / ELCA2955 2W E
4-5 3/8 (1356) 4-5 5/8 (1362) 4-5 1/8 (1349)	5-7 3/8 (1711) 5-7 5/8 (1718) 5-7 1/8 (1705)	6-7 3/8 (2016) 6-7 5/8 (2022) 6-7 1/8 (2010)	7-3 3/8 (2219) 7-3 5/8 (2226) 7-3 1/8 (2213)
			
ELALDGR29 1W / ELCA2939	ELALDGR21 2W / ELCA2147 2W	ELALDGR25 2W / ELCA2555 2W	ELALDGR29 2W / ELCA2959 2W E
5-1 3/8 (1559) 5-1 5/8 (1565) 5-1 1/8 (1553)	6-3 3/8 (1915) 6-3 5/8 (1921) 6-3 1/8 (1908)	7-3 3/8 (2219) 7-3 5/8 (2226) 7-3 1/8 (2213)	7-7 3/8 (2321) 7-7 5/8 (2327) 7-7 1/8 (2315)
			
ELALDGR29 1W / ELCA2947 E	ELALDGR21 2W / ELCA2155 2W	ELALDGR25 2W / ELCA2563 2W	ELALDGR29 2W / ELCA2963 2W E
5-9 3/8 (1762) 5-9 5/8 (1768) 5-9 1/8 (1756)	6-7 3/8 (2016) 6-7 5/8 (2022) 6-7 1/8 (2010)	6-7 3/8 (2016) 6-7 5/8 (2022) 6-7 1/8 (2010)	7-7 3/8 (2321) 7-7 5/8 (2327) 7-7 1/8 (2315)
			
ELALDGR29 1W / ELCA2955 E	ELALDGR21 2W / ELCA2159 2W	ELALDGR25 2W / ELCA2955	ELALDGR29 2W / ELCA2955

Details and Elevations not to scale.

E = These windows meet National Egress Codes for fire evacuation. Local codes may differ.

When ordering 6 9/16" (167 mm) jambs, add 1/4" (6 mm) to width and 1/8" (3 mm) to height for Rough Opening.

Frame Size and Masonry Opening.

Optional Round Top SDL, SDL with Spacer Bar and GBG are available in a standard cut, as shown on page 35.

(Round Top divided lites not available in other lite cuts.)

Optional Double Hung GBGs and SDLs are available in several lite cut variations, standard Rectangular cut shown.

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

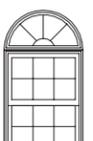
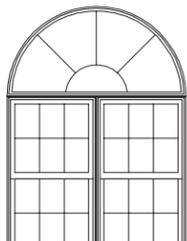
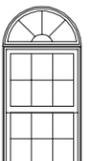
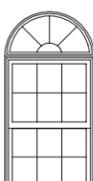
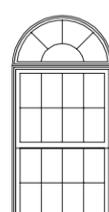
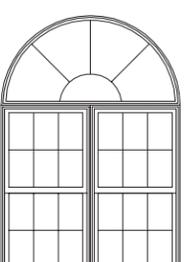
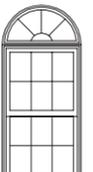
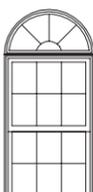
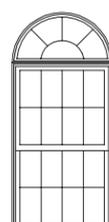
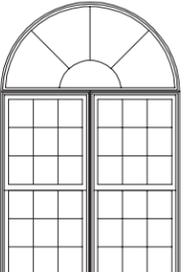
Aluminum Direct Glaze Round Tops

Double Hung Frame Type

True Half (RT1)

MO (mm) 2-6 (762) RO (mm) 2-6 1/2 (775) FS (mm) 2-5 1/2 (749)	MO (mm) 2-10 (864) RO (mm) 2-10 1/2 (876) FS (mm) 2-9 1/2 (851)	MO (mm) 3-2 (965) RO (mm) 3-2 1/2 (978) FS (mm) 3-1 1/2 (953)	MO (mm) 5-7 1/2 (1715) RO (mm) 5-8 (1727) FS (mm) 5-7 (1702)	MO (mm) 5-11 1/2 (1816) RO (mm) 6-0 (1829) FS (mm) 5-11 (1803)
1-3 (381) 1-3 1/4 (387) 1-2 3/4 (375)	1-5 (432) 1-5 1/4 (438) 1-4 3/4 (425)	1-7 (483) 1-7 1/4 (489) 1-6 3/4 (476)	2-9 3/4 (857) 2-10 (864) 2-9 1/2 (851)	2-11 3/4 (908) 3-0 (914) 2-11 1/2 (902)
				
ELALDGR30 1W	ELALDGR34 1W	ELALDGR38 1W	ELALDGR34 2W	ELALDGR36 2W

Multiple Assemblies

MO (mm) 2-6 (762) RO (mm) 2-6 1/2 (775) FS (mm) 2-5 1/2 (749)	MO (mm) 2-10 (864) RO (mm) 2-10 1/2 (876) FS (mm) 2-9 1/2 (851)	MO (mm) 3-2 (965) RO (mm) 3-2 1/2 (978) FS (mm) 3-1 1/2 (953)	MO (mm) 5-7 1/2 (1715) RO (mm) 5-8 (1727) FS (mm) 5-7 (1702)
4-6 3/4 (1391) 4-7 (1397) 4-6 1/2 (1384)	5-4 3/4 (1645) 5-5 (1651) 5-4 1/2 (1638)	6-2 3/4 (1899) 6-3 (1905) 6-2 1/2 (1892)	7-9 1/2 (2375) 7-9 3/4 (2381) 7-9 1/4 (2369)
			
ELALDGR30 1W / ELDH3040	ELALDGR34 1W / ELDH3448	ELALDGR38 1W / ELDH3856	ELALDGR34 2W / ELDH3460 2W
5-2 3/4 (1594) 5-3 (1600) 5-2 1/2 (1588)	5-8 3/4 (1746) 5-9 (1753) 5-8 1/2 (1740)	6-6 3/4 (2000) 6-7 (2007) 6-6 1/2 (1994)	8-1 1/2 (2477) 8-1 3/4 (2483) 8-1 1/4 (2470)
			
ELALDGR30 1W / ELDH3048	ELALDGR34 1W / ELDH3452	ELALDGR38 1W / ELDH3860 E	ELALDGR34 2W / ELDH3464 2W
5-6 3/4 (1695) 5-7 (1702) 5-6 1/2 (1689)	6-0 3/4 (1848) 6-1 (1854) 6-0 1/2 (1842)	6-10 3/4 (2102) 6-11 (2108) 6-10 1/2 (2096)	8-9 1/2 (2680) 8-9 3/4 (2686) 8-9 1/4 (2673)
			
ELALDGR30 1W / ELDH3052	ELALDGR34 1W / ELDH3456	ELALDGR38 1W / ELDH3864 E	ELALDGR34 2W / ELDH3472 2W E

Aluminum Direct Glaze Round Tops

Double Hung/Door Frame Type

True Half (RT1), Quarter Round (RT7/8), Full Circle (RT27), Ellipse (RT28)

MO (mm)	2-6 (762)	MO (mm)	2-10 (864)	MO (mm)	3-0 (914)
RO (mm)	2-6 1/2 (775)	RO (mm)	2-10 1/2 (876)	RO (mm)	3-0 1/2 (927)
FS (mm)	2-5 1/2 (749)	FS (mm)	2-9 1/2 (851)	FS (mm)	2-11 1/2 (902)

ELALDGR30 1W, ELALDGR34 1W, ELALDGR36 1W

MO (mm)	3-0 (914)	MO (mm)	3-6 (1067)	MO (mm)	4-3 1/2 (1308)	MO (mm)	4-11 1/2 (1511)
RO (mm)	3-0 1/2 (927)	RO (mm)	3-6 1/2 (1080)	RO (mm)	4-4 (1321)	RO (mm)	5-0 (1524)
FS (mm)	2-11 1/2 (902)	FS (mm)	3-5 1/2 (1054)	FS (mm)	4-3 (1295)	FS (mm)	4-11 (1499)

ELALDGR36 1W, ELALDGR42 1W, ELALDGR26 2W, ELALDGR30 2W

MO (mm)	6-3 1/2 (1918)	MO (mm)	6-11 1/2 (2121)	MO (mm)	2-11 1/2 (902)	MO (mm)	2-7 1/2 (800)
RO (mm)	6-4 (1930)	RO (mm)	7-0 (2134)	RO (mm)	3-0 (914)	RO (mm)	2-8 (813)
FS (mm)	6-3 (1905)	FS (mm)	6-11 (2108)	FS (mm)	2-11 (889)	FS (mm)	2-7 (787)

ELALDGR38 2W, ELALDGR42 2W, ELALDGR3636, ELALDGR3248

Multiple Assemblies

MO (mm)	2-10 (864)	MO (mm)	3-0 (914)	MO (mm)	3-6 (1067)	MO (mm)	6-3 1/2 (1918)
RO (mm)	2-10 1/2 (876)	RO (mm)	3-0 1/2 (927)	RO (mm)	3-6 1/2 (1080)	RO (mm)	6-4 (1930)
FS (mm)	2-9 1/2 (851)	FS (mm)	2-11 1/2 (902)	FS (mm)	3-5 1/2 (1054)	FS (mm)	6-3 (1905)

ELDGR34 1W, ELDH3456, ELALDGR36 1W, ELDH3640, ELALDGR42 1W, ELDH4248, ELALDGR38 2W, ELDH3840 2W

MO (mm)	4-11 1/2 (1511)	MO (mm)	6-11 1/2 (2121)	MO (mm)	9-2 1/2 (2807)
RO (mm)	5-0 (1524)	RO (mm)	7-0 (2134)	RO (mm)	9-3 (2819)
FS (mm)	4-11 (1499)	FS (mm)	6-11 (2108)	FS (mm)	9-2 (2794)

ELALDGR30 2W, ELDH3056 2W, ELALDGR42 2W, ELDH4268 2W E, ELDH2236 ELALDGR6869 ELDH2236

MULTIPLE ASSEMBLIES

Units may be factory mulled up to 3 units wide by 2 units high. Field mull kits are available. Structural mullion reinforcement is required for some assemblies. Please consult your local Marvin representative for more information.
MAXIMUM ROUGH OPENING 113 1/2" (2883 mm) wide x 91 7/16" (2313 mm) high or 85" (2159 mm) wide x 107 7/16" (2732 mm) high. Quarter Round shapes require a Casement with a continuous head jamb.

Aluminum Direct Glaze Round Tops

Door Frame Type

True Half (RT1), Elliptical (RT29)

MO (mm)	5-11 1/2 (1816)	MO (mm)	5-11 1/2 (1816)
RO (mm)	6-0 (1829)	RO (mm)	6-0 (1829)
FS (mm)	5-11 (1803)	FS (mm)	5-11 (1803)

ELALDGR7236, ELALDGR7218

MULTIPLE ASSEMBLIES

Multiple assemblies can be factory mulled up to 1W2H or 2W2H or 3W1H. See product Specifications for mulling limitations.
 Field mull kits are available. Structural mullion reinforcement is required for some assemblies.
 Please consult your local Marvin representative for more information.

Multiple Assemblies

Sliding Patio Doors

MO (mm)	5-11 1/2 (1816)
RO (mm)	6-0 (1829)
FS (mm)	5-11 (1803)

ELALDGR7218 / ELSPD6068 XO

Sliding French Doors

MO (mm)	5-11 1/2 (1816)
RO (mm)	6-0 (1829)
FS (mm)	5-11 (1803)

ELALDGR7218 / ELSFD6068 XO

Inswing French Doors

MO (mm)	5-11 1/2 (1816)
RO (mm)	6-0 (1829)
FS (mm)	5-11 (1803)

ELALDGR7218 / ELIFD6068 XO

MO (mm)	8-4 1/4 (2546)
RO (mm)	8-4 1/2 (2553)
FS (mm)	8-4 (2540)

ELALDGR7236* / ELSPD6068 XO

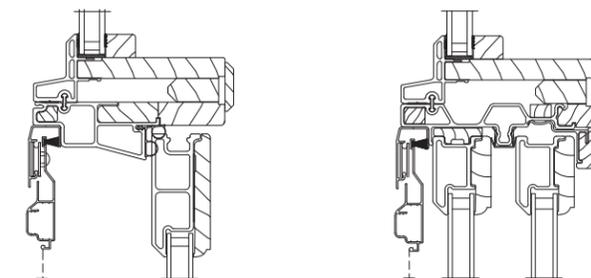
MO (mm)	8-4 1/4 (2546)
RO (mm)	8-4 1/2 (2553)
FS (mm)	8-4 (2540)

ELALDGR7236* / ELSFD6068 XO

MO (mm)	8-4 1/4 (2546)
RO (mm)	8-4 1/2 (2553)
FS (mm)	8-4 (2540)

ELALDGR7236* / ELIFD6068 XO

Horizontal Mullion Details



Round Top Over Inswing French Door

Round Top Over Sliding Patio Door

Details and Elevations not to scale.
 * Assembly available field mulled only.
 Optional Round Top SDL, SDL with Spacer Bar and GBG are available in a standard cut, as shown on page 35. (Round Top divided lites not available in other lite cuts)
 Optional Casement GBGs and SDLs are available in several lite cut variations, standard Rectangular cut shown.
 ELALDG RT 7236 and ELALDG RT 7218 can be mulled above a CN 36 width 2W Elevate Double Hung.
 For more information, please contact your Marvin representative.
 For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

Aluminum Direct Glaze Round Tops

Double Hung/Door Frame Type

Eyebrow above Springline (RT6)

MO (mm)	2-2 (660)
RO (mm)	2-2 1/2 (673)
FS (mm)	2-1 1/2 (648)



MO (mm)	2-6 (762)
RO (mm)	2-6 1/2 (775)
FS (mm)	2-5 1/2 (749)



MO (mm)	2-10 (864)
RO (mm)	2-10 1/2 (876)
FS (mm)	2-9 1/2 (851)



MO (mm)	3-0 (914)
RO (mm)	3-0 1/2 (927)
FS (mm)	2-11 1/2 (902)



MO (mm)	3-2 (965)
RO (mm)	3-2 1/2 (978)
FS (mm)	3-1 1/2 (953)



MO (mm)	3-6 (1067)
RO (mm)	3-6 1/2 (1080)
FS (mm)	3-5 1/2 (1054)



MO (mm)	4-3 1/2 (1308)
RO (mm)	4-4 (1321)
FS (mm)	4-3 (1295)



MO (mm)	4-11 1/2 (1511)
RO (mm)	5-0 (1524)
FS (mm)	4-11 (1499)



MO (mm)	5-7 1/2 (1715)
RO (mm)	5-8 (1727)
FS (mm)	5-7 (1702)



MO (mm)	5-11 1/2 (1816)
RO (mm)	6-0 (1829)
FS (mm)	5-11 (1803)



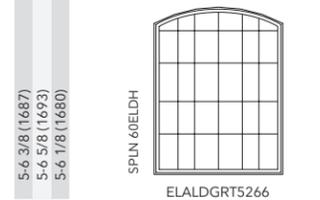
MO (mm)	6-3 1/2 (1918)
RO (mm)	6-4 (1930)
FS (mm)	6-3 (1905)



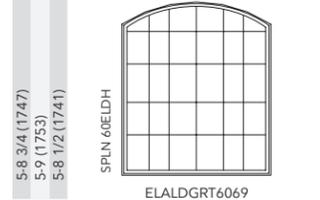
MO (mm)	6-11 1/2 (2121)
RO (mm)	7-0 (2134)
FS (mm)	6-11 (2108)



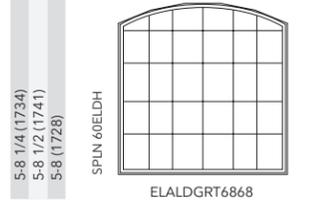
MO (mm)	4-3 1/2 (1308)
RO (mm)	4-4 (1321)
FS (mm)	4-3 (1295)



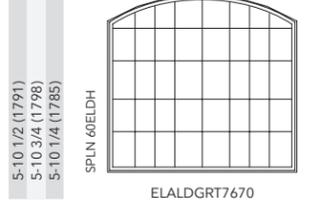
MO (mm)	4-11 1/2 (1511)
RO (mm)	5-0 (1524)
FS (mm)	4-11 (1499)



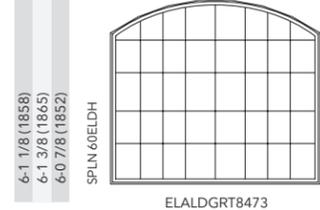
MO (mm)	5-7 1/2 (1715)
RO (mm)	5-8 (1727)
FS (mm)	5-7 (1702)



MO (mm)	6-3 1/2 (1918)
RO (mm)	6-4 (1930)
FS (mm)	6-3 (1905)



MO (mm)	6-11 1/2 (2121)
RO (mm)	7-0 (2134)
FS (mm)	6-11 (2108)



E = These windows meet National Egress Codes for fire evacuation. Local codes may differ. Not to scale. Optional Round Top SDL and SDL with Spacer Bar are available in standard cut shown above. GBG patterns shown on page 46. (Round Top divided lites not available in other lite cuts)
Optional Casement and Double Hung GBGs and SDLs are available in several lite variations, standard Rectangular cut shown.
For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

Aluminum Direct Glaze Round Tops

Double Hung/Door Frame Type

Eyebrow above Springline (RT6)

MO (mm)	3-0 (914)
RO (mm)	3-0 1/2 (927)
FS (mm)	2-11 1/2 (902)



Multiple Assemblies

MO (mm)	3-6 (1067)
RO (mm)	3-6 1/2 (1080)
FS (mm)	3-5 1/2 (1054)



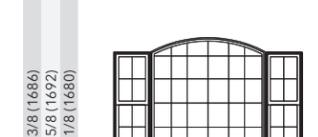
MO (mm)	5-7 1/2 (1715)
RO (mm)	5-8 (1727)
FS (mm)	5-7 (1702)



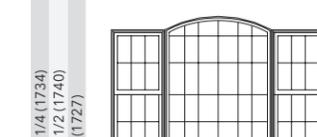
MO (mm)	6-3 1/2 (1918)
RO (mm)	6-4 (1930)
FS (mm)	6-3 (1905)



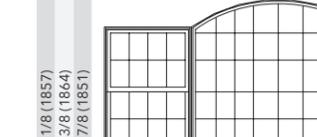
MO (mm)	8-6 1/2 (2604)
RO (mm)	8-7 (2616)
FS (mm)	8-6 (2591)



MO (mm)	9-2 1/2 (2807)
RO (mm)	9-3 (2819)
FS (mm)	9-2 (2794)



MO (mm)	13-10 1/2 (4229)
RO (mm)	13-11 (4242)
FS (mm)	13-10 (4216)

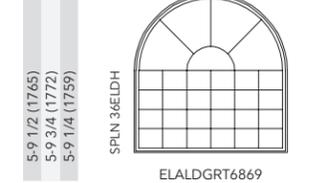


MO (mm)	6-1 (1854)
RO (mm)	6-1 1/2 (1867)
FS (mm)	6-0 1/2 (1842)

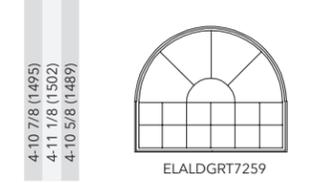


True Half above Springline (RT2)

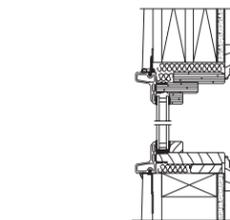
MO (mm)	5-7 1/2 (1715)
RO (mm)	5-8 (1727)
FS (mm)	5-7 (1702)



MO (mm)	5-11 1/2 (1816)
RO (mm)	6-0 (1829)
FS (mm)	5-11 (1803)

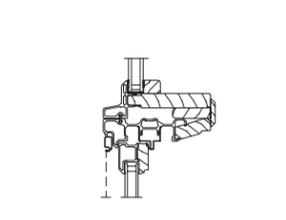


Construction Detail



Double Hung/Door Round Top Head Jamb and Sill

Horizontal Mullion Detail



Double Hung Round Top Over Double Hung

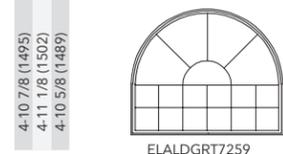
MULTIPLE ASSEMBLIES
Units may be factory mullered up to 3 units wide by 2 units high. Field mull kits are available. Structural mullion reinforcement is required for some assemblies. Please consult your local Marvin representative for more information.
MAXIMUM ROUGH OPENING 113 1/2" (2883 mm) wide x 91 1/16" (2313 mm) high or 85" (2159 mm) wide x 107 9/16" (2732 mm) high. Quarter Round shapes require a Casement with a continuous head jamb.

Round Tops

Double Hung/Door Frame Type

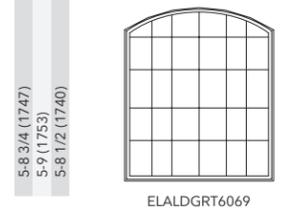
Half Round above Springline (RT2)

MO (mm)	5-11 1/2 (1816)
RO (mm)	6-0 (1829)
FS (mm)	5-11 (1803)

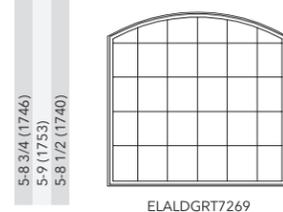


Eyebrow above Springline (RT6)

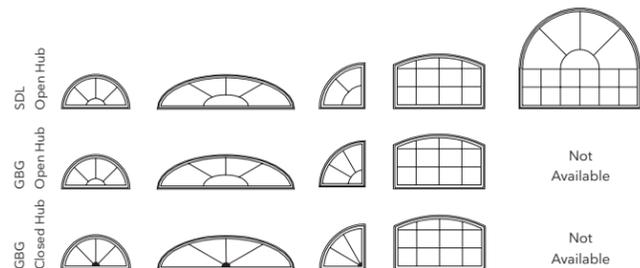
MO (mm)	4-11 1/2 (1511)
RO (mm)	5-0 (1524)
FS (mm)	4-11 (1499)



MO (mm)	5-11 1/2 (1816)
RO (mm)	6-0 (1829)
FS (mm)	5-11 (1803)



Lite Patterns



T = Standard Tempered
 Contact your Marvin representative for multiple assembly lite alignment. Certain assemblies do not allow for exact lite alignment.
 Not to scale. Optional Round Top SDL and SDL with Spacer Bar are available in standard cut shown above. GBG patterns shown above. (Round Top divided lites not available in other lite cuts) Optional Casement and Double Hung GBGs and SDLs are available in several lite variations, standard Rectangular cut shown.
 Note: ELALDGR7225, ELALDGR7233, and ELALDGR7269 can be mullered above a CN 36 width 2W Elevate Double Hung. GBGs may not line up in multiple assemblies. ELALDGR7259 can be mullered above a CN 36 width 2W Elevate Double Hung.
 For more information, please contact your Marvin representative.
 For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

Direct glaze Specialty Shapes - Polygons

HOW TO SPECIFY

When ordering a Trapezoid, Triangle, or Rectangle window, provide a sketch of the unit as viewed from the exterior, also include key Rough Opening dimensions.

EXAMPLE

To order a window of a Trapezoid opening provide the measurements of A, B, and C as indicated. For other shapes, give the dimensions shown.

To ensure the proper unit for field mulling applications, specify Casement/Awning or Double Hung/Door frame type.

SPECIFICATION NOTES

Maximum frame long dimension: 109" (2767)

Maximum frame short dimension at 109" (2767) long dimension: 64 3/4" (1645)

Tripane maximum frame long dimension: 102 13/16" (2611)

Tripane maximum frame short dimension at 102 13/16" (2611) long dimension: 61 13/16" (1570)

Minimum unit frame dimensions: 12 7/8" (327) x 12 7/8" (327)

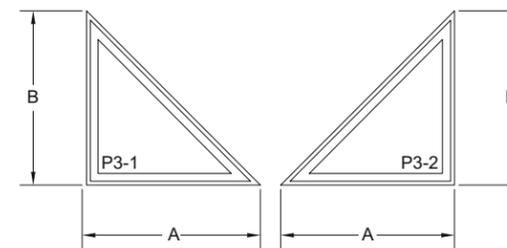
Minimum P8-1 RO size: 19 1/8" (486) x 19 1/8" (486)

Minimum frame short dimension for P4-5, P4-6, P5-1: 7 1/2" (191)

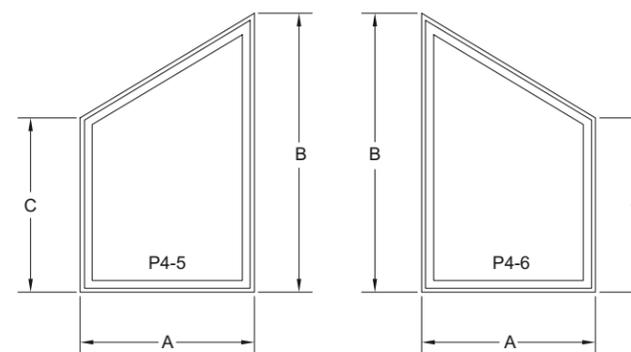
Maximum frame square footage: 49 ft². All shapes shall be defined by the enclosed rectangle.

Tripane maximum frame square footage: 44.160 ft². All shapes shall be defined by the enclosed rectangle.

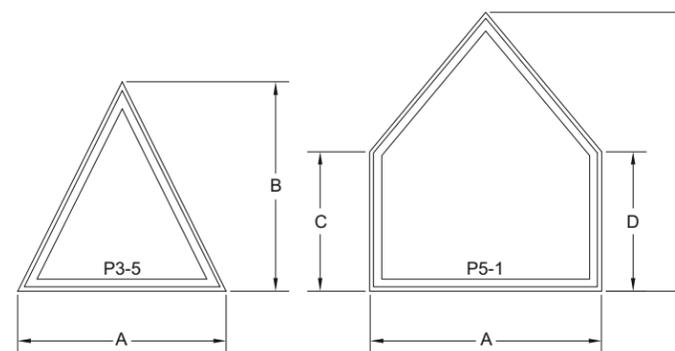
The minimum frame angle is 15 degrees (3.22/12 pitch).



90° TRIANGLE

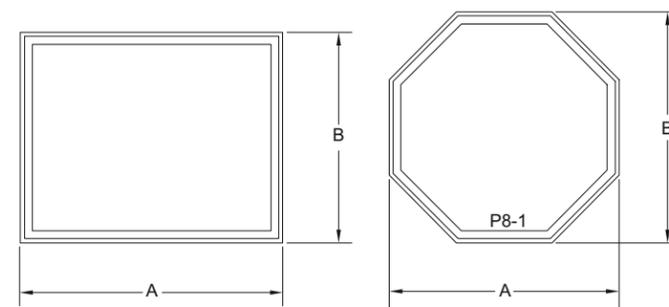


TRAPEZOID



ISOSCELES TRIANGLE

PENTAGON



90° RECTANGLE

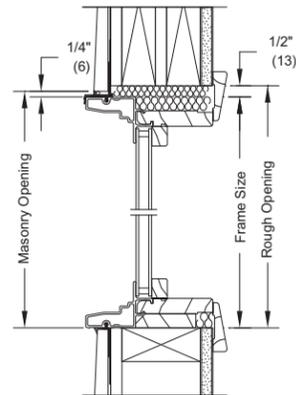
OCTAGON

MULTIPLE ASSEMBLIES - RECTANGLES ONLY

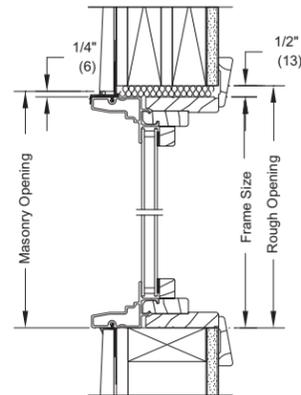
Multiple assemblies of rectangles only can be factory mullered:
 For ELDG units using ELCA/ELAWN frame type: up to 7 units wide by 1 unit high. MAXIMUM ROUGH OPENING not to exceed 113" x 71 5/8" or up to 4 units wide by 5 units high. MAXIMUM ROUGH OPENING not to exceed 85" x 94 3/4".
 For ELDG units using ELDH/ELGL frame type: up to 5 units wide by 1 unit high. MAXIMUM ROUGH OPENING not to exceed 113 1/2" x 76 1/4" or up to 3 units wide by 5 units high. MAXIMUM ROUGH OPENING not to exceed 84" x 92".
 For ELDG units mullered over ELSPD/ELSFD: up to 1 unit wide by 2 units high. MAXIMUM ROUGH OPENING not to exceed 72" x 100 1/2".
 For ELDG units mullered over ELIFD/ELOFD: up to 2 units wide by 2 units high. MAXIMUM ROUGH OPENING not to exceed 73 5/8" x 100 1/2".
 Field mulling window assemblies beyond the above limitations is not recommended.
 Field mulling door assemblies beyond 110" x 112" is not recommended.

Direct Glaze

Construction Details

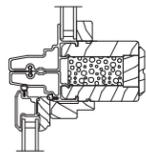


Direct Glaze Casement
Frame Type
Head Jamb and Sill

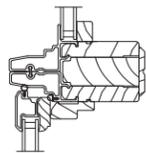


Direct Glaze Double Hung/Door
Frame Type
Head Jamb and Sill

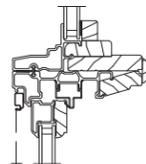
Mullion Details



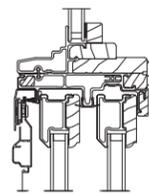
Direct Glaze
Over Casement/Awning



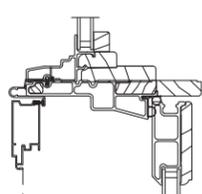
Direct Glaze
Over Casement/Awning
with Structural Mull
Reinforcement Block*



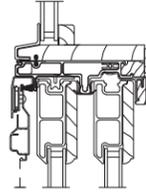
Direct Glaze
Over Double Hung



Direct Glaze
Over Sliding Patio Door



Direct Glaze
Over Inswing French Door



Direct Glaze
Over Sliding French Door

Details not to scale.

Note: Drip cap supplied on direct glaze rectangles only.

* To be used on 2 wide by 2 high assemblies.

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

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)						
6-10 1/4 (2089)						
6-10 1/2 (2096)						
6-10 (2083)						
6-2 17/32 (1893)						
7-2 1/4 (2191)						
7-2 1/2 (2197)						
7-2 (2184)						
6-6 17/32 (1995)						
7-11 3/4 (2432)						
8-0 (2438)						
7-1 1/2 (2426)						
7-4 1/32 (2236)						

MULTIPLE ASSEMBLIES

Multiple assembly units can be factory mullered up to 1 unit wide by 2 units high.

MAXIMUM ROUGH OPENING not to exceed 72" x 100 1/2"

Field mull kits available not to exceed 110" x 112"

True Half Rounds are available field mullered only. Structural mullion reinforcement is required for some assemblies.

Please consult your local Marvin representative for more information.

Details and Elevations not to scale.

Optional Direct Glaze GBGs and SDLs are available in a standard Rectangular cut, as shown. Alternate lite cuts available to align with doors using select lite cut options shown on page 3. Optional Round Top SDL and SDL with Spacer Bar are available in a standard cut, as shown. Round Top GBG cuts are shown on page 35. (Round Top divided lites not available in other lite cuts)

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

Sliding Patio Door

3 Panel

MO (mm)	7-5 (2261)				8-11 (2718)				
RO (mm)	7-5 1/2 (2273)				8-11 1/2 (2731)				
FS (mm)	7-4 1/2 (2248)				8-10 1/2 (2705)				
DLO (mm)	2-1 (635)				2-7 (787)				
6-7 3/4 (2026)									
6-8 (2032)									
6-7 1/2 (2019)									
6-0 1/32 (1803)									
6-10 1/4 (2089)									
6-10 1/2 (2096)									
6-10 (2083)									
6-2 17/32 (1893)									
7-2 1/4 (2191)									
7-2 1/2 (2197)									
7-2 (2184)									
6-6 17/32 (1995)									
7-11 3/4 (2432)									
8-0 (2438)									
7-11 1/2 (2426)									
7-4 1/32 (2236)									

Details and Elevations not to scale.

Optional Direct Glaze GBGs and SDLs are available in a standard Rectangular cut, as shown. Alternate lite cuts available to align with doors using select lite cut options shown on page 3. Optional Round Top SDL and SDL with Spacer Bar are available in a standard cut, as shown. Round Top GBG cuts are shown on page 35 and 46.

(Round Top divided lites not available in other lite cuts)

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

Sliding Patio Door

3 Panel

MO (mm)	8-11 (2718)				11-11 (3632)			
RO (mm)	8-11 1/2 (2731)				11-11 1/2 (3645)			
FS (mm)	8-10 1/2 (2705)				11-10 1/2 (3620)			
DLO (mm)	2-7 (787)				3-7 (1092)			
6-7 3/4 (2026)								
6-8 (2032)								
6-7 1/2 (2019)								
6-0 1/32 (1803)								
6-10 1/4 (2089)								
6-10 1/2 (2096)								
6-10 (2083)								
6-2 17/32 (1893)								
7-2 1/4 (2191)								
7-2 1/2 (2197)								
7-2 (2184)								
6-6 17/32 (1995)								
7-11 3/4 (2432)								
8-0 (2438)								
7-11 1/2 (2426)								
7-4 1/32 (2236)								

MULTIPLE ASSEMBLIES

Multiple assembly units can be factory mullied up to 1 unit wide by 2 units high.

MAXIMUM ROUGH OPENING not to exceed 72" x 100 1/2"

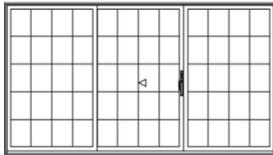
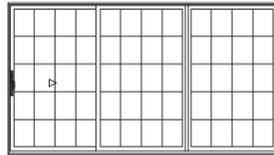
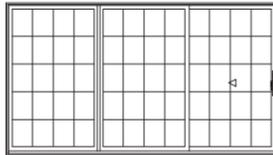
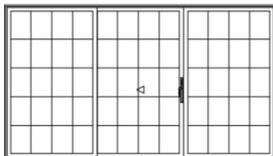
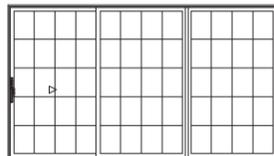
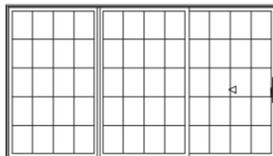
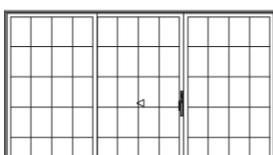
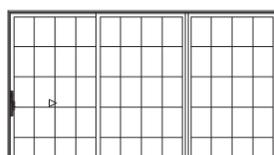
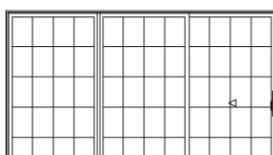
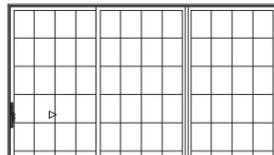
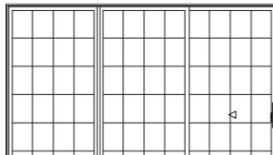
Field mull kits available not to exceed 110" x 112".

True Half Rounds are available field mullied only. Structural mullion reinforcement is required for some assemblies.

Please consult your local Marvin representative for more information.

Sliding Patio Door

3 Panel

MO (mm)	11-11 (3632)
RO (mm)	11-11 1/2 (3645)
FS (mm)	11-10 1/2 (3620)
DLO (mm)	3-7 (1092)
6-7 3/4 (2026) 6-8 (2032) 6-7 1/2 (2019) 6-0 1/32 (1803)	 ELSPD12065 OXO - LH  ELSPD12065 XOO  ELSPD12065 OOX
6-10 1/4 (2089) 6-10 1/2 (2096) 6-10 (2083) 6-2 17/32 (1893)	 ELSPD12068 OXO - LH  ELSPD12068 XOO  ELSPD12068 OOX
7-2 1/4 (2191) 7-2 1/2 (2197) 7-2 (2184) 6-6 17/32 (1995)	 ELSPD12070 OXO - LH  ELSPD12070 XOO  ELSPD12070 OOX
7-11 3/4 (2432) 8-0 (2438) 7-11 1/2 (2426) 7-4 1/32 (2236)	 ELSPD12080 OXO - LH  ELSPD12080 XOO  ELSPD12080 OOX

Details and Elevations not to scale.

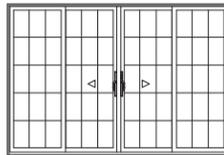
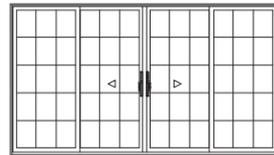
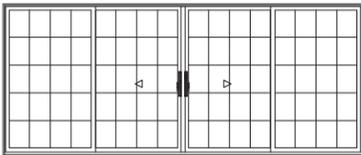
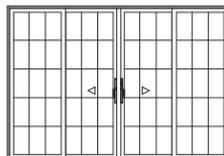
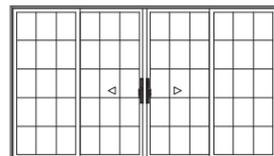
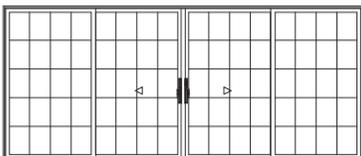
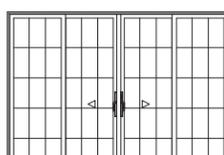
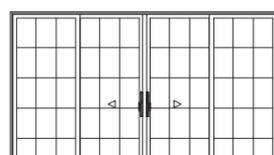
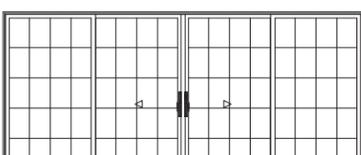
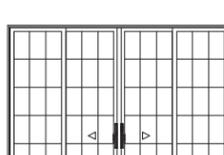
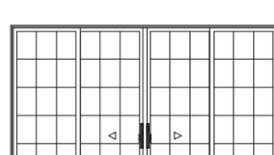
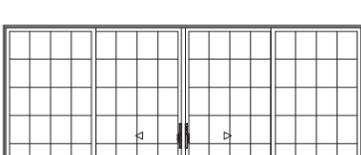
Optional Direct Glaze GBGs and SDLs are available in a standard Rectangular cut, as shown. Alternate lite cuts available to align with doors using select lite cut options shown on page 3. Optional Round Top SDL and SDL with Spacer Bar are available in a standard cut, as shown. Round Top GBG cuts are shown on page 35.

(Round Top divided lites not available in other lite cuts)

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

Sliding Patio 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)	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)	 ELSPD10065 OXXO  ELSPD12065 OXXO  ELSPD16065 OXXO		
6-10 1/4 (2089) 6-10 1/2 (2096) 6-10 (2083) 6-2 17/32 (1893)	 ELSPD10068 OXXO  ELSPD12068 OXXO  ELSPD16068 OXXO		
7-2 1/4 (2191) 7-2 1/2 (2197) 7-2 (2184) 6-6 17/32 (1995)	 ELSPD10070 OXXO  ELSPD12070 OXXO  ELSPD16070 OXXO		
7-11 3/4 (2432) 8-0 (2438) 7-11 1/2 (2426) 7-4 1/32 (2236)	 ELSPD10080 OXXO  ELSPD12080 OXXO  ELSPD16080 OXXO		

MULTIPLE ASSEMBLIES

Multiple assembly units can be factory mullied up to 1 unit wide by 2 units high.

MAXIMUM ROUGH OPENING not to exceed 72" x 100 1/2"

Field mull kits available not to exceed 110" x 112".

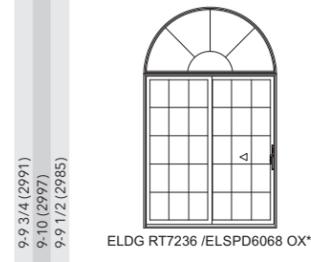
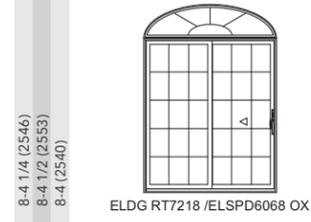
True Half Rounds are available field mullied only. Structural mullion reinforcement is required for some assemblies.

Please consult your local Marvin representative for more information.

Sliding Patio Door

Round Top Over Sliding Patio Door

MO (mm)	5-11 1/2 (1816)
RO (mm)	6-0 (1829)
FS (mm)	5-11 (1803)

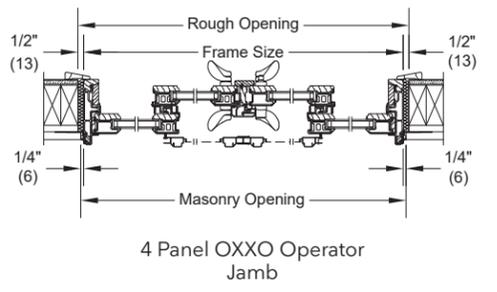
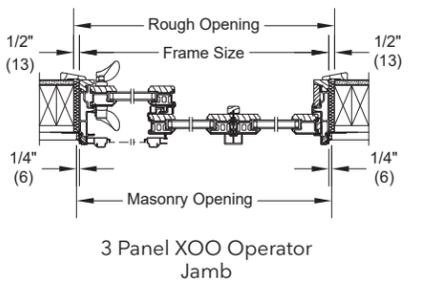
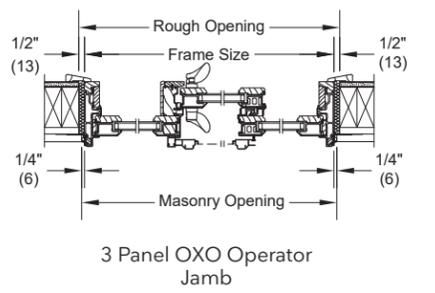
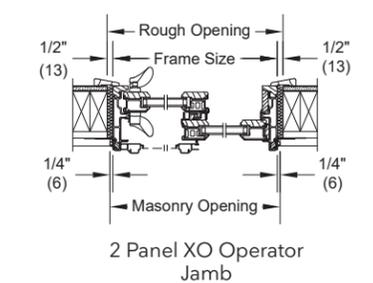
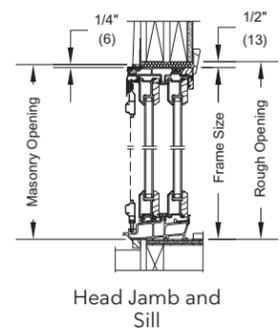


Details and Elevations not to scale.
 Optional Direct Glaze GBGs and SDLs are available in a standard Rectangular cut, as shown. Alternate lite cuts available to align with doors using select lite cut options shown on page 3. Optional Round Top SDL and SDL with Spacer Bar are available in a standard cut, as shown. Round Top GBG cuts are shown on page 35. (Round Top divided lites not available in other lite cuts)
 * This product is only available field mullied.
 For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

MULTIPLE ASSEMBLIES
 Multiple assembly units can be factory mullied up to 1 unit wide by 2 units high.
 MAXIMUM ROUGH OPENING not to exceed 72" x 100 1/2"
 Field mull kits available not to exceed 110" x 112".
 True Half Rounds are available field mullied only. Structural mullion reinforcement is required for some assemblies.
 Please consult your local Marvin representative for more information.

Sliding Patio Door

Construction Details



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)

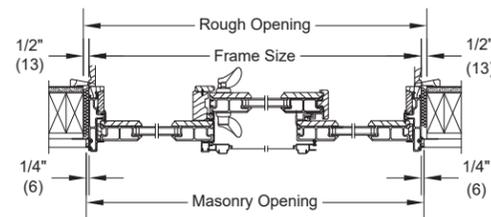
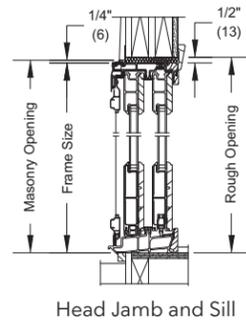
<p>6-7 3/4 (2026) 6-8 (2032) 6-7 1/2 (2019) 5-7 3/32 (1704)</p>						
	ELSFD5065 XO	ELSFD5065 OX	ELSFD6065 XO	ELSFD6065 OX	ELSFD8065 XO	ELSFD8065 OX
<p>6-10 1/4 (2089) 6-10 1/2 (2096) 6-10 (2083) 5-9 19/32 (1768)</p>						
	ELSFD5068 XO	ELSFD5068 OX	ELSFD6068 XO	ELSFD6068 OX	ELSFD8068 XO	ELSFD8068 OX
<p>7-2 1/4 (2191) 7-2 1/2 (2197) 7-2 (2184) 6-1 19/32 (1869)</p>						
	ELSFD5070 XO	ELSFD5070 OX	ELSFD6070 XO	ELSFD6070 OX	ELSFD8070 XO	ELSFD8070 OX
<p>7-11 3/4 (2432) 8-0 (2438) 7-11 1/2 (2426) 6-11 3/32 (2111)</p>						
	ELSFD5080 XO	ELSFD5080 OX	ELSFD6080 XO	ELSFD6080 OX	ELSFD8080 XO	ELSFD8080 OX

Round Top Over Sliding French Door

MO (mm)	5-11 1/2 (1816)
RO (mm)	6-0 (1829)
FS (mm)	5-11 (1803)

<p>8-4 1/4 (2546) 8-4 1/2 (2553) 8-4 (2540)</p>	
	ELDGRT7218/ELSFD6068 XO
<p>9-9 3/4 (2991) 9-10 (2997) 9-9 1/2 (2985)</p>	
	ELDGRT7236/ELSFD6068 XO*

Construction Details



* This product is only available field mullied.

Sliding French Door

3 Panel

MO (mm)	7-5 (2261)
RO (mm)	7-5 1/2 (2273)
FS (mm)	7-4 1/2 (2248)
DLO (mm)	1-10 3/8 (568)

<p>6-7 3/4 (2026) 6-8 (2032) 6-7 1/2 (2019) 5-7 3/32 (1704)</p>				
	ELSFD 7665 XO	ELSFD 7665 OX	ELSFD 7665 OXO-LH	ELSFD 7665 OXO-RH
<p>6-10 1/4 (2089) 6-10 1/2 (2096) 6-10 (2083) 5-9 19/32 (1768)</p>				
	ELSFD 7668 XO	ELSFD 7668 OX	ELSFD 7668 OXO-LH	ELSFD 7668 OXO-RH
<p>7-2 1/4 (2191) 7-2 1/2 (2197) 7-2 (2184) 6-1 19/32 (1869)</p>				
	ELSFD 7670 XO	ELSFD 7670 OX	ELSFD 7670 OXO-LH	ELSFD 7670 OXO-RH
<p>7-11 3/4 (2432) 8-0 (2438) 7-11 1/2 (2426) 6-11 3/32 (2111)</p>				
	ELSFD 7680 XO	ELSFD 7680 OX	ELSFD 7680 OXO-LH	ELSFD 7680 OXO-RH

Details and Elevations not to scale.

Optional Direct Glaze GBGs and SDLs are available in a standard Rectangular cut, as shown.

Alternate lite cuts available to align with doors using select lite cut options shown on page 3. Optional Round Top SDL and SDL with Spacer Bar are available in a standard cut, as shown. Round Top GBG cuts are shown on page 35. (Round Top divided lites not available in other lite cuts)

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

MULTIPLE ASSEMBLIES

Multiple assembly units can be factory mullied up to 1 unit wide by 2 units high. **MAXIMUM ROUGH OPENING** not to exceed 72" x 100 1/2". Field mull kits available for up to 3 units wide by 2 units high not to exceed 110" x 112". True Half Rounds are available field mullied only. Structural mullion reinforcement is required for some assemblies. Please consult your local Marvin representative for more information.

Sliding French Door

3 Panel

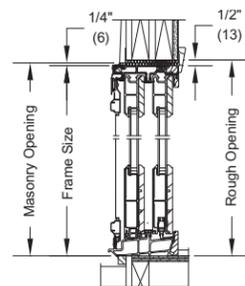
MO (mm)	8-11 (2718)
RO (mm)	8-11 1/2 (2731)
FS (mm)	8-10 1/2 (2705)
DLO (mm)	2-4 3/8 (721)
6-7 3/4 (2026)	ELSFD 9065 XOO
6-8 (2032)	ELSFD 9065 OOX
6-7 1/2 (2019)	ELSFD 9065 OXO-LH
5-7 3/32 (1704)	ELSFD 9065 OXO-RH
6-10 1/4 (2089)	ELSFD 9068 XOO
6-10 1/2 (2096)	ELSFD 9068 OOX
6-10 (2083)	ELSFD 9068 OXO-LH
5-9 19/32 (1768)	ELSFD 9068 OXO-RH
7-2 1/4 (2191)	ELSFD 9070 XOO
7-2 1/2 (2197)	ELSFD 9070 OOX
7-2 (2184)	ELSFD 9070 OXO-LH
6-1 19/32 (1869)	ELSFD 9070 OXO-RH
7-11 3/4 (2432)	ELSFD 9080 XOO
8-0 (2438)	ELSFD 9080 OOX
7-11 1/2 (2426)	ELSFD 9080 OXO-LH
6-11 3/32 (2111)	ELSFD 9080 OXO-RH

Sliding French Door

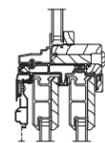
3 Panel

MO (mm)	11-11 (3632)
RO (mm)	11-11 1/2 (3645)
FS (mm)	11-10 1/2 (3620)
DLO (mm)	3-4 3/8 (1026)
6-7 3/4 (2026)	ELSFD 12065 XOO
6-8 (2032)	ELSFD 12065 OOX
6-7 1/2 (2019)	ELSFD 12065 OXO-LH
5-7 3/32 (1704)	ELSFD 12065 OXO-RH
6-10 1/4 (2089)	ELSFD 12068 XOO
6-10 1/2 (2096)	ELSFD 12068 OOX
6-10 (2083)	ELSFD 12068 OXO-LH
5-9 19/32 (1768)	ELSFD 12068 OXO-RH
7-2 1/4 (2191)	ELSFD 12070 XOO
7-2 1/2 (2197)	ELSFD 12070 OOX
7-2 (2184)	ELSFD 12070 OXO-LH
6-1 19/32 (1869)	ELSFD 12070 OXO-RH
7-11 3/4 (2432)	ELSFD 12080 XOO
8-0 (2438)	ELSFD 12080 OOX
7-11 1/2 (2426)	ELSFD 12080 OXO-LH
6-11 3/32 (2111)	ELSFD 12080 OXO-RH

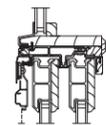
Construction Details



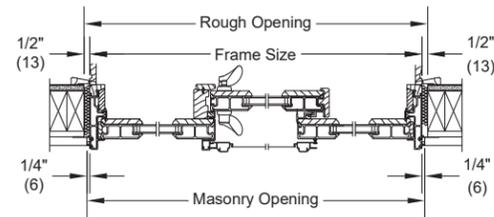
Head Jamb and Sill



Direct Glaze Over Sliding French Door



Round Top Over Sliding French Door



3 Panel Jamb - OXO - RH Operator

Details and Elevations not to scale.

* This product is only available field mullled

Optional Direct Glaze GBGs and SDLs are available in a standard Rectangular cut, as shown. Alternate lite cuts available to align with door using select lite cut options shown on page 3.

Optional Round Top SDL and SDL with Spacer Bar are available in a standard cut, as shown. Round Top GBG cuts are shown on page 35. (Round Top divided lites not available in other lite cuts)

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

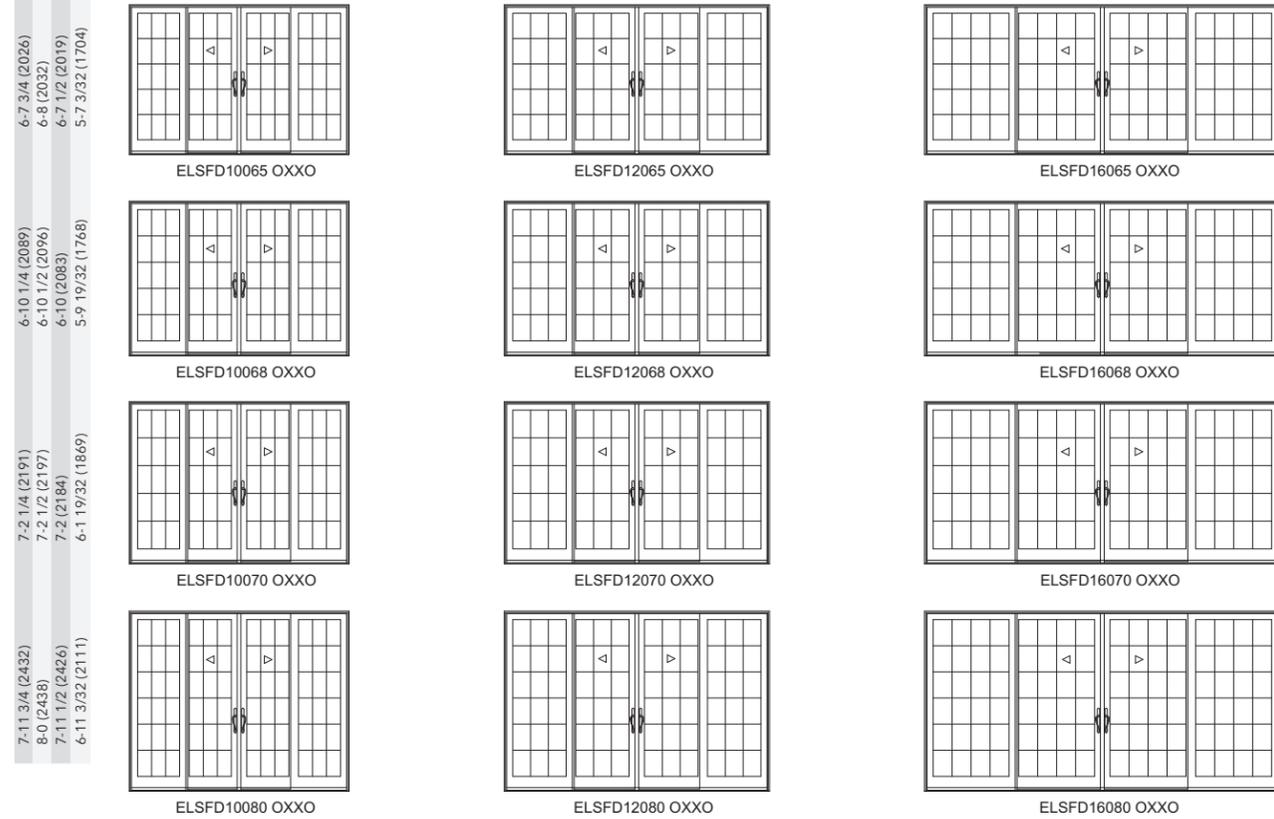
MULTIPLE ASSEMBLIES

Field mull kits available not to exceed 110" x 112". True Half Rounds are available field mullled only. Structural mullion reinforcement is required for some assemblies. Please consult your local Marvin representative for more information.

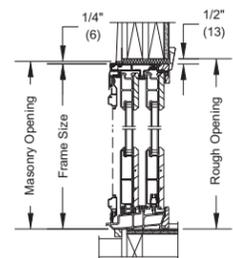
Sliding French Door

4 Panel

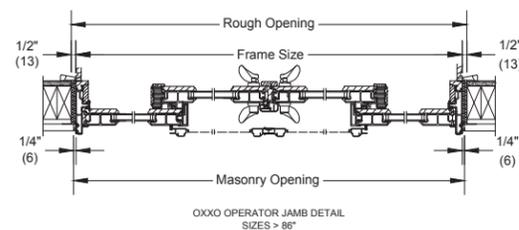
MO (mm)	9-9 1/2 (2985)	11-9 1/2 (3594)	15-9 1/2 (4813)
RO (mm)	9-10 (2997)	11-10 (3607)	15-10 (4826)
FS (mm)	9-9 (2972)	11-9 (3581)	15-9 (4801)
DLO (mm)	1-10 3/8 (568)	2-4 3/8 (721)	3-4 3/8 (1026)



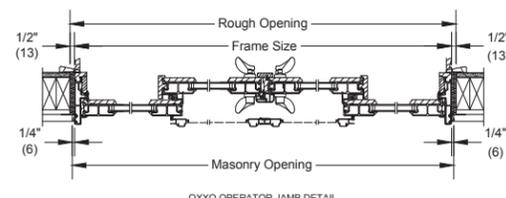
Construction Details



Head Jamb and Sill



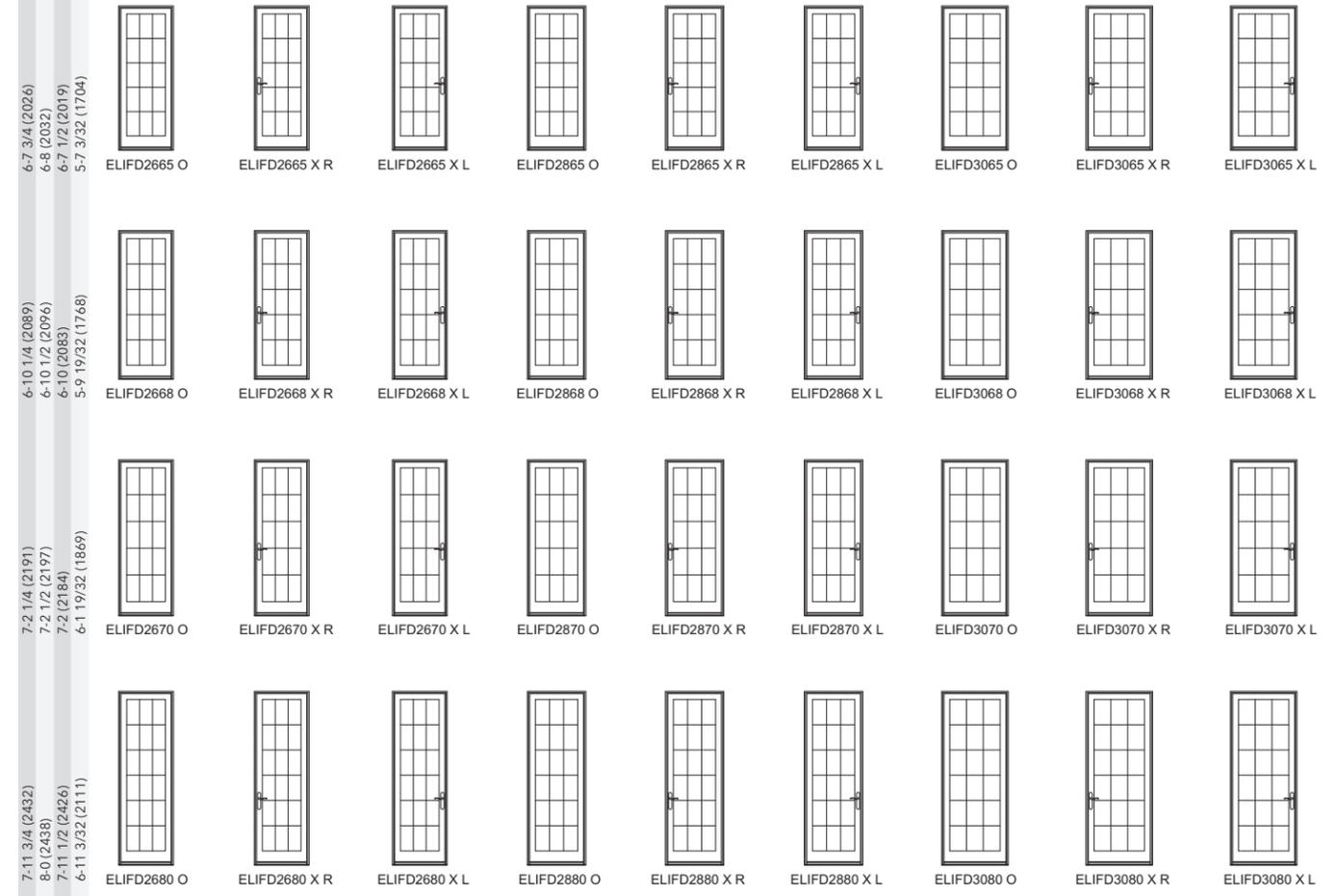
4 Panel Jamb - OXXO Operator
Frame Heights over 86"



4 Panel Jamb - OXXO Operator
Frame Heights 86" or Less

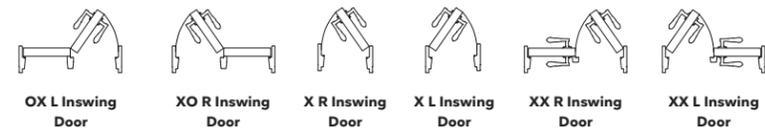
Inswing French Door

MO (mm)	2-6 13/16 (783)	2-8 13/16 (834)	3-0 13/16 (935)
RO (mm)	2-7 5/16 (796)	2-9 5/16 (846)	3-1 5/16 (948)
FS (mm)	2-6 5/16 (770)	2-8 5/16 (821)	3-0 5/16 (923)
DLO (mm)	1-9 11/32 (542)	1-11 11/32 (593)	2-3 11/32 (695)



Inswing 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.

O = Stationary X = Operator
L = Left Hand Panel R = Right Hand Panel

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

MULTIPLE ASSEMBLIES

Multiple assemblies can be factory mullied. **MAXIMUM ROUGH OPENING** not to exceed 109 15/16" x 96" maximum up to 3 units wide by 1 unit high. **MAXIMUM ROUGH OPENING** not to exceed 73 5/8" x 100 1/2" maximum up to 2 units wide by 2 unit high. Field mull kits available for up to 3 units wide by 2 units high not to exceed 110" x 112". True Half Rounds are available field mullied only. Structural mullion reinforcement is required for some assemblies. Please consult your local Marvin representative for more information.

Inswing French Door

MO (mm)	4-11 1/2 (1511)	5-3 1/2 (1613)	5-11 1/2 (1816)
RO (mm)	5-0 (1524)	5-4 (1626)	6-0 (1829)
FS (mm)	4-11 (1499)	5-3 (1600)	5-11 (1803)
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)						
6-10 1/4 (2089)						
6-10 1/2 (2096)						
6-10 (2083)						
5-9 19/32 (1768)						
7-2 1/4 (2191)						
7-2 1/2 (2197)						
7-2 (2184)						
6-1 19/32 (1869)						
7-11 3/4 (2432)						
8-0 (2438)						
7-11 1/2 (2426)						
6-11 3/32 (2111)						

Details and Elevations not to scale.
 *This product is only available field mullied.
 O = Stationary X = Operator
 Optional Direct Glaze GBGs, SDLs and SDLs with Spacer Bar are available in a standard rectangular cut, as shown. Alternate lite cuts available to align with doors using select lite cut options shown on page 3.
 For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

Inswing French Door

Multiple Assemblies - 3 Panel

MO (mm)	7-5 13/16 (2281)	7-5 13/16 (2281)	7-7 7/16 (2323)	7-5 13/16 (2281)
RO (mm)	7-6 5/16 (2294)	7-6 5/16 (2294)	7-7 15/16 (2335)	7-6 5/16 (2294)
FS (mm)	7-5 5/16 (2269)	7-5 5/16 (2269)	7-6 15/16 (2310)	7-5 5/16 (2269)

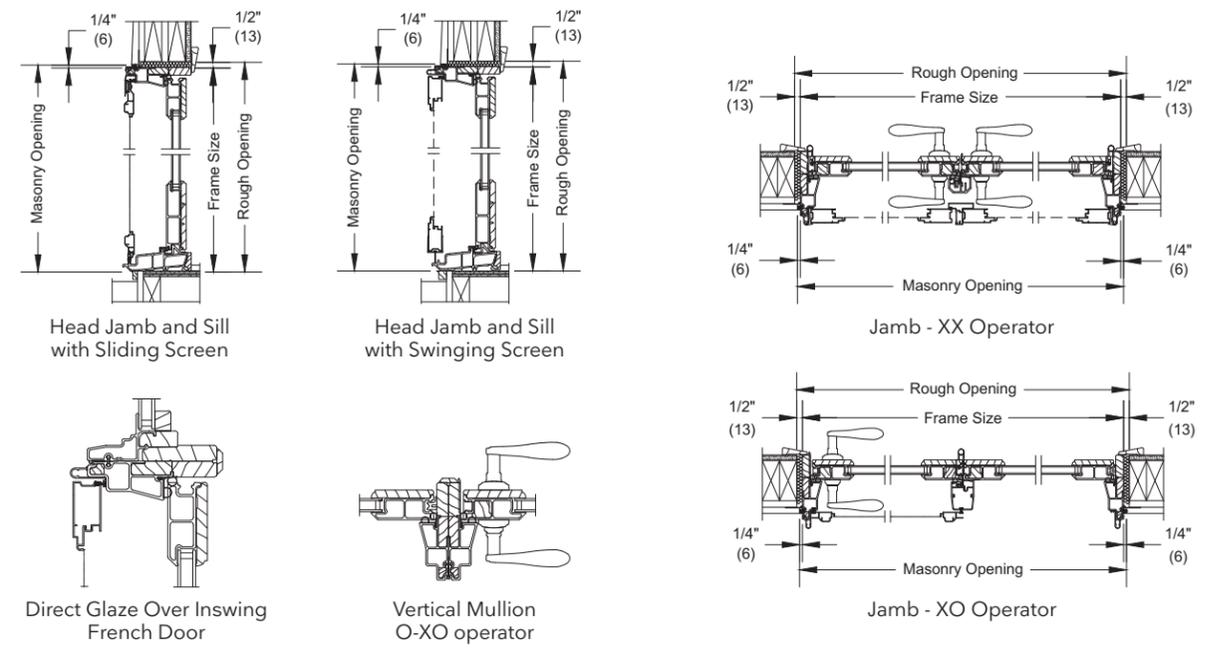
MO (mm)	8-11 13/16 (2738)	8-11 13/16 (2738)	9-1 7/16 (2780)	8-11 13/16 (2738)
RO (mm)	9-0 5/16 (2751)	9-0 5/16 (2751)	9-1 15/16 (2792)	9-0 5/16 (2751)
FS (mm)	8-11 5/16 (2726)	8-11 5/16 (2726)	9-0 15/16 (2767)	8-11 5/16 (2726)

MO (mm)	7-5 13/16 (2281)	7-5 13/16 (2281)	7-7 7/16 (2323)	7-5 13/16 (2281)
RO (mm)	7-6 5/16 (2294)	7-6 5/16 (2294)	7-7 15/16 (2335)	7-6 5/16 (2294)
FS (mm)	7-5 5/16 (2269)	7-5 5/16 (2269)	7-6 15/16 (2310)	7-5 5/16 (2269)

MO (mm)	8-11 13/16 (2738)	8-11 13/16 (2738)	9-1 7/16 (2780)	8-11 13/16 (2738)
RO (mm)	9-0 5/16 (2751)	9-0 5/16 (2751)	9-1 15/16 (2792)	9-0 5/16 (2751)
FS (mm)	8-11 5/16 (2726)	8-11 5/16 (2726)	9-0 15/16 (2767)	8-11 5/16 (2726)

Details and Elevations not to scale.
 *This product is only available field mullied.
 O = Stationary X = Operator
 Optional Direct Glaze GBGs, SDLs and SDLs with Spacer Bar are available in a standard rectangular cut, as shown. Alternate lite cuts available to align with doors using select lite cut options shown on page 3.
 For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

Construction Details



Round Top Over Inswing French Door

MO (mm)	5-11 1/2 (1816)
RO (mm)	6-0 (1829)
FS (mm)	5-11 (1803)

MO (mm)	8-4 1/4 (2546)
RO (mm)	8-4 1/2 (2553)
FS (mm)	8-4 (2540)

MO (mm)	9-9 3/4 (2991)
RO (mm)	9-10 (2997)
FS (mm)	9-9 1/2 (2985)

MO (mm)	5-11 1/2 (1816)
RO (mm)	6-0 (1829)
FS (mm)	5-11 (1803)

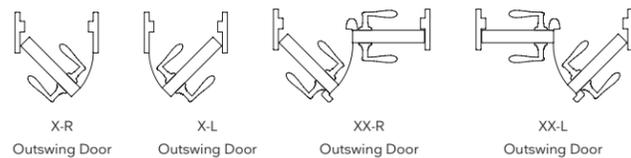
MULTIPLE ASSEMBLIES
 Multiple assemblies can be factory mullied.
MAXIMUM ROUGH OPENING not to exceed 109 15/16" x 96" maximum up to 3 units wide by 1 unit high.
MAXIMUM ROUGH OPENING not to exceed 73 5/8" x 100 1/2" maximum up to 2 units wide by 2 unit high.
 Field mull kits available not to exceed 110" x 112". True Half Rounds are available field mullied only. Structural mullion reinforcement is required for some assemblies.
 Please consult your local Marvin representative for more information.

Outswing French Door G3

MO (mm)	2-6 13/16 (783)			2-8 13/16 (834)			3-0 13/16 (935)		
RO (mm)	2-7 5/16 (796)			2-9 5/16 (846)			3-1 5/16 (948)		
FS (mm)	2-6 5/16 (770)			2-8 5/16 (821)			3-0 5/16 (923)		
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)									
ELOFD2665 O	ELOFD2665 XR	ELOFD2665 XL	ELOFD2865 O	ELOFD2865 XR	ELOFD2865 XL	ELOFD3065 O	ELOFD3065 XR	ELOFD3065 XL	
6-10 1/4 (2089) 6-10 1/2 (2096) 6-10 (2083) 5-9 19/32 (1768)									
ELOFD2668 O	ELOFD2668 XR	ELOFD2668 XL	ELOFD2868 O	ELOFD2868 XR	ELOFD2868 XL	ELOFD3068 O	ELOFD3068 XR	ELOFD3068 XL	
7-2 1/4 (2191) 7-2 1/2 (2197) 7-2 (2184) 6-1 19/32 (1869)									
ELOFD2670 O	ELOFD2670 XR	ELOFD2670 XL	ELOFD2870 O	ELOFD2870 XR	ELOFD2870 XL	ELOFD3070 O	ELOFD3070 XR	ELOFD3070 XL	
7-11 3/4 (2432) 8-0 (2438) 7-11 1/2 (2426) 6-11 3/32 (2111)									
ELOFD2680 O	ELOFD2680 XR	ELOFD2680 XL	ELOFD2880 O	ELOFD2880 XR	ELOFD2880 XL	ELOFD3080 O	ELOFD3080 XR	ELOFD3080 XL	

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.



Additional width on one-panel ELOFDG3

32NCO	Masonry Opening		Rough Opening		Frame Size		Daylight Opening	
	ft - in	mm	ft - in	mm	ft - in	mm	ft - in	mm
	3-0 13/16	(946)	3-1 47/64	(959)	3-0 47/64	(933)	2-3 49/64	(705)

32NCO width is available to accommodate accessibility requirements and must be entered as a special size.

Details and Elevations not to scale.
 O = Stationary X = Operator
 L = Left Hand Panel R = Right Hand Panel
 Optional Outswing French Door GBGs, SDLs and SDLs with Spacer Bar are available in a standard Rectangular cut, as shown. Other available lite cuts on page 3.
 For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

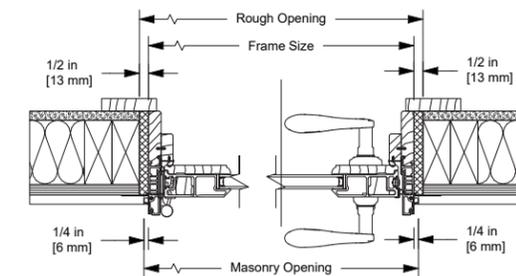
Outswing French Door G3

MO (mm)	4-11 3/4 (1518)			5-3 3/4 (1619)			5-11 3/4 (1822)		
RO (mm)	5-0 1/4 (1530)			5-4 1/4 (1632)			6-0 1/4 (1835)		
FS (mm)	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)		
6-7 3/4 (2026) 6-8 (2032) 6-7 1/2 (2019) 5-7 3/32 (1704)									
ELOFD5065 XXL	ELOFD5465 XXL	ELOFD6065 XXL	ELOFD5065 XXL	ELOFD5465 XXL	ELOFD6065 XXL	ELOFD2665 / ELOFD2665*	ELOFD3065 / ELOFD3065*		
6-10 1/4 (2089) 6-10 1/2 (2096) 6-10 (2083) 5-9 19/32 (1768)									
ELOFD5068 XXL	ELOFD5468 XXL	ELOFD6068 XXL	ELOFD5068 XXL	ELOFD5468 XXL	ELOFD6068 XXL	ELOFD2668 / ELOFD2668*	ELOFD3068 / ELOFD3068*		
7-2 1/4 (2191) 7-2 1/2 (2197) 7-2 (2184) 6-1 19/32 (1869)									
ELOFD5070 XXL	ELOFD5470 XXL	ELOFD6070 XXL	ELOFD5070 XXL	ELOFD5470 XXL	ELOFD6070 XXL	ELOFD2680 / ELOFD2680*	ELOFD3080 / ELOFD3080*		
7-11 3/4 (2432) 8-0 (2438) 7-11 1/2 (2426) 6-11 3/32 (2111)									
ELOFD5080 XXL	ELOFD5480 XXL	ELOFD6080 XXL	ELOFD5080 XXL	ELOFD5480 XXL	ELOFD6080 XXL	ELOFD2680 / ELOFD2680*	ELOFD3080 / ELOFD3080*		

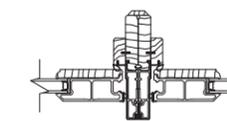
Multiple Assemblies - 2 Panel

MO (mm)	5-1 1/8 (1553)		6-1 1/8 (1857)	
RO (mm)	5-1 5/8 (1565)		6-1 5/8 (1870)	
FS (mm)	5-0 5/8 (1540)		6-0 5/8 (1845)	
6-7 3/4 (2026) 6-8 (2032) 6-7 1/2 (2019)				
ELOFD2665 / ELOFD2665*	ELOFD3065 / ELOFD3065*	ELOFD2665 / ELOFD2665*	ELOFD3065 / ELOFD3065*	
6-10 1/4 (2089) 6-10 1/2 (2096) 6-10 (2083)				
ELOFD2668 / ELOFD2668*	ELOFD3068 / ELOFD3068*	ELOFD2668 / ELOFD2668*	ELOFD3068 / ELOFD3068*	
7-11 3/4 (2432) 8-0 (2438) 7-11 1/2 (2426)				
ELOFD2680 / ELOFD2680*	ELOFD3080 / ELOFD3080*	ELOFD2680 / ELOFD2680*	ELOFD3080 / ELOFD3080*	

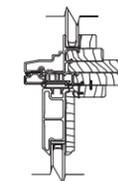
Construction Details



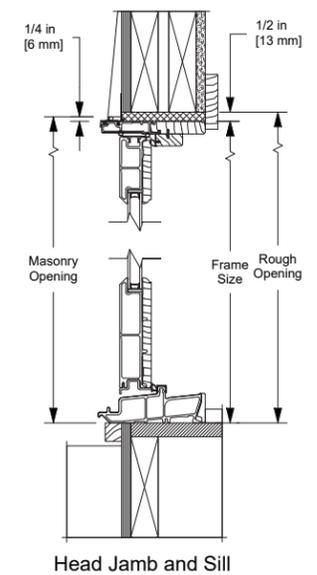
Side Jamb XR Operator



Vertical Mullion Door to Door



Horizontal Mullion Direct Glaze Over Door



Head Jamb and Sill

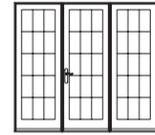
* 2 panel mullied assembly

Outswing French Door G3

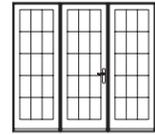
Multiple Assemblies - 3 Panel

MO (mm)	7-7 7/16 (2323)	7-7 7/16 (2323)	7-7 7/16 (2323)	7-5 13/16 (2281)
RO (mm)	7-7 15/16 (2335)	7-7 15/16 (2335)	7-7 15/16 (2335)	7-6 5/16 (2294)
FS (mm)	7-6 15/16 (2310)	7-6 15/16 (2310)	7-6 15/16 (2310)	7-5 5/16 (2269)

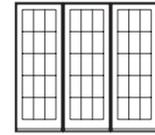
6-10 1/4 (2089)
6-10 1/2 (2096)
6-10 (2083)



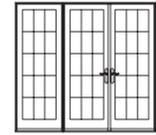
ELOFD2668 / ELOFD2668 XL / ELOFD2668



ELOFD2668 / ELOFD2668 XR / ELOFD2668



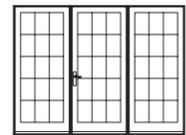
ELOFD2668 / ELOFD2668 / ELOFD2668



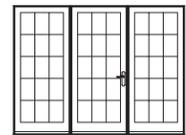
ELOFD2668 / ELOFD5068 XXL*

MO (mm)	9-1 7/16 (2780)	9-1 7/16 (2780)	9-1 7/16 (2780)	8-11 13/16 (2738)
RO (mm)	9-1 15/16 (2792)	9-1 15/16 (2792)	9-1 15/16 (2792)	9-0 5/16 (2751)
FS (mm)	9-0 15/16 (2767)	9-0 15/16 (2767)	9-0 15/16 (2767)	8-11 5/16 (2726)

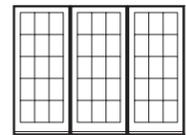
6-10 1/4 (2089)
6-10 1/2 (2096)
6-10 (2083)



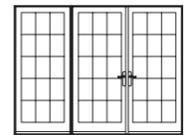
ELOFD3068 / ELOFD3068 XL / ELOFD3068



ELOFD3068 / ELOFD3068 XR / ELOFD3068



ELOFD3068 / ELOFD3068 / ELOFD3068

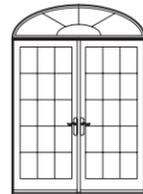


ELOFD3068 / ELOFD6068 XXL*

Round Top Over Outswing French Door G3

MO (mm)	5-11 1/2 (1816)
RO (mm)	6-0 (1829)
FS (mm)	5-11 (1803)

8-4 1/4 (2546)
8-4 1/2 (2553)
8-4 (2540)



ELDGR7218 / ELOFDG36068 XXL

9-9 3/4 (2991)
9-10 (2997)
9-9 1/2 (2985)



ELDGR7236** / ELOFDG36068 XXL

Details and Elevations not to scale.

O = Stationary X = Operator
L = Left Hand Panel R = Right Hand Panel

*2 and 3 panel XX configurations also available in XX R.

**This product is only available field mullied.

Optional Direct Glaze GBGs, SDLs and SDLs with Spacer Bar are available in a standard Rectangular cut, as shown. Alternate lite cuts available to align with doors using select lite cut options shown on page 3.

Optional Round Top SDL with Spacer Bar are available in a standard cut, as shown.

Round Top GBG cuts are shown on page 35. (Round Top divided lites only available in standard lite cut)

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

MULTIPLE ASSEMBLIES

MAXIMUM ROUGH OPENING not to exceed 109 15/16" x 96" maximum up to 3 units wide by 1 unit high.

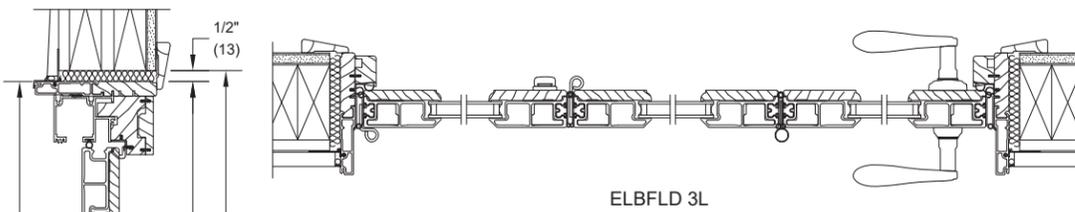
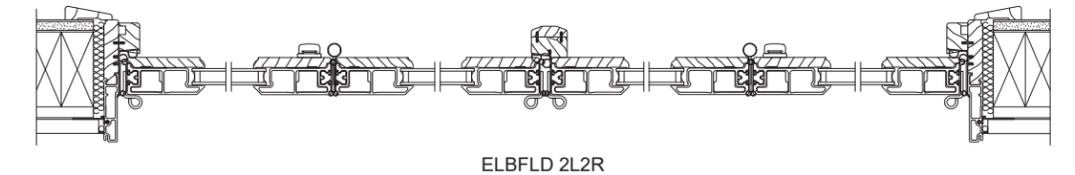
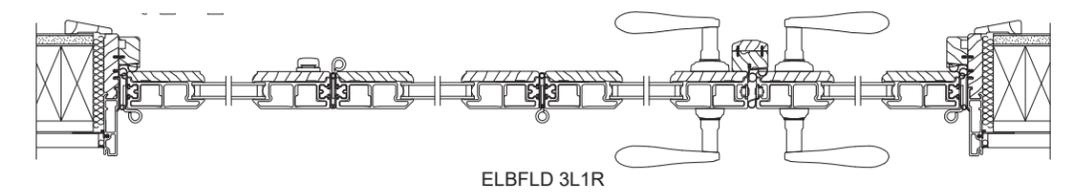
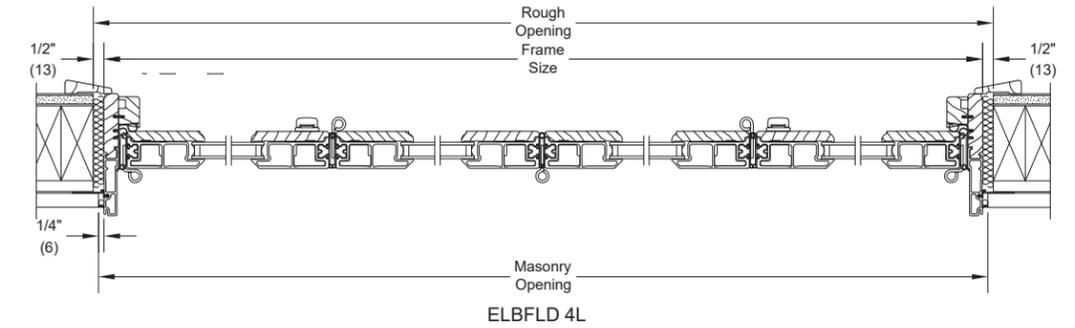
MAXIMUM ROUGH OPENING not to exceed 73 5/8" x 100 1/2" maximum up to 2 units wide by 2 unit high.

Field mull kits available not to exceed 110" x 112". True Half Rounds are available field mullied only. Structural mullion reinforcement is required for some assemblies.

Please consult your local Marvin representative for more information.

Bi-Fold Door

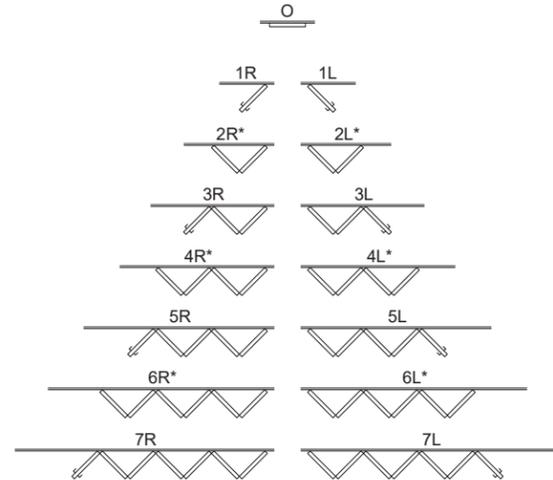
Construction Details



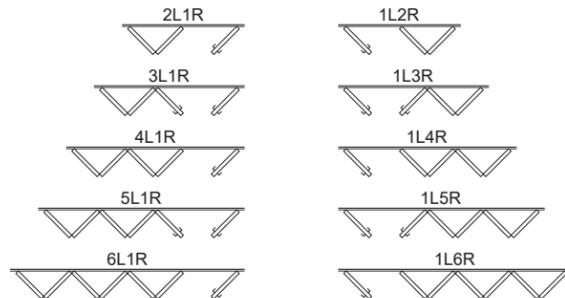
Bi-Fold Door

Configurations

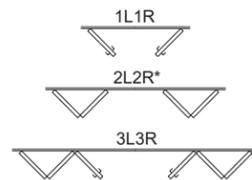
Stationary Unit



Uni-directional Left or Right Units



Bi-parting (equal) Units



*not accessible from exterior

Certified Mulling Offerings

Product Type	Mull Kit	Maximum Overall Frame Size not to exceed:	Maximum Units Wide by High	PG Rating	Continuous Span Direction
Casement / Awning Picture/Transom/Direct Glaze	Certified Standard	112" x 71-1/8"	7 Wide x 1 High	50	Vertical
		72" x 94-1/4"	1 Wide x 5 High	50	Horizontal
	Structural (LVL Reinforcement)	84" x 94-1/4"	4 Wide x 5 High	50	Horizontal
Double Hung Picture/Transom/Direct Glaze	Certified Standard	112-1/2" x 67-3/4"	5 Wide x 1 High	40	Vertical
		61-1/2" x 91-1/2"	1 Wide x 5 High	40	Horizontal
	1/2" MRF	112-1/2" x 75-3/4"	5 Wide x 1 High	40	Vertical
		107-1/2" x 83-3/4"	5 Wide x 1 High	40	Vertical
		61-1/2" x 91-1/2"	1 Wide x 5 High	40	Vertical
		83" x 91-1/2"	3 Wide x 5 High	40	Vertical
Glider Picture/Transom/Direct Glaze	Certified Standard	112-1/2" x 67-3/4"	5 Wide x 1 High	30	Vertical
		112-1/2" x 75-3/4"	5 Wide x 1 High	30	Vertical
	1/2" MRF	107-1/2" x 83-3/4"	5 Wide x 1 High	30	Vertical
Sliding Patio Door / Sliding French Door Direct Glaze	Certified Standard	71" x 100"	1 Wide x 2 High	40	Horizontal
	1/2" MRF	71" x 100"	1 Wide x 2 High	40	Horizontal
Inswing French Door / Outswing Sliding French Door Direct Glaze	Certified Standard	71" x 100"	1 Wide x 2 High	30	Horizontal
	Certified Standard*	107-5/16" x 95-1/2"	3 Wide x 1 High	30	Vertical
	1/2" MRF	71" x 100"	1 Wide x 2 High	30	Horizontal
	1/2" MRF	72-5/8" x 100"	2 Wide x 2 High	30	Horizontal
Aluminum Round Top over Casement/Awning/ Picture/Transom/Direct Glaze	Structural (LVL Reinforcement)	72" x 107-1/16"	1 Wide x 2 High	50	Horizontal
	Structural (LVL Reinforcement)	72" x 107-1/16"	3 Wide x 2 High	50	Horizontal
Aluminum Round Top over Double Hung/Picture/ Transom/Direct Glaze	1/2" MRF** (Single RT)	83" x 107-1/16"	3 Wide x 2 High	50	Horizontal
	1/2" MRF** (RT7 & RT8)	71" x 107-1/16"	2 Wide x 2 High	50	Horizontal

* Direct Glaze is not included in this certified mull configuration option

** Maximum lower unit height is 67-3/4" (CN68)

Certified mulling not available on narrow frame or insert product.

Egress Openings

Casement

EGRESS OPENING												
Unit #	Egress Width		Egress Height		Egress Clear Opening		Floor to Clear Opening		Vent Opening		DLO	
	Inches	(mm)	Inches	(mm)	Sq. Ft.	(cm ²)	Inches	(mm)	Sq. Ft.	(cm ²)	Sq. Ft.	(cm ²)
1731	7 15/64	(184)	26 45/64	(678)	1.34	(1248)	53 15/64	(1352)	2.20	(2046)	1.94	(1804)
1735	7 15/64	(184)	30 45/64	(780)	1.54	(1435)	49 15/64	(1250)	2.53	(2352)	2.24	(2082)
1739	7 15/64	(184)	34 45/64	(882)	1.75	(1622)	45 15/64	(1149)	2.86	(2659)	2.54	(2361)
1743	7 15/64	(184)	38 53/64	(986)	1.95	(1814)	41 7/64	(1044)	3.2	(2975)	2.85	(2648)
1747	7 15/64	(184)	42 45/64	(1085)	2.15	(1995)	37 15/64	(946)	3.52	(3271)	3.14	(2917)
1755	7 15/64	(184)	50 45/64	(1288)	2.55	(2369)	29 15/64	(742)	4.18	(3884)	3.74	(3474)
1759	7 15/64	(184)	54 45/64	(1390)	2.75	(2556)	25 15/64	(641)	4.51	(4191)	4.04	(3753)
1763	7 15/64	(184)	58 45/64	(1491)	2.95	(2743)	21 15/64	(539)	4.84	(4497)	4.34	(4031)
1771	T 7 15/64	(184)	66 45/64	(1694)	3.35	(3117)	13 15/64	(336)	5.50	(5110)	4.94	(4588)
2131	11 15/64	(286)	26 45/64	(678)	2.08	(1937)	53 15/64	(1352)	2.94	(2735)	2.66	(2473)
2135	11 15/64	(286)	30 45/64	(780)	2.4	(2227)	49 15/64	(1250)	3.38	(3145)	3.07	(2854)
2139	11 15/64	(286)	34 45/64	(882)	2.71	(2517)	45 15/64	(1149)	3.83	(3554)	3.48	(3236)
2143	11 15/64	(286)	38 53/64	(986)	3.03	(2816)	41 7/64	(1044)	4.28	(3977)	3.91	(3629)
2147	11 15/64	(286)	42 45/64	(1085)	3.33	(3097)	37 15/64	(946)	4.71	(4374)	4.30	(3999)
2155	11 15/64	(286)	50 45/64	(1288)	3.96	(3678)	29 15/64	(742)	5.59	(5193)	5.13	(4762)
2159	11 15/64	(286)	54 45/64	(1390)	4.27	(3968)	25 15/64	(641)	6.03	(5602)	5.54	(5144)
2163	11 15/64	(286)	58 45/64	(1491)	4.58	(4258)	21 15/64	(539)	6.47	(6012)	5.95	(5526)
2171	T 11 15/64	(286)	66 45/64	(1694)	5.21	(4838)	13 15/64	(336)	7.35	(6831)	6.77	(6289)
2531	15 15/64	(387)	26 45/64	(678)	2.83	(2626)	53 15/64	(1352)	3.69	(3424)	3.38	(3141)
2535	15 15/64	(387)	30 45/64	(780)	3.25	(3019)	49 15/64	(1250)	4.24	(3937)	3.90	(3626)
2539	15 15/64	(387)	34 45/64	(882)	3.67	(3413)	45 15/64	(1149)	4.79	(4450)	4.43	(4111)
2543	15 15/64	(387)	38 53/64	(986)	4.11	(3818)	41 7/64	(1044)	5.36	(4979)	4.96	(4611)
2547	15 15/64	(387)	42 45/64	(1085)	4.52	(4199)	37 15/64	(946)	5.89	(5476)	5.47	(5081)
2555	15 15/64	(387)	50 45/64	(1288)	5.37	(4986)	29 15/64	(742)	7.00	(6501)	6.51	(6051)
2559	15 15/64	(387)	54 45/64	(1390)	5.79	(5379)	25 15/64	(641)	7.55	(7014)	7.03	(6535)
2563	15 15/64	(387)	58 45/64	(1491)	6.21	(5773)	21 15/64	(539)	8.10	(7527)	7.56	(7020)
2571	T 15 15/64	(387)	66 45/64	(1694)	7.06	(6559)	13 15/64	(336)	9.21	(8553)	8.60	(7990)
2931	21 55/64	(555)	26 45/64	(678)	4.06	(3767)	53 15/64	(1352)	4.43	(4113)	4.10	(3810)
2935	21 55/64	(555)	30 45/64	(780)	4.66	(4332)	49 15/64	(1250)	5.09	(4729)	4.73	(4398)
2939	21 55/64	(555)	34 45/64	(882)	5.27	(4896)	45 15/64	(1149)	5.75	(5345)	5.37	(4986)
2943	E 21 55/64	(555)	38 53/64	(986)	5.9	(5478)	41 7/64	(1044)	6.44	(5981)	6.02	(5593)
2947	E 21 55/64	(555)	42 45/64	(1085)	6.48	(6025)	37 15/64	(946)	7.08	(6578)	6.63	(6162)
2955	E 21 55/64	(555)	50 45/64	(1288)	7.7	(7153)	29 15/64	(742)	8.41	(7810)	7.90	(7339)
2959	E 21 55/64	(555)	54 45/64	(1390)	8.31	(7718)	25 15/64	(641)	9.07	(8426)	8.53	(7927)
2963	E 21 55/64	(555)	58 45/64	(1491)	8.91	(8282)	21 15/64	(539)	9.73	(9042)	9.17	(8515)
2971	E T 21 55/64	(555)	66 45/64	(1694)	10.13	(9411)	13 15/64	(336)	11.06	(10274)	10.43	(9691)
3331	23 15/64	(590)	26 45/64	(678)	4.31	(4004)	53 15/64	(1352)	5.17	(4802)	4.82	(4479)
3335	23 15/64	(590)	30 45/64	(780)	4.96	(4604)	49 15/64	(1250)	5.94	(5522)	5.57	(5170)
3339	23 15/64	(590)	34 45/64	(882)	5.60	(5204)	45 15/64	(1149)	6.72	(6241)	6.31	(5861)
3343	E 23 15/64	(590)	38 53/64	(986)	6.27	(5822)	41 7/64	(1044)	7.52	(6983)	7.08	(6574)
3347	E 23 15/64	(590)	42 45/64	(1085)	6.89	(6404)	37 15/64	(946)	8.27	(7680)	7.80	(7244)
3355	E 23 15/64	(590)	50 45/64	(1288)	8.18	(7603)	29 15/64	(742)	9.81	(9118)	9.29	(8627)
3359	E 23 15/64	(590)	54 45/64	(1390)	8.83	(8203)	25 15/64	(641)	10.59	(9838)	10.03	(9318)
3363	E 23 15/64	(590)	58 45/64	(1491)	9.48	(8803)	21 15/64	(539)	11.36	(10557)	10.77	(10009)
3371	E T 23 15/64	(590)	66 45/64	(1694)	10.77	(10002)	13 15/64	(336)	12.91	(11996)	12.26	(11392)
3731	27 15/64	(692)	26 45/64	(678)	5.05	(4694)	53 15/64	(1352)	5.91	(5492)	5.54	(5148)
3735	E* 27 15/64	(692)	30 45/64	(780)	5.81	(5397)	49 15/64	(1250)	6.80	(6314)	6.40	(5942)
3739	E* 27 15/64	(692)	34 45/64	(882)	6.57	(6100)	45 15/64	(1149)	7.68	(7137)	7.25	(6737)
3743	E 27 15/64	(692)	38 53/64	(986)	7.35	(6825)	41 7/64	(1044)	8.59	(7985)	8.13	(7556)
3747	E 27 15/64	(692)	42 45/64	(1085)	8.08	(7506)	37 15/64	(946)	9.45	(8782)	8.96	(8326)
3755	E 27 15/64	(692)	50 45/64	(1288)	9.59	(8912)	29 15/64	(742)	11.22	(10427)	10.67	(9915)
3759	E 27 15/64	(692)	54 45/64	(1390)	10.35	(9615)	25 15/64	(641)	12.11	(11249)	11.53	(10709)
3763	E 27 15/64	(692)	58 45/64	(1491)	11.11	(10318)	21 15/64	(539)	12.99	(12072)	12.38	(11504)
3771	E T 27 15/64	(692)	66 45/64	(1694)	12.62	(11724)	13 15/64	(336)	14.76	(13717)	14.09	(13093)

Egress Openings

Awning

VENT OPENING				
Unit #	Vent		DLO	
	Sq. Ft.	(cm ²)	Sq. Ft.	(cm ²)
2519	2.05	(1901)	1.82	(1687)
2523	2.60	(2414)	2.34	(2172)
2527	3.15	(2927)	2.86	(2656)
2535	4.25	(3953)	3.90	(3626)
2539	4.81	(4466)	4.43	(4111)
2547	5.91	(5492)	5.47	(5081)
2919	2.46	(2284)	2.20	(2046)
2923	3.12	(2900)	2.84	(2634)
2927	3.79	(3516)	3.47	(3222)
2935	5.11	(4749)	4.73	(4398)
2939	5.77	(5365)	5.37	(4986)
2947	7.10	(6597)	6.63	(6162)
3319	2.87	(2667)	2.59	(2405)
3323	3.64	(3386)	3.33	(3096)
3327	4.42	(4106)	4.08	(3787)
3335	5.97	(5544)	5.57	(5170)
3339	6.74	(6264)	6.31	(5861)
3347	8.29	(7702)	7.80	(7244)

E = These units meet National Egress Codes requiring 5.7 SF clear opening, 20" clear width, and 24" clear height, not to exceed a floor to sill height of 44". Code restrictions may vary depending on local building codes.
Units with Sash Limiter do not meet egress requirements.

Awning

VENT OPENING				
Unit #	Vent		DLO	
	Sq. Ft.	(cm ²)	Sq. Ft.	(cm ²)
3719	3.28	(3050)	2.97	(2764)
3723	4.17	(3872)	3.83	(3558)
3727	5.05	(4695)	4.69	(4353)
3735	6.82	(6340)	6.40	(5942)
3739	7.71	(7162)	7.25	(6737)
3747	9.48	(8807)	8.96	(8326)
4119	3.69	(3432)	3.36	(3123)
4123	4.69	(4358)	4.33	(4021)
4127	5.69	(5284)	5.29	(4918)
4135	7.68	(7135)	7.23	(6714)
4139	8.68	(8061)	8.19	(7612)
4147	10.67	(9913)	10.13	(9407)
4919	4.52	(4198)	4.13	(3841)
4923	5.74	(5330)	5.32	(4945)
4927	6.96	(6462)	6.51	(6050)
4935	9.39	(8727)	8.89	(8258)
4939	10.61	(9859)	10.08	(9362)
4947	13.05	(12123)	12.45	(11571)

* 3735 and 3739 meet Egress if installed at proper height from floor.
T = Standard Tempered. Please verify critical product data in Marvin Order Management System (OMS) quotes and at the time of ordering.

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.

Egress Openings

Double Hung

EGRESS OPENING												
Unit #	Egress Width		Egress Height		Egress Clear Opening		Floor To Clear Opening		Vent		DLO	
	Inches	(mm)	Inches	(mm)	Sq. Ft.	(cm ²)	Inches	(mm)	Sq. Ft.	(cm ²)	Sq. Ft.	(cm ²)
2236	18 3/8	(467)	12 31/32	(329)	1.65	(1537)	48 47/64	(1238)	1.65	(1537)	2.98	(2771)
2240	18 3/8	(467)	14 31/32	(380)	1.91	(1774)	44 47/64	(1136)	1.91	(1774)	3.42	(3176)
2244	18 3/8	(467)	16 31/32	(431)	2.17	(2012)	40 47/64	(1035)	2.17	(2012)	3.85	(3581)
2248	18 3/8	(467)	18 31/32	(482)	2.42	(2249)	36 47/64	(933)	2.42	(2249)	4.29	(3985)
2252	18 3/8	(467)	20 31/32	(533)	2.68	(2486)	32 47/64	(831)	2.68	(2486)	4.73	(4390)
2256	18 3/8	(467)	22 31/32	(583)	2.93	(2723)	28 47/64	(730)	2.93	(2723)	5.16	(4795)
2260	18 3/8	(467)	24 31/32	(634)	3.19	(2960)	24 47/64	(628)	3.19	(2960)	5.60	(5200)
2264	18 3/8	(467)	26 31/32	(685)	3.44	(3197)	20 47/64	(527)	3.44	(3197)	6.03	(14575)
2268	18 3/8	(467)	28 31/32	(736)	3.70	(3434)	16 47/64	(425)	3.70	(3434)	6.47	(6010)
2272	18 3/8	(467)	30 31/32	(787)	3.95	(3671)	12 47/64	(323)	3.95	(3671)	6.90	(6414)
2276	18 3/8	(467)	32 31/32	(837)	4.21	(3908)	8 47/64	(222)	4.21	(3908)	7.34	(6819)
2636	22 3/8	(568)	12 31/32	(329)	2.02	(1872)	48 47/64	(1238)	2.02	(1872)	3.74	(3477)
2640	22 3/8	(568)	14 31/32	(380)	2.33	(2161)	44 47/64	(1136)	2.33	(2161)	4.29	(3985)
2644	22 3/8	(568)	16 31/32	(431)	2.64	(2450)	40 47/64	(1035)	2.64	(2450)	4.84	(4493)
2648	22 3/8	(568)	18 31/32	(482)	2.95	(2738)	36 47/64	(933)	2.95	(2738)	5.38	(5002)
2652	22 3/8	(568)	20 31/32	(533)	3.26	(3027)	32 47/64	(831)	3.26	(3027)	5.93	(5510)
2656	22 3/8	(568)	22 31/32	(583)	3.57	(3316)	28 47/64	(730)	3.57	(3316)	6.48	(6018)
2660	22 3/8	(568)	24 31/32	(634)	3.88	(3604)	24 47/64	(628)	3.88	(3604)	7.02	(6526)
2664	22 3/8	(568)	26 31/32	(685)	4.19	(3893)	20 47/64	(527)	4.19	(3893)	7.57	(7034)
2668	22 3/8	(568)	28 31/32	(736)	4.50	(4182)	16 47/64	(425)	4.50	(4182)	8.12	(7542)
2672	22 3/8	(568)	30 31/32	(787)	4.81	(4470)	12 47/64	(323)	4.81	(4470)	8.66	(8050)
2676	22 3/8	(568)	32 31/32	(837)	5.12	(4759)	8 47/64	(222)	5.12	(4759)	9.21	(8558)
3036	26 3/8	(670)	12 31/32	(329)	2.38	(2207)	48 47/64	(1238)	2.38	(2207)	4.50	(4184)
3040	26 3/8	(670)	14 31/32	(380)	2.74	(2547)	44 47/64	(1136)	2.74	(2547)	5.16	(4795)
3044	26 3/8	(670)	16 31/32	(431)	3.11	(2887)	40 47/64	(1035)	3.11	(2887)	5.82	(5406)
3048	26 3/8	(670)	18 31/32	(482)	3.47	(3228)	36 47/64	(933)	3.47	(3228)	6.48	(6018)
3052	26 3/8	(670)	20 31/32	(533)	3.84	(3568)	32 47/64	(831)	3.84	(3568)	7.14	(6629)
3056	26 3/8	(670)	22 31/32	(583)	4.21	(3908)	28 47/64	(730)	4.21	(3908)	7.79	(7240)
3060	26 3/8	(670)	24 31/32	(634)	4.57	(4249)	24 47/64	(628)	4.57	(4249)	8.45	(7852)
3064	26 3/8	(670)	26 31/32	(685)	4.94	(4589)	20 47/64	(527)	4.94	(4589)	9.11	(8463)
3068	26 3/8	(670)	28 31/32	(736)	5.31	(4929)	16 47/64	(425)	5.31	(4929)	9.77	(9074)
3072	26 3/8	(670)	30 31/32	(787)	5.67	(5269)	12 47/64	(323)	5.67	(5269)	10.43	(9685)
3076	E 26 3/8	(670)	32 31/32	(837)	6.04	(5610)	8 47/64	(222)	6.04	(5610)	11.08	(10297)
3236	28 3/8	(721)	12 31/32	(329)	2.56	(2374)	48 47/64	(1238)	2.56	(2374)	4.88	(4537)
3240	28 3/8	(721)	14 31/32	(380)	2.95	(2740)	44 47/64	(1136)	2.95	(2740)	5.60	(5200)
3244	28 3/8	(721)	16 31/32	(431)	3.34	(3106)	40 47/64	(1035)	3.34	(3106)	6.31	(5863)
3248	28 3/8	(721)	18 31/32	(482)	3.74	(3473)	36 47/64	(933)	3.74	(3473)	7.02	(6526)
3252	28 3/8	(721)	20 31/32	(533)	4.13	(3839)	32 47/64	(831)	4.13	(3839)	7.74	(7189)
3256	28 3/8	(721)	22 31/32	(583)	4.53	(4205)	28 47/64	(730)	4.53	(4205)	8.45	(7852)
3260	28 3/8	(721)	24 31/32	(634)	4.92	(4571)	24 47/64	(628)	4.92	(4571)	9.16	(8514)
3264	28 3/8	(721)	26 31/32	(685)	5.31	(4937)	20 47/64	(527)	5.31	(4937)	9.88	(9177)
3268	E 28 3/8	(721)	28 31/32	(736)	5.71	(5303)	16 47/64	(425)	5.71	(5303)	10.59	(9840)
3272	E 28 3/8	(721)	30 31/32	(787)	6.10	(5669)	12 47/64	(323)	6.10	(5669)	11.31	(10503)
3276	E 28 3/8	(721)	32 31/32	(837)	6.50	(6035)	8 47/64	(222)	6.50	(6035)	12.02	(11166)

Egress Openings

Double Hung (Continued)

EGRESS OPENING												
Unit #	Egress Width		Egress Height		Egress Clear Opening		Floor To Clear Opening		Vent		DLO	
	Inches	(mm)	Inches	(mm)	Sq. Ft.	(cm ²)	Inches	(mm)	Sq. Ft.	(cm ²)	Sq. Ft.	(cm ²)
3436	30 3/8	(771)	12 31/32	(329)	2.74	(2542)	48 47/64	(1238)	2.74	(2542)	5.26	(4890)
3440	30 3/8	(771)	14 31/32	(380)	3.16	(2934)	44 47/64	(1136)	3.16	(2934)	6.03	(5605)
3444	30 3/8	(771)	16 31/32	(431)	3.58	(3325)	40 47/64	(1035)	3.58	(3325)	6.80	(6319)
3448	30 3/8	(771)	18 31/32	(482)	4.00	(3717)	36 47/64	(933)	4.00	(3717)	7.57	(7034)
3452	30 3/8	(771)	20 31/32	(533)	4.42	(4109)	32 47/64	(831)	4.42	(4109)	8.34	(7748)
3456	30 3/8	(771)	22 31/32	(583)	4.84	(4501)	28 47/64	(730)	4.84	(4501)	9.11	(8463)
3460	30 3/8	(771)	24 31/32	(634)	5.27	(4893)	24 47/64	(628)	5.27	(4893)	9.88	(9177)
3464	30 3/8	(771)	26 31/32	(685)	5.69	(5285)	20 47/64	(527)	5.69	(5285)	10.65	(9892)
3468	E 30 3/8	(771)	28 31/32	(736)	6.11	(5677)	16 47/64	(425)	6.11	(5677)	11.42	(10606)
3472	E 30 3/8	(771)	30 31/32	(787)	6.53	(6069)	12 47/64	(323)	6.53	(6069)	12.19	(11321)
3476	E 30 3/8	(771)	32 31/32	(837)	6.95	(6461)	8 47/64	(222)	6.95	(6461)	12.95	(12036)
3636	32 3/8	(822)	12 31/32	(329)	2.92	(2709)	48 47/64	(1238)	2.92	(2709)	5.64	(5243)
3640	32 3/8	(822)	14 31/32	(380)	3.37	(3127)	44 47/64	(1136)	3.37	(3127)	6.47	(6010)
3644	32 3/8	(822)	16 31/32	(431)	3.82	(3544)	40 47/64	(1035)	3.82	(3544)	7.29	(6776)
3648	32 3/8	(822)	18 31/32	(482)	4.26	(3962)	36 47/64	(933)	4.26	(3962)	8.12	(7542)
3652	32 3/8	(822)	20 31/32	(533)	4.71	(4380)	32 47/64	(831)	4.71	(4380)	8.94	(8308)
3656	32 3/8	(822)	22 31/32	(583)	5.16	(4798)	28 47/64	(730)	5.16	(4798)	9.77	(9074)
3660	E 32 3/8	(822)	25 49/64	(655)	5.79	(5382)	24 47/64	(628)	5.79	(5382)	10.59	(9840)
3664	E 32 3/8	(822)	26 31/32	(685)	6.06	(5633)	20 47/64	(527)	6.06	(5633)	11.42	(10606)
3668	E 32 3/8	(822)	28 31/32	(736)	6.51	(6051)	16 47/64	(425)	6.51	(6051)	12.24	(11373)
3672	E 32 3/8	(822)	30 31/32	(787)	6.96	(6468)	12 47/64	(323)	6.96	(6468)	13.07	(12139)
3676	E 32 3/8	(822)	32 31/32	(837)	7.41	(6886)	8 47/64	(222)	7.41	(6886)	13.89	(12905)
3836	34 3/8	(873)	12 31/32	(329)	3.10	(2876)	48 47/64	(1238)	3.10	(2876)	6.02	(5597)
3840	34 3/8	(873)	14 31/32	(380)	3.57	(3320)	44 47/64	(1136)	3.57	(3320)	6.90	(6414)
3844	34 3/8	(873)	16 31/32	(431)	4.05	(3763)	40 47/64	(1035)	4.05	(3763)	7.78	(7232)
3848	34 3/8	(873)	18 31/32	(482)	4.53	(4207)	36 47/64	(933)	4.53	(4207)	8.66	(8050)
3852	34 3/8	(873)	20 31/32	(533)	5.01	(4650)	32 47/64	(831)	5.01	(4650)	9.55	(8868)
3856	34 3/8	(873)	22 31/32	(583)	5.48	(5094)	28 47/64	(730)	5.48	(5094)	10.43	(9685)
3860	E 34 3/8	(873)	24 31/32	(634)	5.96	(5537)	24 47/64	(628)	5.96	(5537)	11.31	(10503)
3864	E 34 3/8	(873)	26 31/32	(685)	6.44	(5981)	20 47/64	(527)	6.44	(5981)	12.19	(11321)
3868	E 34 3/8	(873)	28 31/32	(736)	6.92	(6424)	16 47/64	(425)	6.92	(6424)	13.07	(12139)
3872	E 34 3/8	(873)	30 31/32	(787)	7.39	(6868)	12 47/64	(323)	7.39	(6868)	13.95	(12956)
3876	E 34 3/8	(873)	32 31/32	(837)	7.87	(7311)	8 47/64	(222)	7.87	(7311)	14.83	(13774)

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.

Egress Openings

Double Hung

EGRESS OPENING													
Unit #	Egress Width		Egress Height		Egress Clear Opening		Floor To Clear Opening		Vent		DLO		
	Inches	(mm)	Inches	(mm)	Sq. Ft.	(cm ²)	Inches	(mm)	Sq. Ft.	(cm ²)	Sq. Ft.	(cm ²)	
2236	18 3/8	(467)	12 31/32	(329)	1.65	(1537)	48 47/64	(1238)	1.65	(1537)	2.98	(2771)	
2240	18 3/8	(467)	14 31/32	(380)	1.91	(1774)	44 47/64	(1136)	1.91	(1774)	3.42	(3176)	
2244	18 3/8	(467)	16 31/32	(431)	2.17	(2012)	40 47/64	(1035)	2.17	(2012)	3.85	(3581)	
2248	18 3/8	(467)	18 31/32	(482)	2.42	(2249)	36 47/64	(933)	2.42	(2249)	4.29	(3985)	
2252	18 3/8	(467)	20 31/32	(533)	2.68	(2486)	32 47/64	(831)	2.68	(2486)	4.73	(4390)	
2256	18 3/8	(467)	22 31/32	(583)	2.93	(2723)	28 47/64	(730)	2.93	(2723)	5.16	(4795)	
2260	18 3/8	(467)	24 31/32	(634)	3.19	(2960)	24 47/64	(628)	3.19	(2960)	5.60	(5200)	
2264	18 3/8	(467)	26 31/32	(685)	3.44	(3197)	20 47/64	(527)	3.44	(3197)	6.03	(14575)	
2268	18 3/8	(467)	28 31/32	(736)	3.70	(3434)	16 47/64	(425)	3.70	(3434)	6.47	(6010)	
2272	18 3/8	(467)	30 31/32	(787)	3.95	(3671)	12 47/64	(323)	3.95	(3671)	6.90	(6414)	
2276	18 3/8	(467)	32 31/32	(837)	4.21	(3908)	8 47/64	(222)	4.21	(3908)	7.34	(6819)	
2636	22 3/8	(568)	12 31/32	(329)	2.02	(1872)	48 47/64	(1238)	2.02	(1872)	3.74	(3477)	
2640	22 3/8	(568)	14 31/32	(380)	2.33	(2161)	44 47/64	(1136)	2.33	(2161)	4.29	(3985)	
2644	22 3/8	(568)	16 31/32	(431)	2.64	(2450)	40 47/64	(1035)	2.64	(2450)	4.84	(4493)	
2648	22 3/8	(568)	18 31/32	(482)	2.95	(2738)	36 47/64	(933)	2.95	(2738)	5.38	(5002)	
2652	22 3/8	(568)	20 31/32	(533)	3.26	(3027)	32 47/64	(831)	3.26	(3027)	5.93	(5510)	
2656	22 3/8	(568)	22 31/32	(583)	3.57	(3316)	28 47/64	(730)	3.57	(3316)	6.48	(6018)	
2660	22 3/8	(568)	24 31/32	(634)	3.88	(3604)	24 47/64	(628)	3.88	(3604)	7.02	(6526)	
2664	22 3/8	(568)	26 31/32	(685)	4.19	(3893)	20 47/64	(527)	4.19	(3893)	7.57	(7034)	
2668	22 3/8	(568)	28 31/32	(736)	4.50	(4182)	16 47/64	(425)	4.50	(4182)	8.12	(7542)	
2672	22 3/8	(568)	30 31/32	(787)	4.81	(4470)	12 47/64	(323)	4.81	(4470)	8.66	(8050)	
2676	22 3/8	(568)	32 31/32	(837)	5.12	(4759)	8 47/64	(222)	5.12	(4759)	9.21	(8558)	
3036	26 3/8	(670)	12 31/32	(329)	2.38	(2207)	48 47/64	(1238)	2.38	(2207)	4.50	(4184)	
3040	26 3/8	(670)	14 31/32	(380)	2.74	(2547)	44 47/64	(1136)	2.74	(2547)	5.16	(4795)	
3044	26 3/8	(670)	16 31/32	(431)	3.11	(2887)	40 47/64	(1035)	3.11	(2887)	5.82	(5406)	
3048	26 3/8	(670)	18 31/32	(482)	3.47	(3228)	36 47/64	(933)	3.47	(3228)	6.48	(6018)	
3052	26 3/8	(670)	20 31/32	(533)	3.84	(3568)	32 47/64	(831)	3.84	(3568)	7.14	(6629)	
3056	26 3/8	(670)	22 31/32	(583)	4.21	(3908)	28 47/64	(730)	4.21	(3908)	7.79	(7240)	
3060	26 3/8	(670)	24 31/32	(634)	4.57	(4249)	24 47/64	(628)	4.57	(4249)	8.45	(7852)	
3064	26 3/8	(670)	26 31/32	(685)	4.94	(4589)	20 47/64	(527)	4.94	(4589)	9.11	(8463)	
3068	26 3/8	(670)	28 31/32	(736)	5.31	(4929)	16 47/64	(425)	5.31	(4929)	9.77	(9074)	
3072	26 3/8	(670)	30 31/32	(787)	5.67	(5269)	12 47/64	(323)	5.67	(5269)	10.43	(9685)	
3076	E 26 3/8	(670)	32 31/32	(837)	6.04	(5610)	8 47/64	(222)	6.04	(5610)	11.08	(10297)	

Egress Openings

Double Hung Cottage

EGRESS OPENING															
Unit #	Egress Width		Egress Height		Egress Clear Opening		Floor To Clear Opening		Vent		DLO		Check Rail Height		
	Inches	(mm)	Inches	(mm)	Sq. Ft.	(cm ²)	Inches	(mm)	Sq. Ft.	(cm ²)	Sq. Ft.	(cm ²)	Inches	(mm)	
2236C	18 3/8	(467)	10 3/32	(256)	1.29	(1196)	48 47/64	(1238)	1.29	(1196)	2.98	(2771)	21 29/32	(556)	
2240C	18 3/8	(467)	11 45/64	(297)	1.49	(1387)	44 47/64	(1136)	1.49	(1387)	3.42	(3176)	24 19/64	(617)	
2244C	18 3/8	(467)	13 5/16	(338)	1.70	(1578)	40 47/64	(1035)	1.70	(1578)	3.85	(3581)	26 11/16	(678)	
2248C	18 3/8	(467)	14 59/64	(379)	1.90	(1769)	36 47/64	(933)	1.90	(1769)	4.29	(3985)	29 5/64	(739)	
2252C	18 3/8	(467)	16 17/32	(420)	2.11	(1959)	32 47/64	(831)	2.11	(1959)	4.73	(4390)	31 15/32	(799)	
2256C	18 3/8	(467)	19 3/4	(461)	2.31	(2150)	28 47/64	(730)	2.31	(2150)	5.16	(4795)	33 55/64	(860)	
2260C	18 3/8	(467)	19 3/4	(502)	2.52	(2341)	24 47/64	(628)	2.52	(2341)	5.60	(5200)	36 1/4	(921)	
2264C	18 3/8	(467)	21 23/64	(543)	2.73	(2532)	20 47/64	(527)	2.73	(2532)	6.03	(5605)	38 41/64	(981)	
2268C	18 3/8	(467)	22 31/32	(583)	2.93	(2723)	16 47/64	(425)	2.93	(2723)	6.47	(6010)	41 1/32	(1042)	
2636C	22 3/8	(568)	10 3/32	(256)	1.57	(1457)	48 47/64	(1238)	1.57	(1457)	3.74	(3477)	21 29/32	(556)	
2640C	22 3/8	(568)	11 45/64	(297)	1.82	(1689)	44 47/64	(1136)	1.82	(1689)	4.29	(3985)	24 19/64	(617)	
2644C	22 3/8	(568)	13 5/16	(338)	2.07	(1921)	40 47/64	(1035)	2.07	(1921)	4.84	(4493)	26 11/16	(678)	
2648C	22 3/8	(568)	14 59/64	(379)	2.32	(2154)	36 47/64	(933)	2.32	(2154)	5.38	(5002)	29 5/64	(739)	
2652C	22 3/8	(568)	16 17/32	(420)	2.57	(2386)	32 47/64	(831)	2.57	(2386)	5.93	(5510)	31 15/32	(799)	
2656C	22 3/8	(568)	18 9/64	(461)	2.82	(2618)	28 47/64	(730)	2.82	(2618)	6.48	(6018)	33 55/64	(860)	
2660C	22 3/8	(568)	19 3/4	(502)	3.07	(2851)	24 47/64	(628)	3.07	(2851)	7.02	(6526)	36 1/4	(921)	
2664C	22 3/8	(568)	21 23/64	(543)	3.32	(3083)	20 47/64	(527)	3.32	(3083)	7.57	(7034)	38 41/64	(981)	
2668C	22 3/8	(568)	22 31/32	(583)	3.57	(3315)	16 47/64	(425)	3.57	(3315)	8.12	(7542)	41 1/32	(1042)	
3036C	26 3/8	(670)	10 3/32	(256)	1.85	(1717)	48 47/64	(1238)	1.85	(1717)	4.50	(4184)	21 29/32	(556)	
3040C	26 3/8	(670)	11 45/64	(297)	2.14	(1991)	44 47/64	(1136)	2.14	(1991)	5.16	(4795)	24 19/64	(617)	
3044C	26 3/8	(670)	13 5/16	(338)	2.44	(2265)	40 47/64	(1035)	2.44	(2265)	5.82	(5406)	26 11/16	(678)	
3048C	26 3/8	(670)	14 59/64	(379)	2.73	(2539)	36 47/64	(933)	2.73	(2539)	6.48	(6018)	29 5/64	(739)	
3052C	26 3/8	(670)	16 17/32	(420)	3.03	(2813)	32 47/64	(831)	3.03	(2813)	7.14	(6629)	31 15/32	(799)	
3056C	26 3/8	(670)	18 9/64	(461)	3.32	(3087)	28 47/64	(730)	3.32	(3087)	7.79	(7240)	33 55/64	(860)	
3060C	26 3/8	(670)	19 3/4	(502)	3.62	(3360)	24 47/64	(628)	3.62	(3360)	8.45	(7852)	36 1/4	(921)	
3064C	26 3/8	(670)	21 23/64	(543)	3.91	(3634)	20 47/64	(527)	3.91	(3634)	9.11	(8463)	38 41/64	(981)	
3068C	26 3/8	(670)	22 31/32	(583)	4.21	(3908)	16 47/64	(425)	4.21	(3908)	9.77	(9074)	41 1/32	(1042)	
3236C	28 3/8	(721)	10 3/32	(256)	1.99	(1847)	48 47/64	(1238)	1.99	(1847)	4.88	(4537)	21 29/32	(556)	
3240C	28 3/8	(721)	11 45/64	(297)	2.31	(2142)	44 47/64	(1136)	2.31	(2142)	5.60	(5200)	24 19/64	(617)	
3244C	28 3/8	(721)	13 5/16	(338)	2.62	(2437)	40 47/64	(1035)	2.62	(2437)	6.31	(5863)	26 11/16	(678)	
3248C	28 3/8	(721)	14 59/64	(379)	2.94	(2731)	36 47/64	(933)	2.94	(2731)	7.02	(6526)	29 5/64	(739)	
3252C	28 3/8	(721)	16 17/32	(420)	3.26	(3026)	32 47/64	(831)	3.26	(3026)	7.74	(7189)	31 15/32	(799)	
3256C	28 3/8	(721)	18 9/64	(461)	3.57	(3321)	28 47/64	(730)	3.57	(3321)	8.45	(7852)	33 55/64	(860)	
3260C	28 3/8	(721)	19 3/4	(502)	3.89	(3615)	24 47/64	(628)	3.89	(3615)	9.16	(8514)	36 1/4	(921)	
3264C	28 3/8	(721)	21 23/64	(543)	4.21	(3910)	20 47/64	(527)	4.21	(3910)	9.88	(9177)	38 41/64	(981)	
3268C	28 3/8	(721)	22 31/32	(583)	4.53	(4205)	16 47/64	(425)	4.53	(4205)	10.59	(9840)	41 1/32	(1042)	

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Egress Openings

Double Hung Cottage (Continued)

EGRESS OPENING														
Unit #	Egress Width		Egress Height		Egress Clear Opening		Floor To Clear Opening		Vent		DLO		Check Rail Height	
	Inches	(mm)	Inches	(mm)	Sq. Ft.	(cm ²)	Inches	(mm)	Sq. Ft.	(cm ²)	Sq. Ft.	(cm ²)	Inches	(mm)
2236C	18 3/8	(467)	10 3/32	(256)	1.29	(1196)	48 47/64	(1238)	1.29	(1196)	2.98	(2771)	21 29/32	(556)
2240C	18 3/8	(467)	11 45/64	(297)	1.49	(1387)	44 47/64	(1136)	1.49	(1387)	3.42	(3176)	24 19/64	(617)
2244C	18 3/8	(467)	13 5/16	(338)	1.70	(1578)	40 47/64	(1035)	1.70	(1578)	3.85	(3581)	26 11/16	(678)
2248C	18 3/8	(467)	14 59/64	(379)	1.90	(1769)	36 47/64	(933)	1.90	(1769)	4.29	(3985)	29 5/64	(739)
2252C	18 3/8	(467)	16 17/32	(420)	2.11	(1959)	32 47/64	(831)	2.11	(1959)	4.73	(4390)	31 15/32	(799)
2256C	18 3/8	(467)	19 3/4	(461)	2.31	(2150)	28 47/64	(730)	2.31	(2150)	5.16	(4795)	33 55/64	(860)
2260C	18 3/8	(467)	19 3/4	(502)	2.52	(2341)	24 47/64	(628)	2.52	(2341)	5.60	(5200)	36 1/4	(921)
2264C	18 3/8	(467)	21 23/64	(543)	2.73	(2532)	20 47/64	(527)	2.73	(2532)	6.03	(5605)	38 41/64	(981)
2268C	18 3/8	(467)	22 31/32	(583)	2.93	(2723)	16 47/64	(425)	2.93	(2723)	6.47	(6010)	41 1/32	(1042)
2636C	22 3/8	(568)	10 3/32	(256)	1.57	(1457)	48 47/64	(1238)	1.57	(1457)	3.74	(3477)	21 29/32	(556)
2640C	22 3/8	(568)	11 45/64	(297)	1.82	(1689)	44 47/64	(1136)	1.82	(1689)	4.29	(3985)	24 19/64	(617)
2644C	22 3/8	(568)	13 5/16	(338)	2.07	(1921)	40 47/64	(1035)	2.07	(1921)	4.84	(4493)	26 11/16	(678)
2648C	22 3/8	(568)	14 59/64	(379)	2.32	(2154)	36 47/64	(933)	2.32	(2154)	5.38	(5002)	29 5/64	(739)
2652C	22 3/8	(568)	16 17/32	(420)	2.57	(2386)	32 47/64	(831)	2.57	(2386)	5.93	(5510)	31 15/32	(799)
2656C	22 3/8	(568)	18 9/64	(461)	2.82	(2618)	28 47/64	(730)	2.82	(2618)	6.48	(6018)	33 55/64	(860)
2660C	22 3/8	(568)	19 3/4	(502)	3.07	(2851)	24 47/64	(628)	3.07	(2851)	7.02	(6526)	36 1/4	(921)
2664C	22 3/8	(568)	21 23/64	(543)	3.32	(3083)	20 47/64	(527)	3.32	(3083)	7.57	(7034)	38 41/64	(981)
2668C	22 3/8	(568)	22 31/32	(583)	3.57	(3315)	16 47/64	(425)	3.57	(3315)	8.12	(7542)	41 1/32	(1042)
3036C	26 3/8	(670)	10 3/32	(256)	1.85	(1717)	48 47/64	(1238)	1.85	(1717)	4.50	(4184)	21 29/32	(556)
3040C	26 3/8	(670)	11 45/64	(297)	2.14	(1991)	44 47/64	(1136)	2.14	(1991)	5.16	(4795)	24 19/64	(617)
3044C	26 3/8	(670)	13 5/16	(338)	2.44	(2265)	40 47/64	(1035)	2.44	(2265)	5.82	(5406)	26 11/16	(678)
3048C	26 3/8	(670)	14 59/64	(379)	2.73	(2539)	36 47/64	(933)	2.73	(2539)	6.48	(6018)	29 5/64	(739)
3052C	26 3/8	(670)	16 17/32	(420)	3.03	(2813)	32 47/64	(831)	3.03	(2813)	7.14	(6629)	31 15/32	(799)
3056C	26 3/8	(670)	18 9/64	(461)	3.32	(3087)	28 47/64	(730)	3.32	(3087)	7.79	(7240)	33 55/64	(860)
3060C	26 3/8	(670)	19 3/4	(502)	3.62	(3360)	24 47/64	(628)	3.62	(3360)	8.45	(7852)	36 1/4	(921)
3064C	26 3/8	(670)	21 23/64	(543)	3.91	(3634)	20 47/64	(527)	3.91	(3634)	9.11	(8463)	38 41/64	(981)
3068C	26 3/8	(670)	22 31/32	(583)	4.21	(3908)	16 47/64	(425)	4.21	(3908)	9.77	(9074)	41 1/32	(1042)
3236C	28 3/8	(721)	10 3/32	(256)	1.99	(1847)	48 47/64	(1238)	1.99	(1847)	4.88	(4537)	21 29/32	(556)
3240C	28 3/8	(721)	11 45/64	(297)	2.31	(2142)	44 47/64	(1136)	2.31	(2142)	5.60	(5200)	24 19/64	(617)
3244C	28 3/8	(721)	13 5/16	(338)	2.62	(2437)	40 47/64	(1035)	2.62	(2437)	6.31	(5863)	26 11/16	(678)
3248C	28 3/8	(721)	14 59/64	(379)	2.94	(2731)	36 47/64	(933)	2.94	(2731)	7.02	(6526)	29 5/64	(739)
3252C	28 3/8	(721)	16 17/32	(420)	3.26	(3026)	32 47/64	(831)	3.26	(3026)	7.74	(7189)	31 15/32	(799)
3256C	28 3/8	(721)	18 9/64	(461)	3.57	(3321)	28 47/64	(730)	3.57	(3321)	8.45	(7852)	33 55/64	(860)
3260C	28 3/8	(721)	19 3/4	(502)	3.89	(3615)	24 47/64	(628)	3.89	(3615)	9.16	(8514)	36 1/4	(921)
3264C	28 3/8	(721)	21 23/64	(543)	4.21	(3910)	20 47/64	(527)	4.21	(3910)	9.88	(9177)	38 41/64	(981)
3268C	28 3/8	(721)	22 31/32	(583)	4.53	(4205)	16 47/64	(425)	4.53	(4205)	10.59	(9840)	41 1/32	(1042)
3436C	30 3/8	(771)	10 3/32	(256)	2.13	(1978)	48 47/64	(1238)	2.13	(1978)	5.26	(4890)	21 29/32	(556)
3440C	30 3/8	(771)	11 45/64	(297)	2.47	(2293)	44 47/64	(1136)	2.47	(2293)	6.03	(5605)	24 19/64	(617)
3444C	30 3/8	(771)	13 5/16	(338)	2.81	(2608)	40 47/64	(1035)	2.81	(2608)	6.80	(6319)	26 11/16	(678)
3448C	30 3/8	(771)	14 59/64	(379)	3.15	(2924)	36 47/64	(933)	3.15	(2924)	7.57	(7034)	29 5/64	(739)
3452C	30 3/8	(771)	16 17/32	(420)	3.49	(3239)	32 47/64	(831)	3.49	(3239)	8.34	(7748)	31 15/32	(799)
3456C	30 3/8	(771)	18 9/64	(461)	3.83	(3555)	28 47/64	(730)	3.83	(3555)	9.11	(8463)	33 55/64	(860)
3460C	30 3/8	(771)	19 3/4	(502)	4.17	(3870)	24 47/64	(628)	4.17	(3870)	9.88	(9177)	36 1/4	(921)
3464C	30 3/8	(771)	21 23/64	(543)	4.51	(4185)	20 47/64	(527)	4.51	(4185)	10.65	(9892)	38 41/64	(981)
3468C	30 3/8	(771)	22 31/32	(583)	4.84	(4501)	16 47/64	(425)	4.84	(4501)	11.42	(10606)	41 1/32	(1042)
3636C	32 3/8	(822)	10 3/32	(256)	2.27	(2108)	48 47/64	(1238)	2.27	(2108)	5.64	(5243)	21 29/32	(556)
3640C	32 3/8	(822)	11 45/64	(297)	2.63	(2444)	44 47/64	(1136)	2.63	(2444)	6.47	(6010)	24 19/64	(617)
3644C	32 3/8	(822)	13 5/16	(338)	2.99	(2780)	40 47/64	(1035)	2.99	(2780)	7.29	(6776)	26 11/16	(678)
3648C	32 3/8	(822)	14 59/64	(379)	3.35	(3116)	36 47/64	(933)	3.35	(3116)	8.12	(7542)	29 5/64	(739)
3652C	32 3/8	(822)	16 17/32	(420)	3.72	(3453)	32 47/64	(831)	3.72	(3453)	8.94	(8308)	31 15/32	(799)
3656C	32 3/8	(822)	18 9/64	(461)	4.08	(3789)	28 47/64	(730)	4.08	(3789)	9.77	(9074)	33 55/64	(860)
3660C	32 3/8	(822)	19 3/4	(502)	4.44	(4125)	24 47/64	(628)	4.44	(4125)	10.59	(9840)	36 1/4	(921)
3664C	32 3/8	(822)	21 23/64	(543)	4.80	(4461)	20 47/64	(527)	4.80	(4461)	11.42	(10606)	38 41/64	(981)
3668C	32 3/8	(822)	22 31/32	(583)	5.16	(4797)	16 47/64	(425)	5.16	(4797)	12.24	(11373)	41 1/32	(1042)

Egress Openings

Double Hung Reverse Cottage

EGRESS OPENING														
Unit #	Egress Width		Egress Height		Egress Clear Opening		Floor To Clear Opening		Vent		DLO		Check Rail Height	
	Inches	(mm)	Inches	(mm)	Sq. Ft.	(cm ²)	Inches	(mm)	Sq. Ft.	(cm ²)	Sq. Ft.	(cm ²)	Inches	(mm)
2236RC	18 3/8	(467)	6 1/32	(153)	0.77	(716)	48 47/64	(1238)	0.77	(716)	2.98	(2771)	16 5/32	(410)
2240RC	18 3/8	(467)	8 27/64	(214)	1.08	(999)	44 47/64	(1136)	1.08	(999)	3.42	(3176)	17 49/64	(451)
2244RC	18 3/8	(467)	10 13/16	(275)	1.38	(1282)	40 47/64	(1035)	1.38	(1282)	3.85	(3581)	19 3/8	(492)
2248RC	18 3/8	(467)	13 13/64	(336)	1.69	(1566)	36 47/64	(933)	1.69	(1566)	4.29	(3985)	20 63/64	(533)
2252RC	18 3/8	(467)	15 19/32	(396)	1.99	(1849)	32 47/64	(831)	1.99	(1849)	4.73	(4390)	22 19/32	(574)
2256RC	18 3/8	(467)	15 11/32	(390)	1.96	(1819)	28 47/64	(730)	1.96	(1819)	5.16	(4795)	24 13/64	(615)
2260RC	18 3/8	(467)	17 47/64	(451)	2.26	(2102)	24 47/64	(628)	2.26	(2102)	5.60	(5200)	25 13/16	(656)
2264RC	18 3/8	(467)	20 1/8	(511)	2.57	(2386)	20 47/64	(527)	2.57	(2386)	6.03	(5605)	27 27/64	(697)
2268RC	18 3/8	(467)	22 33/64	(572)	2.87	(2669)	16 47/64	(425)	2.87	(2669)	6.47	(6010)	29 1/32	(737)
2636RC	22 3/8	(568)	6 1/32	(153)	0.94	(871)	48 47/64	(1238)	0.94	(871)	3.74	(3477)	16 5/32	(410)
2640RC	22 3/8	(568)	8 27/64	(214)	1.31	(1216)	44 47/64	(1136)	1.31	(1216)	4.29	(3985)	17 49/64	(451)
2644RC	22 3/8	(568)	10 13/16	(275)	1.68	(1561)	40 47/64	(1035)	1.68	(1561)	4.84	(4493)	19 3/8	(492)
2648RC	22 3/8	(568)	13 13/64	(336)	2.05	(1907)	36 47/64	(933)	2.05	(1907)	5.38	(5002)	20 63/64	(533)
2652RC	22 3/8	(568)	15 19/32	(396)	2.42	(2251)	32 47/64	(831)	2.42	(2251)	5.93	(5510)	22 19/32	(574)
2656RC	22 3/8	(568)	15 11/32	(390)	2.38	(2215)	28 47/64	(730)	2.38	(2215)	6.48	(6018)	24 13/64	(615)
2660RC	22 3/8	(568)	17 47/64	(451)	2.76	(2560)	24 47/64	(628)	2.76	(2560)	7.02	(6526)	25 13/16	(656)
2664RC	22 3/8	(568)	20 1/8	(511)	3.13	(2905)	20 47/64	(527)	3.13	(2905)	7.57	(7034)	27 27/64	(697)
2668RC	22 3/8	(568)	22 33/64	(572)	3.50	(3250)	16 47/64	(425)	3.50	(3250)	8.12	(7542)	29 1/32	(737)

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Egress Openings

Double Hung Reverse Cottage

EGRESS OPENING														
Unit #	Egress Width		Egress Height		Egress Clear Opening		Floor To Clear Opening		Vent		DLO		Check Rail Height	
	Inches	(mm)	Inches	(mm)	Sq. Ft.	(cm ²)	Inches	(mm)	Sq. Ft.	(cm ²)	Sq. Ft.	(cm ²)	Inches	(mm)
2236RC	18 3/8	(467)	6 1/32	(153)	0.77	(716)	48 47/64	(1238)	0.77	(716)	2.98	(2771)	16 5/32	(410)
2240RC	18 3/8	(467)	8 27/64	(214)	1.08	(999)	44 47/64	(1136)	1.08	(999)	3.42	(3176)	17 49/64	(451)
2244RC	18 3/8	(467)	10 13/16	(275)	1.38	(1282)	40 47/64	(1035)	1.38	(1282)	3.85	(3581)	19 3/8	(492)
2248RC	18 3/8	(467)	13 13/64	(336)	1.69	(1566)	36 47/64	(933)	1.69	(1566)	4.29	(3985)	20 63/64	(533)
2252RC	18 3/8	(467)	15 19/32	(396)	1.99	(1849)	32 47/64	(831)	1.99	(1849)	4.73	(4390)	22 19/32	(574)
2256RC	18 3/8	(467)	15 11/32	(390)	1.96	(1819)	28 47/64	(730)	1.96	(1819)	5.16	(4795)	24 13/64	(615)
2260RC	18 3/8	(467)	17 47/64	(451)	2.26	(2102)	24 47/64	(628)	2.26	(2102)	5.60	(5200)	25 13/16	(656)
2264RC	18 3/8	(467)	20 1/8	(511)	2.57	(2386)	20 47/64	(527)	2.57	(2386)	6.03	(5605)	27 27/64	(697)
2268RC	18 3/8	(467)	22 33/64	(572)	2.87	(2669)	16 47/64	(425)	2.87	(2669)	6.47	(6010)	29 1/32	(737)
2636RC	22 3/8	(568)	6 1/32	(153)	0.94	(871)	48 47/64	(1238)	0.94	(871)	3.74	(3477)	16 5/32	(410)
2640RC	22 3/8	(568)	8 27/64	(214)	1.31	(1216)	44 47/64	(1136)	1.31	(1216)	4.29	(3985)	17 49/64	(451)
2644RC	22 3/8	(568)	10 13/16	(275)	1.68	(1561)	40 47/64	(1035)	1.68	(1561)	4.84	(4493)	19 3/8	(492)
2648RC	22 3/8	(568)	13 13/64	(336)	2.05	(1907)	36 47/64	(933)	2.05	(1907)	5.38	(5002)	20 63/64	(533)
2652RC	22 3/8	(568)	15 19/32	(396)	2.42	(2251)	32 47/64	(831)	2.42	(2251)	5.93	(5510)	22 19/32	(574)
2656RC	22 3/8	(568)	15 11/32	(390)	2.38	(2215)	28 47/64	(730)	2.38	(2215)	6.48	(6018)	24 13/64	(615)
2660RC	22 3/8	(568)	17 47/64	(451)	2.76	(2560)	24 47/64	(628)	2.76	(2560)	7.02	(6526)	25 13/16	(656)
2664RC	22 3/8	(568)	20 1/8	(511)	3.13	(2905)	20 47/64	(527)	3.13	(2905)	7.57	(7034)	27 27/64	(697)
2668RC	22 3/8	(568)	22 33/64	(572)	3.50	(3250)	16 47/64	(425)	3.50	(3250)	8.12	(7542)	29 1/32	(737)
3036RC	26 3/8	(670)	6 1/32	(153)	1.11	(1027)	48 47/64	(1238)	1.11	(1027)	4.50	(4184)	16 5/32	(410)
3040RC	26 3/8	(670)	8 27/64	(214)	1.54	(1434)	44 47/64	(1136)	1.54	(1434)	5.16	(4795)	17 49/64	(451)
3044RC	26 3/8	(670)	10 13/16	(275)	1.98	(1841)	40 47/64	(1035)	1.98	(1841)	5.82	(5406)	19 3/8	(492)
3048RC	26 3/8	(670)	13 13/64	(336)	2.42	(2247)	36 47/64	(933)	2.42	(2247)	6.48	(6018)	20 63/64	(533)
3052RC	26 3/8	(670)	15 19/32	(396)	2.86	(2654)	32 47/64	(831)	2.86	(2654)	7.14	(6629)	22 19/32	(574)
3056RC	26 3/8	(670)	15 11/32	(390)	2.81	(2611)	28 47/64	(730)	2.81	(2611)	7.79	(7240)	24 13/64	(615)
3060RC	26 3/8	(670)	17 47/64	(451)	3.25	(3018)	24 47/64	(628)	3.25	(3018)	8.45	(7852)	25 13/16	(656)
3064RC	26 3/8	(670)	20 1/8	(511)	3.69	(3425)	20 47/64	(527)	3.69	(3425)	9.11	(8463)	27 27/64	(697)
3068RC	26 3/8	(670)	22 33/64	(572)	4.12	(3831)	16 47/64	(425)	4.12	(3831)	12.33	(9074)	29 1/32	(737)
3236RC	28 3/8	(721)	6 1/32	(153)	1.19	(1105)	48 47/64	(1238)	1.19	(1105)	4.88	(4537)	16 5/32	(410)
3240RC	28 3/8	(721)	8 27/64	(214)	1.66	(1543)	44 47/64	(1136)	1.66	(1543)	5.60	(5200)	17 49/64	(451)
3244RC	28 3/8	(721)	10 13/16	(275)	2.13	(1980)	40 47/64	(1035)	2.13	(1980)	6.31	(7852)	19 3/8	(492)
3248RC	28 3/8	(721)	13 13/64	(336)	2.60	(2418)	36 47/64	(933)	2.60	(2418)	7.02	(6526)	20 63/64	(533)
3252RC	28 3/8	(721)	15 19/32	(396)	3.07	(2855)	32 47/64	(831)	3.07	(2855)	7.74	(7189)	22 19/32	(574)
3256RC	28 3/8	(721)	15 11/32	(390)	3.02	(2809)	28 47/64	(730)	3.02	(2809)	8.45	(7852)	24 13/64	(615)
3260RC	28 3/8	(721)	17 47/64	(451)	3.49	(3247)	24 47/64	(628)	3.49	(3247)	9.16	(8514)	25 13/16	(656)
3264RC	28 3/8	(721)	20 1/8	(511)	3.97	(3685)	20 47/64	(527)	3.97	(3685)	9.88	(9177)	27 27/64	(697)
3268RC	28 3/8	(721)	22 33/64	(572)	4.44	(4122)	16 47/64	(425)	4.44	(4122)	10.59	(9840)	29 1/32	(737)
3436RC	30 3/8	(771)	6 1/32	(153)	1.27	(1183)	48 47/64	(1238)	1.27	(1183)	5.26	(4890)	16 5/32	(410)
3440RC	30 3/8	(771)	8 27/64	(214)	1.78	(1651)	44 47/64	(1136)	1.78	(1651)	6.03	(5605)	17 49/64	(451)
3444RC	30 3/8	(771)	10 13/16	(275)	2.28	(2120)	40 47/64	(1035)	2.28	(2120)	6.80	(6319)	19 3/8	(492)
3448RC	30 3/8	(771)	13 13/64	(336)	2.79	(2588)	36 47/64	(933)	2.79	(2588)	7.57	(7034)	20 63/64	(533)
3452RC	30 3/8	(771)	15 19/32	(396)	3.29	(3057)	32 47/64	(831)	3.29	(3057)	8.34	(7748)	22 19/32	(574)
3456RC	30 3/8	(771)	15 11/32	(390)	3.24	(3007)	28 47/64	(730)	3.24	(3007)	9.11	(8463)	24 13/64	(615)
3460RC	30 3/8	(771)	17 47/64	(451)	3.74	(3476)	24 47/64	(628)	3.74	(3476)	9.88	(9177)	25 13/16	(656)
3464RC	30 3/8	(771)	20 1/8	(511)	4.25	(3944)	20 47/64	(527)	4.25	(3944)	10.65	(9892)	27 27/64	(697)
3468RC	30 3/8	(771)	22 33/64	(572)	4.75	(4413)	16 47/64	(425)	4.75	(4413)	11.42	(10606)	29 1/32	(737)
3636RC	32 3/8	(822)	6 1/32	(153)	1.36	(1261)	48 47/64	(1238)	1.36	(1261)	5.64	(5243)	16 5/32	(410)
3640RC	32 3/8	(822)	8 27/64	(214)	1.89	(1760)	44 47/64	(1136)	1.89	(1760)	6.47	(6010)	17 49/64	(451)
3644RC	32 3/8	(822)	10 13/16	(275)	2.43	(2259)	40 47/64	(1035)	2.43	(2259)	7.29	(9177)	19 3/8	(492)
3648RC	32 3/8	(822)	13 13/64	(336)	2.97	(2759)	36 47/64	(933)	2.97	(2759)	8.12	(9892)	20 63/64	(533)
3652RC	32 3/8	(822)	15 19/32	(396)	3.51	(3258)	32 47/64	(831)	3.51	(3258)	8.94	(8308)	22 19/32	(574)
3656RC	32 3/8	(822)	15 11/32	(390)	3.45	(3205)	28 47/64	(730)	3.45	(3205)	9.77	(9074)	24 13/64	(615)
3660RC	32 3/8	(822)	17 47/64	(451)	3.99	(3705)	24 47/64	(628)	3.99	(3705)	10.59	(9840)	25 13/16	(656)
3664RC	32 3/8	(822)	20 1/8	(511)	4.53	(4204)	20 47/64	(527)	4.53	(4204)	11.42	(10606)	27 27/64	(697)
3668RC	32 3/8	(822)	22 33/64	(572)	5.06	(4703)	16 47/64	(425)	5.06	(4703)	12.24	(11373)	29 1/32	(737)
3836RC	34 3/8	(873)	6 1/32	(153)	1.44	(1339)	48 47/64	(1238)	1.44	(1339)	6.02	(5597)	16 5/32	(410)
3840RC	34 3/8	(873)	8 27/64	(214)	2.01	(1869)	44 47/64	(1136)	2.01	(1869)	6.90	(6414)	17 49/64	(451)
3844RC	34 3/8	(873)	10 13/16	(275)	2.58	(2399)	40 47/64	(1035)	2.58	(2399)	7.78	(7232)	19 3/8	(492)
3848RC	34 3/8	(873)	13 13/64	(336)	3.15	(2929)	36 47/64	(933)	3.15	(2929)	8.66	(8050)	20 63/64	(533)
3852RC	34 3/8	(873)	15 19/32	(396)	3.72	(3459)	32 47/64	(831)	3.72	(3459)	9.55	(8868)	22 19/32	(574)
3856RC	34 3/8	(873)	15 11/32	(390)	3.66	(3403)	28 47/64	(730)	3.66	(3403)	10.43	(9685)	24 13/64	(615)
3860RC	34 3/8	(873)	17 47/64	(451)	4.23	(3933)	24 47/64	(628)	4.23	(3933)	11.31	(10503)	25 13/16	(656)
3864RC	34 3/8	(873)	20 1/8	(511)	4.80	(4464)	20 47/64	(527)	4.80	(4464)	12.19	(11321)	27 27/64	(697)
3868RC	34 3/8	(873)	22 33/64	(572)	5.38	(4994)	16 47/64	(425)	5.38	(4994)	13.07	(12139)	29 1/32	(737)
4236RC	38 3/8	(975)	6 1/32	(153)	1.61	(1495)	48 47/64	(1238)	1.61	(1495)	6.78	(6303)	16 5/32	(410)
4240RC	38 3/8	(975)	8 27/64	(214)	2.25	(2086)	44 47/64	(1136)	2.25	(2086)	7.78	(7224)	17 49/64	(451)
4244RC	38 3/8	(975)	10 13/16	(275)	2.88	(2678)	40 47/64	(1035)	2.88	(2678)	8.77	(8145)	19 3/8	(492)
4248RC	38 3/8	(975)	13 13/64	(336)	3.52	(3270)	36 47/64	(933)	3.52	(3270)	9.76	(9066)	20 63/64	(533)
4252RC	38 3/8	(975)	15 19/32	(396)	4.16	(3862)	32 47/64	(831)	4.16	(3862)	10.75	(9987)	22 19/32	(574)
4256RC	38 3/8	(975)	15 11/32	(390)	4.09	(3800)	28 47/64	(730)	4.09	(3800)	11.74	(10908)	24 13/64	(615)
4260RC	38 3/8	(975)	17 47/64	(451)	4.73	(4391)	24 47/64	(628)	4.73	(4391)	12.73	(11829)	25 13/16	(656)
4264RC	38 3/8	(975)	20 1/8	(511)	5.36	(4983)	20 47/64	(527)	5.36	(4983)	13.72	(12750)	27 27/64	(697)
4268RC	38 3/8	(975)	22 33/64	(572)	6.00	(5575)	16 47/64	(425)	6.00	(5575)	14.72	(13671)	29 1/32	(737)

Egress Openings

Double Hung Reverse Cottage (Continued)

EGRESS OPENING														
Unit #	Egress Width		Egress Height		Egress Clear Opening		Floor To Clear Opening		Vent		DLO		Check Rail Height	
	Inches	(mm)	Inches	(mm)	Sq. Ft.	(cm ²)	Inches	(mm)	Sq. Ft.	(cm ²)	Sq. Ft.	(cm ²)	Inches	(mm)
4836RC	44 3/8	(1127)	6 1/32	(153)	1.86	(1729)	48 47/64	(1238)	1.86	(1729)	7.93	(7363)	16 5/32	(410)
4840RC	44 3/8	(1127)	8 27/64	(214)	2.60	(2413)	44 47/64	(1136)	2.60	(2413)	9.08	(8439)	17 49/64	(451)
4844RC	44 3/8	(1127)	10 13/16	(275)	3.33	(3097)	40 47/64	(1035)	3.33	(3097)	10.24	(9515)	19 3/8	(492)
4848RC	44 3/8	(1127)	13 13/64	(336)	4.07	(3781)	36 47/64	(933)	4.07	(3781)	11.40	(10590)	20 63/64	(533)
4852RC	44 3/8	(1127)	15 19/32	(396)	4.81	(4466)</								

Egress Openings

Sliding Patio Door

EGRESS OPENING													
Unit #		Egress Width		Egress Height		Egress Clear Opening		Floor To Clear Opening		Venting		DLO	
		Inches	(mm)	Inches	(mm)	Sq. Ft.	(cm ²)	Sq. Ft.	(cm ²)	Sq. Ft.	(cm ²)	Sq. Ft.	(cm ²)
5065	XO, OX	23 17/64	(591)	74 47/64	(1898)	12.07	(11217)	N/A	N/A	12.07	(11217)	25.01	(23237)
5068	XO, OX	23 17/64	(591)	77 15/64	(1962)	12.48	(11592)	N/A	N/A	12.48	(11592)	25.88	(24043)
5070	XO, OX	23 17/64	(591)	81 15/64	(2063)	13.12	(12192)	N/A	N/A	13.12	(12192)	27.27	(25333)
5080	XO, OX	23 17/64	(591)	90 47/64	(2305)	14.66	(13618)	N/A	N/A	14.66	(13618)	30.57	(28398)
6065	XO, OX	29 17/64	(743)	74 47/64	(1898)	15.19	(14110)	N/A	N/A	15.19	(14110)	31.01	(28814)
6068	XO, OX	29 17/64	(743)	77 15/64	(1962)	15.70	(14582)	N/A	N/A	15.70	(14582)	32.09	(29814)
6070	XO, OX	29 17/64	(743)	81 15/64	(2063)	16.51	(15337)	N/A	N/A	16.51	(15337)	33.81	(31414)
6080	XO, OX	29 17/64	(743)	90 47/64	(2305)	18.44	(17130)	N/A	N/A	18.44	(17130)	37.90	(35214)
8065	XO, OX	41 17/64	(1048)	74 47/64	(1898)	21.42	(19895)	N/A	N/A	21.42	(19895)	43.02	(39967)
8068	XO, OX	41 17/64	(1048)	77 15/64	(1962)	22.13	(20561)	N/A	N/A	22.13	(20561)	44.51	(41354)
8070	XO, OX	41 17/64	(1048)	81 15/64	(2063)	23.28	(21626)	N/A	N/A	23.28	(21626)	46.90	(43574)
8080	XO, OX	41 17/64	(1048)	90 47/64	(2305)	26.00	(24155)	N/A	N/A	26.00	(24155)	52.58	(48845)
5065	XOO, OOX	23 17/64	(591)	74 47/64	(1898)	12.07	(11217)	N/A	N/A	12.07	(11217)	37.52	(34855)
5068	XOO, OOX	23 17/64	(591)	77 15/64	(1962)	12.48	(11592)	N/A	N/A	12.48	(11592)	38.82	(24043)
7670	XOO, OOX	23 17/64	(591)	81 15/64	(2063)	13.12	(12192)	N/A	N/A	13.12	(12192)	40.90	(25333)
7680	XOO, OOX	23 17/64	(591)	90 47/64	(2305)	14.66	(13618)	N/A	N/A	14.66	(13618)	45.85	(28398)
6065	XOO, OOX	29 17/64	(743)	74 47/64	(1898)	15.19	(14110)	N/A	N/A	15.19	(14110)	46.52	(28814)
6068	XOO, OOX	29 17/64	(743)	77 15/64	(1962)	15.70	(14582)	N/A	N/A	15.70	(14582)	48.14	(29814)
9070	XOO, OOX	29 17/64	(743)	81 15/64	(2063)	16.51	(15337)	N/A	N/A	16.51	(15337)	50.72	(31414)
9080	XOO, OOX	29 17/64	(743)	90 47/64	(2305)	18.44	(17130)	N/A	N/A	18.44	(17130)	56.86	(35214)
12065	XOO, OOX	41 17/64	(1048)	74 47/64	(1898)	21.42	(19895)	N/A	N/A	21.42	(19895)	64.53	(39967)
12068	XOO, OOX	41 17/64	(1048)	77 15/64	(1962)	22.13	(20561)	N/A	N/A	22.13	(20561)	66.77	(41354)
12070	XOO, OOX	41 17/64	(1048)	81 15/64	(2063)	23.28	(21626)	N/A	N/A	23.28	(21626)	70.35	(43574)
12080	XOO, OOX	41 17/64	(1048)	90 47/64	(2305)	26.00	(24155)	N/A	N/A	26.00	(24155)	78.86	(48845)
7665	OXO	23 19/64	(592)	74 47/64	(1898)	12.09	(11229)	N/A	N/A	12.09	(11229)	37.52	(34855)
7668	OXO	23 19/64	(592)	77 15/64	(1962)	12.49	(11605)	N/A	N/A	12.49	(11605)	38.82	(36065)
7670	OXO	23 19/64	(592)	81 15/64	(2063)	13.14	(12206)	N/A	N/A	13.14	(12206)	40.90	(38000)
7680	OXO	23 19/64	(592)	90 47/64	(2305)	14.67	(13633)	N/A	N/A	14.67	(13633)	45.85	(42597)
9065	OXO	29 19/64	(744)	74 47/64	(1898)	15.20	(14122)	N/A	N/A	15.20	(14122)	46.52	(43220)
9068	OXO	29 19/64	(744)	77 15/64	(1962)	15.71	(14595)	N/A	N/A	15.71	(14595)	48.14	(44720)
9070	OXO	29 19/64	(744)	81 15/64	(2063)	16.52	(15350)	N/A	N/A	16.52	(15350)	50.72	(47120)
9080	OXO	29 19/64	(744)	90 47/64	(2305)	18.46	(17146)	N/A	N/A	18.46	(17146)	56.86	(52820)
12065	OXO	41 19/64	(1049)	74 47/64	(1898)	21.43	(19908)	N/A	N/A	21.43	(19908)	64.53	(39967)
12068	OXO	41 19/64	(1049)	77 15/64	(1962)	22.15	(20574)	N/A	N/A	22.15	(20574)	66.77	(41354)
12070	OXO	41 19/64	(1049)	81 15/64	(2063)	23.29	(21639)	N/A	N/A	23.29	(21639)	70.35	(43574)
12080	OXO	41 19/64	(1049)	90 47/64	(2305)	26.02	(24170)	N/A	N/A	26.02	(24170)	78.86	(48845)
10065	OXXO	46 57/64	(1191)	74 47/64	(1898)	24.34	(22610)	N/A	N/A	24.34	(22610)	50.02	(46473)
10068	OXXO	46 57/64	(1191)	77 15/64	(1962)	25.15	(23366)	N/A	N/A	25.15	(23366)	51.76	(48086)
10070	OXXO	46 57/64	(1191)	81 15/64	(2063)	26.45	(24576)	N/A	N/A	26.45	(24576)	54.54	(50667)
10080	OXXO	46 57/64	(1191)	90 47/64	(2305)	29.55	(27450)	N/A	N/A	29.55	(27450)	61.13	(56796)
12065	OXXO	58 57/64	(1496)	74 47/64	(1898)	30.56	(28396)	N/A	N/A	30.56	(28396)	62.03	(57627)
12068	OXXO	58 57/64	(1496)	77 15/64	(1962)	31.59	(29345)	N/A	N/A	31.59	(29345)	64.18	(59627)
12070	OXXO	58 57/64	(1496)	81 15/64	(2063)	33.22	(30865)	N/A	N/A	33.22	(30865)	67.63	(62827)
12080	OXXO	58 57/64	(1496)	90 47/64	(2305)	37.11	(34475)	N/A	N/A	37.11	(34475)	75.81	(70427)
16065	OXXO	82 57/64	(2106)	74 47/64	(1898)	43.02	(39967)	N/A	N/A	43.02	(39967)	86.04	(79934)
16068	OXXO	82 57/64	(2106)	77 15/64	(1962)	44.46	(41304)	N/A	N/A	44.46	(41304)	89.03	(82709)
16070	OXXO	82 57/64	(2106)	81 15/64	(2063)	46.76	(43443)	N/A	N/A	46.76	(43443)	93.80	(87147)
16080	OXXO	82 57/64	(2106)	90 47/64	(2305)	52.23	(48524)	N/A	N/A	52.23	(48524)	105.15	(97689)

Egress Openings

Sliding French Door

EGRESS OPENING													
Unit #		Egress Width		Egress Height		Egress Clear Opening		Floor To Clear Opening		Vent		DLO	
		Inches	(mm)	Inches	(mm)	Sq. Ft.	(cm ²)	Sq. Ft.	(cm ²)	Sq. Ft.	(cm ²)	Sq. Ft.	(cm ²)
5065	XO, OX	23 17/64	(591)	74 47/64	(1898)	12.07	(11217)	N/A	N/A	12.07	(11217)	20.85	(19371)
5068	XO, OX	23 17/64	(591)	77 15/64	(1962)	12.48	(11592)	N/A	N/A	12.48	(11592)	21.63	(20093)
5070	XO, OX	23 17/64	(591)	81 15/64	(2063)	13.12	(12192)	N/A	N/A	13.12	(12192)	22.87	(21248)
5080	XO, OX	23 17/64	(591)	90 47/64	(2305)	14.66	(13618)	N/A	N/A	14.66	(13618)	25.82	(23991)
6065	XO, OX	29 17/64	(743)	74 47/64	(1898)	15.19	(14110)	N/A	N/A	15.19	(14110)	26.44	(24566)
6068	XO, OX	29 17/64	(743)	77 15/64	(1962)	15.70	(14582)	N/A	N/A	15.70	(14582)	27.43	(25481)
6070	XO, OX	29 17/64	(743)	81 15/64	(2063)	16.51	(15337)	N/A	N/A	16.51	(15337)	29.00	(26946)
6080	XO, OX	29 17/64	(743)	90 47/64	(2305)	18.44	(17130)	N/A	N/A	18.44	(17130)	32.75	(30424)
8065	XO, OX	41 17/64	(1048)	74 47/64	(1898)	21.42	(19895)	N/A	N/A	21.42	(19895)	37.63	(34955)
8068	XO, OX	41 17/64	(1048)	77 15/64	(1962)	22.13	(20561)	N/A	N/A	22.13	(20561)	39.03	(36257)
8070	XO, OX	41 17/64	(1048)	81 15/64	(2063)	23.28	(21626)	N/A	N/A	23.28	(21626)	41.27	(38341)
8080	XO, OX	41 17/64	(1048)	90 47/64	(2305)	26.00	(24155)	N/A	N/A	26.00	(24155)	46.60	(43290)
7665	XOO, OOX	23 17/64	(591)	74 47/64	(1898)	12.07	(11217)	N/A	N/A	12.07	(11217)	31.28	(29057)
7668	XOO, OOX	23 17/64	(591)	77 15/64	(1962)	12.48	(11592)	N/A	N/A	12.48	(11592)	32.44	(30139)
7670	XOO, OOX	23 17/64	(591)	81 15/64	(2063)	13.12	(12192)	N/A	N/A	13.12	(12192)	34.31	(31872)
7680	XOO, OOX	23 17/64	(591)	90 47/64	(2305)	14.66	(13618)	N/A	N/A	14.66	(13618)	38.73	(35986)
9065	XOO, OOX	29 17/64	(743)	74 47/64	(1898)	15.19	(14110)	N/A	N/A	15.19	(14110)	39.66	(36849)
9068	XOO, OOX	29 17/64	(743)	77 15/64	(1962)	15.70	(14582)	N/A	N/A	15.70	(14582)	41.14	(38222)
9070	XOO, OOX	29 17/64	(743)	81 15/64	(2063)	16.51	(15337)	N/A	N/A	16.51	(15337)	43.51	(40418)
9080	XOO, OOX	29 17/64	(743)	90 47/64	(2305)	18.44	(17130)	N/A	N/A	18.44	(17130)	49.12	(45636)
12065	XOO, OOX	41 17/64	(1048)	74 47/64	(1898)	21.42	(19895)	N/A	N/A	21.42	(19895)	56.44	(52432)
12068	XOO, OOX	41 17/64	(1048)	77 15/64	(1962)	22.13	(20561)	N/A	N/A	22.13	(20561)	58.54	(54386)
12070	XOO, OOX	41 17/64	(1048)	81 15/64	(2063)	23.28	(21626)	N/A	N/A	23.28	(21626)	61.90	(57512)
12080	XOO, OOX	41 17/64	(1048)	90 47/64	(2305)	26.00	(24155)	N/A	N/A	26.00	(24155)	69.90	(64935)
7665	OXO	23 31/64	(596)	74 47/64	(1898)	12.19	(11322)	N/A	N/A	12.19	(11322)	31.28	(29057)
7668	OXO	23 31/64	(596)	77 15/64	(1962)	12.59	(11701)	N/A	N/A	12.59	(11701)	32.44	(30139)
7670	OXO	23 31/64	(596)	81 15/64	(2063)	13.25	(12307)	N/A	N/A	13.25	(12307)	34.31	(31872)
7680	OXO	23 31/64	(596)	90 47/64	(2305)	14.80	(13746)	N/A	N/A	14.80	(13746)	38.73	(35986)
9065	OXO	29 31/64	(749)	74 47/64	(1898)	15.30	(14215)	N/A	N/A	15.30	(14215)	39.66	(36849)
9068	OXO	29 31/64	(749)	77 15/64	(1962)	15.81	(14691)	N/A	N/A	15.81	(14691)	41.14	(38222)
9070	OXO	29 31/64	(749)	81 15/64	(2063)	16.63	(15452)	N/A	N/A	16.63	(15452)	43.51	(40418)
9080	OXO	29 31/64	(749)	90 47/64	(2305)	18.58	(17259)	N/A	N/A	18.58	(17259)	49.12	(45636)
12065	OXO	41 31/64	(1054)	74 47/64	(1898)	21.53	(20001)	N/A	N/A	21.53	(20001)	56.44	(52432)
12068	OXO	41 31/64	(1054)	77 15/64	(1962)	22.25	(20670)	N/A	N/A	22.25	(20670)	58.54	(54386)
12070	OXO	41 31/64	(1054)	81 15/64	(2063)	23.40	(21741)	N/A	N/A	23.40	(21741)	61.90	(57512)
12080	OX												

Egress Openings

Inswing French Door

EGRESS OPENING													
Unit #		Egress Width		Egress Height		Egress Clear Opening		Floor To Clear Opening		Vent		DLO	
		Inches	(mm)	Inches	(mm)	Sq. Ft.	(cm ²)	Sq. Ft.	(cm ²)	Sq. Ft.	(cm ²)	Sq. Ft.	(cm ²)
2665	X	25 21/64	(643)	75 3/4	(1924)	13.32	(12376)	N/A	N/A	13.32	(12376)	9.95	(9240)
2668	X	25 21/64	(643)	78 1/4	(1987)	13.76	(12784)	N/A	N/A	13.76	(12784)	10.32	(9584)
2670	X	25 21/64	(643)	82 1/4	(2089)	14.46	(13438)	N/A	N/A	14.46	(13438)	10.91	(10135)
2680	X	25 21/64	(643)	91 3/4	(2330)	16.14	(14990)	N/A	N/A	16.14	(14990)	12.32	(11444)
2865	X	27 21/64	(694)	75 3/4	(1924)	14.37	(13353)	N/A	N/A	14.37	(13353)	10.88	(10106)
2868	X	27 21/64	(694)	78 1/4	(1987)	14.85	(13794)	N/A	N/A	14.85	(13794)	11.28	(10482)
2870	X	27 21/64	(694)	82 1/4	(2089)	15.61	(14499)	N/A	N/A	15.61	(14499)	11.93	(11085)
2880	X	27 21/64	(694)	91 3/4	(2330)	17.41	(16174)	N/A	N/A	17.41	(16174)	13.47	(12516)
3065	X	31 21/64	(796)	75 3/4	(1924)	16.48	(15308)	N/A	N/A	16.48	(15308)	12.74	(11837)
3068	X	31 21/64	(796)	78 1/4	(1987)	17.02	(15813)	N/A	N/A	17.02	(15813)	13.22	(12279)
3070	X	31 21/64	(796)	82 1/4	(2089)	17.89	(16621)	N/A	N/A	17.89	(16621)	13.98	(12984)
3080	X	31 21/64	(796)	91 3/4	(2330)	19.96	(18541)	N/A	N/A	19.96	(18541)	15.78	(14660)
5065	XO,OX	25 1/4	(641)	75 3/4	(1924)	13.28	(12337)	N/A	N/A	13.28	(12337)	19.89	(18480)
5068	XO,OX	25 1/4	(641)	78 1/4	(1987)	13.72	(12744)	N/A	N/A	13.72	(12744)	20.63	(19169)
5070	XO,OX	25 1/4	(641)	82 1/4	(2089)	14.42	(13396)	N/A	N/A	14.42	(13396)	21.82	(20271)
5080	XO,OX	25 1/4	(641)	91 3/4	(2330)	16.08	(14943)	N/A	N/A	16.08	(14943)	24.64	(22887)
5465	XO,OX	27 1/4	(692)	75 3/4	(1924)	14.33	(13314)	N/A	N/A	14.33	(13314)	21.76	(20212)
5468	XO,OX	27 1/4	(692)	78 1/4	(1987)	14.80	(13754)	N/A	N/A	14.80	(13754)	22.57	(20965)
5470	XO,OX	27 1/4	(692)	82 1/4	(2089)	15.56	(14457)	N/A	N/A	15.56	(14457)	23.86	(22170)
5480	XO,OX	27 1/4	(692)	91 3/4	(2330)	17.36	(16127)	N/A	N/A	17.36	(16127)	26.94	(25032)
6065	XO,OX	31 1/4	(794)	75 3/4	(1924)	16.44	(15269)	N/A	N/A	16.44	(15269)	25.48	(23675)
6068	XO,OX	31 1/4	(794)	78 1/4	(1987)	16.98	(15773)	N/A	N/A	16.98	(15773)	26.43	(24557)
6070	XO,OX	31 1/4	(794)	82 1/4	(2089)	17.85	(16579)	N/A	N/A	17.85	(16579)	27.95	(25968)
6080	XO,OX	31 1/4	(794)	91 3/4	(2330)	19.91	(18495)	N/A	N/A	19.91	(18495)	31.56	(29320)
5065	XX	52 13/32	(1331)	75 3/4	(1924)	27.57	(25612)	N/A	N/A	27.57	(25612)	19.89	(18480)
5068	XX	52 13/32	(1331)	78 1/4	(1987)	28.48	(26458)	N/A	N/A	28.48	(26458)	20.63	(19169)
5070	XX	52 13/32	(1331)	82 1/4	(2089)	29.93	(27810)	N/A	N/A	29.93	(27810)	21.82	(20271)
5080	XX	52 13/32	(1331)	91 3/4	(2330)	33.39	(31023)	N/A	N/A	33.39	(31023)	24.64	(22887)
5465	XX	56 13/32	(1433)	75 3/4	(1924)	29.67	(27567)	N/A	N/A	29.67	(27567)	21.76	(20212)
5468	XX	56 13/32	(1433)	78 1/4	(1987)	30.65	(28477)	N/A	N/A	30.65	(28477)	22.57	(20965)
5470	XX	56 13/32	(1433)	82 1/4	(2089)	32.22	(29933)	N/A	N/A	32.22	(29933)	23.86	(22170)
5480	XX	56 13/32	(1433)	91 3/4	(2330)	35.94	(33390)	N/A	N/A	35.94	(33390)	26.94	(25032)
6065	XX	64 13/32	(1636)	75 3/4	(1924)	33.88	(31477)	N/A	N/A	33.88	(31477)	25.48	(23675)
6068	XX	64 13/32	(1636)	78 1/4	(1987)	35.00	(32516)	N/A	N/A	35.00	(32516)	26.43	(24557)
6070	XX	64 13/32	(1636)	82 1/4	(2089)	36.79	(34178)	N/A	N/A	36.79	(34178)	27.95	(25968)
6080	XX	64 13/32	(1636)	91 3/4	(2330)	41.04	(38126)	N/A	N/A	41.04	(38126)	31.56	(29320)

Egress Openings

Outswing French Door

EGRESS OPENING													
Unit #		Egress Width		Egress Height		Egress Clear Opening		Floor To Clear Opening		Vent		DLO	
		Inches	(mm)	Inches	(mm)	Sq. Ft.	(cm ²)	Sq. Ft.	(cm ²)	Sq. Ft.	(cm ²)	Sq. Ft.	(cm ²)
2665	X	25 37/64	(650)	76 3/32	(1933)	13.52	(12560)	N/A	N/A	13.52	(12560)	9.95	(9240)
2668	X	25 37/64	(650)	78 19/32	(1996)	13.96	(12972)	N/A	N/A	13.96	(12972)	10.32	(9584)
2670	X	25 37/64	(650)	82 19/32	(2098)	14.67	(13632)	N/A	N/A	14.67	(13632)	10.91	(10135)
2680	X	25 37/64	(650)	92 3/32	(2339)	16.36	(15200)	N/A	N/A	16.36	(15200)	12.32	(11444)
2865	X	27 37/64	(701)	76 3/32	(1933)	14.58	(13542)	N/A	N/A	14.58	(13542)	10.88	(10106)
2868	X	27 37/64	(701)	78 19/32	(1996)	15.05	(13986)	N/A	N/A	15.05	(13986)	11.28	(10482)
2870	X	27 37/64	(701)	82 19/32	(2098)	15.82	(14698)	N/A	N/A	15.82	(14698)	11.93	(11085)
2880	X	27 37/64	(701)	92 3/32	(2339)	17.64	(16468)	N/A	N/A	17.64	(16468)	13.47	(12516)
3065	X	31 37/64	(802)	76 3/32	(1933)	16.69	(15504)	N/A	N/A	16.69	(15504)	12.74	(11837)
3068	X	31 37/64	(802)	78 19/32	(1996)	17.24	(16015)	N/A	N/A	17.24	(16015)	13.22	(12279)
3070	X	31 37/64	(802)	83 19/32	(2098)	18.12	(16830)	N/A	N/A	18.12	(16830)	13.98	(12984)
3080	X	31 37/64	(802)	92 3/32	(2339)	20.20	(18765)	N/A	N/A	20.20	(18765)	15.78	(14660)
5065	XOR/OXL	25 25/64	(645)	76 3/32	(1933)	13.42	(12467)	N/A	N/A	13.42	(12467)	19.89	(18480)
5068	XOR/OXL	25 25/64	(645)	78 19/32	(1996)	13.86	(12877)	N/A	N/A	13.86	(12877)	20.63	(191690)
5070	XOR/OXL	25 25/64	(645)	82 19/32	(2098)	14.57	(13532)	N/A	N/A	14.57	(13532)	21.82	(20271)
5080	XOR/OXL	25 25/64	(645)	92 3/32	(2339)	16.24	(15088)	N/A	N/A	16.24	(15088)	24.64	(22887)
5465	XOR/OXL	27 25/64	(696)	76 3/32	(1933)	14.48	(13449)	N/A	N/A	14.48	(13449)	21.76	(20212)
5468	XOR/OXL	27 25/64	(696)	78 19/32	(1996)	14.95	(13891)	N/A	N/A	14.95	(13891)	22.57	(20965)
5470	XOR/OXL	27 25/64	(696)	82 19/32	(2098)	15.71	(14598)	N/A	N/A	15.71	(14598)	23.86	(22170)
5480	XOR/OXL	27 25/64	(696)	92 3/32	(2339)	17.52	(16277)	N/A	N/A	17.52	(16277)	26.94	(25032)
6065	XOR/OXL	31 25/64	(797)	76 3/32	(1933)	16.59	(15413)	N/A	N/A	16.59	(15413)	25.48	(23675)
6068	XOR/OXL	31 25/64	(797)	78 19/32	(1996)	17.14	(15919)	N/A	N/A	17.14	(15919)	26.43	(24557)
6070	XOR/OXL	31 25/64	(797)	82 19/32	(2098)	18.01	(16730)	N/A	N/A	18.01	(16730)	27.95	(25968)
6080	XOR/OXL	31 25/64	(797)	92 3/32	(2339)	20.08	(18654)	N/A	N/A	20.08	(18654)	31.56	(29320)
5065	XOL/OXR	25 51/64	(655)	76 3/32	(1933)	13.63	(12663)	N/A	N/A	13.63	(12663)	19.89	(18480)
5068	XOL/OXR	25 51/64	(655)	78 19/32	(1996)	14.08	(13079)	N/A	N/A	14.08	(13079)	20.63	(19169)
5070	XOL/OXR	25 51/64	(655)	82 19/32	(2098)	14.79	(13744)	N/A	N/A	14.79	(13744)	21.82	(20271)
5080	XOL/OXR	25 51/64	(655)	92 3/32	(2339)	16.50	(15325)	N/A	N/A	16.50	(15325)	24.64	(22887)
5465	XOL/OXR	27 51/64	(706)	76 3/32	(1933)	14.69	(13645)	N/A	N/A	14.69	(13645)	21.76	(20212)
5468	XOL/OXR	27 51/64	(706)	78 19/32	(1996)	15.17	(14093)	N/A	N/A	15.17	(14093)	22.57	(20965)
5470	XOL/OXR	27 51/64	(706)	82 19/32	(2098)	15.94	(14810)	N/A	N/A	15.94	(14810)	23.86	(22170)
5480	XOL/OXR	27 51/64	(706)	92 3/32	(2339)	17.77	(16513)	N/A	N/A	17.77	(16513)	26.94	(25032)
6065	XOL/OXR	31 51/64	(807)	76 3/32	(1933)	16.80	(15609)	N/A	N/A	16.80	(15609)	25.48	(23675)
6068	XOL/OXR	31 51/64	(807)	78 19/32	(1996)	17.35	(16121)	N/A	N/A	17.35	(16121)	26.43	(24557)
6070	XOL/OXR	31 51/64	(807)	82 19/32	(2098)	18.24	(16942)	N/A	N/A	18.24	(16942)	27.95	(25968)
6080	XOL/OXR	31 51/64	(807)	92 3/32	(2339)	20.33	(18890)	N/A	N/A	20.33	(18890)	31.56	(29320)
5065	XX	52 7/32	(1326)	76 35/64	(1944)	27.76	(25785)	N/A	N/A	27.76	(25785)	19.89	(18480)
5068	XX	52 7/32	(1326)	79 3/64	(2008)	28.66	(26627)	N/A	N/A	28.66	(26627)	20.63	(19169)
5070	XX	52 7/32	(1326)	83 3/64	(2109)	30.11	(27975)	N/A	N/A	30.11	(27975)	21.82	(20271)
5080	XX	52 7/32	(1326)	92 35/64	(2351)	33.56	(31175)	N/A	N/A	33.56	(31175)	24.64	(22887)
5465	XX	56 7/32	(1428)	76 35/64	(1944)	29.88	(27761)	N/A	N/A	29.88	(27761)	21.76	(20212)
5468	XX	56 7/32	(1428)	79 3/64	(2008)	30.86	(28667)	N/A	N/A	30.86	(28667)	22.57	(20965)
5470	XX	56 7/32	(1428)	83 3/64	(2109)	32.42	(30118)	N/A	N/A	32.42	(30118)	23.86	(22170)
5480	XX	56 7/32	(1428)	92 35/64	(2351)	36.13	(33563)	N/A	N/A	36.13	(33563)	26.94	(25032)
6065	XX	64 7/32	(1631)	76 35/64	(1944)	34.13	(31712)	N/A	N/A	34.13	(31712)	25.48	(23675)
6068	XX	64 7/32	(1631)	79 3/64	(2008)	35.25	(32747)	N/A	N/A	35.25	(32747)	26.43	(24557)
6070	XX	64 7/32	(1631)	83 3/64	(2109)	37.03	(34404)	N/A	N/A	37.03	(34404)	27.95	(25968)
6080	XX	64 7/32	(1631)	92 35/64	(2351)	41.27	(38340)	N/A	N/A	41.27	(38340)	31.56	(29320)
7665	OXO	25 15/32	(647)	76 3/32	(1933)	13.46	(12506)	N/A	N/A	13.46	(12506)	19.89	(18481)
7668	OXO	25 15/32	(647)	78 19									

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.

Product Type	Performance Grade
Casement	LC-PG50-C
Casement Picture	LC-PG50-FW
Awning	LC-PG50-AP
Double Hung	LC-PG40-H*
Double Hung Picture	LC-PG40-FW*
Casement Narrow Frame	LC-PG50-C
Casement Narrow Frame Picture	LC-PG50-FW
Awning Narrow Frame	LC-PG50-AP
Double Hung Insert	LC-PG40-H**
Double Hung Insert Picture	LC-PG40-FW
Gliders	LC-PG30-HS
Direct Glaze	CW-PG50-FW
Sliding Patio Doors	LC-PG40-SD***
Sliding French Doors	LC-PG40-SD****
Inswing French Doors	LC-PG30-SHD
Inswing French Doors HP	LC-PG50-SHD
Outswing French Doors G3	LC-PG40-SHD*****
Outswing French Doors G3 HP	LC-PG50-SHD
Bi-Fold Doors	LC-PG30-FLD

Impact Ratings (PG)

Sliding French Doors	+55/-65
Inswing French Doors	+55/-65
Outswing French Doors G3	+55/-65
Casement	+55/-65
Casement Picture	+55/-65
Awning	+55/-65
Double Hung	+55/-65
Double Hung Picture	+55/-65
Direct Glaze	+55/-65

All Double Hung units taller than CN76 have a rating of LC-PG35, High Performance Kit: Optional high performance upgrade kit increases design pressure rating of units to LC-PG50, and increases units taller than CN76 to LC-PG40.

Insert Double Hung units wider than CN42 have a rating of LC-PG35.

ELSPD 2 and 3 panel call sizes wider than CN60 or taller than CN70 are LC-PG30-SD,

ELSPD 3 and 4 panel call sizes wider than CN90 are LC-PG25-SD

ELSFD 2 and 3 panel call sizes taller than CN70 or wider than CN90 are LC-PG30-SD,

ELSFD 4 panel units are LC-PG30-SD, High performance option available for ELSFD 2

and 3 panel units up to CN90 widths and CN80 heights which increases design pressure

rating of units to LC-PG50-SD

*ELOFDG3 OO is PG30. OXO up to CN9080 is PG30, up to CN9068 is PG40,



Elevate IZ3 certified products are designed for the extreme conditions of coastal areas.

Zone 3 meets International Building Codes for coastal areas in Atlantic and Gulf Coast states and is tested to withstand winds from 120 mph to 140 mph.

Products are tested using an 8' long 2" x 4" stud launched at 50' per second to ensure they withstand impact to the center and corners. Then the testing

includes application of pressure tests to 9,000 cycles to simulate hurricane force winds.



Sound Transmission

PRODUCT TYPE	EXTERIOR GLAZING	AIR SPACE	INTERIOR GLAZING OR CENTER GLAZING	AIRSPACE	INTERIOR GLAZING	STC	OITC
Casement/Awning							
ELCA	1/8" (3.1)	15/32" (11.5)	1/8" (3.1)	--	--	28	24
	1/8" (3.1)	13/32" (9.8)	3/16" (4.7)	--	--	32	28
	1/8" (3.1)	13/32" (9.8)	1/8" (3.1)	13/32" (9.8)	1/8" (3.1)	28	24
	1/8" (3.1)	5/16" (7.5)	9/32" (6.9) PVB laminate	--	--	33	29
	5/32" (3.9)	9/32" (7.0)	9/32" (6.9) SGP laminate	--	--	31	28
ELCA P	1/8" (3.1)	15/32" (11.5)	1/8" (3.1)	--	--	27	23
	1/8" (3.1)	13/32" (9.8)	3/16" (4.7)	--	--	31	27
	1/8" (3.1)	13/32" (9.8)	1/8" (3.1)	13/32" (9.8)	1/8" (3.1)	28	21
	1/8" (3.1)	5/16" (7.5)	9/32" (6.9) PVB laminate	--	--	32	27
	5/32" (3.9)	9/32" (7.0)	9/32" (6.9) SGP laminate	--	--	30	27
ELAWN	1/8" (3.1)	15/32" (11.5)	1/8" (3.1)	--	--	29	24
	1/8" (3.1)	13/32" (9.8)	3/16" (4.7)	--	--	32	27
	1/8" (3.1)	13/32" (9.8)	1/8" (3.1)	13/32" (9.8)	1/8" (3.1)	30	24
	1/8" (3.1)	5/16" (7.5)	9/32" (6.9) PVB laminate	--	--	32	28
	5/32" (3.9)	9/32" (7.0)	9/32" (6.9) SGP laminate	--	--	31	27
Double Hung							
ELDH	1/8" (3.1)	15/32" (11.5)	1/8" (3.1)	--	--	27	23
	1/8" (3.1)	13/32" (9.8)	3/16" (4.7)	--	--	30	26
	1/8" (3.1)	5/16" (7.5)	9/32" (6.9) PVB laminate	--	--	32	28
	1/8" (3.1)	15/32" (11.5)	1/8" (3.1)	--	--	27	23
	1/8" (3.1)	13/32" (9.8)	3/16" (4.7)	--	--	31	26
ELDH P	1/8" (3.1)	5/16" (7.5)	9/32" (6.9) PVB laminate	--	--	32	27
	5/32" (3.9)	9/32" (7.0)	9/32" (6.9) SGP laminate	--	--	31	27
	Casement Narrow Frame						
ELCANF	1/8" (3.1)	15/32" (11.5)	1/8" (3.1)	--	--	28	25
	1/8" (3.1)	13/32" (9.8)	3/16" (4.7)	--	--	33	29
ELAWN NF	1/8" (3.1)	15/32" (11.5)	1/8" (3.1)	--	--	28	24
	1/8" (3.1)	13/32" (9.8)	3/16" (4.7)	--	--	32	27
ELCANF P	1/8" (3.1)	15/32" (11.5)	1/8" (3.1)	--	--	26	22
	1/8" (3.1)	13/32" (9.8)	3/16" (4.7)	--	--	31	27
Double Hung Insert							
ELDHIN	1/8" (3.1)	15/32" (11.5)	1/8" (3.1)	--	--	29	24
	1/8" (3.1)	13/32" (9.8)	3/16" (4.7)	--	--	31	27
ELDHIN P	1/8" (3.1)	15/32" (11.5)	1/8" (3.1)	--	--	27	23
	1/8" (3.1)	13/32" (9.8)	3/16" (4.7)	--	--	31	26
Glider							
ELGL	1/8" (3.1)	15/32" (11.5)	1/8" (3.1)	--	--	28	23
	1/8" (3.1)	13/32" (9.8)	3/16" (4.7)	--	--	30	27
Sliding Patio Door							
ELSPD	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							
ELSPD	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							
ELIFD	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 G3							
ELOFDG3	1/8" (3.1)	17/32" (13.0)	1/8" (3.1)	--	--	30	25
	1/8" (3.1)	15/32" (11.5)	3/16" (4.7)	--	--	32	28
	5/32" (3.9)	5/16" (8.0)	9/32" (6.9) SGP laminate	--	--	32	30
Direct Glaze							
ELDG (CASEMENT FRAME)	1/8" (3.1)	15/32" (11.5)	1/8" (3.1)	--	--	28	23
	1/8" (3.1)	17/32" (13.0)	3/16" (4.7)	--	--	32	27
	1/8" (3.1)	13/32" (9.8)	1/8" (3.1)	13/32" (9.8)	1/8" (3.1)	28	23
	5/16" (3.9)	17/32" (13.0)	9/32" (6.9) PVB laminate	--	--	33	28
	1/4" (5.7)	13/32" (9.8)	13/32" (10.1) SGP laminate	--	--	35	31
ELDG (DOUBLE HUNG AND DOOR FRAME)	1/8" (3.1)	15/32" (11.5)	1/8" (3.1)	--	--	27	22
	1/8" (3.1)	17/32" (13.0)	3/16" (4.7)	--	--	31	26
	5/16" (3.9)	17/32" (13.0)	9/32" (6.9) PVB laminate	--	--	34	28
1/4" (5.7)	13/32" (9.8)	13/32" (10.1) SGP laminate	--	--	34	30	

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

ALTITUDE LIMITS (FEET)							
UNIT SIZE	17	21	25	29	33	37	
31	Annealed	4000	5000	6000	7000	8000	8000
	Tempered	7000	9000	10000	10000	10000	10000
35	Annealed	4000	5000	6000	7000	8000	9000
	Tempered	7000	10000	10000	10000	10000	10000
39	Annealed	4000	5000	6000	7000	9000	10000
	Tempered	8000	10000	10000	10000	10000	10000
43	Annealed	4000	5000	6000	8000	9000	10000
	Tempered	8000	10000	10000	10000	10000	10000
47	Annealed	4000	5000	6000	8000	9000	10000
	Tempered	8000	10000	10000	10000	10000	10000
55	Annealed	4000	5000	6000	8000	9000	10000
	Tempered	9000	10000	10000	10000	10000	10000
59	Annealed	4000	5000	6000	8000	9000	10000
	Tempered	9000	10000	10000	10000	10000	10000
63	Annealed	4000	5000	6000	8000	10000	10000
	Tempered	9000	10000	10000	10000	10000	10000
71	Annealed	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	9000	10000	10000	10000	10000	10000

Casement STC

ALTITUDE LIMITS (FEET)							
UNIT SIZE	17	21	25	29	33	37	
31	Annealed	3000	4000	5000	6000	7000	7000
	Tempered	6000	8000	9000	10000	10000	10000
35	Annealed	3000	4000	5000	6000	7000	8000
	Tempered	6000	8000	10000	10000	10000	10000
39	Annealed	3000	4000	5000	6000	7000	8000
	Tempered	6000	9000	10000	10000	10000	10000
43	Annealed	3000	4000	5000	6000	7000	8000
	Tempered	7000	9000	10000	10000	10000	10000
47	Annealed	3000	4000	5000	6000	8000	9000
	Tempered	7000	10000	10000	10000	10000	10000
55	Annealed	3000	4000	5000	7000	8000	9000
	Tempered	7000	10000	10000	10000	10000	10000
59	Annealed	3000	4000	5000	7000	8000	9000
	Tempered	7000	10000	10000	10000	10000	10000
63	Annealed	3000	4000	5000	7000	8000	9000
	Tempered	7000	10000	10000	10000	10000	10000
71	Annealed	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	7000	10000	10000	10000	10000	10000

Casement Tripane

ALTITUDE LIMITS (FEET)							
UNIT SIZE	17	21	25	29	33	37	
31	Annealed	N/A	N/A	4000	5000	5000	6000
	Tempered	N/A	N/A	8000	9000	9000	10000
35	Annealed	3000	3000	4000	5000	6000	6000
	Tempered	5000	7000	8000	9000	10000	10000
39	Annealed	3000	3000	4000	5000	6000	7000
	Tempered	6000	7000	9000	10000	10000	10000
43	Annealed	3000	3000	4000	5000	6000	7000
	Tempered	6000	8000	10000	10000	10000	10000
47	Annealed	3000	3000	4000	5000	6000	7000
	Tempered	6000	8000	10000	10000	10000	10000
55	Annealed	3000	3000	4000	5000	6000	7000
	Tempered	6000	9000	10000	10000	10000	10000
59	Annealed	3000	3000	4000	5000	6000	7000
	Tempered	6000	9000	10000	10000	10000	10000
63	Annealed	3000	3000	4000	5000	7000	8000
	Tempered	7000	10000	10000	10000	10000	10000
71	Annealed	3000	3000	4000	N/A	N/A	N/A
	Tempered	7000	10000	10000	10000	10000	10000

Casement Picture

ALTITUDE LIMITS (FEET)											
UNIT SIZE	17	21	25	29	33	37	41	49	57	73	
19	Annealed	4000	4000	4000	5000	5000	5000	5000	5000	5000	5000
	Tempered	5000	6000	7000	8000	9000	9000	10000	10000	10000	10000
23	Annealed	4000	5000	5000	6000	6000	6000	6000	6000	6000	6000
	Tempered	6000	7000	9000	10000	10000	10000	10000	10000	10000	10000
27	Annealed	4000	5000	6000	7000	7000	7000	7000	7000	8000	7000
	Tempered	6000	8000	10000	10000	10000	10000	10000	10000	10000	10000
31	Annealed	4000	5000	6000	7000	8000	8000	8000	9000	9000	9000
	Tempered	7000	9000	10000	10000	10000	10000	10000	10000	10000	10000
35	Annealed	4000	5000	6000	7000	8000	9000	8000	10000	10000	10000
	Tempered	7000	10000	10000	10000	10000	10000	10000	10000	10000	10000
39	Annealed	4000	5000	6000	7000	9000	10000	10000	10000	10000	10000
	Tempered	8000	10000	10000	10000	10000	10000	10000	10000	10000	10000
43	Annealed	4000	5000	6000	8000	9000	10000	10000	10000	10000	10000
	Tempered	8000	10000	10000	10000	10000	10000	10000	10000	10000	10000
47	Annealed	4000	5000	6000	8000	9000	10000	10000	10000	10000	10000
	Tempered	8000	10000	10000	10000	10000	10000	10000	10000	10000	10000
55	Annealed	4000	5000	6000	8000	9000	10000	10000	10000	10000	10000
	Tempered	9000	10000	10000	10000	10000	10000	10000	10000	10000	10000
59	Annealed	4000	5000	6000	8000	9000	10000	10000	10000	10000	N/A
	Tempered	9000	10000	10000	10000	10000	10000	10000	10000	10000	10000
63	Annealed	4000	5000	6000	8000	10000	10000	10000	10000	10000	N/A
	Tempered	9000	10000	10000	10000	10000	10000	10000	10000	10000	N/A
71	Annealed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	9000	10000	10000	10000	10000	10000	10000	10000	10000	N/A

Altitude Guidelines

Casement Picture STC

ALTITUDE LIMITS (FEET)											
UNIT SIZE	17	21	25	29	33	37	41	49	57	73	
19	Annealed	3000	4000	4000	4000	4000	4000	4000	4000	4000	4000
	Tempered	4000	5000	6000	7000	7000	8000	8000	9000	10000	10000
23	Annealed	3000	4000	4000	4000	5000	5000	5000	5000	5000	5000
	Tempered	5000	6000	7000	8000	9000	10000	10000	10000	10000	10000
27	Annealed	3000	4000	5000	5000	6000	6000	6000	6000	6000	6000
	Tempered	5000	7000	8000	10000	10000	10000	10000	10000	10000	10000
31	Annealed	3000	4000	5000	6000	7000	7000	7000	7000	7000	8000
	Tempered	6000	8000	9000	10000	10000	10000	10000	10000	10000	10000
35	Annealed	3000	4000	5000	6000	7000	8000	8000	8000	9000	9000
	Tempered	6000	8000	10000	10000	10000	10000	10000	10000	10000	10000
39	Annealed	3000	4000	5000	6000	7000	8000	9000	10000	10000	N/A
	Tempered	6000	9000	10000	10000	10000	10000	10000	10000	10000	10000
43	Annealed	3000	4000	5000	6000	7000	8000	9000	10000	10000	N/A
	Tempered	7000	9000	10000	10000	10000	10000	10000	10000	10000	N/A
47	Annealed	3000	4000	5000	6000	8000	9000	10000	10000	10000	N/A
	Tempered	7000	10000	10000	10000	10000	10000	10000	10000	10000	N/A
55	Annealed	3000	4000	5000	7000	8000	9000	10000	10000	10000	N/A
	Tempered	7000	10000	10000	10000	10000	10000	10000	10000	10000	N/A
59	Annealed	3000	4000	5000	7000	8000	9000	10000	N/A	N/A	N/A
	Tempered	7000	10000	10000	10000	10000	10000	10000	N/A	N/A	N/A
63	Annealed	3000	4000	5000	7000	8000	9000	10000	N/A	N/A	N/A
	Tempered	7000	10000	10000	10000	10000	10000	10000	N/A	N/A	N/A
71	Annealed	N/A	N/A	N/A	N/A	N/A	N/A	10000	N/A	N/A	N/A
	Tempered	7000	10000	10000	10000	10000	10000	10000	N/A	N/A	N/A

Casement Picture Tripane

ALTITUDE LIMITS (FEET)											
UNIT SIZE	17	21	25	29	33	37	41	49	57	73	
19	Annealed	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
	Tempered	4000	4000	5000	6000	6000	7000	8000	9000	9000	
23	Annealed	3000	3000	4000	4000	4000	4000	4000	4000	4000	
	Tempered	4000	5000	6000	7000	8000	8000	9000	10000	10000	
27	Annealed	3000	3000	4000	4000	5000	5000	5000	5000	5000	
	Tempered	5000	6000	7000	8000	9000	9000	10000	10000	10000	
31	Annealed	3000	3000	4000	5000	5					

Altitude Guidelines

Double Hung Insert - Annealed Glass

ALTITUDE LIMITS (FEET)

Frame Size	18	21	25	28	31	34	38	54
28.5	4000	4000	4000	4000	4000	4000	4000	4000
38	4000	4000	4000	4000	4000	4000	4000	4000
46	4000	4000	5000	5000	5000	5000	5000	5000
52	4000	4000	5000	6000	6000	6000	6000	6000
58	4000	4000	5000	6000	7000	7000	7000	7000
64	4000	4000	5000	6000	7000	8000	8000	8000
72	4000	4000	5000	6000	7000	8000	9000	9000
84	4000	4000	5000	6000	7000	8000	9000	10000

Double Hung Insert - Tempered Glass

ALTITUDE LIMITS (FEET)

Frame Size	18	20	21	23	25	26	54
28.5	4000	4000	4000	4000	4000	4000	4000
32	4000	4000	4000	4000	4000	4000	4000
36	5000	5000	5000	5000	5000	5000	5000
38	5000	5000	6000	6000	6000	6000	6000
42	5000	5000	6000	7000	7000	7000	7000
46	5000	5000	6000	7000	8000	8000	8000
48	5000	5000	6000	7000	8000	9000	9000
84	5000	5000	6000	7000	8000	9000	10000

Double Hung Insert - Annealed Glass STC

ALTITUDE LIMITS (FEET)

Frame Size	18	20	26	29	33	36	39	42	54
28.5	3000	3000	3000	3000	3000	3000	3000	3000	3000
36	3000	3000	3000	3000	3000	3000	3000	3000	3000
48	3000	3000	4000	4000	4000	4000	4000	4000	4000
54	3000	3000	4000	5000	5000	5000	5000	5000	5000
62	3000	3000	4000	5000	6000	6000	6000	6000	6000
68	3000	3000	4000	5000	6000	7000	7000	7000	7000
74	3000	3000	4000	5000	6000	7000	8000	8000	8000
80	3000	3000	4000	5000	6000	7000	8000	9000	9000
84	3000	3000	4000	5000	6000	7000	8000	9000	10000

Double Hung Insert - Tempered Glass STC

ALTITUDE LIMITS (FEET)

Frame Size	18	20	22	24	25	27	29	54
28.5	4000	4000	4000	4000	4000	4000	4000	4000
36	4000	4000	4000	4000	4000	4000	4000	4000
40	4000	4000	5000	5000	5000	5000	5000	5000
44	4000	4000	5000	6000	6000	6000	6000	6000
46	4000	4000	5000	6000	7000	7000	7000	7000
50	4000	4000	5000	6000	7000	8000	8000	8000
54	4000	4000	5000	6000	7000	8000	9000	9000
84	4000	4000	5000	6000	7000	8000	9000	10000

Double Hung Insert Picture/Transom - Annealed Glass

ALTITUDE LIMITS (FEET)

Frame Size	18	21	25	28	31	34	38	62
16.5	4000	4000	4000	4000	4000	4000	4000	4000
21.25	4000	4000	4000	4000	4000	4000	4000	4000
25.25	4000	4000	5000	5000	5000	5000	5000	5000
28.25	4000	4000	5000	6000	6000	6000	6000	6000
31.25	4000	4000	5000	6000	7000	7000	7000	7000
34.25	4000	4000	5000	6000	7000	8000	8000	8000
38.25	4000	4000	5000	6000	7000	8000	9000	9000
84	4000	4000	5000	6000	7000	8000	9000	10000

Double Hung Insert Picture/Transom - Tempered Glass

ALTITUDE LIMITS (FEET)

Frame Size	18	20	21	23	25	26	62
16.5	4000	4000	4000	4000	4000	4000	4000
18.25	4000	4000	4000	4000	4000	4000	4000
20.25	5000	5000	5000	5000	5000	5000	5000
21.25	5000	5000	6000	6000	6000	6000	6000
23.25	5000	5000	6000	7000	7000	7000	7000
25.25	5000	5000	6000	7000	8000	8000	8000
26.25	5000	5000	6000	7000	8000	9000	9000
84	5000	5000	6000	7000	8000	9000	10000

Double Hung Insert Picture/Transom - Annealed Glass STC

ALTITUDE LIMITS (FEET)

Frame Size	18	20	26	29	33	36	39	42	62
16.5	3000	3000	3000	3000	3000	3000	3000	3000	3000
20.25	3000	3000	3000	3000	3000	3000	3000	3000	3000
26.25	3000	3000	4000	4000	4000	4000	4000	4000	4000
29.25	3000	3000	4000	5000	5000	5000	5000	5000	5000
33.25	3000	3000	4000	5000	6000	6000	6000	6000	6000
36.25	3000	3000	4000	5000	6000	7000	7000	7000	7000
39.25	3000	3000	4000	5000	6000	7000	8000	8000	8000
42.25	3000	3000	4000	5000	6000	7000	8000	9000	9000
84	3000	3000	4000	5000	6000	7000	8000	9000	10000

Double Hung Insert Picture/Transom - Tempered Glass STC

ALTITUDE LIMITS (FEET)

Frame Size	18	20	22	24	25	27	29	62
16.5	4000	4000	4000	4000	4000	4000	4000	4000
20.25	4000	4000	4000	4000	4000	4000	4000	4000
22.25	4000	4000	5000	5000	5000	5000	5000	5000
24.25	4000	4000	5000	6000	6000	6000	6000	6000
25.25	4000	4000	5000	6000	7000	7000	7000	7000
27.25	4000	4000	5000	6000	7000	8000	8000	8000
29.25	4000	4000	5000	6000	7000	8000	9000	9000
84	4000	4000	5000	6000	7000	8000	9000	10000

Altitude Guidelines

Aluminum Direct Glaze Round Tops

ALTITUDE LIMITS (FEET)

UNIT SIZE		
2499 ELALDG RT Casement	Annealed	5000
	Tempered	N/A
2500 ELALDG RT Casement	Annealed	5000
	Tempered	N/A
3301 ELALDG RT Casement	Annealed	4000
	Tempered	N/A
3302 ELALDG RT Casement	Annealed	9000
	Tempered	N/A
3320 ELALDG RT Casement	Annealed	5000
	Tempered	N/A
3328 ELALDG RT Casement	Annealed	7000
	Tempered	N/A
2118 ELALDG RT Casement	Annealed	4000
	Tempered	N/A
2519 ELALDG RT Casement	Annealed	4000
	Tempered	N/A
2526 ELALDG RT Casement	Annealed	6000
	Tempered	N/A
2920 ELALDG RT Casement	Annealed	5000
	Tempered	N/A
2928 ELALDG RT Casement	Annealed	6000
	Tempered	N/A
3701 ELALDG RT Casement	Annealed	4000
	Tempered	N/A
3702 ELALDG RT Casement	Annealed	9000
	Tempered	N/A
3722 ELALDG RT Casement	Annealed	5000
	Tempered	N/A
3729 ELALDG RT Casement	Annealed	7000
	Tempered	N/A
3765 ELALDG RT Casement	Annealed	8000
	Tempered	10000
3777 ELALDG RT Casement	Annealed	7000
	Tempered	10000
4121 ELALDG RT Casement	Annealed	5000
	Tempered	N/A
4128 ELALDG RT Casement	Annealed	7000
	Tempered	10000
4164 ELALDG RT Casement	Annealed	10000
	Tempered	10000
4921 ELALDG RT Casement	Annealed	5000
	Tempered	N/A
4929 ELALDG RT Casement	Annealed	8000
	Tempered	10000
4965 ELALDG RT Casement	Annealed	10000
	Tempered	10000
5724 ELALDG RT Casement	Annealed	6000
	Tempered	N/A
5731 ELALDG RT Casement	Annealed	9000
	Tempered	10000
5767 ELALDG RT Casement	Annealed	10000
	Tempered	10000
5771 ELALDG RT Casement	Annealed	N/A
	Tempered	N/A
5783 ELALDG RT Casement	Annealed	N/A
	Tempered	N/A

Aluminum Direct Glaze Round Tops

ALTITUDE LIMITS (FEET)

UNIT SIZE		
6523 ELALDG RT Casement	Annealed	6000
	Tempered	N/A
6531 ELALDG RT Casement	Annealed	9000
	Tempered	10000
6567 ELALDG RT Casement	Annealed	10000
	Tempered	10000
7325 ELALDG RT Casement	Annealed	5000
	Tempered	N/A
7333 ELALDG RT Casement	Annealed	4000
	Tempered	7000
7359 ELALDG RT Casement	Annealed	10000
	Tempered	10000
7369 ELALDG RT Casement	Annealed	N/A
	Tempered	10000
2999 ELALDG RT Double Hung	Annealed	7000
	Tempered	N/A
3000 ELALDG RT Double Hung	Annealed	7000
	Tempered	N/A
3002 ELALDG RT Double Hung	Annealed	8000
	Tempered	N/A
3021 ELALDG RT Double Hung	Annealed	5000
	Tempered	N/A
3399 ELALDG RT Double Hung	Annealed	8000
	Tempered	N/A
3400 ELALDG RT Double Hung	Annealed	8000
	Tempered	N/A
3421 ELALDG RT Double Hung	Annealed	5000
	Tempered	N/A
3599 ELALDG RT Double Hung	Annealed	9000
	Tempered	N/A
3600 ELALDG RT Double Hung	Annealed	9000
	Tempered	N/A
3622 ELALDG RT Double Hung	Annealed	5000
	Tempered	N/A
3636 ELALDG RT Double Hung	Annealed	9000
	Tempered	N/A
2602 ELALDG RT Double Hung	Annealed	7000
	Tempered	N/A
2619 ELALDG RT Double Hung	Annealed	5000
	Tempered	N/A
3820 ELALDG RT Double Hung	Annealed	5000
	Tempered	N/A
4202 ELALDG RT Double Hung	Annealed	10000
	Tempered	N/A
4222 ELALDG RT Double Hung	Annealed	5000
	Tempered	N/A
5222 ELALDG RT Double Hung	Annealed	6000
	Tempered	N/A
5266 ELALDG RT Double Hung	Annealed	10000
	Tempered	N/A
6025 ELALDG RT Double Hung	Annealed	7000
	Tempered	N/A
6032 ELALDG RT Double Hung	Annealed	9000
	Tempered	10000
6069 ELALDG RT Double Hung	Annealed	10000
	Tempered	10000
6069 ELALDG RT Double Hung	Annealed	10000
	Tempered	10000
7225 ELDG RT Door		

Altitude Guidelines

Sliding French Door

ALTITUDE LIMITS (FEET)

UNIT SIZE	50	60	76	80	90	100	120	160
65	Annealed	N/A						
	Tempered	10000	10000	10000	10000	10000	10000	10000
68	Annealed	N/A						
	Tempered	10000	10000	10000	10000	10000	10000	10000
70	Annealed	N/A						
	Tempered	10000	10000	10000	N/A	10000	10000	10000
80	Annealed	N/A						
	Tempered	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
	Tempered	10000	10000	10000	10000	10000
68	Annealed	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000
70	Annealed	N/A	N/A	N/A	N/A	N/A
	Tempered	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
	Tempered	10000	10000	10000	10000	10000
68	Annealed	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000
70	Annealed	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000
80	Annealed	N/A	N/A	N/A	N/A	N/A
	Tempered	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
	Tempered	10000	10000	10000	10000	10000
68	Annealed	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000
70	Annealed	N/A	N/A	N/A	N/A	N/A
	Tempered	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
	Tempered	10000	10000	10000	10000	10000
68	Annealed	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000
70	Annealed	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000
80	Annealed	N/A	N/A	N/A	N/A	N/A
	Tempered	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
	Tempered	10000	10000	10000	10000	10000
68	Annealed	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000
70	Annealed	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000

Altitude Guidelines

Sliding Patio Door

ALTITUDE LIMITS (FEET)

UNIT SIZE	50	60	76	80	90	100	120	160
65	Annealed	N/A						
	Tempered	10000	10000	10000	10000	10000	10000	10000
68	Annealed	N/A						
	Tempered	10000	10000	10000	10000	10000	10000	10000
70	Annealed	N/A						
	Tempered	10000	10000	10000	N/A	10000	10000	10000
80	Annealed	N/A						
	Tempered	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						
	Tempered	10000	10000	10000	10000	10000	10000	10000
68	Annealed	N/A						
	Tempered	10000	10000	10000	10000	10000	10000	10000
70	Annealed	N/A						
	Tempered	10000	10000	10000	N/A	10000	10000	10000
80	Annealed	N/A						
	Tempered	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												
	Tempered	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
68	Annealed	N/A												
	Tempered	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
70	Annealed	N/A												
	Tempered	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	N/A	10000	10000
80	Annealed	N/A												
	Tempered	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												
	Tempered	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
68	Annealed	N/A												
	Tempered	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
70	Annealed	N/A												
	Tempered	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	N/A	10000	10000
80	Annealed	N/A												
	Tempered	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.

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