

ELEVATE

MARVIN ELEVATE® COLLECTION



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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.

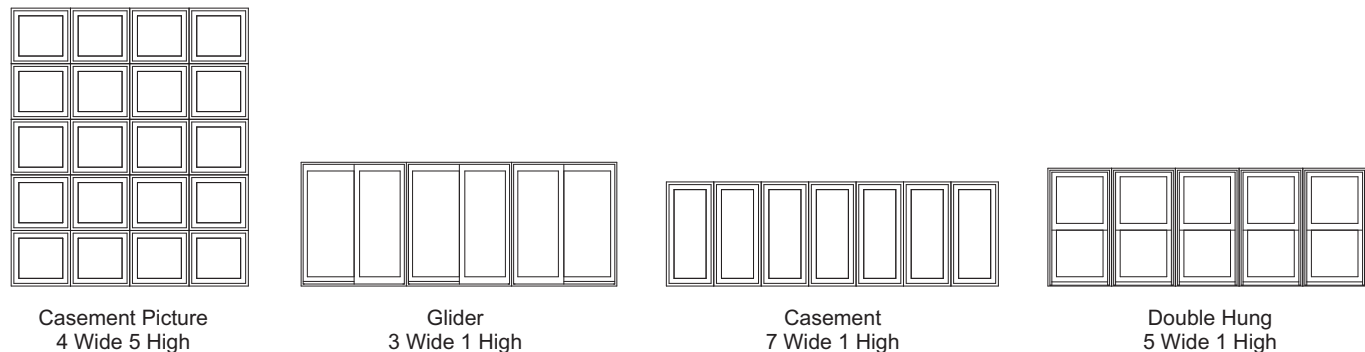
You'll notice four measurements for each window or door: masonry opening, rough opening, frame size and day light opening size. The masonry opening (MO) is for a home built with brick or stone; rough openings (RO) are for houses with wood, vinyl or metal siding. Frame size (FS) measures from edge to 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 (482)					
1-7 5/8 (488)	ELAWN2519	ELAWN2919	ELAWN3319	ELAWN3719	ELAWN4919
1-7 1/8 (486)					
1-1 29/32 (353)					

Mulling Options - A variety of factory mull combinations are available, See Page 67 for certified mull chart. Field mulling kits available to create your own unique multiple assemblies. Please contact your local Marvin representative for more information.

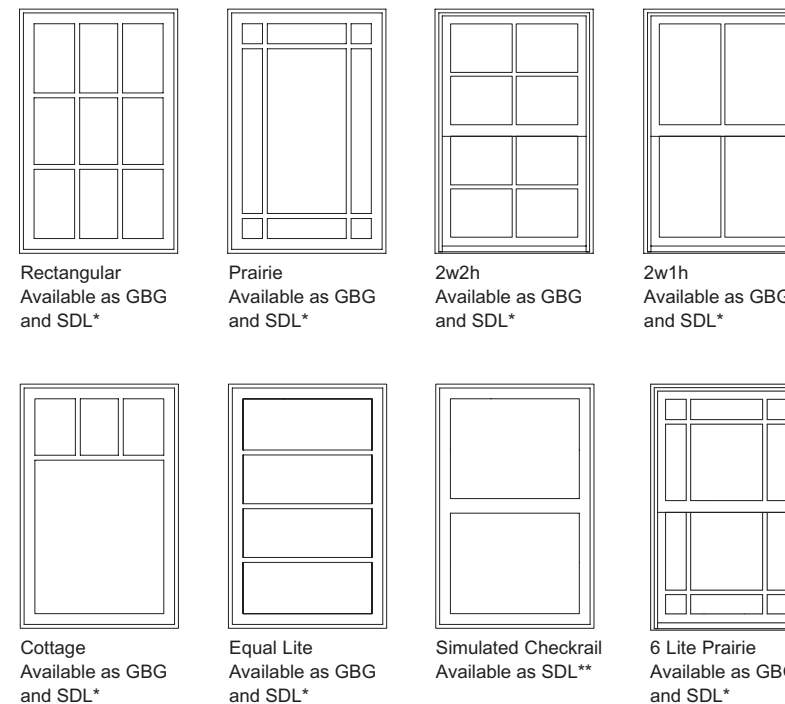
Examples of Possible Configurations



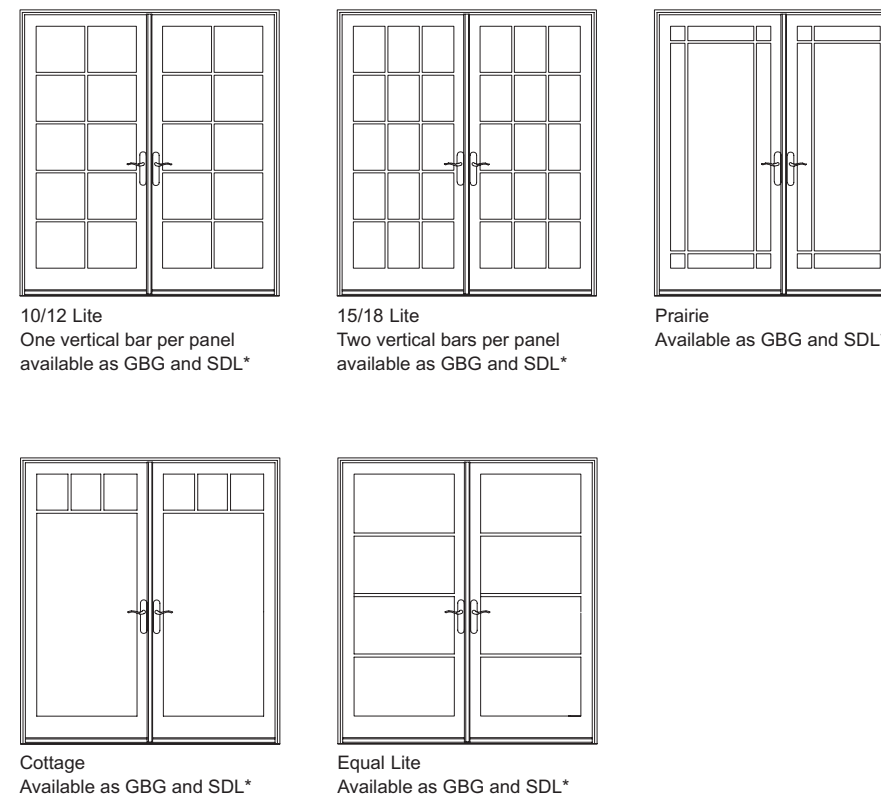
The information provided in this catalog has been gathered and assembled with every effort made to validate accuracy and consistency of the content. However, Marvin does not make any warranty or guarantee as to this information. Please verify critical product data in Marvin Order Management System (OMS)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

LITE CUTS

Windows



Doors



* 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.

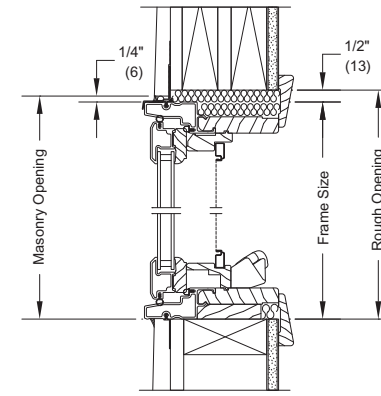
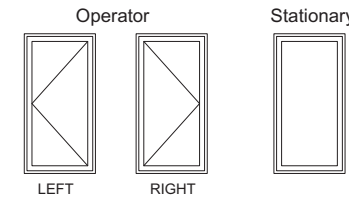
MO (mm)	1-4 1/2 (419)	1-8 1/2 (521)	2-0 1/2 (622)	2-4 1/2 (724)	2-8 1/2 (826)	3-0 1/2 (927)
RO (mm)	1-5 (432)	1-9 (533)	2-1 (635)	2-5 (737)	2-9 (838)	3-1 (940)
FS (mm)	1-4 (406)	1-8 (508)	2-0 (610)	2-4 (711)	2-8 (813)	3-0 (914)
DLO (mm)	0-10 25/32 (274)	1-2 25/32 (376)	1-6 25/32 (477)	1-10 25/32 (579)	2-2 25/32 (680)	2-6 25/32 (782)

2-7 3/8 (797)						
ELCA1731	ELCA2131	ELCA2531	ELCA2931	ELCA3331	ELCA3731	
2-7 5/8 (803)						
ELCA1735	ELCA2135	ELCA2535	ELCA2935	ELCA3335	ELCA3735 E*	
2-11 3/8 (898)						
ELCA1739	ELCA2139	ELCA2539	ELCA2939	ELCA3339	ELCA3739 E*	
2-11 5/8 (905)						
ELCA1743	ELCA2143	ELCA2543	ELCA2943 E	ELCA3343 E	ELCA3743 E	
2-11 1/8 (892)						
ELCA1747	ELCA2147	ELCA2547	ELCA2947 E	ELCA3347 E	ELCA3747 E	
2-5 29/32 (760)						
ELCA1755	ELCA2155	ELCA2555	ELCA2955 E	ELCA3355 E	ELCA3755 E	
3-3 3/8 (1000)						
ELCA1759	ELCA2159	ELCA2559	ELCA2959 E	ELCA3359 E	ELCA3759 E	
3-3 5/8 (1006)						
ELCA1763	ELCA2163	ELCA2563	ELCA2963 E	ELCA3363 E	ELCA3763 E	
3-7 1/2 (1105)						
ELCA1771 T	ELCA2171 T	ELCA2571 T	ELCA2971 ET	ELCA3371 ET	ELCA3771 ET	

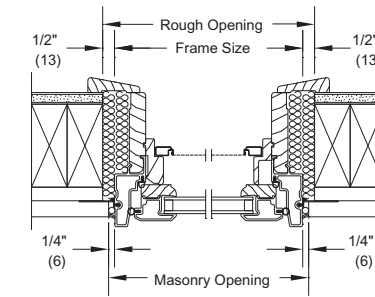
CASEMENT

Construction Details

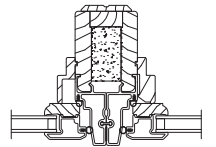
Casements available as an operator or stationary.
 L or R handing determined from exterior.



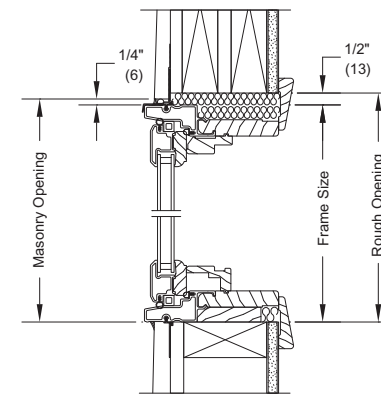
Operator Head Jamb and Sill



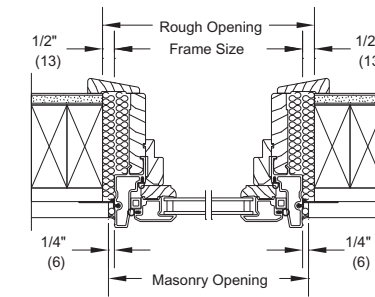
Operator Jamb



Vertical Mullion



Stationary Head Jamb and Sill



Stationary Jamb

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)	ELCA1731 2W	ELCA2131 2W	ELCA2531 2W	ELCA2931 2W	ELCA3331 2W	ELCA3731 2W
2-11 3/8 (898) 2-11 5/8 (905) 2-11 1/8 (892)	ELCA1735 2W	ELCA2135 2W	ELCA2535 2W	ELCA2935 2W	ELCA3335 2W	ELCA3735 2W E*
3-3 3/8 (1000) 3-3 5/8 (1006) 3-3 1/8 (994)	ELCA1739 2W	ELCA2139 2W	ELCA2539 2W	ELCA2939 2W	ELCA3339 2W	ELCA3739 2W E*
3-7 1/2 (1105) 3-7 3/4 (1111) 3-7 1/4 (1099)	ELCA1743 2W	ELCA2143 2W	ELCA2543 2W	ELCA2943 2W E	ELCA3343 2W E	ELCA3743 2W E
3-11 3/8 (1203) 3-11 5/8 (1210) 3-11 1/8 (1197)	ELCA1747 2W	ELCA2147 2W	ELCA2547 2W	ELCA2947 2W E	ELCA3347 2W E	ELCA3747 2W E
4-7 3/8 (1406) 4-7 5/8 (1413) 4-7 1/8 (1400)	ELCA1755 2W	ELCA2155 2W	ELCA2555 2W	ELCA2955 2W E	ELCA3355 2W E	ELCA3755 2W E
4-11 3/8 (1508) 4-11 5/8 (1514) 4-11 1/8 (1502)	ELCA1759 2W	ELCA2159 2W	ELCA2559 2W	ELCA2959 2W E	ELCA3359 2W E	ELCA3759 2W E
5-3 3/8 (1610) 5-3 5/8 (1616) 5-3 1/8 (1603)	ELCA1763 2W	ELCA2163 2W	ELCA2563 2W	ELCA2963 2W E	ELCA3363 2W E	ELCA3763 2W E
5-11 3/8 (1813) 5-11 5/8 (1819) 5-11 1/8 (1807)	ELCA1771 2W T	ELCA2171 2W T	ELCA2571 2W T	ELCA2971 2W ET	ELCA3371 2W ET	ELCA3771 2W ET

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)	ELCA1731 3W	ELCA2131 3W	ELCA2531 3W	ELCA2931 3W	ELCA3331 3W	ELCA3731 3W
2-11 3/8 (898) 2-11 5/8 (905) 2-11 1/8 (892)	ELCA1735 3W	ELCA2135 3W	ELCA2535 3W	ELCA2935 3W	ELCA3335 3W	ELCA3735 3W E*
3-3 3/8 (1000) 3-3 5/8 (1006) 3-3 1/8 (994)	ELCA1739 3W	ELCA2139 3W	ELCA2539 3W	ELCA2939 3W	ELCA3339 3W	ELCA3739 3W E*
3-7 1/2 (1105) 3-7 3/4 (1111) 3-7 1/4 (1099)	ELCA1743 3W	ELCA2143 3W	ELCA2543 3W	ELCA2943 3W E	ELCA3343 3W E	ELCA3743 3W E
3-11 3/8 (1203) 3-11 5/8 (1210) 3-11 1/8 (1197)	ELCA1747 3W	ELCA2147 3W	ELCA2547 3W	ELCA2947 3W E	ELCA3347 3W E	ELCA3747 3W E
4-7 3/8 (1406) 4-7 5/8 (1413) 4-7 1/8 (1400)	ELCA1755 3W	ELCA2155 3W	ELCA2555 3W	ELCA2955 3W E	ELCA3355 3W E	ELCA3755 3W E
4-11 3/8 (1508) 4-11 5/8 (1514) 4-11 1/8 (1502)	ELCA1759 3W	ELCA2159 3W	ELCA2559 3W	ELCA2959 3W E	ELCA3359 3W E	ELCA3759 3W E
5-3 3/8 (1610) 5-3 5/8 (1616) 5-3 1/8 (1603)	ELCA1763 3W	ELCA2163 3W	ELCA2563 3W	ELCA2963 3W E	ELCA3363 3W E	ELCA3763 3W E
5-11 3/8 (1813) 5-11 5/8 (1819) 5-11 1/8 (1807)	ELCA1771 3W T	ELCA2171 3W T	ELCA2571 3W T	ELCA2971 3W ET	ELCA3371 3W ET	ELCA3771 3W ET

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 (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)				
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)				

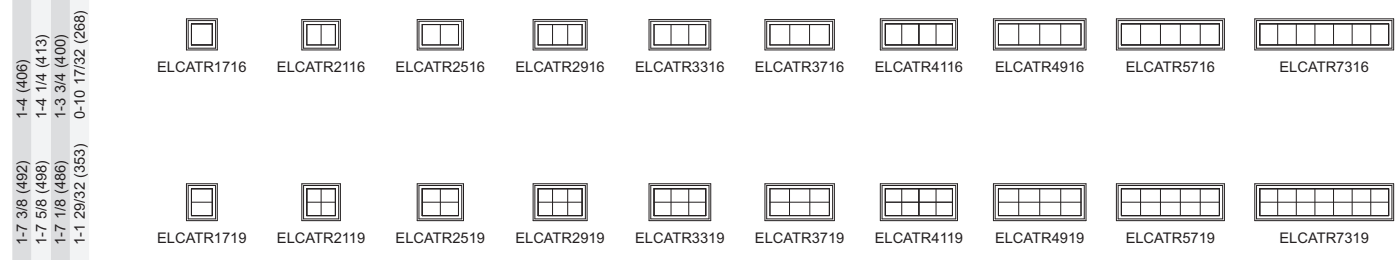
MULTIPLE ASSEMBLIES

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 PICTURE

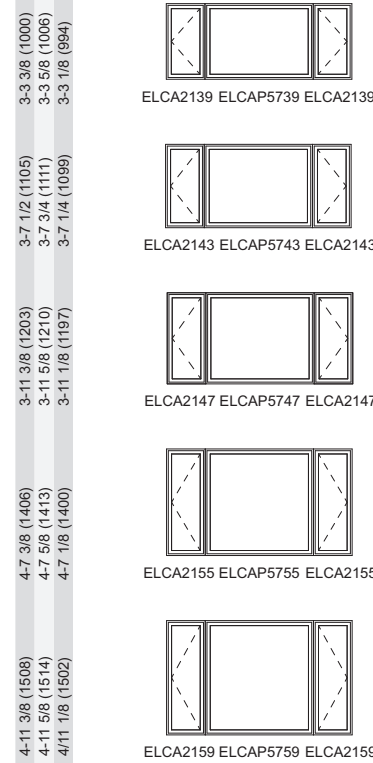
MO (mm)	1-4 1/2 (419)	1-8 1/2 (521)	2-0 1/2 (622)	2-4 1/2 (724)	2-8 1/2 (826)	3-0 1/2 (927)	3-4 1/2 (1029)	4-0 1/2 (1232)	4-8 1/2 (1435)	6-0 1/2 (1842)
RO (mm)	1-5 (432)	1-9 (533)	2-1 (635)	2-5 (737)	2-9 (838)	3-1 (940)	3-5 (1041)	4-1 (1245)	4-9 (1448)	6-1 (1854)
FS (mm)	1-4 (406)	1-8 (508)	2-0 (610)	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 (587)										
1-11 1/8 (587)										
1-5 29/32 (455)										
1-5 29/32 (455)										
2-3 3/8 (695)										
2-3 5/8 (702)										
2-3 7/8 (689)										
2-3 1/8 (689)										
1-9 25/32 (557)										

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)



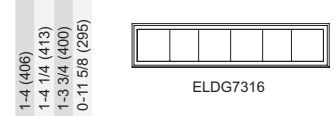
Multiple Assemblies/Casement Flankers with Center Picture

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

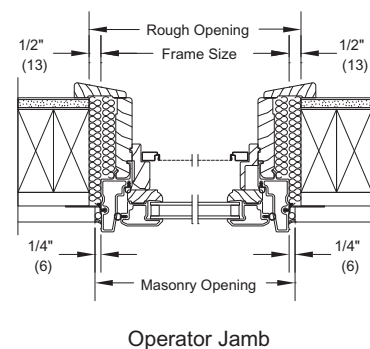
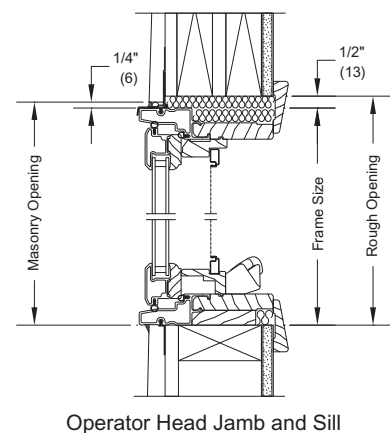


Direct Glaze

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

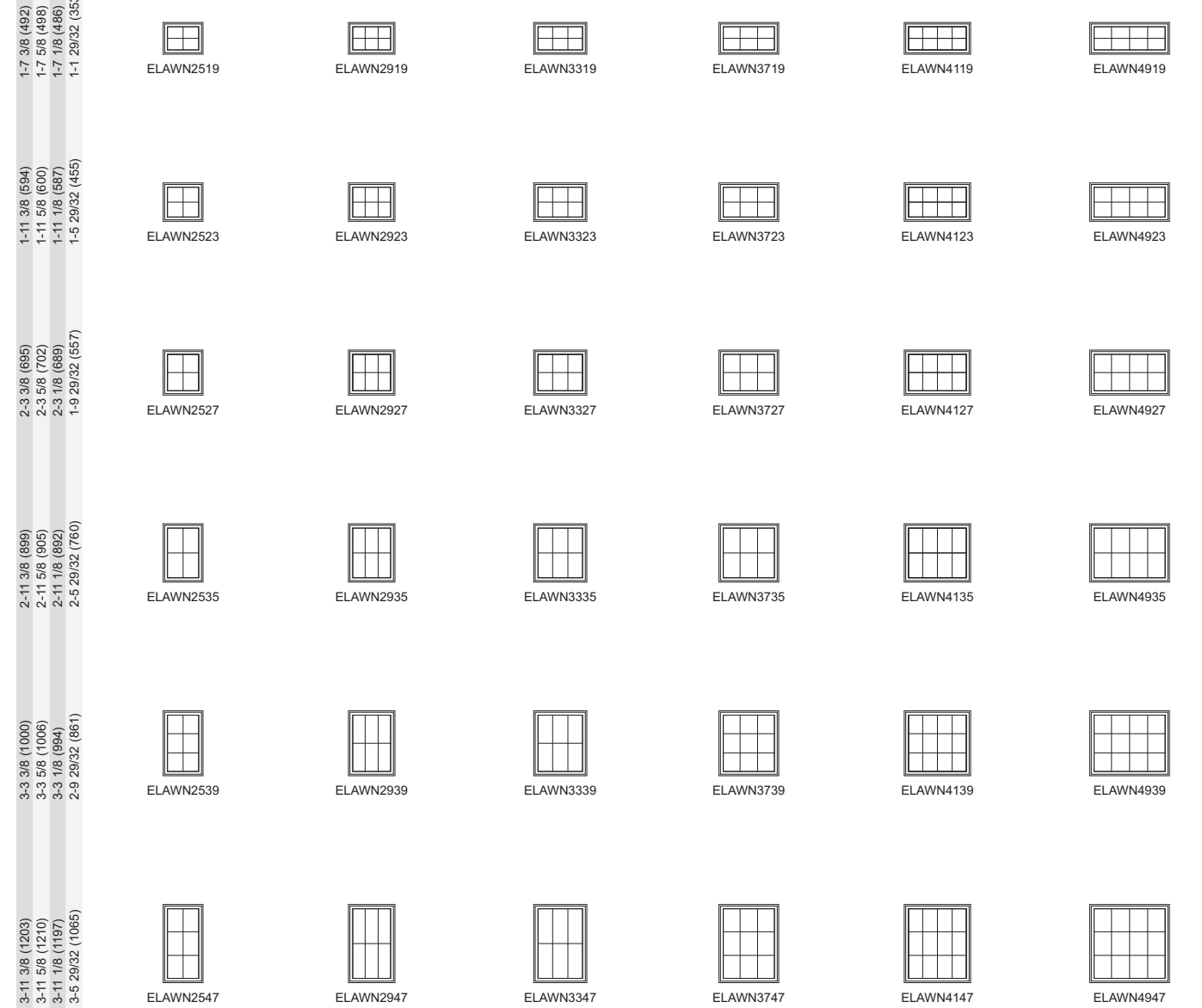


Construction Details



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)



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 36-46.

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.

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 (486)						
1-7 1/8 (486)						
1-11 3/8 (694)						
1-11 5/8 (600)						
1-11 1/8 (600)						
2-3 3/8 (695)						
2-3 5/8 (702)						
2-3 1/8 (689)						
2-11 3/8 (899)						
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)						
3-11 3/8 (1203)						
3-11 5/8 (1210)						
3-11 1/8 (1197)						

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 (486)				
1-7 1/8 (486)				
1-11 3/8 (694)				
1-11 5/8 (600)				
1-11 1/8 (600)				
2-3 3/8 (695)				
2-3 5/8 (702)				
2-3 1/8 (689)				
2-11 3/8 (899)				
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)				
3-11 3/8 (1203)				
3-11 5/8 (1210)				
3-11 1/8 (1197)				

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.

MULTIPLE ASSEMBLIES

Multiple assemblies can be factory mullled.

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

Maximum up to 7 units wide by 1 unit high.

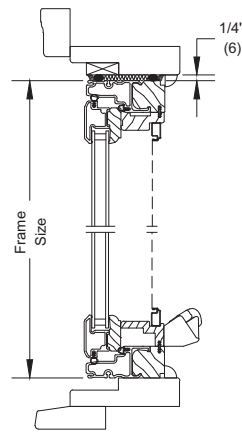
MAXIMUM ROUGH OPENING not to exceed 85" x 94 3/4"

Maximum up to 4 units wide by 5 units high.

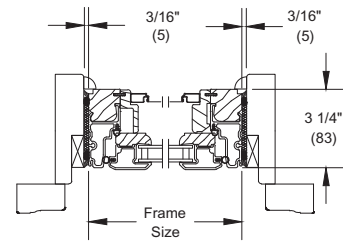
Field mull kits are available. Structural mullion reinforcement is required for some assemblies.

Please consult your local Marvin representative for more information.

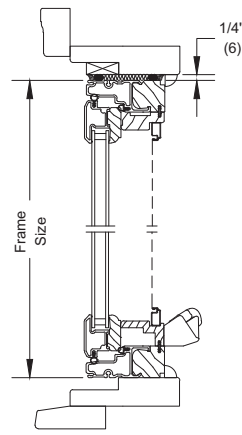
Construction Details



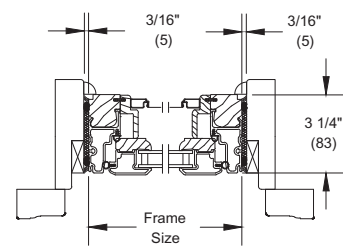
Elevate Casement Operator Head Jamb and Sill



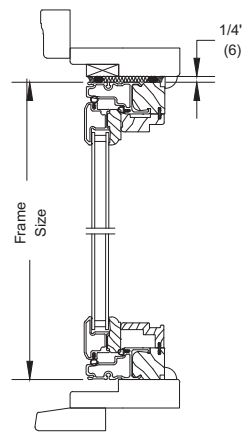
Elevate Casement Operator Jamb



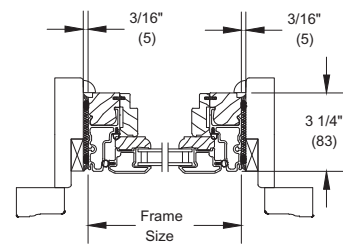
Elevate Awning Operator Head Jamb and Sill



Elevate Awning Operator Jamb



Transom and Picture Head Jamb and Sill



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 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 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) 3-0 1/4 (921) 2-11 3/4 (908) 1-1 11/16 (348)	(S.O. 1-8 x 2-10) ELDH2236	(S.O. 2-0 x 2-10) ELDH2636	(S.O. 2-4 x 2-10) ELDH3036	(S.O. 2-6 x 3-2) ELDH3236	(S.O. 2-8 x 2-10) ELDH3436
3-4 (1016) 3-4 1/4 (1022) 3-3 3/4 (1010) 1-3 11/16 (398)	(S.O. 1-8 x 3-2) ELDH2240	(S.O. 2-0 x 3-2) ELDH2640	(S.O. 2-4 x 3-2) ELDH3040	(S.O. 2-6 x 3-2) ELDH3240	(S.O. 2-8 x 3-2) ELDH3440
3-8 (1176) 3-8 1/4 (1124) 3-7 3/4 (1111) 1-5 11/16 (449)	(S.O. 1-8 x 3-6) ELDH2244	(S.O. 2-0 x 3-6) ELDH2644	(S.O. 2-4 x 3-6) ELDH3044	(S.O. 2-6 x 3-6) ELDH3244	(S.O. 2-8 x 3-6) ELDH3444
4-0 (1219) 4-0 1/4 (1226) 3-11 3/4 (1213) 1-7 11/16 (500)	(S.O. 1-8 x 3-10) ELDH2248	(S.O. 2-0 x 3-10) ELDH2648	(S.O. 2-4 x 3-10) ELDH3048	(S.O. 2-6 x 3-10) ELDH3248	(S.O. 2-8 x 3-10) ELDH3448
4-4 (1321) 4-4 1/4 (1327) 4-3 3/4 (1314) 1-9 11/16 (551)	(S.O. 1-8 x 4-2) ELDH2252	(S.O. 2-0 x 4-2) ELDH2652	(S.O. 2-4 x 4-2) ELDH3052	(S.O. 2-6 x 4-2) ELDH3252	(S.O. 2-8 x 4-2) ELDH3452
4-8 (1422) 4-8 1/4 (1429) 4-7 3/4 (1416) 1-11 11/16 (602)	(S.O. 1-8 x 4-6) ELDH2256	(S.O. 2-0 x 4-6) ELDH2656	(S.O. 2-4 x 4-6) ELDH3056	(S.O. 2-6 x 4-6) ELDH3256	(S.O. 2-8 x 4-6) ELDH3456
5-0 (1524) 5-0 1/4 (1530) 4-11 3/4 (1518) 2-1 11/16 (652)	(S.O. 1-8 x 4-10) ELDH2260	(S.O. 2-0 x 4-10) ELDH2660	(S.O. 2-4 x 4-10) ELDH3060	(S.O. 2-6 x 4-10) ELDH3260	(S.O. 2-8 x 4-10) ELDH3460
5-4 (1626) 5-4 1/4 (1632) 5-3 3/4 (1619) 2-3 11/16 (703)	(S.O. 1-8 x 5-2) ELDH2264	(S.O. 2-0 x 5-2) ELDH2664	(S.O. 2-4 x 5-2) ELDH3064	(S.O. 2-6 x 5-2) ELDH3264	(S.O. 2-8 x 5-2) ELDH3464
5-8 (1727) 5-8 1/4 (1734) 5-7 3/4 (1721) 2-5 11/16 (754)	(S.O. 1-8 x 5-6) ELDH2268	(S.O. 2-0 x 5-6) ELDH2668	(S.O. 2-4 x 5-6) ELDH3068	(S.O. 2-6 x 5-6) ELDH3268 E	(S.O. 2-8 x 5-6) ELDH3468 E
6-0 (1829) 6-0 1/4 (1835) 5-11 3/4 (1822) 2-7 11/16 (805)	(S.O. 1-8 x 5-10) ELDH2272	(S.O. 2-0 x 5-10) ELDH2672	(S.O. 2-4 x 5-10) ELDH3072	(S.O. 2-6 x 5-10) ELDH3272 E	(S.O. 2-8 x 5-10) ELDH3472 E
6-4 (1930) 6-4 1/4 (1937) 6-3 3/4 (1924) 2-9 11/16 (856)	(S.O. 1-8 x 6-2) ELDH2276	(S.O. 2-0 x 6-2) ELDH2676	(S.O. 2-4 x 6-2) ELDH3076 E	(S.O. 2-6 x 6-2) ELDH3276 E	(S.O. 2-8 x 6-2) ELDH3476 E

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)	3-0 (914)				
6-4 1/4 (1937)	3-0 1/4 (921)				
6-3 3/4 (1924)	3-0 3/4 (908)				
2-9 11/16 (856)	1-1 11/16 (348)				
	(S.O. 2-10 x 6-2)				
	ELDH3676 E				
6-0 (1829)	3-0 (914)				
6-0 1/4 (1835)	3-0 1/4 (921)				
5-11 3/4 (1822)	3-0 3/4 (908)				
2-7 11/16 (805)	1-1 11/16 (348)				
	(S.O. 2-10 x 5-10)				
	ELDH3672 E				
5-8 (1727)	3-0 (914)				
5-8 1/4 (1734)	3-0 1/4 (921)				
5-7 3/4 (1721)	3-0 3/4 (908)				
2-5 11/16 (754)	1-3 11/16 (398)				
	(S.O. 2-10 x 5-6)				
	ELDH3668 E				
5-4 (1626)	3-0 (914)				
5-4 1/4 (1632)	3-0 1/4 (921)				
5-3 3/4 (1619)	3-0 3/4 (908)				
2-3 11/16 (703)	1-3 11/16 (398)				
	(S.O. 2-10 x 5-2)				
	ELDH3664 E				
5-0 (1524)	3-0 (914)				
5-0 1/4 (1530)	3-0 1/4 (921)				
4-11 3/4 (1518)	3-0 3/4 (908)				
2-1 11/16 (652)	1-3 11/16 (398)				
	(S.O. 2-10 x 4-10)				
	ELDH3660 E				
4-8 (1422)	3-0 (914)				
4-8 1/4 (1429)	3-0 1/4 (921)				
4-7 3/4 (1416)	3-0 3/4 (908)				
1-11 11/16 (602)	1-3 11/16 (398)				
	(S.O. 2-10 x 4-6)				
	ELDH3656 E				
4-4 (1321)	3-0 (914)				
4-4 1/4 (1327)	3-0 1/4 (921)				
4-3 3/4 (1314)	3-0 3/4 (908)				
1-9 11/16 (651)	1-3 11/16 (398)				
	(S.O. 2-10 x 4-2)				
	ELDH3652 E				
4-0 (1219)	3-0 (914)				
4-0 1/4 (1226)	3-0 1/4 (921)				
3-11 3/4 (1213)	3-0 3/4 (908)				
1-7 11/16 (600)	1-3 11/16 (398)				
	(S.O. 2-10 x 3-10)				
	ELDH3648 E				
3-8 (1176)	3-0 (914)				
3-8 1/4 (1124)	3-0 1/4 (921)				
3-7 3/4 (1111)	3-0 3/4 (908)				
1-5 11/16 (449)	1-3 11/16 (398)				
	(S.O. 2-10 x 3-6)				
	ELDH3644 E				
3-4 (1016)	3-0 (914)				
3-4 1/4 (1022)	3-0 1/4 (921)				
3-3 3/4 (1010)	3-0 3/4 (908)				
1-3 11/16 (398)	1-3 11/16 (398)				
	(S.O. 2-10 x 3-2)				
	ELDH3640 E				
3-0 (914)	3-0 (914)				
	(S.O. 2-10 x 2-10)				
	ELDH3636 E				

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)	1-10 (559)				
7-0 1/4 (2140)	1-10 1/4 (572)				
6-11 3/4 (2127)	1-10 3/4 (565)				
3-1 11/16 (957)	1-1 11/16 (398)				
6-8 (2032)	2-2 (660)				
6-8 1/4 (2038)	2-2 1/4 (673)				
6-7 3/4 (2026)	2-2 3/4 (666)				
2-11 11/16 (906)	2-1 11/16 (652)				
	(S.O. 4-4 x 3-2)				
	ELDH2280				
	(S.O. 4-4 x 3-6)				
	ELDH2680				
	(S.O. 4-4 x 3-10)				
	ELDH3080E				
	(S.O. 4-4 x 3-6)				
	ELDH3280E				
	(S.O. 4-4 x 3-10)				
	ELDH3480E				
	(S.O. 4-4 x 4-2)				
	ELDH2284				
	(S.O. 4-4 x 4-6)				
	ELDH2684				
	(S.O. 4-4 x 4-2)				
	ELDH3084E				
	(S.O. 4-4 x 4-6)				
	ELDH3284E				
	(S.O. 4-4 x 4-2)				
	ELDH3484E				

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.

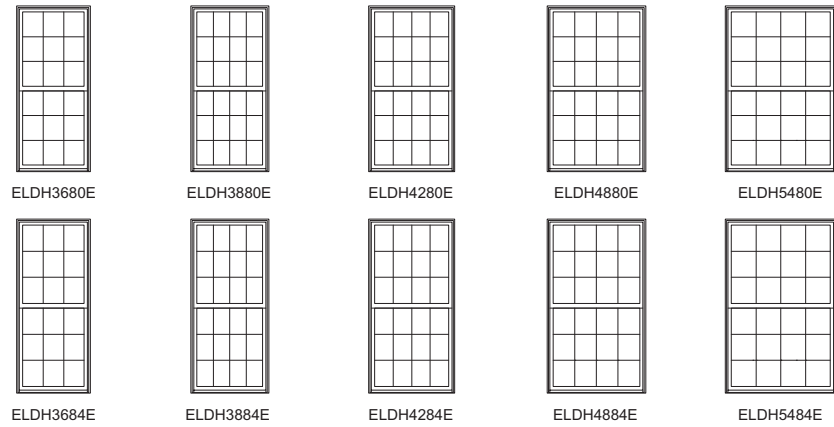
Field mull kits are available. Structural mullion reinforcement is required for some assemblies.

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)

6-8 (2032)	6-8 1/4 (2038)	6-7 3/4 (2026)	2-11 11/16 (906)
7-0 (2134)	7-0 1/4 (2140)	6-11 3/4 (2127)	3-1 11/16 (957)



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.

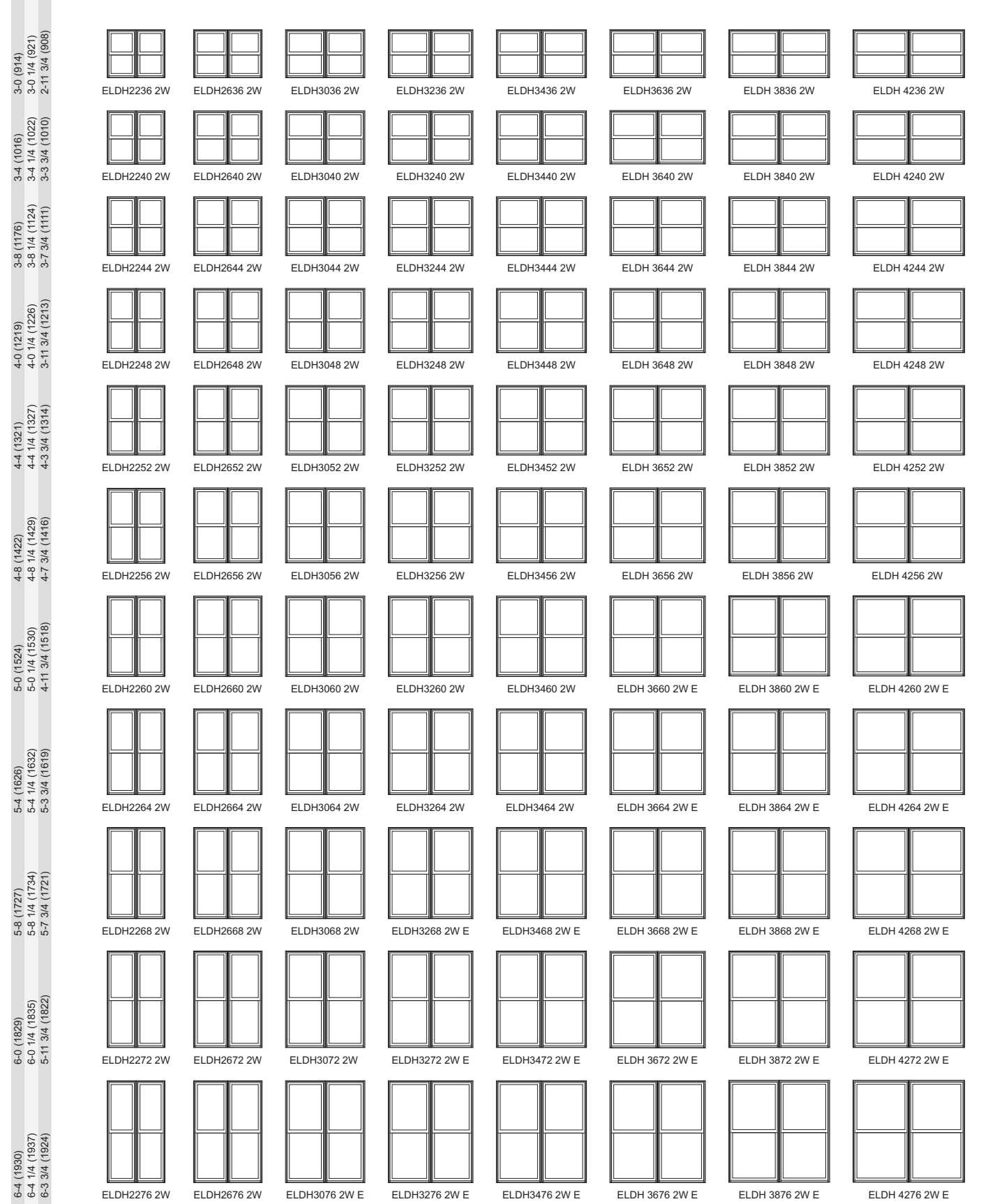
Field mull kits are available. Structural mullion reinforcement is required for some assemblies.

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)



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)	ELDH4836 2W	ELDH5436 2W
3-4 (1016)		
3-4 1/4 (1022)	ELDH4840 2W	ELDH5440 2W
3-8 (1176)		
3-8 1/4 (1124)	ELDH4844 2W	ELDH5444 2W
3-7 3/4 (1111)		
4-0 (1219)	ELDH4848 2W	ELDH5448 2W
4-0 1/4 (1226)		
4-4 (1321)	ELDH4852 2W	ELDH5452 2W
4-4 1/4 (1327)		
4-8 (1422)	ELDH4856 2W	ELDH5456 2W
4-8 1/4 (1429)		
5-0 (1524)	ELDH4860 2W E	ELDH5460 2W E
5-0 1/4 (1530)		
5-4 (1626)	ELDH4864 2W E	ELDH5464 2W E
5-4 1/4 (1632)		
5-8 (1727)	ELDH4868 2W E	ELDH5468 2W E
5-8 1/4 (1734)		
6-0 (1829)	ELDH4872 2W E	ELDH5472 2W E
6-0 1/4 (1835)		
6-4 (1930)	ELDH4876 2W E	ELDH5476 2W E
6-4 1/4 (1937)		

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)

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

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)	ELDH2236 3W	ELDH2636 3W	ELDH3036 3W	ELDH3236 3W	ELDH3436 3W	ELDH3636 3W
3-4 (1016)						
3-4 1/4 (1022)	ELDH2240 3W	ELDH2640 3W	ELDH3040 3W	ELDH3240 3W	ELDH3440 3W	ELDH3640 3W
3-8 (1176)						
3-8 1/4 (1124)	ELDH2244 3W	ELDH2644 3W	ELDH3044 3W	ELDH3244 3W	ELDH3444 3W	ELDH3644 3W
3-7 3/4 (1111)						
4-0 (1219)	ELDH2248 3W	ELDH2648 3W	ELDH3048 3W	ELDH3248 3W	ELDH3448 3W	ELDH3648 3W
4-0 1/4 (1226)						
4-4 (1321)	ELDH2252 3W	ELDH2652 3W	ELDH3052 3W	ELDH3252 3W	ELDH3452 3W	ELDH3652 3W
4-4 1/4 (1327)						
4-8 (1422)	ELDH2256 3W	ELDH2656 3W	ELDH3056 3W	ELDH3256 3W	ELDH3456 3W	ELDH3656 3W
4-8 1/4 (1429)						
5-0 (1524)	ELDH2260 3W	ELDH2660 3W	ELDH3060 3W	ELDH3260 3W	ELDH3460 3W	ELDH3660 3W E
5-0 1/4 (1530)						
5-4 (1626)	ELDH2264 3W	ELDH2664 3W	ELDH3064 3W	ELDH3264 3W	ELDH3464 3W	ELDH3664 3W E
5-4 1/4 (1632)						
5-8 (1727)	ELDH2268 3W	ELDH2668 3W	ELDH3068 3W	ELDH3268 3W E	ELDH3468 3W E	ELDH3668 3W E
5-8 1/4 (1734)						
6-0 (1829)	ELDH2272 3W	ELDH2672 3W	ELDH3072 3W	ELDH3272 3W E	ELDH3472 3W E	ELDH3672 3W E
6-0 1/4 (1835)						
6-4 (1930)	ELDH2276 3W	ELDH2676 3W	ELDH3076 3W E	ELDH3276 3W E	ELDH3476 3W E	ELDH3676 3W E
6-4 1/4 (1937)						

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)			
3-4 (1016)			
3-4 1/4 (1022)			
3-4 1/2 (1016)			
3-4 3/4 (1010)			
3-8 (1176)			
3-8 1/4 (1124)			
3-8 1/2 (1111)			
3-8 3/4 (1111)			
4-0 (1219)			
4-0 1/4 (1226)			
4-0 1/2 (1226)			
4-0 3/4 (1213)			
4-4 (1321)			
4-4 1/4 (1327)			
4-4 1/2 (1327)			
4-4 3/4 (1314)			
4-8 (1422)			
4-8 1/4 (1429)			
4-8 1/2 (1429)			
4-8 3/4 (1416)			
5-0 (1524)			
5-0 1/4 (1530)			
5-0 1/2 (1530)			
5-0 3/4 (1518)			
5-4 (1626)			
5-4 1/4 (1632)			
5-4 1/2 (1632)			
5-4 3/4 (1619)			
5-8 (1727)			
5-8 1/4 (1734)			
5-8 1/2 (1734)			
5-8 3/4 (1721)			
6-0 (1829)			
6-0 1/4 (1835)			
6-0 1/2 (1835)			
6-0 3/4 (1822)			
6-4 (1930)			
6-4 1/4 (1937)			
6-4 1/2 (1937)			
6-4 3/4 (1924)			

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"

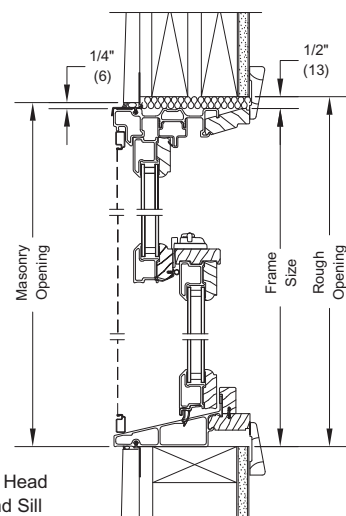
Optional Double Hung GBGs and SDLs are available in a standard Rectangular cut shown. Other available lite cuts shown on page 3.

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

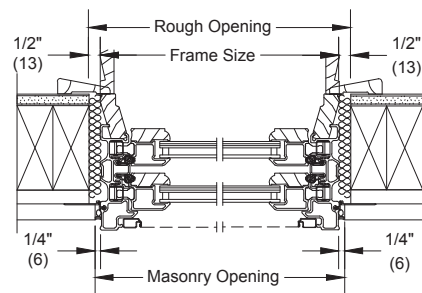
Available in equal, cottage, and reverse cottage sash configurations. Cottage and reverse cottage sash configurations are not available below CN 36 height and above CN 68 height.

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

Construction Details



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.

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)									
3-4 (1016)									
3-4 1/4 (1022)									
3-4 1/2 (1016)									
3-4 3/4 (1010)									
3-8 (1176)									
3-8 1/4 (1124)									
3-8 1/2 (1111)									
3-8 3/4 (1111)									
4-0 (1219)									
4-0 1/4 (1226)									
4-0 1/2 (1226)									
4-0 3/4 (1213)									
4-4 (1321)									
4-4 1/4 (1327)									
4-4 1/2 (1327)									
4-4 3/4 (1314)									
4-8 (1422)									
4-8 1/4 (1429)									
4-8 1/2 (1429)									
4-8 3/4 (1416)									
5-0 (1524)									
5-0 1/4 (1530)									
5-0 1/2 (1530)									
5-0 3/4 (1518)									
5-4 (1626)									
5-4 1/4 (1632)									
5-4 1/2 (1632)									
5-4 3/4 (1619)									
5-8 (1727)									
5-8 1/4 (1734)									
5-8 1/2 (1734)									
5-8 3/4 (1721)									
6-0 (1829)									
6-0 1/4 (1835)									
6-0 1/2 (1835)									
6-0 3/4 (1822)									

Details and Elevations not to scale.

Special sized units available within and outside of CN matrix. Please contact your Marvin dealer.






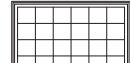


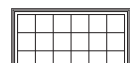








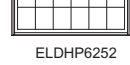
Minimum frame size: 17 1/2" x 27 3/4"

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.



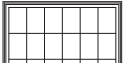


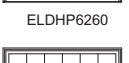








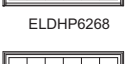
For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

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 (Ø14)			
3-0 (Ø14)	ELDHP5036	ELDHP5436	ELDHP6236
3-4 (1016)			
3-4 (1016)	ELDHP5040	ELDHP5440	ELDHP6240
3-8 (1176)			
3-8 (1176)	ELDHP5044	ELDHP5444	ELDHP6244
4-0 (1219)			
4-0 (1219)	ELDHP5048	ELDHP5448	ELDHP6248
4-4 (1321)			
4-4 (1321)	ELDHP5052	ELDHP5452	ELDHP6252
4-8 (1422)			
4-8 (1422)	ELDHP5056	ELDHP5456	ELDHP6256

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)

5-0 (1524)			
5-0 (1524)	ELDHP5060	ELDHP5460	ELDHP6260
5-4 (1626)			
5-4 (1626)	ELDHP5064	ELDHP5464	ELDHP6264
5-8 (1727)			
5-8 (1727)	ELDHP5068	ELDHP5468	ELDHP6268
6-0 (1829)			
6-0 (1829)	ELDHP5072	ELDHP5472	ELDHP6272
6-4 (1930)			
6-4 (1930)	ELDHP5076	ELDHP5476	ELDHP6276

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.

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.

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 (1824)									
5-0 (1824)	ELDHP2260	ELDHP2660	ELDHP3060	ELDHP3260	ELDHP3460	ELDHP3660	ELDHP3860	ELDHP4260	ELDHP4860
5-0 1/4 (1530)									
5-0 1/4 (1530)	ELDHP2264	ELDHP2664	ELDHP3064	ELDHP3264	ELDHP3464	ELDHP3664	ELDHP3864	ELDHP4264	ELDHP4864
5-4 (1826)									
5-4 (1826)	ELDHP2268	ELDHP2668	ELDHP3068	ELDHP3268	ELDHP3468	ELDHP3668	ELDHP3868	ELDHP4268	ELDHP4868
5-4 1/4 (1632)									
5-4 1/4 (1632)	ELDHP2272	ELDHP2672	ELDHP3072	ELDHP3272	ELDHP3472	ELDHP3672	ELDHP3872	ELDHP4272	ELDHP4872
5-3 3/4 (1619)									
5-3 3/4 (1619)	ELDHP2276	ELDHP2676	ELDHP3076	ELDHP3276	ELDHP3476	ELDHP3676	ELDHP3876	ELDHP4276	ELDHP4876
5-11 3/4 (1822)									
5-11 3/4 (1822)	ELDHP2280	ELDHP2680	ELDHP3080	ELDHP3280	ELDHP3480	ELDHP3680	ELDHP3880	ELDHP4280	ELDHP4880
5-5 11/16 (1668)									
5-5 11/16 (1668)	ELDHP2284	ELDHP2684	ELDHP3084	ELDHP3284	ELDHP3484	ELDHP3684	ELDHP3884	ELDHP4284	ELDHP4884
6-0 (1829)									
6-0 (1829)	ELDHP2288	ELDHP2688	ELDHP3088	ELDHP3288	ELDHP3488	ELDHP3688	ELDHP3888	ELDHP4288	ELDHP4888
6-0 1/4 (1835)									
6-0 1/4 (1835)	ELDHP2292	ELDHP2692	ELDHP3092	ELDHP3292	ELDHP3492	ELDHP3692	ELDHP3892	ELDHP4292	ELDHP4892
6-4 (1830)									
6-4 (1830)	ELDHP2296	ELDHP2696	ELDHP3096	ELDHP3296	ELDHP3496	ELDHP3696	ELDHP3896	ELDHP4296	ELDHP4896
6-4 1/4 (1937)									
6-4 1/4 (1937)	ELDHP2300	ELDHP2700	ELDHP3100	ELDHP3300	ELDHP3500	ELDHP3700	ELDHP3900	ELDHP4300	ELDHP4900
6-3 3/4 (1924)									
6-3 3/4 (1924)	ELDHP2304	ELDHP2704	ELDHP3104	ELDHP3304	ELDHP3504	ELDHP3704	ELDHP3904	ELDHP4304	ELDHP4904
6-8 (2032)									
6-8 (2032)	ELDHP2308	ELDHP2708	ELDHP3108	ELDHP3308	ELDHP3508	ELDHP3708	ELDHP3908	ELDHP4308	ELDHP4908
6-8 1/4 (2038)									
6-8 1/4 (2038)	ELDHP2312	ELDHP2712	ELDHP3112	ELDHP3312	ELDHP3512	ELDHP3712	ELDHP3912	ELDHP4312	ELDHP4912
6-7 3/4 (1924)									
6-7 3/4 (1924)	ELDHP2316	ELDHP2716	ELDHP3116	ELDHP3316	ELDHP3516	ELDHP3716	ELDHP3916	ELDHP4316	ELDHP4916
2-11 11/16 (906)									
2-11 11/16 (906)	ELDHP2320	ELDHP2720	ELDHP3120	ELDHP3320	ELDHP3520	ELDHP3720	ELDHP3920	ELDHP4320	ELDHP4920
7-0 (2134)									
7-0 (2134)	ELDHP2324	ELDHP2724	ELDHP3124	ELDHP3324	ELDHP3524	ELDHP3724	ELDHP3924	ELDHP4324	ELDHP4924

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 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)							
1-4 (406)	ELDHTR2216	ELDHTR2616	ELDHTR3016	ELDHTR3216	ELDHTR3416	ELDHTR3616	ELDHTR4816
1-4 1/4 (413)							
1-4 1/4 (413)	ELDHTR2224*	ELDHTR2624*	ELDHTR3024*	ELDHTR3224*	ELDHTR3424*	ELDHTR3624*	ELDHTR4824*
2-0 (610)							
2-0 (610)	ELDHP2224*	ELDHP2624*	ELDHP3024*	ELDHP3224*	ELDHP3424*	ELDHP3624*	ELDHP4824*

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)					
1-4 (406)	ELDHTR3816	ELDHTR4216	ELDHTR5016	ELDHTR5416	ELDHTR6216
1-4 1/4 (413)					
1-4 1/4 (413)	ELDHP3824*	ELDHP4224*	ELDHP5024*	ELDHP5424*	ELDHP6224*
2-0 (610)					
2-0 (610)	ELDHP3824*	ELDHP4224*	ELDHP5024*	ELDHP5424*	ELDHP6224*

Double Hung Transoms Mullied 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)

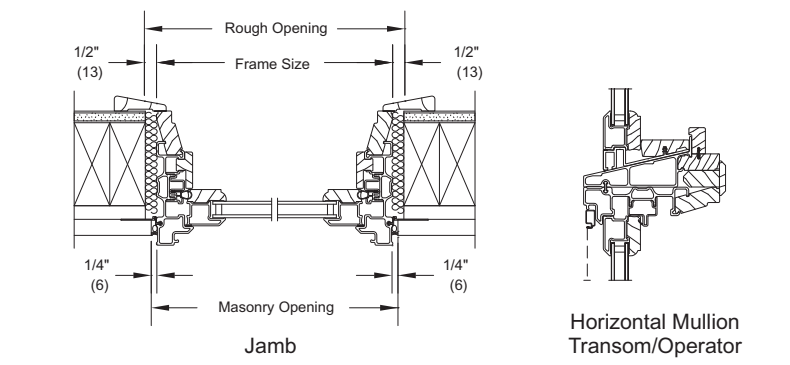
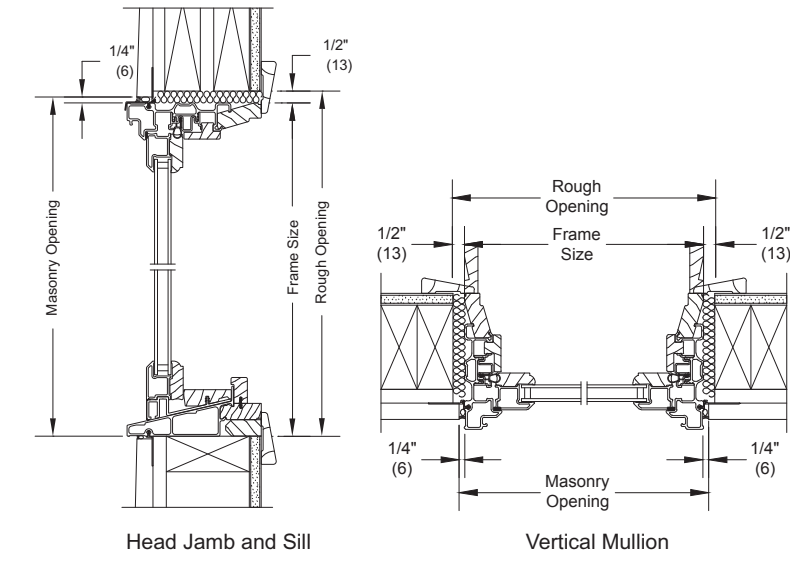
5-3 3/4 (1619)		
5-3 3/4 (1619)	ELDHT2216 / ELDH2248	ELDHT3016 / ELDH3048

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.

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.

Construction Details



Multiple Assemblies

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

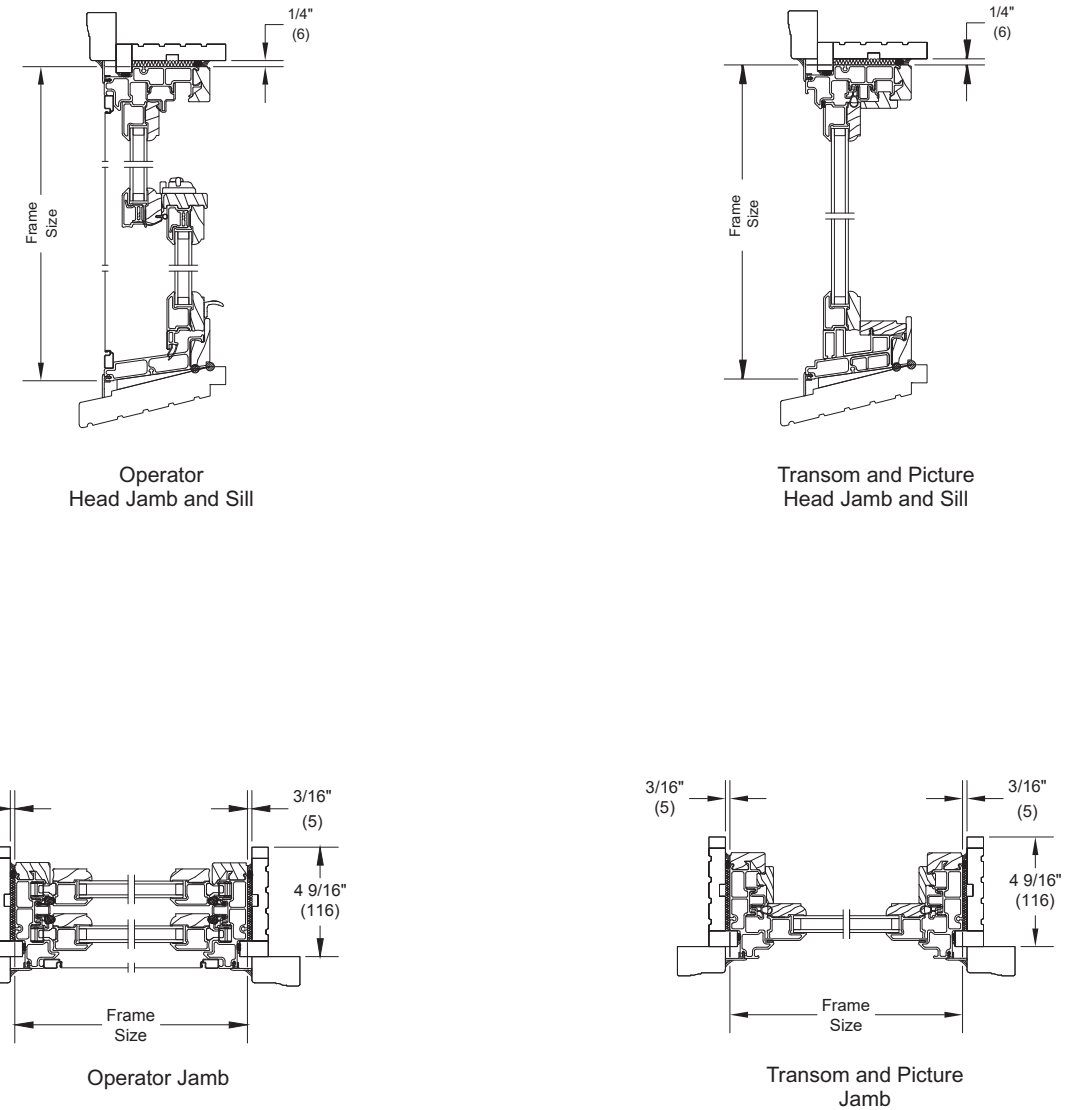
MO (mm)	6-9 (2057)	7-1 (2159)	7-9 (2362)	8-1 (2464)	8-9 (2667)
RO (mm)	6-9 1/2 (2070)	7-1 1/2 (2172)	7-9 1/2 (2375)	8-1 1/2 (2477)	8-9 1/2 (2680)
FS (mm)	6-8 1/2 (2045)	7-0 1/2 (2146)	7-8 1/2 (2350)	8-0 1/2 (2451)	8-8 1/2 (2654)
4-0 (1219) 4-0 1/4 (1226) 3-11 3/4 (1213)					
4-4 (1321) 4-4 1/4 (1327) 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



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 milled.

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.

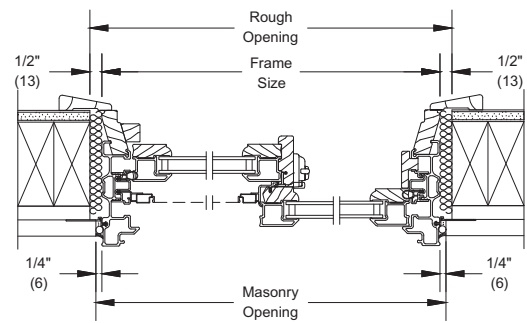
GLIDER

1 Wide and 2 Wide

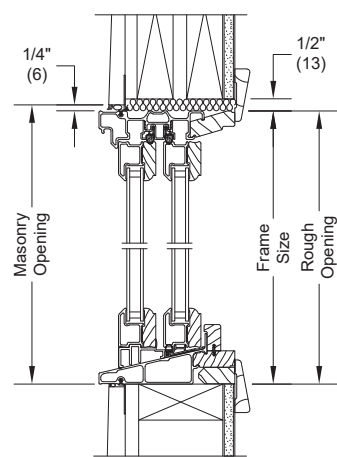
MO (mm)	3-0 (914)	4-0 (1219)	5-0 (1524)	6-0 (1829)	5-11 1/2 (1816)	7-11 1/2 (2426)
RO (mm)	3-0 1/2 (927)	4-0 1/2 (1232)	5-0 1/2 (1537)	6-0 1/2 (1842)	6-0 (1829)	8-0 (2438)
FS (mm)	2-11 1/2 (902)	3-11 1/2 (1207)	4-11 1/2 (1511)	5-11 1/2 (1816)	5-11 (1803)	7-11 (2413)
DLO (mm)	1-1 11/16 (348)	1-7 11/16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

2-0 (610) 2-0 1/4 (616) 1-11 3/4 (603) 1-5 3/4 (449)						
3-0 (914) 3-0 1/4 (921) 2-11 3/4 (908) 2-5 3/4 (754)						
3-6 (1067) 3-6 1/4 (1073) 3-5 3/4 (1060) 2-11 3/4 (906)						
4-0 (1219) 4-0 1/4 (1226) 3-11 3/4 (1213) 3-5 3/4 (1059)						
5-0 (1524) 5-0 1/4 (1530) 4-11 3/4 (1518) 4-5 3/4 (1364)						

Construction Details



XO Operator Jamb



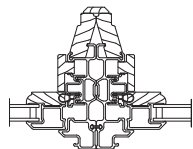
Head Jamb and Sill

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.

Mullion Detail



Vertical Mullion Operator Unit

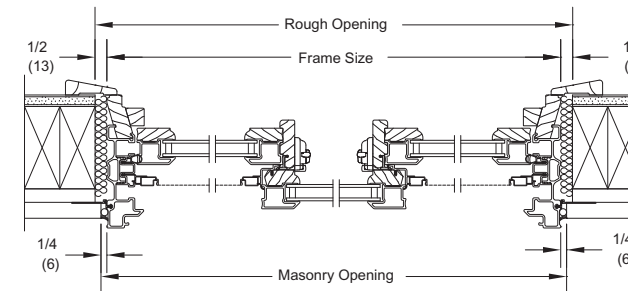
GLIDER - TRIPLE SASH

1 Wide

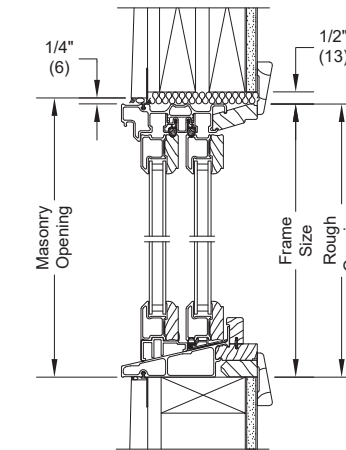
MO (mm)	6-0 (1829)	7-0 (2134)	8-0 (2438)
RO (mm)	6-0 1/2 (1842)	7-0 1/2 (2146)	8-0 1/2 (2451)
FS (mm)	5-11 1/2 (1816)	6-11 1/2 (2121)	7-11 1/2 (2426)

2-0 (610) 2-0 1/4 (616) 1-11 3/4 (603)			
3-0 (914) 3-0 1/4 (921) 2-11 3/4 (908)			
3-6 (1067) 3-6 1/4 (1073) 3-5 3/4 (1060)			
4-0 (1219) 4-0 1/4 (1226) 3-11 3/4 (1213)			
5-0 (1524) 5-0 1/4 (1530) 4-11 3/4 (1518)			

Construction Details



Triple Sash XO Operator Jamb

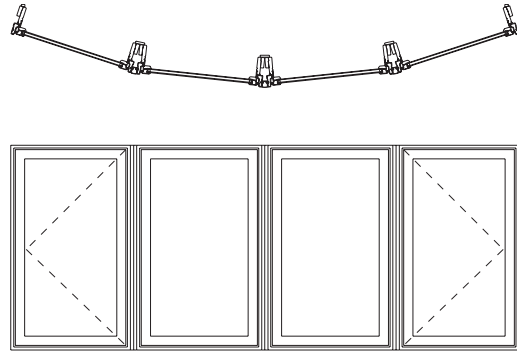


Head Jamb and Sill

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.

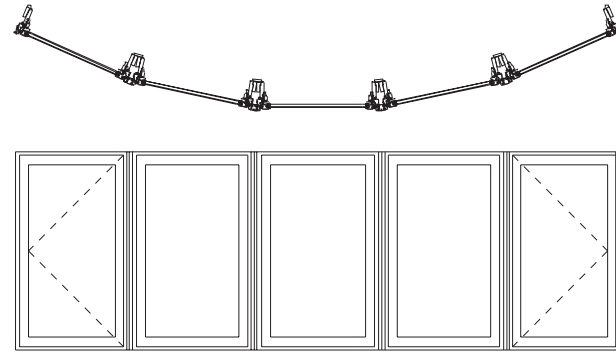
4 Wide Bows



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 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)

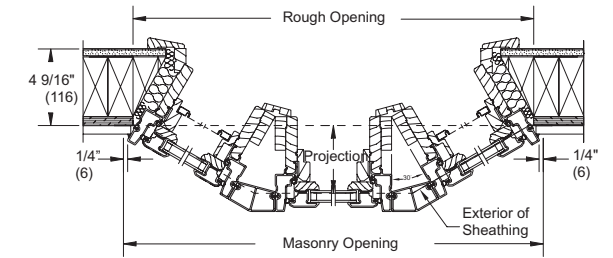
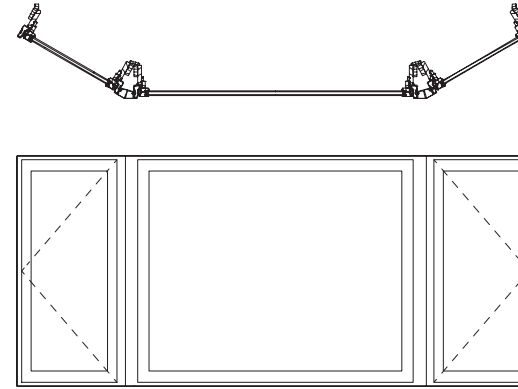
5 Wide Bows



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)

CASEMENT BAYS

30° Bays

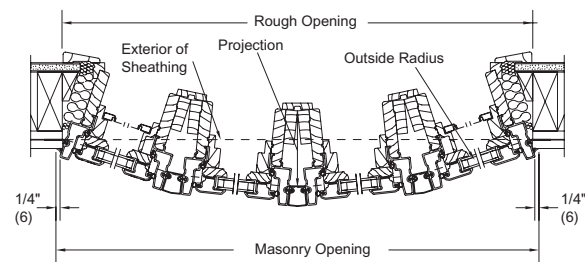


30° Casement Bay with Stationary/ Center Picture Unit

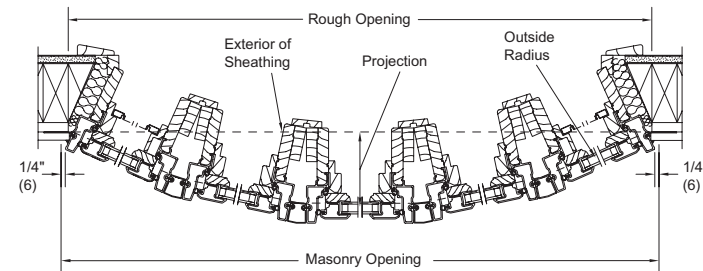
CN Width	RO Width		Projection	
	Inches	(mm)	Inches	(mm)
17-17-17	49 25/64	(1255)	8 5/8	(219)
17-21-17	53 25/64	(1356)	8 5/8	(219)
17-25-17	57 25/64	(1458)	8 5/8	(219)
17-29-17	61 25/64	(1559)	8 5/8	(219)
17-33-17	65 25/64	(1661)	8 5/8	(219)
17-37-17	69 25/64	(1763)	8 5/8	(219)
17-41-17	73 25/64	(1864)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

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)
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)

Construction Details



4-Wide Casement Bow Unit



5-Wide Casement Bow Unit

Details and Elevations not to scale.

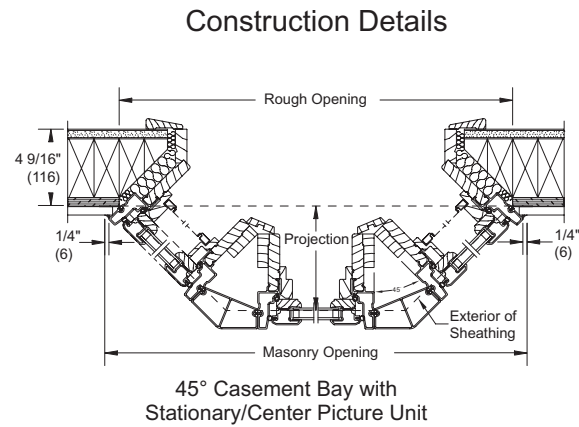
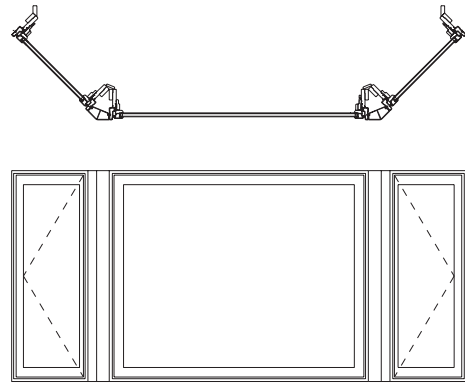
For rough opening height of a Bay or Bow, add 3/16" to Casement rough opening height.

* 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

45° Bays

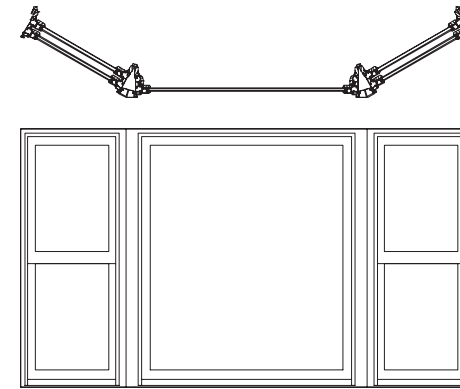


CN Width	RO Width		Projection	
	Inches	(mm)	Inches	(mm)
17-17-17	46 11/64	(1173)	12 43/64	(322)
17-21-17	50 11/64	(1274)	12 43/64	(322)
17-25-17	54 11/64	(1376)	12 43/64	(322)
17-29-17	58 11/64	(1478)	12 43/64	(322)
17-33-17	62 11/64	(1579)	12 43/64	(322)
17-37-17	66 11/64	(1681)	12 43/64	(322)
17-41-17	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)

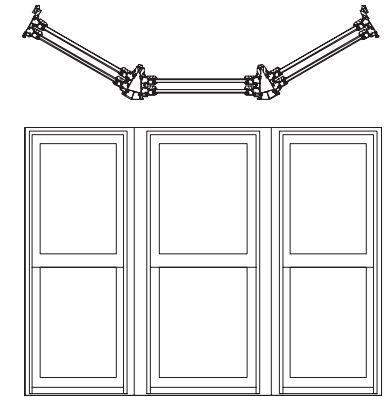
Details and Elevations not to scale.
 For rough opening height of a Bay or Bow, add 3/16" to Casement rough opening height.
 * When using Marvin Bays and Bows to replace products within existing openings, you will want to contact your local Marvin dealer for assistance and field verification of dimensions.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

DOUBLE HUNG BAYS

30° Bay Center Picture



30° Bay Center Operator

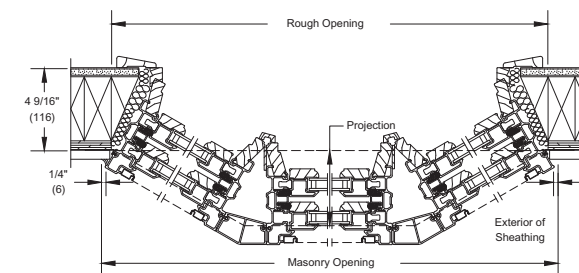


CN Width	RO Width		Projection	
	Inches	(mm)	Inches	(mm)
22-22-22	64 27/64	(1636)	11 3/8	(289)
22-26-22	68 27/64	(1738)	11 3/8	(289)
22-30-22	72 27/64	(1839)	11 3/8	(289)
22-32-22	74 27/64	(1890)	11 3/8	(289)
22-34-22	76 27/64	(1941)	11 3/8	(289)
22-36-22	78 27/64	(1992)	11 3/8	(289)
22-38-22	80 27/64	(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)

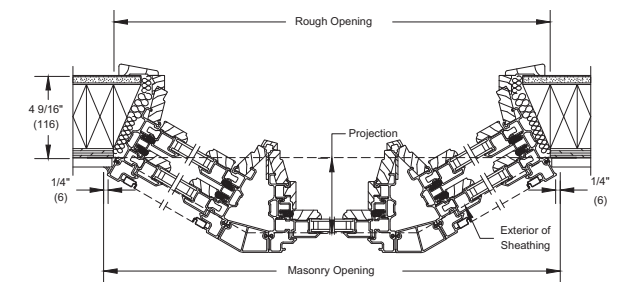
CN Width	RO Width		Projection	
	Inches	(mm)	Inches	(mm)
32-22-32	81 3/8	(2067)	16 3/8	(416)
32-26-32	85 3/8	(2169)	16 3/8	(416)
32-30-32	89 3/8	(2270)	16 3/8	(416)
32-32-32	91 47/64	(2330)	16 3/8	(416)
32-34-32	93 47/64	(2381)	16 3/8	(416)
32-36-32	95 47/64	(2432)	16 3/8	(416)
32-38-32	97 47/64	(2483)	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

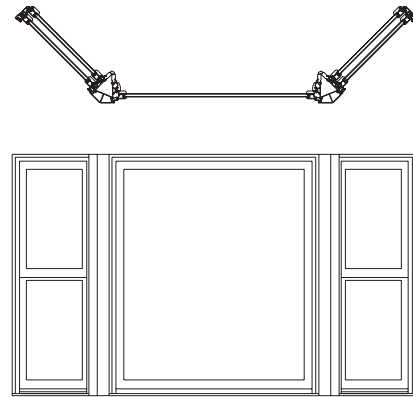


30° Bay with Operator Center Unit Jamb

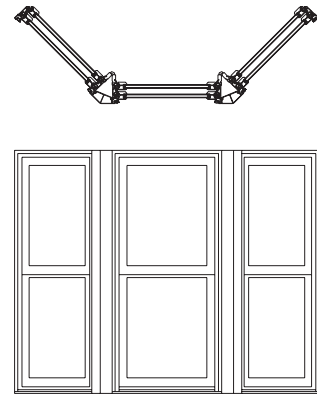


30° Bay with Center Picture Unit Jamb

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)

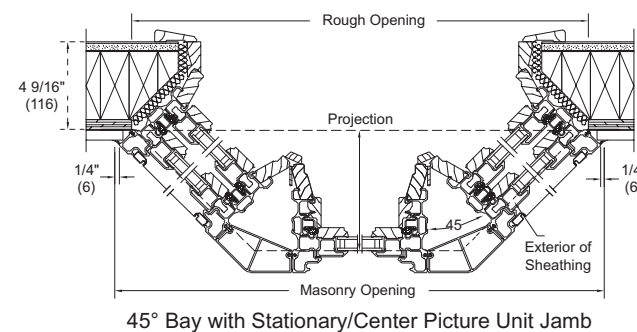
Details and Elevations not to scale.

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

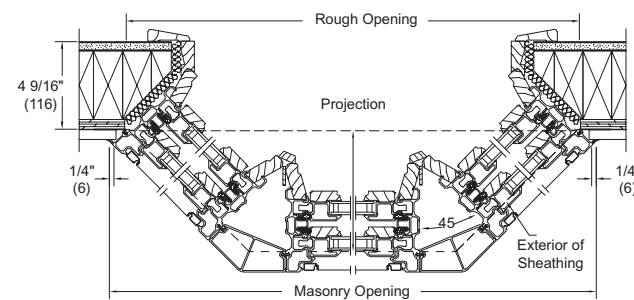
Note: When using Marvin Bays and Bows to replace products within existing openings, you will want to contact your local Marvin dealer for assistance and field verification of dimensions.

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

Construction Details



45° Bay with Stationary/Center Picture Unit Jamb



45° Bay with Center Operator Unit Jamb

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	ELALDGR RT CIRQ29 1W

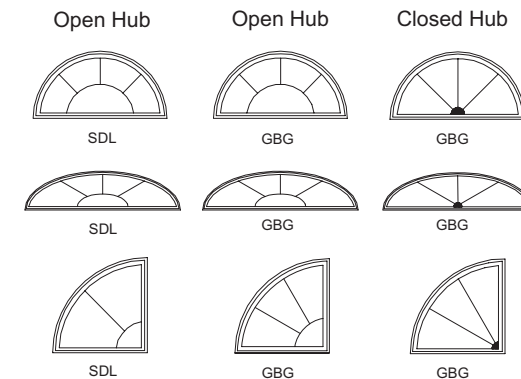
MO (mm) 4-8 1/2 (1435) RO (mm) 4-9 (1448) FS (mm) 4-8 (1422)	MO (mm) 6-0 1/2 (1842) RO (mm) 6-1 (1854) FS (mm) 6-0 (1829)	MO (mm) 6-0 1/2 (1842) RO (mm) 6-1 (1854) FS (mm) 6-0 (1829)
2-4 1/4 (718) 2-4 1/2 (724) 2-4 (711)	3-0 1/4 (921) 3-0 1/2 (927) 3-0 (914)	1-6 1/4 (464) 1-6 1/2 (470) 1-6 (457)
ELALDGR29 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)
ELALDGR RT29 1W / ELCA2947 E	ELALDGR RT29 1W / ELCA2955 E	ELALDGR RT29 1W / ELCA2959 E

Lite Patterns



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.

MULTIPLE ASSEMBLIES

Multiple assemblies can be factory mullered 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.

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)



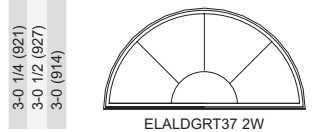
MO (mm)	5-4 1/2 (1638)
RO (mm)	5-5 (1651)
FS (mm)	5-4 (1626)



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 mull 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)



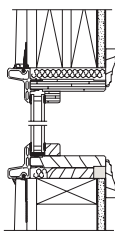
MO (mm)	8-0 1/2 (2451)
RO (mm)	8-1 (2464)
FS (mm)	8-0 (2438)



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

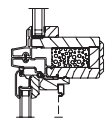


Construction Detail



Casement Round Top Head Jamb and Sill

Horizontal Mullion Detail



Casement Round Top Over Casement

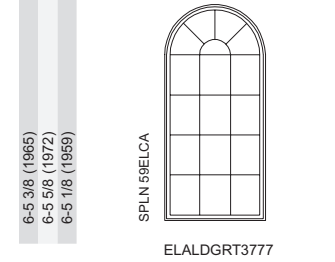
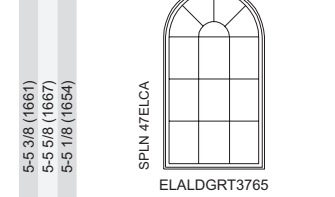
E = These windows meet National Egress Codes for fire evacuation. Local codes may differ.
 Contact your sales representative for multiple assembly lite alignment. Certain assemblies do not allow for exact lite alignment.
 Not to scale. Optional Round Top SDL and SDL with Spacer Bar are available in standard 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

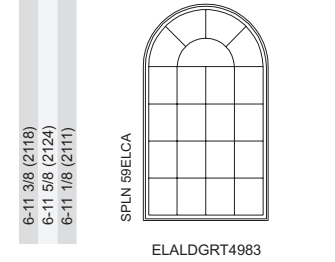
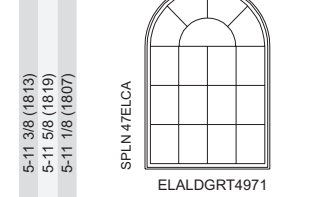
Casement Frame Type

True Half above Springline (RT2)

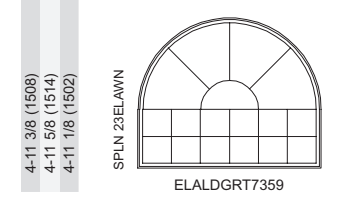
MO (mm)	3-0 1/2 (927)
RO (mm)	3-1 (940)
FS (mm)	3-0 (914)



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)

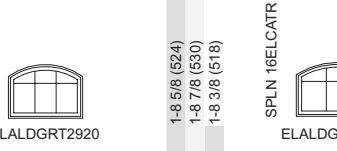
MO (mm)	1-8 1/2 (521)
RO (mm)	1-9 (533)
FS (mm)	1-8 (508)



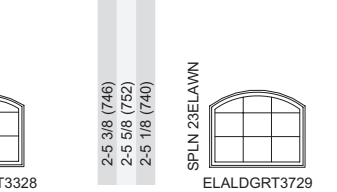
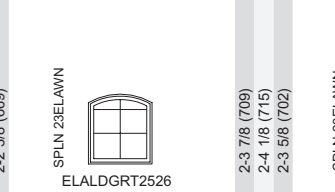
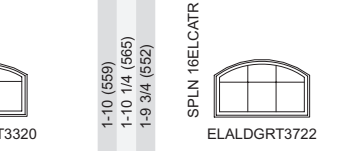
MO (mm)	2-0 1/2 (622)
RO (mm)	2-1 (635)
FS (mm)	2-0 (610)



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)



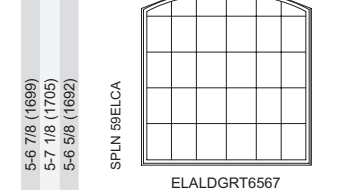
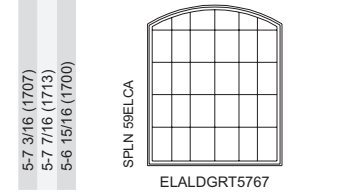
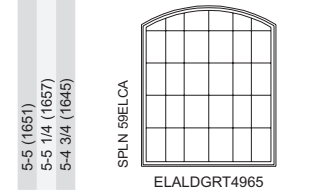
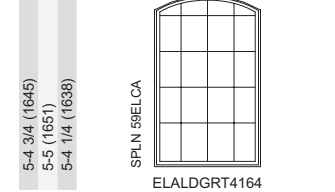
MO (mm)	4-0 1/2 (1232)
RO (mm)	4-1 (1245)
FS (mm)	4-0 (1219)



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)

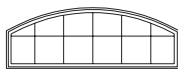
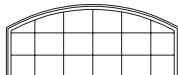
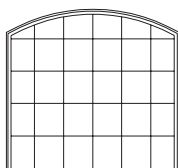


ALUMINUM DIRECT GLAZE ROUND TOPS

Casement Frame Type

Eyebrow above Springline (RT6)

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

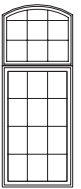
<table border="1"> <tr><td>2-1 5/8 (651)</td></tr> <tr><td>2-1 7/8 (657)</td></tr> <tr><td>2-1 3/8 (645)</td></tr> </table>	2-1 5/8 (651)	2-1 7/8 (657)	2-1 3/8 (645)	<table border="1"> <tr><td>2-9 (838)</td></tr> <tr><td>2-9 1/4 (646)</td></tr> <tr><td>2-8 3/4 (832)</td></tr> </table>	2-9 (838)	2-9 1/4 (646)	2-8 3/4 (832)	<table border="1"> <tr><td>5-9 1/4 (1759)</td></tr> <tr><td>5-8 3/4 (1747)</td></tr> </table>	5-9 1/4 (1759)	5-8 3/4 (1747)	<p>SPLN 16ELCATR</p>  <p>ELALDGR7325</p> <p>SPLN 23ELAWN</p>  <p>ELALDGR7333</p> <p>SPLN 58ELCA</p>  <p>ELALDGR7369</p>
2-1 5/8 (651)											
2-1 7/8 (657)											
2-1 3/8 (645)											
2-9 (838)											
2-9 1/4 (646)											
2-8 3/4 (832)											
5-9 1/4 (1759)											
5-8 3/4 (1747)											

Multiple Assemblies

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

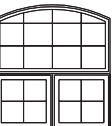
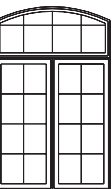
<table border="1"> <tr><td>5-7 5/8 (1718)</td></tr> <tr><td>5-7 7/8 (1724)</td></tr> <tr><td>5-7 3/8 (1711)</td></tr> </table>	5-7 5/8 (1718)	5-7 7/8 (1724)	5-7 3/8 (1711)	 <p>ELALDGR2920 ELCA2947 E</p>
5-7 5/8 (1718)				
5-7 7/8 (1724)				
5-7 3/8 (1711)				

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

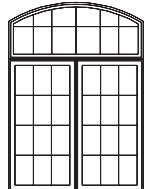
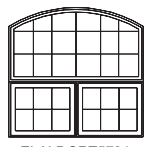
<table border="1"> <tr><td>6-11 1/8 (2111)</td></tr> <tr><td>6-11 3/8 (2118)</td></tr> <tr><td>6-10 7/8 (2105)</td></tr> </table>	6-11 1/8 (2111)	6-11 3/8 (2118)	6-10 7/8 (2105)	 <p>ELALDGR3328 ELCA3355 E</p>
6-11 1/8 (2111)				
6-11 3/8 (2118)				
6-10 7/8 (2105)				

Multiple Assemblies

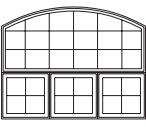
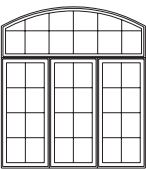
MO (mm)	4-0 1/2 (1232)
RO (mm)	4-1 (1245)
FS (mm)	4-0 (1219)

<table border="1"> <tr><td>4-4 1/8 (1324)</td></tr> <tr><td>4-4 3/8 (1330)</td></tr> <tr><td>4-3 7/8 (1318)</td></tr> </table>	4-4 1/8 (1324)	4-4 3/8 (1330)	4-3 7/8 (1318)	 <p>ELALDGR4929 ELAWN2523 2W</p>
4-4 1/8 (1324)				
4-4 3/8 (1330)				
4-3 7/8 (1318)				
<table border="1"> <tr><td>6-4 3/4 (1949)</td></tr> <tr><td>6-5 (1956)</td></tr> <tr><td>6-4 1/2 (1943)</td></tr> </table>	6-4 3/4 (1949)	6-5 (1956)	6-4 1/2 (1943)	 <p>ELALDGR4921 ELCA2555 2W</p>
6-4 3/4 (1949)				
6-5 (1956)				
6-4 1/2 (1943)				

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

<table border="1"> <tr><td>6-6 15/16 (2005)</td></tr> <tr><td>6-7 3/16 (2011)</td></tr> <tr><td>6-6 11/16 (1999)</td></tr> </table>	6-6 15/16 (2005)	6-7 3/16 (2011)	6-6 11/16 (1999)	 <p>ELALDGR5724 ELCA2955 2W E</p>
6-6 15/16 (2005)				
6-7 3/16 (2011)				
6-6 11/16 (1999)				
<table border="1"> <tr><td>4-6 5/16 (1354)</td></tr> <tr><td>4-6 9/16 (1386)</td></tr> <tr><td>4-6 1/16 (1373)</td></tr> </table>	4-6 5/16 (1354)	4-6 9/16 (1386)	4-6 1/16 (1373)	 <p>ELALDGR5731 ELAWN2923 2W</p>
4-6 5/16 (1354)				
4-6 9/16 (1386)				
4-6 1/16 (1373)				

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

<table border="1"> <tr><td>4-8 1/8 (1425)</td></tr> <tr><td>4-8 3/8 (1432)</td></tr> <tr><td>4-7 7/8 (1419)</td></tr> </table>	4-8 1/8 (1425)	4-8 3/8 (1432)	4-7 7/8 (1419)	 <p>ELDGR7333 ELAWN2523 3W</p>
4-8 1/8 (1425)				
4-8 3/8 (1432)				
4-7 7/8 (1419)				
<table border="1"> <tr><td>6-8 3/4 (2051)</td></tr> <tr><td>6-9 (2057)</td></tr> <tr><td>6-8 1/2 (2045)</td></tr> </table>	6-8 3/4 (2051)	6-9 (2057)	6-8 1/2 (2045)	 <p>ELDGR7325 ELCA2555 3W</p>
6-8 3/4 (2051)				
6-9 (2057)				
6-8 1/2 (2045)				

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

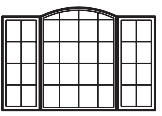
Casement Frame Type

Eyebrow above Springline (RT6)

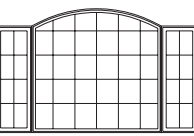
MO (mm)	7-4 1/2 (2248)
RO (mm)	7-5 (2261)
FS (mm)	7-4 (2235)

<table border="1"> <tr><td>1-8 5/8 (524)</td></tr> <tr><td>1-8 7/8 (530)</td></tr> <tr><td>1-8 3/8 (518)</td></tr> </table>	1-8 5/8 (524)	1-8 7/8 (530)	1-8 3/8 (518)	 <p>ELALDGR3320 ELCA2916</p>
1-8 5/8 (524)				
1-8 7/8 (530)				
1-8 3/8 (518)				

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

<table border="1"> <tr><td>5-5 (1651)</td></tr> <tr><td>5-5 1/4 (1657)</td></tr> <tr><td>5-4 3/4 (1645)</td></tr> </table>	5-5 (1651)	5-5 1/4 (1657)	5-4 3/4 (1645)	 <p>ELALDGR4965 ELCA2559</p>
5-5 (1651)				
5-5 1/4 (1657)				
5-4 3/4 (1645)				

MO (mm)	9-4 1/2 (2858)
RO (mm)	9-5 (2870)
FS (mm)	9-4 (2845)

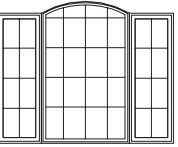
<table border="1"> <tr><td>5-9 (1753)</td></tr> <tr><td>5-9 1/4 (1759)</td></tr> <tr><td>5-8 3/4 (1747)</td></tr> </table>	5-9 (1753)	5-9 1/4 (1759)	5-8 3/4 (1747)	 <p>ELALDGR7369 ELCA2159</p>
5-9 (1753)				
5-9 1/4 (1759)				
5-8 3/4 (1747)				

Multiple Assemblies

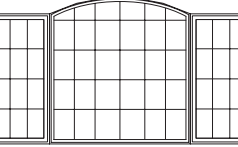
MO (mm)	9-0 1/2 (2756)
RO (mm)	9-1 (2769)
FS (mm)	9-0 (2743)

<table border="1"> <tr><td>2-5 3/8 (746)</td></tr> <tr><td>2-5 5/8 (752)</td></tr> <tr><td>2-5 1/8 (740)</td></tr> </table>	2-5 3/8 (746)	2-5 5/8 (752)	2-5 1/8 (740)	 <p>ELALDGR3729 ELCA3723</p>
2-5 3/8 (746)				
2-5 5/8 (752)				
2-5 1/8 (740)				

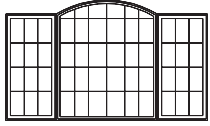
MO (mm)	6-8 1/2 (2045)
RO (mm)	6-9 (2057)
FS (mm)	6-8 (2032)

<table border="1"> <tr><td>5-4 3/4 (1645)</td></tr> <tr><td>5-5 (1651)</td></tr> <tr><td>5-4 1/2 (1638)</td></tr> </table>	5-4 3/4 (1645)	5-5 (1651)	5-4 1/2 (1638)	 <p>ELALDGR4164 ELCA2159</p>
5-4 3/4 (1645)				
5-5 (1651)				
5-4 1/2 (1638)				

MO (mm)	10-0 1/2 (3061)
RO (mm)	10-1 (3073)
FS (mm)	10-0 (3048)

<table border="1"> <tr><td>5-6 7/8 (1699)</td></tr> <tr><td>5-7 1/8 (1705)</td></tr> <tr><td>5-6 5/8 (1692)</td></tr> </table>	5-6 7/8 (1699)	5-7 1/8 (1705)	5-6 5/8 (1692)	 <p>ELALDGR6567 ELCA2959 E</p>
5-6 7/8 (1699)				
5-7 1/8 (1705)				
5-6 5/8 (1692)				

MO (mm)	9-4 1/2 (2858)
RO (mm)	9-5 (2870)
FS (mm)	9-4 (2845)

<table border="1"> <tr><td>5-7 3/16 (1707)</td></tr> <tr><td>5-7 7/16 (1713)</td></tr> <tr><td>5-6 15/16 (1700)</td></tr> </table>	5-7 3/16 (1707)	5-7 7/16 (1713)	5-6 15/16 (1700)	 <p>ELALDGR5767 ELCA2959 E</p>
5-7 3/16 (1707)				
5-7 7/16 (1713)				
5-6 15/16 (1700)				

MULTIPLE ASSEMBLIES

Units may be factory mull 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.

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)
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)
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)
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)

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 (881) 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 (814) 2-11 1/2 (902)

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)
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)
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 (2686) 8-9 3/4 (2692) 8-9 1/4 (2679)

Details and Elevations not to scale.
 E = These windows meet National Egress Codes for fire evacuation. Local codes may differ.
 When ordering 6 3/16" (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.

Double Hung/Door Frame Type

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

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)
2-5 3/4 (766) 2-6 (762) 2-5 1/2 (749)	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)
L R ELALDGR30 1W	L R ELALDGR34 1W	L R ELALDGR36 1W
MO (mm) 3-0 (914) RO (mm) 3-0 1/2 (927) FS (mm) 2-11 1/2 (902)	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)
1-6 (457) 1-6 1/4 (464) 1-5 3/4 (451)	1-9 (533) 1-9 1/4 (540) 1-8 3/4 (527)	2-1 3/4 (654) 2-2 (660) 2-1 1/2 (648)
ELALDGR36 1W	ELALDGR42 1W	ELALDGR26 2W
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) 2-11 1/2 (902) RO (mm) 3-0 (914) FS (mm) 2-11 (889)
3-1 3/4 (959) 3-2 (965) 3-1 1/2 (953)	3-5 3/4 (1060) 3-6 (1067) 3-5 1/2 (1054)	2-11 1/2 (902) 3-0 (914) 2-11 (889)
ELALDGR38 2W	ELALDGR42 2W	ELALDGR3636
MO (mm) 4-11 1/2 (1511) RO (mm) 5-0 (1524) FS (mm) 4-11 (1499)	MO (mm) 6-11 1/2 (2121) RO (mm) 7-0 (2134) FS (mm) 6-11 (2108)	MO (mm) 2-7 1/2 (800) RO (mm) 2-8 (813) FS (mm) 2-7 (787)
3-1 1/2 (1207) 4-0 (1219) 3-11 (1194)		3-11 1/2 (1207) 4-0 (1219) 3-11 (1194)
ELALDGR3248		ELALDGR3248

Multiple Assemblies

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) 3-6 (1067) RO (mm) 3-6 1/2 (1080) FS (mm) 3-5 1/2 (1054)	MO (mm) 6-3 1/2 (1918) RO (mm) 6-4 (1930) FS (mm) 6-3 (1905)
7-5 1/2 (2273) 7-5 3/4 (2280) 7-5 1/4 (2267)	4-9 3/4 (1467) 4-10 (1473) 4-9 1/2 (1461)	5-8 3/4 (1746) 5-9 (1753) 5-8 1/2 (1740)	6-5 1/2 (1969) 6-5 3/4 (1975) 6-5 1/4 (1962)
ELDGR34 1W ELDH3456	ELALDGR36 1W ELDH3640	ELALDGR42 1W ELDH4248	ELALDGR38 2W ELDH3840 2W
MO (mm) 4-11 1/2 (1511) RO (mm) 5-0 (1524) FS (mm) 4-11 (1499)	MO (mm) 6-11 1/2 (2121) RO (mm) 7-0 (2134) FS (mm) 6-11 (2108)	MO (mm) 9-2 1/2 (2807) RO (mm) 9-3 (2819) FS (mm) 9-2 (2794)	
7-1 1/2 (2172) 7-1 3/4 (2178) 7-1 1/4 (2165)	9-1 1/2 (2781) 9-1 3/4 (2786) 9-1 1/4 (2775)	5-9 1/2 (1765) 5-9 3/4 (1772) 5-9 1/4 (1759)	
ELALDGR30 2W ELDH3056 2W	ELALDGR42 2W ELDH4268 2W E	ELDH2236 ELALDGR6869 ELDH2236	

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.

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 9/16" (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

Door Frame Type

True Half (RT1), Elliptical (RT29)

MO (mm) 5-11 1/2 (1816) RO (mm) 6-0 (1829) FS (mm) 5-11 (1803)	MO (mm) 5-11 1/2 (1816) RO (mm) 6-0 (1829) FS (mm) 5-11 (1803)
2-11 3/4 (908) 3-0 (914) 2-11 1/2 (902)	1-6 1/4 (464) 1-6 1/2 (470) 1-6 (457)
ELALDGR7236	ELALDGR7218

Multiple Assemblies

Sliding Patio Doors

MO (mm) 5-11 1/2 (1816) RO (mm) 6-0 (1829) FS (mm) 5-11 (1803)	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)	8-4 1/4 (2546) 8-4 1/2 (2553) 8-4 (2540)
ELALDGR7218 / ELSPD6068 OX	ELALDGR7218 / ELSFD6068 XO
9-9 3/4 (2991) 9-10 (2997) 9-9 1/2 (2985)	9-9 3/4 (2991) 9-10 (2997) 9-9 1/2 (2985)
ELALDGR7236* / ELSPD6068 OX	ELALDGR7236* / ELSFD6068 XO

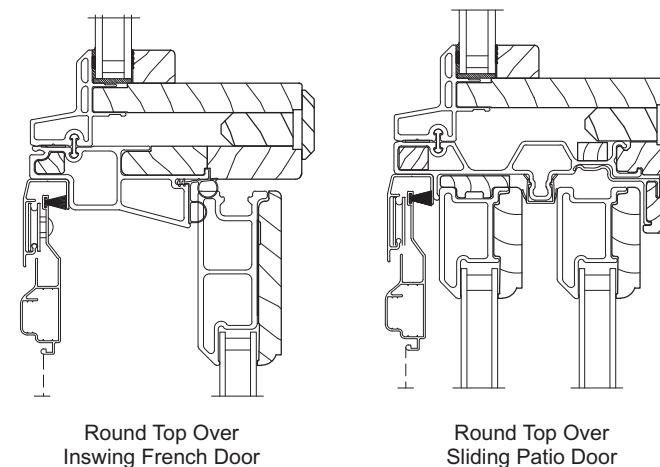
Sliding French Doors

MO (mm) 5-11 1/2 (1816) RO (mm) 6-0 (1829) FS (mm) 5-11 (1803)	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)	8-4 1/4 (2546) 8-4 1/2 (2553) 8-4 (2540)
ELALDGR7218 / ELIFD6068 XO	ELALDGR7218 / ELIFD6068 XO
9-9 3/4 (2991) 9-10 (2997) 9-9 1/2 (2985)	9-9 3/4 (2991) 9-10 (2997) 9-9 1/2 (2985)
ELALDGR7236* / ELIFD6068 XO	ELALDGR7236* / ELIFD6068 XO

Inswing French Doors

MO (mm) 5-11 1/2 (1816) RO (mm) 6-0 (1829) FS (mm) 5-11 (1803)	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)	8-4 1/4 (2546) 8-4 1/2 (2553) 8-4 (2540)
ELALDGR7218 / ELIFD6068 XO	ELALDGR7218 / ELIFD6068 XO
9-9 3/4 (2991) 9-10 (2997) 9-9 1/2 (2985)	9-9 3/4 (2991) 9-10 (2997) 9-9 1/2 (2985)
ELALDGR7236* / ELIFD6068 XO	ELALDGR7236* / ELIFD6068 XO

Horizontal Mullion Details



Details and Elevations not to scale.

* Assembly available field mullied 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 mullied 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.

MULTIPLE ASSEMBLIES

Multiple assemblies can be factory mullied 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.

Double Hung/Door Frame Type

True Half above Springline (RT2)

MO (mm)	5-7 1/2 (1715)	MO (mm)	5-11 1/2 (1816)
RO (mm)	5-8 (1727)	RO (mm)	6-0 (1829)
FS (mm)	5-7 (1702)	FS (mm)	5-11 (1803)

5-9 1/2 (1766)	SPLN 36ELDH	
5-9 3/4 (1772)		
5-9 1/4 (1759)		

ELALDGR7259

4-10 7/8 (1495)	SPLN 36ELDH	
4-11 1/8 (1502)		
4-10 5/8 (1489)		

ELALDGR6869

Eyebrow above Springline (RT6)

MO (mm)	2-2 (660)	MO (mm)	2-6 (762)	MO (mm)	2-10 (864)	MO (mm)	3-0 (914)
RO (mm)	2-2 1/2 (673)	RO (mm)	2-6 1/2 (775)	RO (mm)	2-10 1/2 (876)	RO (mm)	3-0 1/2 (927)
FS (mm)	2-1 1/2 (648)	FS (mm)	2-5 1/2 (749)	FS (mm)	2-9 1/2 (851)	FS (mm)	2-11 1/2 (902)

1-7 11/16 (500)	SPLN 16ELDHTR	
1-7 15/16 (506)		
1-7 7/16 (494)		

ELALDGR2619

1-9 1/8 (536)	SPLN 16ELDHTR	
1-9 3/8 (542)		
1-8 7/8 (529)		

ELALDGR3021

1-9 1/8 (536)	SPLN 16ELDHTR	
1-9 3/8 (542)		
1-8 7/8 (529)		

ELALDGR3421

1-9 13/16 (554)	SPLN 16ELDHTR	
1-10 1/16 (560)		
1-9 9/16 (548)		

ELALDGR3622

MO (mm)	3-2 (965)	MO (mm)	3-6 (1067)	MO (mm)	4-3 1/2 (1308)	MO (mm)	4-11 1/2 (1511)
RO (mm)	3-2 1/2 (978)	RO (mm)	3-6 1/2 (1080)	RO (mm)	4-4 (1321)	RO (mm)	5-0 (1524)
FS (mm)	3-1 1/2 (953)	FS (mm)	3-5 1/2 (1054)	FS (mm)	4-3 (1295)	FS (mm)	4-11 (1499)

1-8 5/8 (625)	SPLN 16ELDHTR	
1-8 7/8 (631)		
1-8 3/8 (618)		

ELALDGR3820

1-8 5/8 (625)	SPLN 16ELDHTR	
1-8 7/8 (631)		
1-8 3/8 (618)		

ELALDGR4222

1-10 3/8 (569)	SPLN 16ELDHTR	
1-10 1/16 (575)		
1-10 1/8 (563)		

ELALDGR5222

2-0 3/4 (629)	SPLN 16ELDHTR	
2-1 (636)		
2-0 1/2 (623)		

ELALDGR6025

MO (mm)	5-7 1/2 (1715)	MO (mm)	5-11 1/2 (1816)	MO (mm)	6-3 1/2 (1918)	MO (mm)	6-11 1/2 (2121)
RO (mm)	5-8 (1727)	RO (mm)	6-0 (1829)	RO (mm)	6-4 (1930)	RO (mm)	7-0 (2134)
FS (mm)	5-7 (1702)	FS (mm)	5-11 (1803)	FS (mm)	6-3 (1905)	FS (mm)	6-11 (2108)

2-0 1/4 (616)	SPLN 16ELDHTR	
2-0 1/2 (622)		
2-0 (610)		

ELALDGR6824

2-1 3/8 (645)	SPLN 16ELDHTR	
2-1 5/8 (651)		
2-1 1/8 (638)		

ELALDGR7225

2-2 1/2 (674)	SPLN 16ELDHTR	
2-2 3/4 (680)		
2-2 1/4 (668)		

ELALDGR7626

2-5 1/8 (741)	SPLN 16ELDHTR	
2-5 3/8 (747)		
2-4 7/8 (734)		

ELALDGR8429

MO (mm)	4-3 1/2 (1308)	MO (mm)	4-11 1/2 (1511)	MO (mm)	5-7 1/2 (1715)	MO (mm)	6-3 1/2 (1918)
RO (mm)	4-4 (1321)	RO (mm)	5-0 (1524)	RO (mm)	5-8 (1727)	RO (mm)	6-4 (1930)
FS (mm)	4-3 (1295)	FS (mm)	4-11 (1499)	FS (mm)	5-7 (1702)	FS (mm)	6-3 (1905)

5-6 3/8 (1687)	SPLN 60ELDH	
5-6 5/8 (1693)		
5-6 1/8 (1680)		

ELALDGR5266

5-8 3/4 (1747)	SPLN 60ELDH	
5-9 (1753)		
5-8 1/2 (1741)		

ELALDGR6069

5-8 1/4 (1734)	SPLN 60ELDH	
5-8 1/2 (1741)		
5-8 (1728)		

ELALDGR6868

5-10 1/2 (1791)	SPLN 60ELDH	
5-10 3/4 (1798)		
5-10 1/4 (1785)		

ELALDGR7670

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

6-1 1/8 (1858)	SPLN 60ELDH	
6-1 3/8 (1866)		
6-0 7/8 (1852)		

ELALDGR8473

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) Multiple Assemblies

MO (mm)	3-0 (914)	MO (mm)	3-6 (1067)	MO (mm)	5-7 1/2 (1715)	MO (mm)	6-3 1/2 (1918)
RO (mm)	3-0 1/2 (927)	RO (mm)	3-6 1/2 (1080)	RO (mm)	5-8 (1727)	RO (mm)	6-4 (1930)
FS (mm)	2-11 1/2 (902)	FS (mm)	3-5 1/2 (1054)	FS (mm)	5-7 (1702)	FS (mm)	6-3 (1905)

6-9 9/16 (2072)	SPLN 36ELDH	
6-9 13/16 (2078)		
6-9 5/16 (2065)		

ELALDGR3622
ELDH3660 E

7-9 9/16 (2376)	SPLN 36ELDH	
7-9 13/16 (2383)		
7-9 5/16 (2370)		

ELALDGR4222
ELDH4272 E

6-8 (2032)	SPLN 36ELDH	
6-8 1/4 (2036)		
6-7 3/4 (2026)		

ELALDGR6824
ELDH3456 2W

6-10 (2083)	SPLN 36ELDH	
6-10 1/4 (2089)		
6-9 3/4 (2076)		

ELALDGR7626
ELDH3856 2W

MO (mm)	8-6 1/2 (2604)	MO (mm)	9-2 1/2 (2807)	MO (mm)	13-10 1/2 (4229)
RO (mm)	8-7 (2616)	RO (mm)	9-3 (2819)	RO (mm)	13-11 (4242)
FS (mm)	8-6 (2591)	FS (mm)	9-2 (2794)	FS (mm)	13-10 (4216)

5-6 3/8 (1686)	SPLN 16ELDHTR	
5-6 5/8 (1692)		
5-6 1/8 (1680)		

ELALDGR5266
ELDH2660

5-8 1/4 (1734)	SPLN 16ELDHTR	
5-8 1/2 (1740)		
5-8 (1727)		

ELALDGR6868
ELDH2260

6-1 1/8 (1857)	SPLN 16ELDHTR	
6-1 3/8 (1864)		
6-0 7/8 (1851)		

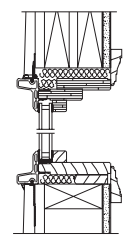
ELALDGR8473T
ELDH4260 E

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

1-9 1/8 (637)	SPLN 16ELDHTR	
1-9 3/8 (643)		
1-8 7/8 (630)		

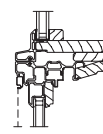
ELALDGR3021
ELDHTR2216

Construction Detail



Double Hung/Door Round Top Head Jamb and Sill

Horizontal Mullion Detail



Double Hung Round Top Over Double Hung

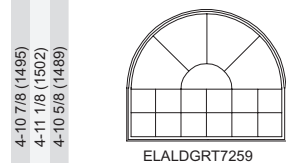
MULTIPLE ASSEMBLIES

Units may be factory 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.

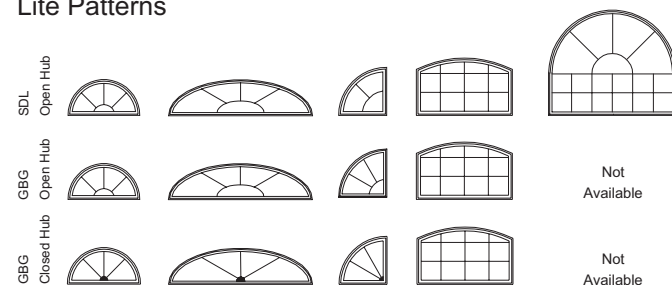
MAXIMUM ROUGH OPENING 113 1/2" (2883 mm) wide x 91 1/16" (2313 mm) high or 85" (2159 mm) wide x 107 9/16" (2732 mm) high. Quarter Round shapes require a Casement with a continuous head jamb.

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)

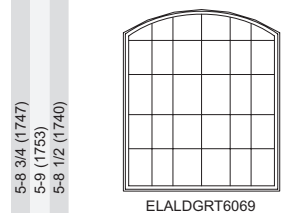


Lite Patterns

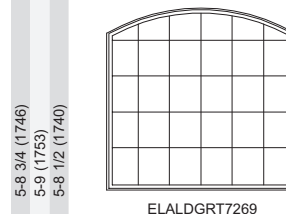


Eyebrow above Springline (RT6)

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)



T = Standard Tempered

Contact your Marvin representative for multiple assembly lite alignment. Certain assemblies do not allow for exact lite alignment.

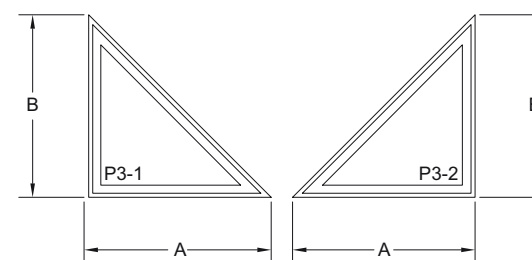
Not to scale. Optional Round Top SDL and SDL with Spacer Bar are available in standard cut shown above. GBG patterns shown above. (Round Top divided lites not available in other lite cuts) Optional Casement and Double Hung GBGs and SDLs are available in several lite variations, standard Rectangular cut shown.

Note: ELALDGRT7225, ELALDGRT7233, and ELALDGRT7269 can be mullied above a CN 36 width 2W Elevate Double Hung. GBGs may not line up in multiple assemblies. ELALDGRT7259 can be mullied above a CN 36 width 2W Elevate Double Hung.

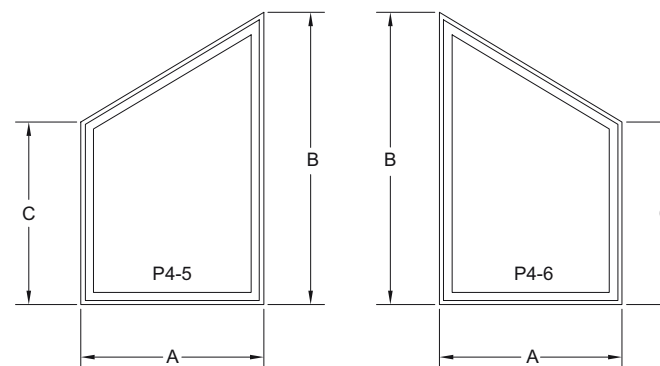
For more information, please contact your Marvin representative.

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

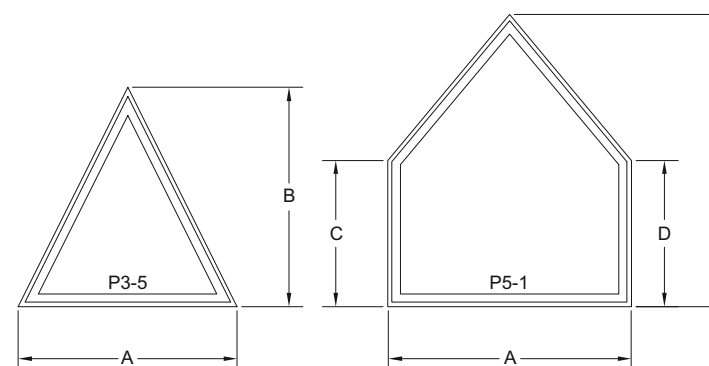
DIRECT GLAZE SPECIALTY SHAPES - POLYGONS



90° TRIANGLE

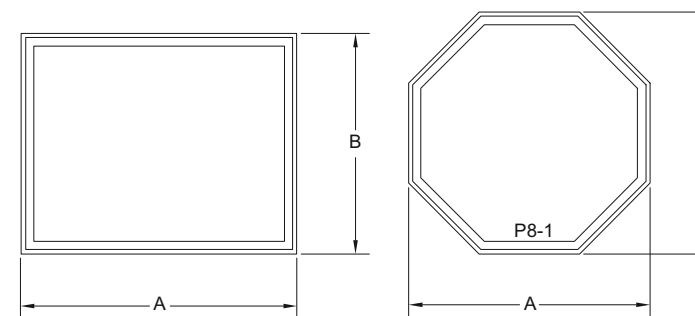


TRAPEZOID



ISOSCELES TRIANGLE

PENTAGON



90° RECTANGLE

OCTAGON

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).

MULTIPLE ASSEMBLIES - RECTANGLES ONLY

Multiple assemblies of rectangles only can be factory mullied:

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".

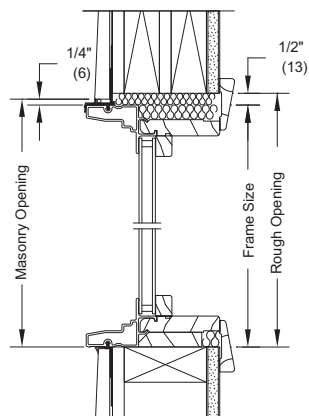
For ELDG units mulling over ELSPD/ELSFD: up to 1 unit wide by 2 units high. **MAXIMUM ROUGH OPENING** not to exceed 72" x 100 1/2".

For ELDG units mulling 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".

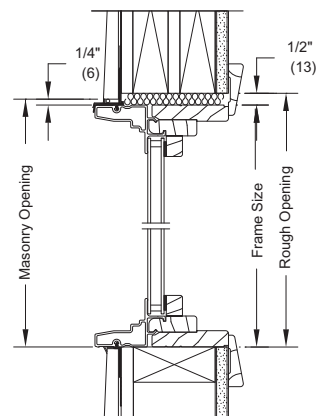
Field mulling window assemblies beyond the above limitations is not recommended.

Field mulling door assemblies beyond 110" x 112" is not recommended.

Construction Details

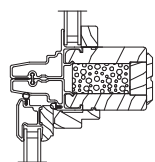


Direct Glaze Casement
 Frame Type
 Head Jamb and Sill

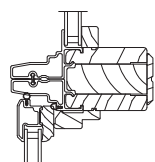


Direct Glaze Double Hung/Door
 Frame Type
 Head Jamb and Sill

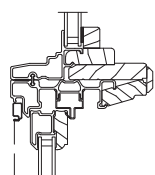
Mullion Details



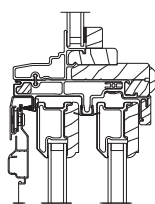
Direct Glaze
 Over Casement/Awning



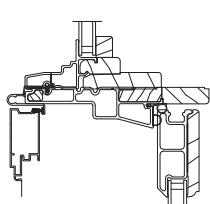
Direct Glaze
 Over Casement/Awning
 with Structural Mull
 Reinforcement Block*



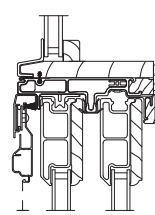
Direct Glaze
 Over Double Hung



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)						
7-11 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. (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 mull 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 mull only. Structural mullion reinforcement is required for some assemblies.

Please consult your local Marvin representative for more information.

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)					

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)				

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.

MULTIPLE ASSEMBLIES

Multiple assembly units can be factory mulled 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 mulled only. Structural mullion reinforcement is required for some assemblies.

Please consult your local Marvin representative for more information.

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)			
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)			

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)			
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.

(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 mulled up to 1 unit wide by 2 units high.

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

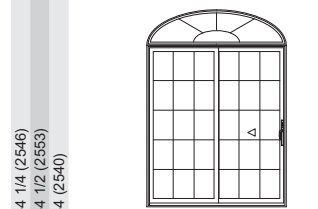
Field mull kits available not to exceed 110" x 112".

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

Please consult your local Marvin representative for more information.

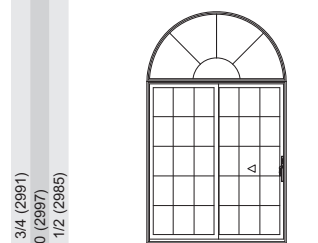
Round Top Over Sliding Patio Door

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



ELDG RT7218 /ELSPD6068 OX

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



ELDG RT7236 /ELSPD6068 OX*

9-9 3/4 (2891)
 9-10 (2897)
 9-9 1/2 (2885)

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"

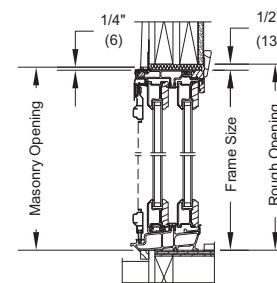
Field mull kits available not to exceed 110" x 112".

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

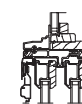
Please consult your local Marvin representative for more information.

SLIDING PATIO DOOR

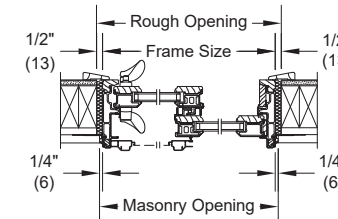
Construction Details



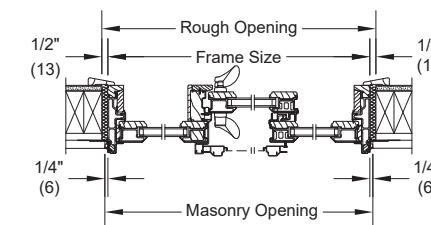
Head Jamb and Sill



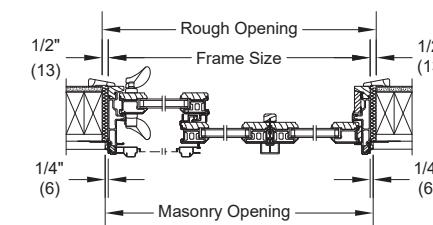
Direct Glaze
 Over Sliding Patio Door



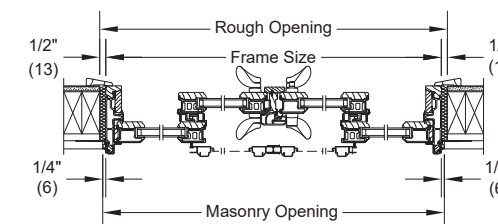
2 Panel XO Operator Jamb



3 Panel OXO Operator Jamb



3 Panel XOO Operator Jamb



4 Panel OXXO Operator Jamb

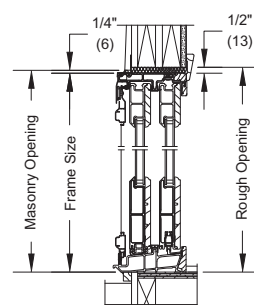
2 Panel

MO (mm)	4-11 1/2 (1511)	5-11 1/2 (1816)	7-11 1/2 (2426)
RO (mm)	5-0 (1524)	6-0 (1829)	8-0 (2438)
FS (mm)	4-11 (1499)	5-11 (1803)	7-11 (2413)
DLO (mm)	1-10 3/8 (568)	2-4 3/8 (721)	3-4 3/8 (1026)
6-7 3/4 (2026)			
6-8 (2032)	ELSFD5065 XO	ELSFD5065 OX	ELSFD6065 XO
6-7 1/2 (2019)			
5-7 3/32 (1704)	ELSFD5068 XO	ELSFD5068 OX	ELSFD6068 XO
6-10 1/4 (2089)			
6-10 1/2 (2096)	ELSFD5068 XO	ELSFD5068 OX	ELSFD6068 XO
6-10 (2083)			
5-9 19/32 (1768)	ELSFD5070 XO	ELSFD5070 OX	ELSFD6070 XO
7-2 1/4 (2191)			
7-2 1/2 (2197)	ELSFD5070 XO	ELSFD5070 OX	ELSFD6070 XO
7-2 (2184)			
6-1 19/32 (1869)	ELSFD5080 XO	ELSFD5080 OX	ELSFD6080 XO
7-11 3/4 (2432)			
8-0 (2436)	ELSFD5080 XO	ELSFD5080 OX	ELSFD6080 XO
7-11 1/2 (2426)			
6-11 3/32 (2111)	ELSFD5080 XO	ELSFD5080 OX	ELSFD6080 XO

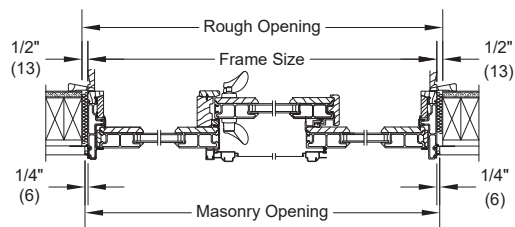
Round Top Over
 Sliding French Door

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)	ELDGR7218/ELSFD6068 XO
8-4 (2540)	
9-9 3/4 (2991)	
9-10 (2997)	ELDGR7236/ELSFD6068 XO*
9-9 1/2 (2985)	

Construction Details



Head Jamb and Sill



2 Panel Jamb - XO Operator

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)
6-7 3/4 (2026)	
6-8 (2032)	ELSFD 7665 XOO
6-7 1/2 (2019)	
5-7 3/32 (1704)	ELSFD 7665 OOX
6-10 1/4 (2089)	
6-10 1/2 (2096)	ELSFD 7668 XOO
6-10 (2083)	
5-9 19/32 (1768)	ELSFD 7668 OOX
7-2 1/4 (2191)	
7-2 1/2 (2197)	ELSFD 7670 XOO
7-2 (2184)	
6-1 19/32 (1869)	ELSFD 7670 OOX
7-11 3/4 (2432)	
8-0 (2436)	ELSFD 7680 XOO
7-11 1/2 (2426)	
6-11 3/32 (2111)	ELSFD 7680 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.

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 for up to 3 units wide by 2 units high 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.

* This product is only available field mullered.

3 Panel

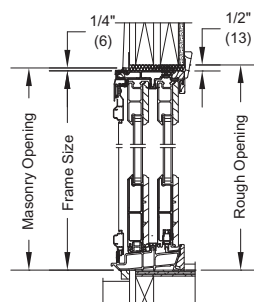
MO (mm)	8-11 (2718)			
RO (mm)	8-11 1/2 (2731)			
FS (mm)	8-10 1/2 (2705)			
DLO (mm)	2-4 3/8 (721)			
6-7 3/4 (2026) 6-8 (2032) 6-7 1/2 (2019) 5-7 3/32 (1704)				
6-10 1/4 (2089) 6-10 1/2 (2096) 6-10 (2083) 5-9 19/32 (1768)				
7-2 1/4 (2191) 7-2 1/2 (2197) 7-2 (2184) 6-1 19/32 (1869)				
7-11 3/4 (2432)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

SLIDING FRENCH DOOR

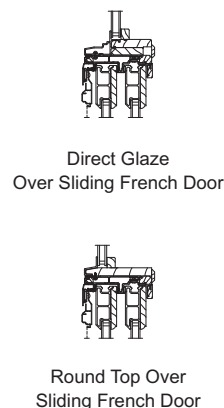
3 Panel

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) 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)				

Construction Details

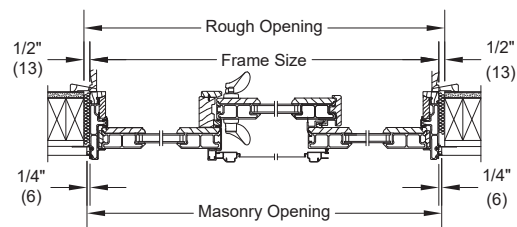


Head Jamb and Sill



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 mulled

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.

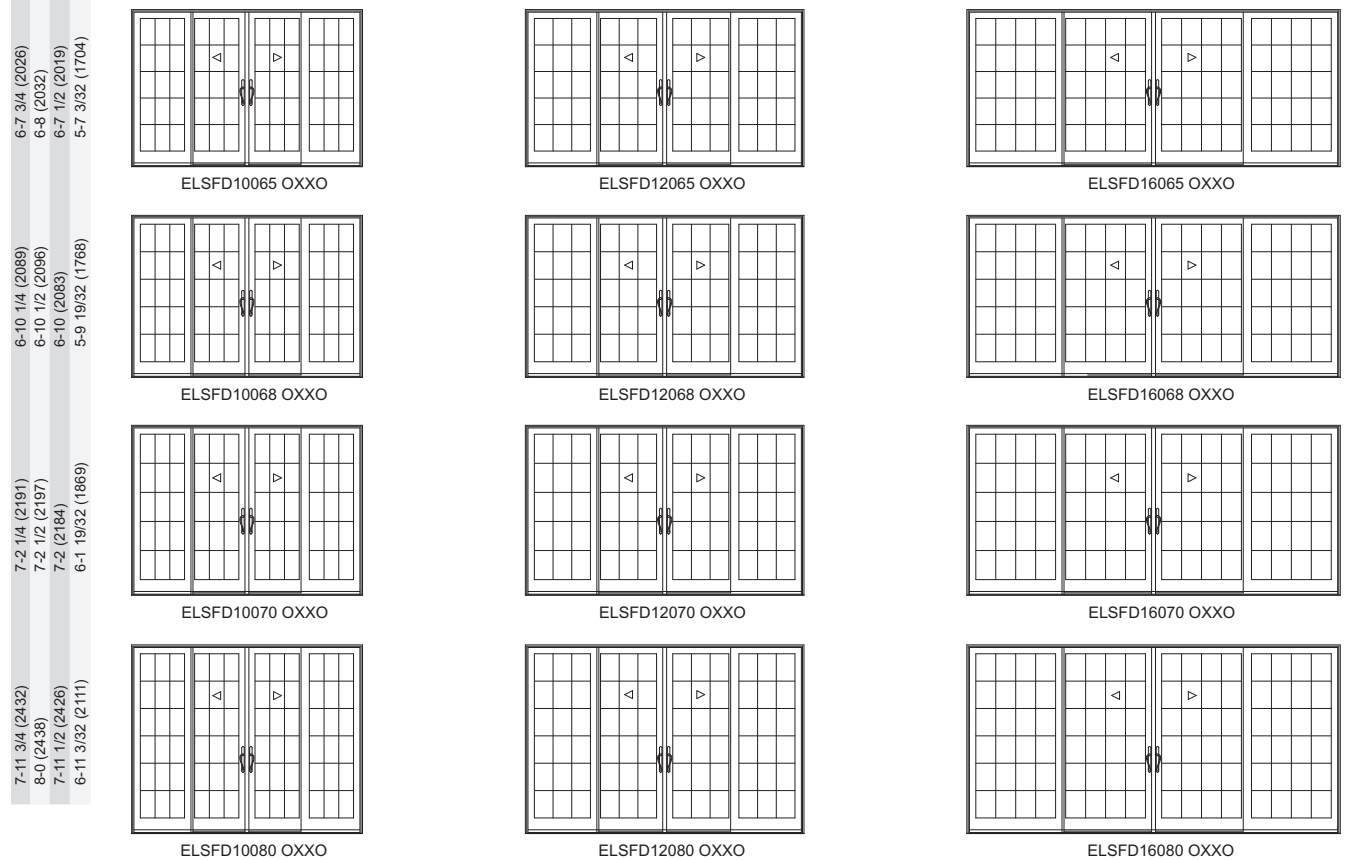
MULTIPLE ASSEMBLIES

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

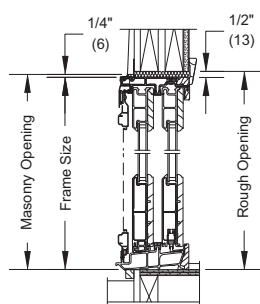
Please consult your local Marvin representative for more information.

4 Panel

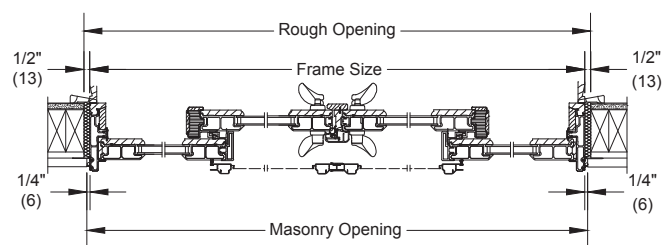
MO (mm)	9-9 1/2 (2985)	11-9 1/2 (3594)	15-9 1/2 (4813)
RO (mm)	9-10 (2997)	11-10 (3607)	15-10 (4826)
FS (mm)	9-9 (2972)	11-9 (3581)	15-9 (4801)
DLO (mm)	1-10 3/8 (568)	2-4 3/8 (721)	3-4 3/8 (1026)



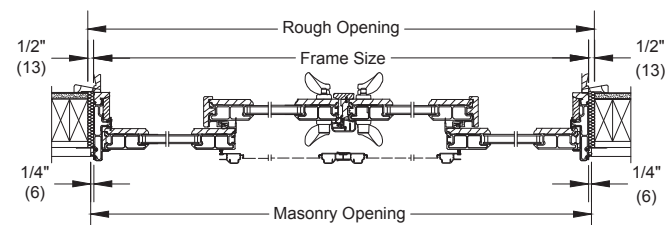
Construction Details



Head Jamb and Sill



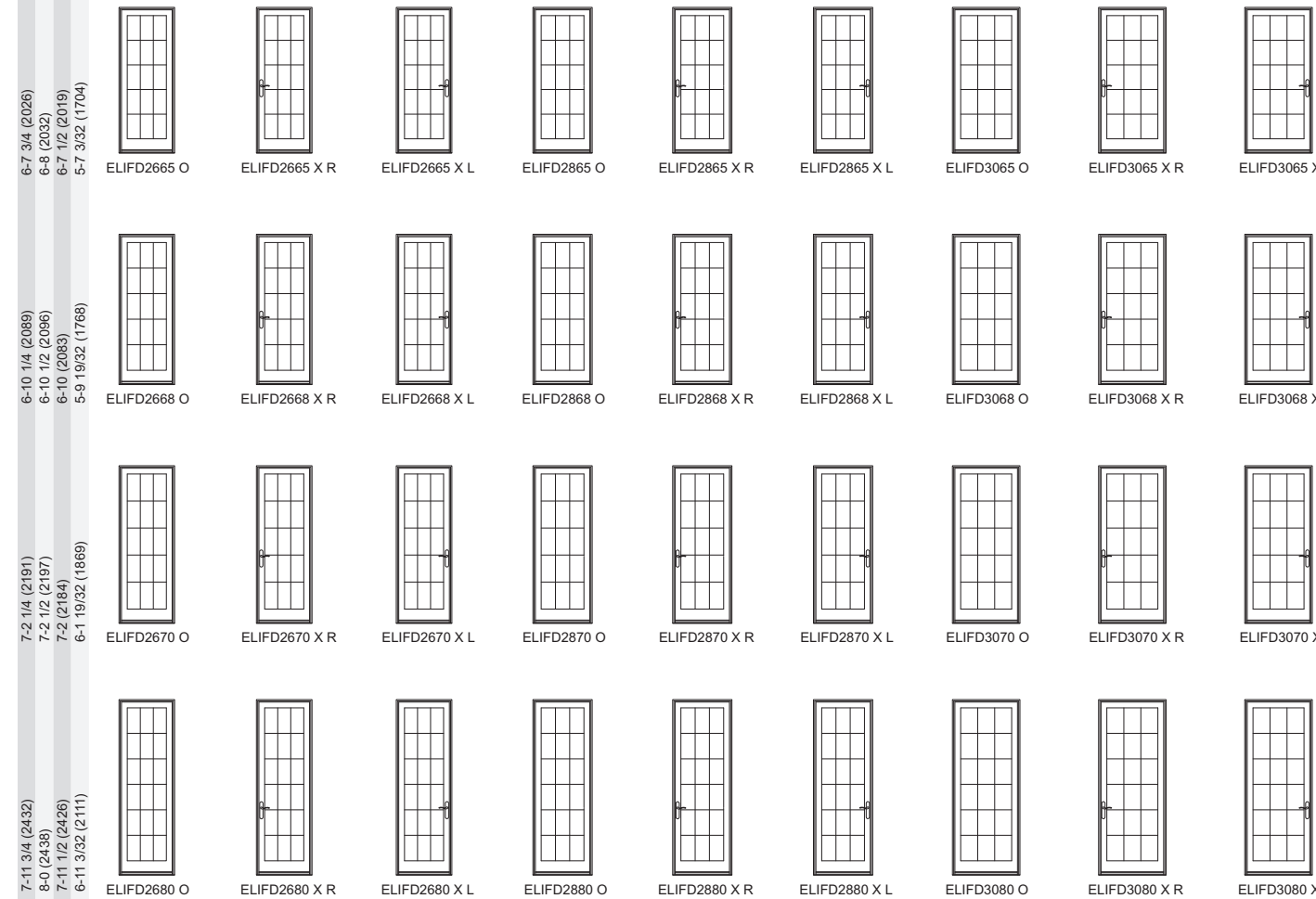
4 Panel Jamb - OXXO Operator
 Frame Heights over 86"



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

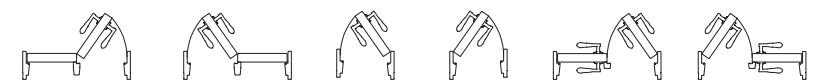
INSWING FRENCH DOOR

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.



OX L Inswing Door XO R Inswing Door X R Inswing Door X L Inswing Door XX R Inswing Door XX L Inswing Door

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.

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 mullled.

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)

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

Round Top Over
 Inswing French Door

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

Details and Elevations not to scale.

* This product is only available field mullled.

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

O = Stationary X = Operator

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 3. (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

Multiple assemblies can be factory mullled.

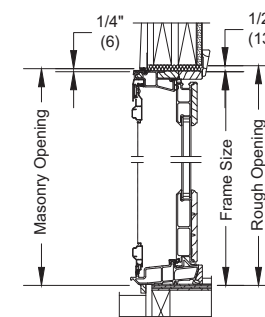
MAXIMUM ROUGH OPENING not to exceed 109 15/16" x 96" maximum up to 3 units wide by 1 unit high.

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

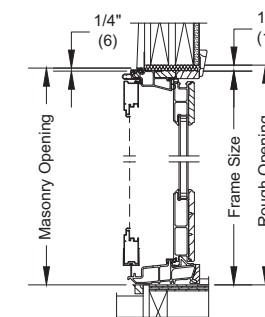
Field mull kits available not to exceed 110" x 112". True Half Rounds are available field mullled only. Structural mullion reinforcement is required for some assemblies.

Please consult your local Marvin representative for more information.

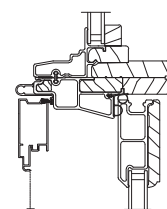
Construction Details



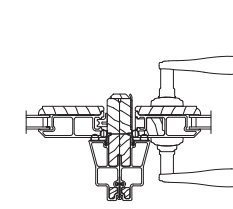
Head Jamb and Sill with Sliding Screen



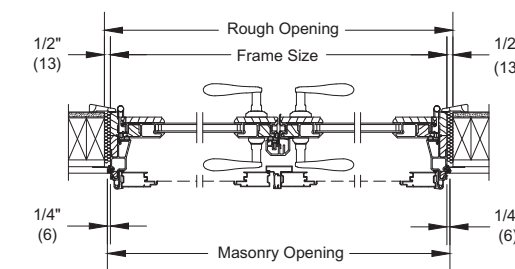
Head Jamb and Sill with Swinging Screen



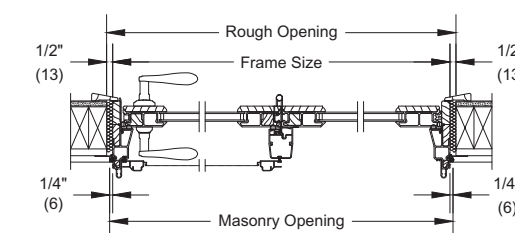
Direct Glaze Over Inswing French Door



Vertical Mullion O-XO operator



Jamb - XX Operator

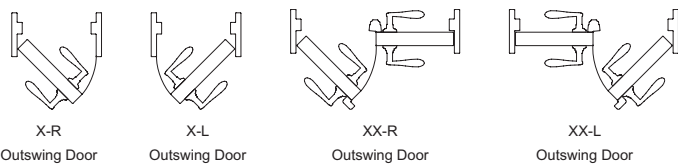


Jamb - XO Operator

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) 6-6 (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)			

Outswing Door Operation

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



Details and Elevations not to scale.

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

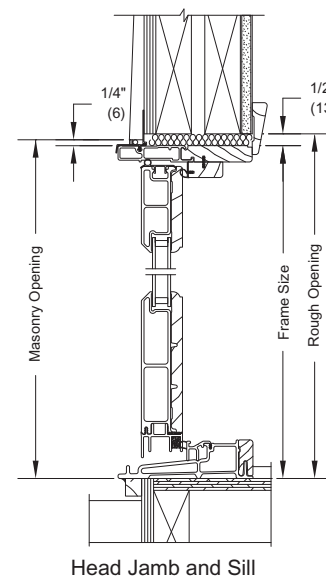
Optional Outswing French Door GBGs, SDLs and SDLs with Spacer Bar are available in a standard Rectangular cut, as shown. Other available lite cuts on page 3.

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

OUTSWING FRENCH DOOR

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) 6-6 (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)			

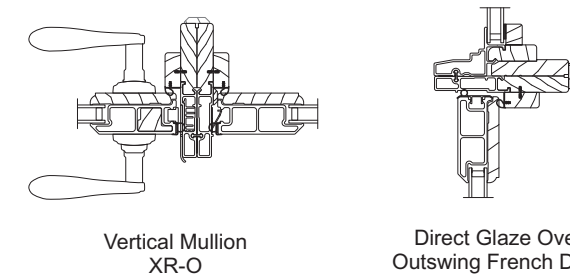
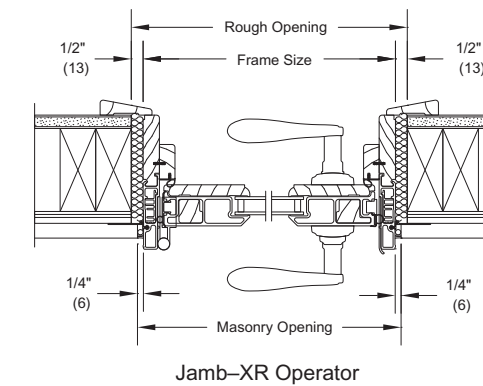
Construction Details



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)		
6-10 1/4 (2089) 6-10 1/2 (2096) 6-10 (2083)		
7-11 3/4 (2432) 8-0 (2438) 7-11 1/2 (2426)		

* 2 panel mullied assembly

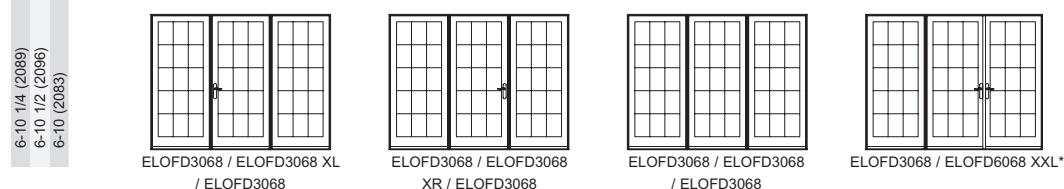


Multiple Assemblies – 3 Panel

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)
Frame Size (mm)	7-6 15/16 (2310)	7-6 15/16 (2310)	7-6 15/16 (2310)	7-5 5/16 (2269)

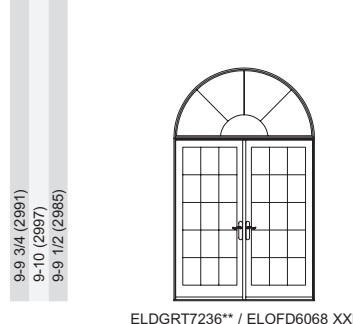
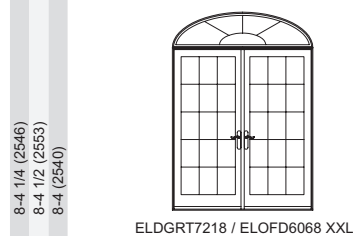


MO (mm)	9-1 7/16 (2780)	9-1 7/16 (2780)	9-1 7/16 (2780)	8-11 13/16 (2738)
RO (mm)	9-1 15/16 (2792)	9-1 15/16 (2792)	9-1 15/16 (2792)	9-0 5/16 (2751)
FS (mm)	9-0 15/16 (2767)	9-0 15/16 (2767)	9-0 15/16 (2767)	8-11 5/16 (2726)



Round Top Over Outswing French Door

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



ELDGR7236** / ELOFD6068 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 mullled.

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.

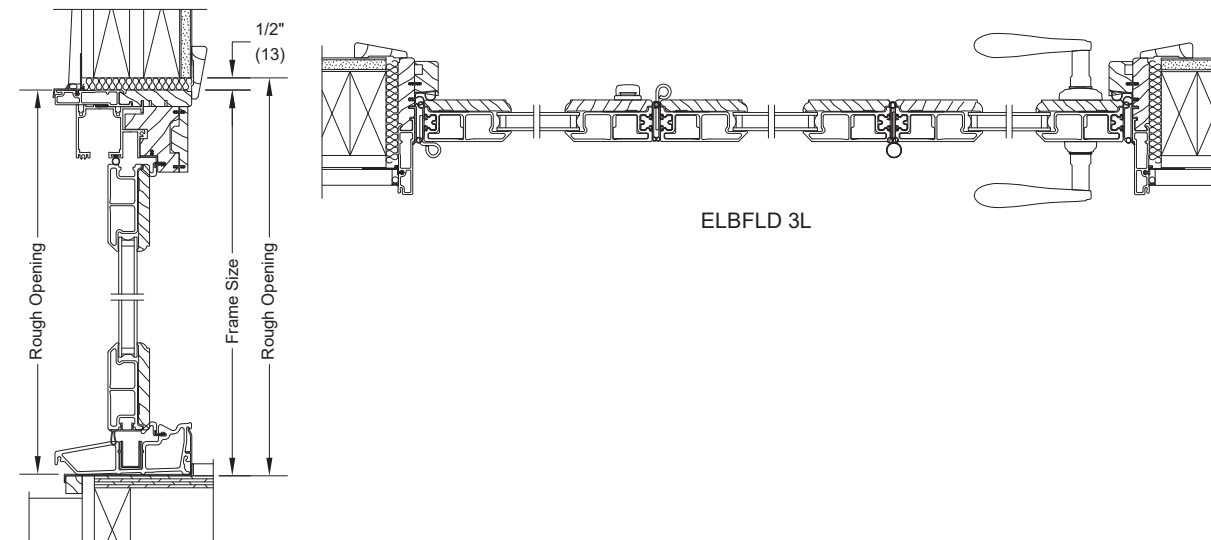
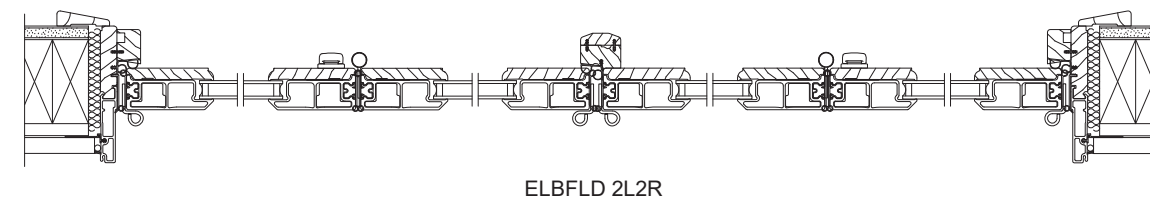
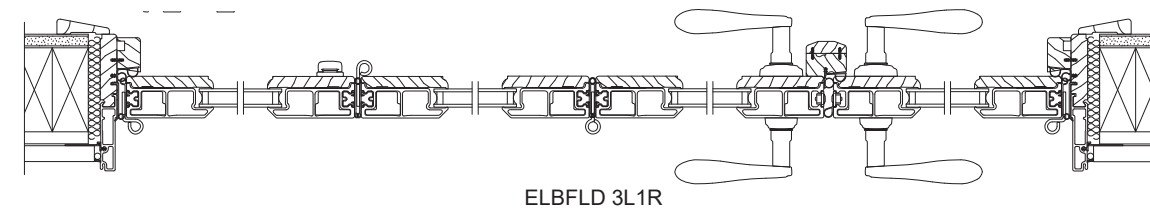
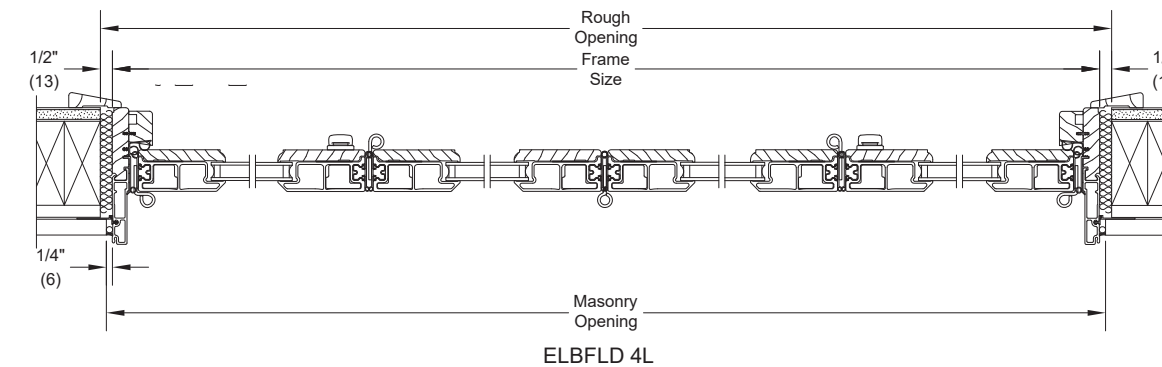
MAXIMUM ROUGH OPENING not to exceed 73 5/8" x 100 1/2" maximum up to 2 units wide by 2 unit high.

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

Please consult your local Marvin representative for more information.

BI-FOLD DOOR

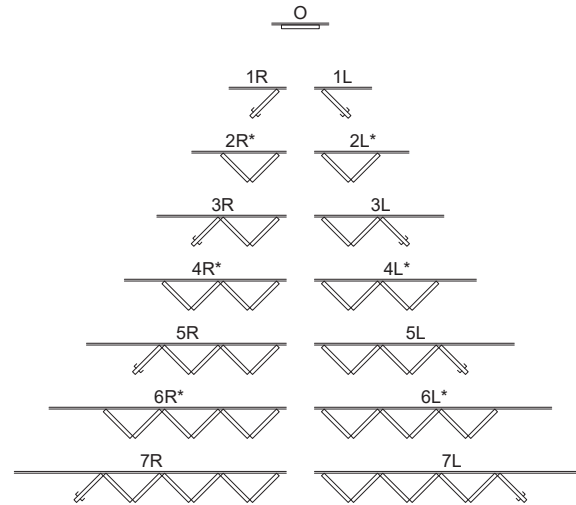
Construction Details



CERTIFIED MULLING OFFERINGS

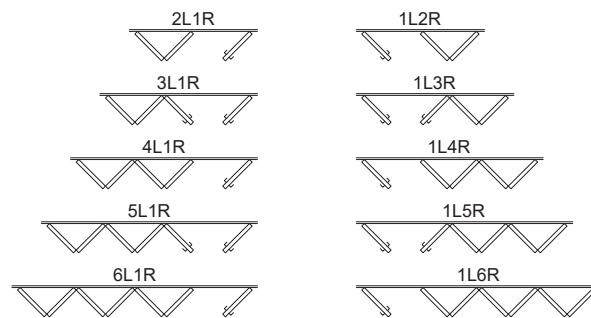
Configurations

Stationary Unit

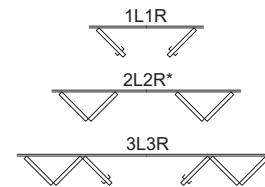


Uni-directional Left or Right Units

Uni-directional Left or Right Units with Operating Panel/s



Bi-parting (equal) Units



*not accessible from exterior

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
	Certified Standard	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
Certified Standard		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
61-1/2" x 83"	4 Wide x 5 High	40	Horizontal		
Glider Picture/Transom/Direct Glaze	Certified Standard	112-1/2" x 67-3/4"	5 Wide x 1 High	30	Vertical
	1/2" MRF	112-1/2" x 75-3/4"	5 Wide x 1 High	30	Vertical
		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.

Casement

EGRESS OPENING													
Unit #	Egress Width		Egress Height		Egress Clear Opening		Floor to Clear Opening		Vent Opening		DLO		
	Inches	(mm)	Inches	(mm)	Sq. Ft.	(cm²)	Inches	(mm)	Sq. Ft.	(cm²)	Sq. Ft.	(cm²)	
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)	12.32	(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

Double Hung

EGRESS OPENING													
Unit #	Egress Width		Egress Height		Egress Clear Opening		Floor To Clear Opening		Vent		DLO		
	Inches	(mm)	Inches	(mm)	Sq. Ft.	(cm²)	Inches	(mm)	Sq. Ft.	(cm²)	Sq. Ft.	(cm²)	
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	(5615)	
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)			

EGRESS OPENINGS

Double Hung (Continued)

EGRESS OPENING													
Unit #	Egress Width		Egress Height		Egress Clear Opening		Floor To Clear Opening		Vent		DLO		Check Rail Height Inches (mm)
	Inches	(mm)	Inches	(mm)	Sq. Ft.	(cm ²)	Inches	(mm)	Sq. Ft.	(cm ²)	Sq. Ft.	(cm ²)	
4236	38 3/8	(975)	12 31/32	(329)	3.46	(3211)	48 47/64	(1238)	3.46	(3211)	6.78	(6303)	
4240	38 3/8	(975)	14 31/32	(380)	3.99	(3706)	44 47/64	(1136)	3.99	(3706)	7.78	(7224)	
4244	38 3/8	(975)	16 31/32	(431)	4.52	(4201)	40 47/64	(1035)	4.52	(4201)	8.77	(8145)	
4248	38 3/8	(975)	18 31/32	(482)	5.06	(4696)	36 47/64	(933)	5.06	(4696)	9.76	(9066)	
4252	38 3/8	(975)	20 31/32	(533)	5.59	(5192)	32 47/64	(831)	5.59	(5192)	10.75	(9987)	
4256	38 3/8	(975)	22 31/32	(583)	6.12	(5687)	28 47/64	(730)	6.12	(5687)	11.74	(10908)	
4260	E 38 3/8	(975)	24 31/32	(634)	6.65	(6182)	24 47/64	(628)	6.65	(6182)	12.73	(11829)	
4264	E 38 3/8	(975)	26 31/32	(685)	7.19	(6677)	20 47/64	(527)	7.19	(6677)	13.72	(12750)	
4268	E 38 3/8	(975)	28 31/32	(736)	7.72	(7172)	16 47/64	(425)	7.72	(7172)	14.72	(13671)	
4272	E 38 3/8	(975)	30 31/32	(787)	8.25	(7667)	12 47/64	(323)	8.25	(7667)	15.71	(14592)	
4276	E 38 3/8	(975)	32 31/32	(837)	8.79	(8162)	8 47/64	(222)	8.79	(8162)	16.70	(15513)	
4836	44 3/8	(1127)	12 31/32	(329)	4.0	(3713)	48 47/64	(1238)	4.00	(3713)	7.93	(7363)	
4840	44 3/8	(1127)	14 31/32	(380)	4.61	(4286)	44 47/64	(1136)	4.61	(4286)	9.08	(8439)	
4844	44 3/8	(1127)	16 31/32	(431)	5.23	(4858)	40 47/64	(1035)	5.23	(4858)	10.24	(9515)	
4848	44 3/8	(1127)	18 31/32	(482)	5.85	(5431)	36 47/64	(933)	5.85	(5431)	11.40	(10590)	
4852	44 3/8	(1127)	20 31/32	(533)	6.46	(6003)	32 47/64	(831)	6.46	(6003)	12.56	(11666)	
4856	44 3/8	(1127)	22 31/32	(583)	7.08	(6576)	28 47/64	(730)	7.08	(6576)	13.72	(12742)	
4860	E 44 3/8	(1127)	24 31/32	(634)	7.69	(7148)	24 47/64	(628)	7.69	(7148)	14.87	(13818)	
4864	E 44 3/8	(1127)	26 31/32	(685)	8.31	(7721)	20 47/64	(527)	8.31	(7721)	16.03	(14894)	
4868	E 44 3/8	(1127)	28 31/32	(736)	8.93	(8294)	16 47/64	(425)	8.93	(8294)	17.19	(15969)	
4872	E 44 3/8	(1127)	30 31/32	(787)	9.54	(8866)	12 47/64	(323)	9.54	(8866)	18.35	(17045)	
4876	E 44 3/8	(1127)	32 31/32	(837)	10.16	(9439)	8 47/64	(222)	10.16	(9439)	19.51	(18121)	
5436	50 3/8	(1279)	12 31/32	(329)	4.54	(4215)	48 47/64	(1238)	4.54	(4215)	9.07	(8423)	
5440	50 3/8	(1279)	14 31/32	(380)	5.24	(4865)	44 47/64	(1136)	5.24	(4865)	10.39	(9653)	
5444	50 3/8	(1279)	16 31/32	(431)	5.94	(5515)	40 47/64	(1035)	5.94	(5515)	11.72	(10884)	
5448	50 3/8	(1279)	18 31/32	(482)	6.64	(6165)	36 47/64	(933)	6.64	(6165)	13.04	(12115)	
5452	50 3/8	(1279)	20 31/32	(533)	7.34	(6815)	32 47/64	(831)	7.34	(6815)	14.36	(13345)	
5456	50 3/8	(1279)	22 31/32	(583)	8.04	(7465)	28 47/64	(730)	8.04	(7465)	15.69	(14576)	
5460	E 50 3/8	(1279)	24 31/32	(634)	8.73	(8115)	24 47/64	(628)	8.73	(8115)	17.01	(15807)	
5464	E 50 3/8	(1279)	26 31/32	(685)	9.43	(8765)	20 47/64	(527)	9.43	(8765)	18.34	(17037)	
5468	E 50 3/8	(1279)	28 31/32	(736)	10.13	(9415)	16 47/64	(425)	10.13	(9415)	19.66	(18268)	
5472	E 50 3/8	(1279)	30 31/32	(787)	10.83	(10065)	12 47/64	(323)	10.83	(10065)	20.99	(19499)	
5476	E 50 3/8	(1279)	32 31/32	(837)	11.53	(10715)	8 47/64	(222)	11.53	(10715)	22.31	(20729)	

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)

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)
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	(77												

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)	Sq. Ft.	(cm ²)
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)	
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)	32 47/64	(831)	4.81	(4466)	12.56	(11666)	22 19/32	(574)	
4856RC	44 3/8	(1127)	15 11/32	(390)	4.73	(4394)	28 47/64	(730)	4.73	(4394)	13.72	(12742)	24 13/64	(615)	
4860RC	44 3/8	(1127)	17 47/64	(451)	5.47	(5078)	24 47/64	(628)	5.47	(5078)	14.87	(13818)	25 13/16	(656)	
4864RC	44 3/8	(1127)	20 1/8	(511)	6.20	(5762)	20 47/64	(527)	6.20	(5762)	16.03	(14894)	27 27/64	(697)	
4868RC	44 3/8	(1127)	22 33/64	(572)	6.94	(6447)	16 47/64	(425)	6.94	(6447)	17.19	(15969)	29 1/32	(737)	
5436RC	50 3/8	(1279)	6 1/32	(153)	2.11	(1962)	48 47/64	(1238)	2.11	(1962)	9.07	(8423)	16 5/32	(410)	
5440RC	50 3/8	(1279)	8 27/64	(214)	2.95	(2739)	44 47/64	(1136)	2.95	(2739)	10.39	(9653)	17 49/64	(451)	
5444RC	50 3/8	(1279)	10 13/16	(275)	3.78	(3516)	40 47/64	(1035)	3.78	(3516)	11.72	(10884)	19 3/8	(492)	
5448RC	50 3/8	(1279)	13 13/64	(336)	4.62	(4293)	36 47/64	(933)	4.62	(4293)	13.04	(12115)	20 63/64	(533)	
5452RC	50 3/8	(1279)	15 19/32	(396)	5.46	(5069)	32 47/64	(831)	5.46	(5069)	14.36	(13345)	22 19/32	(574)	
5456RC	50 3/8	(1279)	15 11/32	(390)	5.37	(4988)	28 47/64	(730)	5.37	(4988)	15.69	(14576)	24 13/64	(615)	
5460RC	50 3/8	(1279)	17 47/64	(451)	6.20	(5764)	24 47/64	(628)	6.20	(5764)	17.01	(15807)	25 13/16	(656)	
5464RC	50 3/8	(1279)	20 1/8	(511)	7.04	(6542)	20 47/64	(527)	7.04	(6542)	18.34	(17037)	27 27/64	(697)	
5468RC	50 3/8	(1279)	22 33/64	(572)	7.88	(7318)	16 47/64	(425)	7.88	(7318)	19.66	(18268)	29 1/32	(737)	

EGRESS OPENINGS

Glider

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)	Sq. Ft.	(cm ²)	Sq. Ft.	(cm ²)
3624	XO, OX	14 1/8	(359)	19 9/16	(497)	1.92	(1784)	5-0 47/64	(1543)	1.92	(1784)	3.36	(3124)		
3636	XO, OX	14 1/8	(359)	31 9/16	(802)	3.10	(2878)	4-0 47/64	(1238)	3.10	(2878)	5.64	(5243)		
3642	XO, OX	14 1/8	(359)	37 9/16	(954)	3.69	(3425)	3-6 47/64	(1085)	3.69	(3425)	6.78	(6303)		
3648	XO, OX	14 1/8	(359)	43 9/16	(1107)	4.28	(3972)	3-0 47/64	(933)	4.28	(3972)	7.93	(7363)		
3660	XO,														

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	(59951)
12068	OXO	41 19/64	(1049)	77 15/64	(1962)	22.15	(20574)	N/A	N/A	22.15	(20574)	66.77	(62031)
12070	OXO	41 19/64	(1049)	81 15/64	(2063)	23.29	(21639)	N/A	N/A	23.29	(21639)	70.35	(65360)
12080	OXO	41 19/64	(1049)	90 47/64	(2305)	26.02	(24170)	N/A	N/A	26.02	(24170)	78.86	(73267)
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)

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

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	(575

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)

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 35/64	(1944)	13.60	(12633)	N/A	N/A	13.60	(12633)	9.95	(9240)
2668	X	25 37/64	(650)	79 3/64	(2008)	14.04	(13046)	N/A	N/A	14.04	(13046)	10.32	(9584)
2670	X	25 37/64	(650)	83 3/64	(2109)	14.75	(13706)	N/A	N/A	14.75	(13706)	10.91	(10135)
2680	X	25 37/64	(650)	92 35/64	(2351)	16.44	(15274)	N/A	N/A	16.44	(15274)	12.32	(11444)
2865	X	27 37/64	(701)	76 35/64	(1944)	14.66	(13621)	N/A	N/A	14.66	(13621)	10.88	(10106)
2868	X	27 37/64	(701)	79 3/64	(2008)	15.14	(14066)	N/A	N/A	15.14	(14066)	11.28	(10482)
2870	X	27 37/64	(701)	83 3/64	(2109)	15.91	(14778)	N/A	N/A	15.91	(14778)	11.93	(11085)
2880	X	27 37/64	(701)	92 35/64	(2351)	17.73	(16468)	N/A	N/A	17.73	(16468)	13.47	(12516)
3065	X	31 37/64	(802)	76 35/64	(1944)	16.79	(15596)	N/A	N/A	16.79	(15596)	12.74	(11837)
3068	X	31 37/64	(802)	79 3/64	(2008)	17.34	(16106)	N/A	N/A	17.34	(16106)	13.22	(12279)
3070	X	31 37/64	(802)	83 3/64	(2109)	18.21	(16921)	N/A	N/A	18.21	(16921)	13.98	(12984)
3080	X	31 37/64	(802)	92 35/64	(2351)	20.30	(18856)	N/A	N/A	20.30	(18856)	15.78	(14660)
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)

WDMA AND PERFORMANCE GRADE (PG)

WDMA STANDARDS

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

PERFORMANCE GRADE (PG)

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

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

* 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



PRODUCT TYPE	EXTERIOR GLAZING	AIR SPACE	INTERIOR GLAZING OR CENTER GLAZING	AIRSPACE	INTERIOR GLAZING	STC	OITC
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
ELDH 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
	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
ELAWNPF	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

ELSFD	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

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

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
ELDG (DOUBLE HUNG AND DOOR FRAME)	1/4" (5.7)	13/32" (9.8)	13/32" (10.1) SGP laminate	--	--	35	31
	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
	Tempered	5000	6000	7000	8000	9000	9000	10000	10000	10000
23	Annealed	4000	5000	5000	6000	6000	6000	6000	6000	6000
	Tempered	6000	7000	9000	10000	10000	10000	10000	10000	10000
27	Annealed	4000	5000	6000	7000	7000	7000	7000	8000	7000
	Tempered	6000	8000	10000	10000	10000	10000	10000	10000	10000
31	Annealed	4000	5000	6000	7000	8000	8000	8000	9000	9000
	Tempered	7000	9000	10000	10000	10000	10000	10000	10000	10000
35	Annealed	4000	5000	6000	7000	8000	8000	8000	10000	10000
	Tempered	7000	10000	10000	10000	10000	10000	10000	10000	10000
39	Annealed	4000	5000	6000						

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	N/A	N/A
	Tempered	7000	10000	10000	10000	10000	10000	10000	10000	N/A	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	7000	8000	9000	9000
23	Annealed	3000	3000	4000	4000	4000	4000	4000	4000	4000	4000
	Tempered	4000	5000	6000	7000	8000	8000	9000	10000	10000	10000
27	Annealed	3000	3000	4000	4000	5000	5000	5000	5000	5000	5000
	Tempered	5000	6000	7000	8000	9000	9000	10000	10000	10000	10000
31	Annealed	3000	3000	4000	5000	5000	6000	6000	6000	6000	6000
	Tempered	5000	6000	8000	9000	9000	10000	10000	10000	10000	10000
35	Annealed	3000	3000	4000	5000	6000	6000	7000	7000	7000	7000
	Tempered	5000	7000	8000	9000	10000	10000	10000	10000	10000	10000
39	Annealed	3000	3000	4000	5000	6000	7000	7000	8000	8000	8000
	Tempered	6000	7000	9000	10000	10000	10000	10000	10000	10000	10000
43	Annealed	3000	3000	4000	5000	6000	7000	8000	9000	9000	9000
	Tempered	6000	8000	10000	10000	10000	10000	10000	10000	10000	N/A
47	Annealed	3000	3000	4000	5000	6000	7000	8000	9000	10000	N/A
	Tempered	6000	8000	10000	10000	10000	10000	10000	10000	10000	9000
55	Annealed	3000	3000	4000	5000	6000	7000	8000	10000	10000	10000
	Tempered	6000	9000	10000	10000	10000	10000	10000	10000	10000	10000
59	Annealed	3000	3000	4000	5000	6000	7000	8000	9000	10000	10000
	Tempered	6000	9000	10000	10000	10000	10000	10000	10000	10000	10000
63	Annealed	3000	3000	4000	5000	7000	8000	8000	9000	10000	N/A
	Tempered	7000	10000	10000	10000	10000	10000	10000	10000	10000	N/A
71	Annealed	3000	3000	4000	N/A	N/A	N/A	9000	9000	10000	N/A
	Tempered	7000	10000	10000	10000	10000	10000	10000	10000	10000	N/A

Awning

ALTITUDE LIMITS (FEET)

UNIT SIZE		25	29	33	37	41	49
19	Annealed	4000	5000	5000	5000	5000	5000
	Tempered	7000	8000	9000	9000	10000	10000
23	Annealed	5000	6000	6000	6000	6000	6000
	Tempered	9000	10000	10000	10000	10000	10000
27	Annealed	6000	7000	7000	7000	7000	7000
	Tempered	10000	10000	10000	10000	10000	10000
35	Annealed	6000	7000	8000	9000	8000	10000
	Tempered	10000	10000	10000	10000	10000	10000
39	Annealed	6000	7000	9000	10000	10000	10000
	Tempered	10000	10000	10000	10000	10000	10000
47	Annealed	6000	8000	9000	10000	10000	10000
	Tempered	10000	10000	10000	10000	10000	10000

Awning STC

ALTITUDE LIMITS (FEET)

UNIT SIZE		25	29	33	37	41	49
19	Annealed	4000	4000	4000	4000	4000	4000
	Tempered	6000	7000	7000	8000	8000	9000
23	Annealed	4000	4000	5000	5000	5000	5000
	Tempered	7000	8000	9000	10000	10000	10000
27	Annealed	5000	5000	6000	6000	6000	6000
	Tempered	8000	10000	10000	10000	10000	10000
35	Annealed	5000	6000	7000	8000	8000	8000
	Tempered	10000	10000	10000	10000	10000	10000
39	Annealed	5000	6000	7000	8000	9000	10000
	Tempered	10000	10000	10000	10000	10000	10000
47	Annealed	5000	6000	8000	9000	10000	10000
	Tempered	10000	10000	10000	10000	10000	10000

Awning Tripane

ALTITUDE LIMITS (FEET)

UNIT SIZE		25	29	33	37	41	49
19	Annealed	3000	3000	3000	3000	3000	3000
	Tempered	5000	6000	6000	7000	7000	8000
23	Annealed	4000	4000	4000	4000	4000	4000
	Tempered	6000	7000	8000	8000	9000	10000
27	Annealed	4000	4000	5000	5000	5000	5000
	Tempered	7000	8000	9000	9000	10000	10000
35	Annealed	4000	5000	6000	6000	7000	7000
	Tempered	8000	9000	10000	10000	10000	10000
39	Annealed	4000	5000	6000	7000	7000	8000
	Tempered	9000	10000	10000	10000	10000	10000
47	Annealed	4000	5000	6000	7000	8000	9000
	Tempered	10000	10000	10000	10000	10000	10000

ALTITUDE GUIDELINES

Double Hung

ALTITUDE LIMITS (FEET)

UNIT SIZE		22	26	30	32	34	36	38	42	48	54
36	Annealed	4000	4000	4000	5000	5000	5000	5000	5000	4000	4000
	Tempered	6000	7000	8000	8000	9000	9000	9000	10000	8000	8000
40	Annealed	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000
	Tempered	7000	8000	9000	9000	10000	10000	10000	10000	10000	10000
44	Annealed	5000	5000	6000	6000	6000	6000	6000	6000	6000	6000
	Tempered	8000	9000	10000	10000	10000	10000	10000	10000	10000	10000
48	Annealed	5000	6000	6000	6000	6000	6000	6000	7000	6000	6000
	Tempered	8000	9000	10000	10000	10000	10000	10000	10000	10000	10000
52	Annealed	5000	6000	7000	7000	7000	7000	7000	7000	7000	7000
	Tempered	9000	10000	10000	10000	10000	10000	10000	10000	10000	10000
56	Annealed	5000	6000	7000	7000	7000	8000	8000	8000	7500	8000
	Tempered	9000	10000	10000	10000	10000	10000	10000	10000	10000	10000
60	Annealed	5000	6000	7000	8000	8000	8000	8000	8000	8500	9000
	Tempered	9000	10000	10000	10000	10000	10000	10000	10000	10000	10000
64	Annealed	5000	6000	7000	8000	8000	9000	9000	9000	9000	9000
	Tempered	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
68	Annealed	5000	6000	8000	8000	9000	9000	9000	10000	9500	9500
	Tempered	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
72	Annealed	5000	6000	8000	8000	9000	9000	10000	10000	9500	9500
	Tempered	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
76	Annealed	5000	6000	8000	8000	9000	9000	10000	10000	10000	10000
	Tempered	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
68C	Annealed	5000	7000	8000	8000	9000	10000	10000	10000	10000	10000
	Tempered	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000

Double Hung STC

ALTITUDE LIMITS (FEET)

UNIT SIZE		22	26	30	32	34	36	38	42	48	54
36	Annealed	4000	4000	4000	4000	4000	4000	4000	4000	3000	3000
	Tempered	5000	6000	7000	7000	7000	8000	8000			

Double Hung Transom

ALTITUDE LIMITS (FEET)

	UNIT SIZE	22	26	30	32	34	36	38	42	50	54	62
16	Annealed	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000
	Tempered	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
24	Annealed	5000	5000	6000	6000	6000	6000	6000	6000	6000	6000	6000
	Tempered	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Double Hung Transom STC

ALTITUDE LIMITS (FEET)

	UNIT SIZE	22	26	30	32	34	36	38	42	50	54	62
16	Annealed	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
	Tempered	4000	5000	5000	5000	5000	6000	6000	6000	6000	6000	6000
24	Annealed	4000	4000	4000	5000	5000	5000	5000	5000	5000	5000	5000
	Tempered	6000	7000	8000	9000	9000	10000	10000	10000	10000	10000	10000

Glider

ALTITUDE LIMITS (FEET)

	UNIT SIZE	36	48	60	72	72/XOX	84/XOX	96/XOX
24	Annealed	4000	5000	6000	6000	4000	5000	5000
	Tempered	7000	9000	10000	10000	7000	8000	9000
36	Annealed	5000	6000	8000	9000	5000	5000	6000
	Tempered	9000	10000	10000	10000	9000	10000	10000
42	Annealed	5000	7000	8000	10000	5000	6000	7000
	Tempered	10000	10000	10000	10000	10000	10000	10000
48	Annealed	5000	7000	9000	10000	5000	6000	7000
	Tempered	10000	10000	10000	10000	10000	10000	10000
60	Annealed	5000	7000	9000	10000	5000	6000	7000
	Tempered	10000	10000	10000	10000	10000	10000	10000

Glider STC

ALTITUDE LIMITS (FEET)

	UNIT SIZE	36	48	60	72	72/XOX	84/XOX	96/XOX
24	Annealed	4000	4000	4000	5000	4000	4000	4000
	Tempered	6000	7000	9000	10000	6000	7000	7000
36	Annealed	4000	5000	7000	8000	4000	4000	5000
	Tempered	8000	10000	10000	10000	8000	9000	10000
42	Annealed	4000	5000	7000	9000	4000	4000	5000
	Tempered	8000	10000	10000	10000	8000	10000	10000
48	Annealed	4000	5000	7000	9000	4000	4000	5000
	Tempered	9000	10000	10000	10000	9000	10000	10000
60	Annealed	4000	5000	7000	9000	4000	5000	N/A
	Tempered	10000	10000	10000	10000	10000	10000	N/A

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

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

Aluminum Direct Glaze
 Round Tops

ALTITUDE LIMITS (FEET)

UNIT SIZE		
7626 ELALDG RT Double Hung	Annealed	6000
	Tempered	N/A
7670 ELALDG RT Double Hung	Annealed	N/A
	Tempered	10000
8429 ELALDG RT Double Hung	Annealed	6000
	Tempered	N/A
8473 ELALDG RT Double Hung	Annealed	N/A
	Tempered	10000
3248 ELALDG RT Double Hung	Annealed	8000
	Tempered	N/A
3601 ELALDG RT Double Hung	Annealed	4000
	Tempered	N/A
4201 ELALDG RT Double Hung	Annealed	5000
	Tempered	N/A
3802 ELALDG RT Double Hung	Annealed	8000
	Tempered	N/A
6824 ELALDG RT Double Hung	Annealed	6000
	Tempered	N/A
6868 ELALDG RT Double Hung	Annealed	10000
	Tempered	10000
6869 ELALDG RT Double Hung	Annealed	10000
	Tempered	10000
7225 ELALDG RT Double Hung	Annealed	5000
	Tempered	N/A
7233 ELALDG RT Double Hung	Annealed	7000
	Tempered	10000
7259 ELALDG RT Double Hung	Annealed	10000
	Tempered	10000
7269 ELALDG RT Double Hung	Annealed	N/A
	Tempered	10000
3002 ELDG RT Door	Annealed	8000
	Tempered	N/A
6025 ELDG RT Door	Annealed	7000
	Tempered	N/A
6032 ELDG RT Door	Annealed	9000
	Tempered	10000
6069 ELDG RT Door	Annealed	10000
	Tempered	10000
6824 ELDG RT Door	Annealed	6000
	Tempered	N/A
6068 ELDG RT Door	Annealed	N/A
	Tempered	N/A
6069 ELDG RT Door	Annealed	10000
	Tempered	10000
7225 ELDG RT Door	Annealed	5000
	Tempered	N/A
7233 ELDG RT Door	Annealed	7000
	Tempered	10000
7259 ELDG RT Door	Annealed	10000
	Tempered	10000
7269 ELDG RT Door	Annealed	N/A
	Tempered	10000

Sliding French Door

ALTITUDE LIMITS (FEET)

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

Sliding French Door STC

ALTITUDE LIMITS (FEET)

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

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

Inswing French Door

ALTITUDE LIMITS (FEET)

UNIT SIZE		26	28	30	50	54	60
65	Annealed	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000
68	Annealed	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000
70	Annealed	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000
80	Annealed	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000

Inswing French Door STC

ALTITUDE LIMITS (FEET)

UNIT SIZE		26	28	30	50	54	60
65	Annealed	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000
68	Annealed	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000
70	Annealed	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000

Outswing French Door

ALTITUDE LIMITS (FEET)

UNIT SIZE		26	28	30	50	54	60
65	Annealed	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000
68	Annealed	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000
70	Annealed	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000
80	Annealed	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000

Outswing French Door STC

ALTITUDE LIMITS (FEET)

UNIT SIZE		26	28	30	50	54	60
65	Annealed	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000
68	Annealed	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000
70	Annealed	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000

Marvin provides these elevation guidelines as a convenience to our customers. Marvin does not recommend installation above the elevation guidelines, and products installed above such elevations are not warranted. A variety of factors, including ambient temperature, altitude, and other conditions outside Marvin control may cause glass deflection, distortion, or an increase in convexity of the insulating glass units. Deflection, distortion, and increased convexity are not considered product defects and are not covered under Marvin general warranty; capillary tubes may minimize these effects. Marvin does not warrant the amount or percentage of argon or other inert gas present in insulating glass at any time after manufacture. Inert gas dissipates over time, and may be ineffective in products manufactured with capillary tubes. Thermal efficiencies vary with the application of the product. Marvin does not warrant a specific level of thermal efficiency will be achieved by inert gas, low emissivity coatings, or other product features. Determining the suitability and compliance with local or other applicable building codes or standards, of all building components, including the use of any Marvin product, and the design and installation of any flashing or sealing system, is the responsibility of the buyer, user, architect, contractor, installer, and/or other construction professional. Marvin will not be liable for any problem or damage relating to inappropriate or faulty building design or construction, maintenance, installation, or selection of products. Marvin does not warrant any product's compliance with local or other applicable building codes or standards, or its suitability for use in connection with a project seeking third party certification to any standard.

Sliding Patio Door

ALTITUDE LIMITS (FEET)

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

THERMAL PERFORMANCE

ELEVATE CASEMENT

GLASS DESCRIPTION	DIVIDER	U-FACTOR	SHGC	VT	CR	ENERGY STAR 2020	CANADA ENERGY STAR 2020
11/16" IG Low E3/ERS Arg		0.23	0.20	0.45	48	N, NC, SC, S	
	SDLS < 1"	0.23	0.18	0.41	48	N, NC, SC, S	
	SDLN < 1"	0.23	0.18	0.41	48	N, NC, SC, S	
11/16" IG Low E3/ERS Air		0.26	0.20	0.45	44	N, NC, SC, S	
	SDLS < 1"	0.26	0.18	0.41	44	N, NC, SC, S	
	SDLN < 1"	0.26	0.18	0.41	44	N, NC, SC, S	
11/16" IG Low E3 Arg		0.27	0.20	0.46	59	N, NC, SC, S	
	SDLS < 1"	0.27	0.18	0.42	59	N, NC, SC, S	
	SDLN < 1"	0.27	0.18	0.42	59	N, NC, SC, S	
11/16" IG Low E3 Air		0.30	0.20	0.46	56	NC, SC, S	
	SDLS < 1"	0.30	0.19	0.42	56	NC, SC, S	
	SDLN < 1"	0.30	0.19	0.42	56	NC, SC, S	
11/16" IG Low E2 Arg		0.27	0.30	0.51	59	N, NC	
	SDLS < 1"	0.27	0.27	0.46	59	N, NC	
	SDLN < 1"	0.27	0.27	0.46	59	N, NC	
11/16" IG Low E2 Air		0.31	0.30	0.51	55		
	SDLS < 1"	0.31	0.28	0.46	55		
	SDLN < 1"	0.31	0.28	0.46	55		
11/16" IG Low E1 Arg		0.28	0.49	0.56	58	N	
	SDLS < 1"	0.28	0.45	0.51	58	N	
	SDLN < 1"	0.28	0.45	0.51	58	N	
11/16" IG Low E1 Air		0.31	0.49	0.56	55		
	SDLS < 1"	0.31	0.45	0.51	55		
	SDLN < 1"	0.31	0.45	0.51	55		
11/16" IG Arg		0.41	0.56	0.59	45		
	SDLS < 1"	0.41	0.51	0.53	45		
	SDLN < 1"	0.41	0.51	0.53	45		
11/16" IG Air		0.43	0.56	0.59	44		
	SDLS < 1"	0.43	0.51	0.53	44		
	SDLN < 1"	0.43	0.51	0.53	44		
1 1/8" Tripane Low E2/E1 Arg		0.20	0.27	0.45	69	N, NC	Meets
	SDLS < 1"	0.20	0.25	0.41	69	N, NC, SC, S	Meets
	SDLN < 1"	0.20	0.25	0.41	69	N, NC, SC, S	Meets
1 1/8" Tripane Low E2/E1 Air		0.22	0.27	0.45	65	N, NC	
	SDLS < 1"	0.22	0.25	0.41	65	N, NC, SC, S	
	SDLN < 1"	0.22	0.25	0.41	65	N, NC, SC, S	
1 1/8" Tripane Low E2/E1 Air		0.22	0.27	0.45	65	N, NC	
	SDLS < 1"	0.22	0.25	0.41	65	N, NC, SC, S	
	SDLN < 1"	0.22	0.25	0.41	65	N, NC, SC, S	

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ELEVATE CASEMENT PICTURE-TRANSOM

GLASS DESCRIPTION	DIVIDER	U-FACTOR	SHGC	VT	CR	ENERGY STAR 2020	CANADA ENERGY STAR 2020
11/16" IG Low E3/ERS Arg		0.22	0.22	0.51	47	N, NC, SC, S	
	SDLS < 1"	0.22	0.20	0.46	47	N, NC, SC, S	
	SDLN < 1"	0.22	0.20	0.46	47	N, NC, SC, S	
	GBG	0.22	0.20	0.46	47	N, NC, SC, S	
11/16" IG Low E3/ERS Air		0.25	0.22	0.51	43	N, NC, SC, S	
	SDLS < 1"	0.25	0.20	0.46	43	N, NC, SC, S	
	SDLN < 1"	0.25	0.20	0.46	43	N, NC, SC, S	
	GBG	0.25	0.20	0.46	43	N, NC, SC, S	
11/16" IG Low E3 Arg		0.26	0.23	0.53	59	N, NC, SC, S	
	SDLS < 1"	0.26	0.20	0.47	59	N, NC, SC, S	
	SDLN < 1"	0.26	0.20	0.47	59	N, NC, SC, S	
	GBG	0.26	0.20	0.47	59	N, NC, SC, S	
11/16" IG Low E3 Air		0.30	0.23	0.53	55	NC, SC, S	
	SDLS < 1"	0.30	0.21	0.47	55	NC, SC, S	
	SDLN < 1"	0.30	0.21	0.47	55	NC, SC, S	
	GBG	0.30	0.21	0.47	55	NC, SC, S	
11/16" IG Low E2 Arg		0.26	0.34	0.58	58	N, NC	
	SDLS < 1"	0.26	0.31	0.52	58	N, NC	
	SDLN < 1"	0.26	0.31	0.52	58	N, NC	
	GBG	0.26	0.31	0.52	58	N, NC	
11/16" IG Low E2 Air		0.30	0.34	0.58	55	NC	
	SDLS < 1"	0.30	0.31	0.52	55	NC	
	SDLN < 1"	0.30	0.31	0.52	55	NC	
	GBG	0.30	0.31	0.52	55	NC	
11/16" IG Low E1 Arg		0.27	0.56	0.64	58	N	Meets
	SDLS < 1"	0.27	0.50	0.57	58	N	Meets
	SDLN < 1"	0.27	0.50	0.57	58	N	Meets
	GBG	0.27	0.50	0.57	58	N	Meets
11/16" IG Low E1 Air		0.31	0.56	0.64	54		Meets
	SDLS < 1"	0.31	0.50	0.57	54		
	SDLN < 1"	0.31	0.50	0.57	54		
	GBG	0.31	0.50	0.57	54		
11/16" IG Arg		0.42	0.63	0.67	45		
	SDLS < 1"	0.42	0.57	0.60	45		
	SDLN < 1"	0.42	0.57	0.60	45		
	GBG	0.42	0.57	0.60	45		
11/16" IG Air		0.45	0.63	0.67	43		
	SDLS < 1"	0.45	0.57	0.60	43		
	SDLN < 1"	0.45	0.57	0.60	43		
	GBG	0.45	0.57	0.60	43		
1 1/8" Tripane Low E2/E1 Arg		0.18	0.31	0.51	69	N, NC	Meets
	SDLS < 1"	0.18	0.28	0.46	69	N, NC	Meets
	SDLN < 1"	0.18	0.28	0.46	69	N, NC	Meets
	GBG	0.23	0.28	0.46	69	N, NC	
1 1/8" Tripane Low E2/E1 Air		0.21	0.31	0.51	66	N, NC	Meets
	SDLS < 1"	0.21	0.28	0.46	66	N, NC	Meets
	SDLN < 1"	0.21	0.28	0.46	66	N, NC	Meets
	GBG	0.25	0.28	0.46	66	N, NC	

THERMAL PERFORMANCE

ELEVATE AWNING

GLASS DESCRIPTION	DIVIDER	U-FACTOR	SHGC	VT	CR	ENERGY STAR 2020	CANADA ENERGY STAR 2020
11/16" IG Low E3/ERS Arg		0.24	0.20	0.45	46	N, NC, SC, S	
	SDLS < 1"	0.24	0.18	0.41	46	N, NC, SC, S	
	SDLN < 1"	0.24	0.18	0.41	46	N, NC, SC, S	
	GBG	0.24	0.18	0.41	46	N, NC, SC, S	
11/16" IG Low E3/ERS Air		0.27	0.20	0.45	42	N, NC, SC, S	
	SDLS < 1"	0.27	0.18	0.41	42	N, NC, SC, S	
	SDLN < 1"	0.27	0.18	0.41	42	N, NC, SC, S	
	GBG	0.27	0.18	0.41	42	N, NC, SC, S	
11/16" IG Low E3 Arg		0.27	0.20	0.46	58	N, NC, SC, S	
	SDLS < 1"	0.27	0.18	0.42	58	N, NC, SC, S	
	SDLN < 1"	0.27	0.18	0.42	58	N, NC, SC, S	
	GBG	0.27	0.18	0.42	58	N, NC, SC, S	
11/16" IG Low E3 Air		0.30	0.20	0.46	54	NC, SC, S	
	SDLS < 1"	0.30	0.19	0.42	54	NC, SC, S	
	SDLN < 1"	0.30	0.19	0.42	54	NC, SC, S	
	GBG	0.30	0.19	0.42	54	NC, SC, S	
11/16" IG Low E2 Arg		0.27	0.30	0.51	57	N, NC	
	SDLS < 1"	0.27	0.27	0.46	57	N, NC	
	SDLN < 1"	0.27	0.27	0.46	57	N, NC	
	GBG	0.27	0.27	0.46	57	N, NC	
11/16" IG Low E2 Air		0.31	0.30	0.51	54		
	SDLS < 1"	0.31	0.28	0.46	54		
	SDLN < 1"	0.31	0.28	0.46	54		
	GBG	0.31	0.28	0.46	54		
11/16" IG Low E1 Arg		0.28	0.49	0.56	57	N	
	SDLS < 1"	0.28	0.45	0.51	57	N	
	SDLN < 1"	0.28	0.45	0.51	57	N	
	GBG	0.28	0.45	0.51	57	N	
11/16" IG Low E1 Air		0.31	0.49	0.56	53		
	SDLS < 1"	0.31	0.45	0.51	53		
	SDLN < 1"	0.31	0.45	0.51	53		
	GBG	0.31	0.45	0.51	53		
11/16" IG Arg		0.42	0.56	0.59	45		
	SDLS < 1"	0.42	0.51	0.53	45		
	SDLN < 1"	0.42	0.51	0.53	45		
	GBG	0.42	0.51	0.53	45		
11/16" IG Air		0.44	0.56	0.59	43		
	SDLS < 1"	0.44	0.51	0.53	43		
	SDLN < 1"	0.44	0.51	0.53	43		
	GBG	0.44	0.51	0.53	43		
1 1/8" Tripane Low E2/E1 Arg		0.20	0.27	0.45	69	N, NC	Meets
	SDLS < 1"	0.20	0.25	0.41	69	N, NC, SC, S	Meets
	SDLN < 1"	0.20	0.25	0.41	69	N, NC, SC, S	Meets
	GBG	0.20	0.25	0.41	69	N, NC, SC, S	Meets
1 1/8" Tripane Low E2/E1 Air		0.22	0.27	0.45	66	N, NC	Meets
	SDLS < 1"	0.22	0.25	0.41	66	N, NC, SC, S	Meets
	SDLN < 1"	0.22	0.25	0.41	66	N, NC, SC, S	Meets
	GBG	0.23	0.25	0.41	66	N, NC, SC, S	

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ELEVATE DOUBLE HUNG

GLASS DESCRIPTION	DIVIDER	U-FACTOR	SHGC	VT	CR	ENERGY STAR 2020	CANADA ENERGY STAR 2020
11/16" IG Low E3/ERS Arg		0.24	0.21	0.48	46	N, NC, SC, S	
	SDLS < 1"	0.24	0.19	0.42	46	N, NC, SC, S	
	SDLN < 1"	0.24	0.19	0.42	46	N, NC, SC, S	
	GBG	0.24	0.19	0.42	46	N, NC, SC, S	
11/16" IG Low E3/ERS Air		0.27	0.21	0.48	42	N, NC, SC, S	
	SDLS < 1"	0.27	0.19	0.42	42	N, NC, SC, S	
	SDLN < 1"	0.27	0.19	0.42	42	N, NC, SC, S	
	GBG	0.27	0.19	0.42	42	N, NC, SC, S	
11/16" IG Low E3 Arg		0.27	0.21	0.49	57	N, NC, SC, S	
	SDLS < 1"	0.27	0.19	0.43	57	N, NC, SC, S	
	SDLN < 1"	0.27	0.19	0.43	57	N, NC, SC, S	
	GBG	0.27	0.19	0.43	57	N, NC, SC, S	
11/16" IG Low E3 Air		0.31	0.21	0.49	53	S	
	SDLS < 1"	0.31	0.19	0.43	53	S	
	SDLN < 1"	0.31	0.19	0.43	53	S	
	GBG	0.31	0.19	0.43	53	S	
11/16" IG Low E2 Arg		0.28	0.32	0.54	56	N, NC	
	SDLS < 1"	0.28	0.28	0.48	56	NC	
	SDLN < 1"	0.28	0.28	0.48	56	NC	
	GBG	0.28	0.28	0.48	56	NC	
11/16" IG Low E2 Air		0.32	0.32	0.54	53		
	SDLS < 1"	0.32	0.29	0.48	53		
	SDLN < 1"	0.32	0.29	0.48	53		
	GBG	0.32	0.29	0.48	53		
11/16" IG Low E1 Arg		0.29	0.52	0.60	56	N	
	SDLS < 1"	0.29	0.47	0.53	56	N	
	SDLN < 1"	0.29	0.47	0.53	56	N	
	GBG	0.29	0.47	0.53	56	N	
11/16" IG Low E1 Air		0.32	0.52	0.60	52		
	SDLS < 1"	0.32	0.46	0.53	52		
	SDLN < 1"	0.32	0.46	0.53	52		
	GBG	0.32	0.46	0.53	52		
11/16" IG Arg		0.43	0.59	0.62	45		
	SDLS < 1"	0.43	0.53	0.55	45		
	SDLN < 1"	0.43	0.53	0.55	45		
	GBG	0.43	0.53	0.55	45		
11/16" IG Air		0.45	0.59	0.62	43		
	SDLS < 1"	0.45	0.53	0.55	43		
	SDLN < 1"	0.45	0.53	0.55	43		
	GBG	0.45	0.53	0.55	43		

THERMAL PERFORMANCE

ELEVATE DOUBLE HUNG PICTURE-TRANSOM

GLASS DESCRIPTION	DIVIDER	U-FACTOR	SHGC	VT	CR	ENERGY STAR 2020	CANADA ENERGY STAR 2020
11/16" IG Low E3/ERS Arg		0.22	0.22	0.50	48	N, NC, SC, S	
	SDLS < 1"	0.22	0.20	0.44	48	N, NC, SC, S	
	SDLN < 1"	0.22	0.20	0.44	48	N, NC, SC, S	
	GBG	0.22	0.20	0.44	48	N, NC, SC, S	
11/16" IG Low E3/ERS Air		0.25	0.22	0.50	44	N, NC, SC, S	
	SDLS < 1"	0.25	0.20	0.44	44	N, NC, SC, S	
	SDLN < 1"	0.25	0.20	0.44	44	N, NC, SC, S	
	GBG	0.25	0.20	0.44	44	N, NC, SC, S	
11/16" IG Low E3 Arg		0.26	0.22	0.51	60	N, NC, SC, S	
	SDLS < 1"	0.26	0.20	0.45	60	N, NC, SC, S	
	SDLN < 1"	0.26	0.20	0.45	60	N, NC, SC, S	
	GBG	0.26	0.20	0.45	60	N, NC, SC, S	
11/16" IG Low E3 Air		0.30	0.22	0.51	57	NC, SC, S	
	SDLS < 1"	0.30	0.20	0.45	57	NC, SC, S	
	SDLN < 1"	0.30	0.20	0.45	57	NC, SC, S	
	GBG	0.30	0.20	0.45	57	NC, SC, S	
11/16" IG Low E2 Arg		0.26	0.33	0.57	60	N, NC	
	SDLS < 1"	0.26	0.30	0.51	60	N, NC	
	SDLN < 1"	0.26	0.30	0.51	60	N, NC	
	GBG	0.26	0.30	0.51	60	N, NC	
11/16" IG Low E2 Air		0.30	0.33	0.57	56	NC	
	SDLS < 1"	0.30	0.30	0.51	56	NC	
	SDLN < 1"	0.30	0.30	0.51	56	NC	
	GBG	0.30	0.30	0.51	56	NC	
11/16" IG Low E1 Arg		0.27	0.54	0.62	59	N	Meets
	SDLS < 1"	0.27	0.49	0.56	59	N	Meets
	SDLN < 1"	0.27	0.49	0.56	59	N	Meets
	GBG	0.27	0.49	0.56	59	N	Meets
11/16" IG Low E1 Air		0.31	0.54	0.62	56		
	SDLS < 1"	0.31	0.49	0.56	56		
	SDLN < 1"	0.31	0.49	0.56	56		
	GBG	0.31	0.49	0.56	56		
11/16" IG Arg		0.42	0.62	0.65	46		
	SDLS < 1"	0.42	0.55	0.58	46		
	SDLN < 1"	0.42	0.55	0.58	46		
	GBG	0.42	0.55	0.58	46		
11/16" IG Air		0.44	0.62	0.65	44		
	SDLS < 1"	0.44	0.55	0.58	44		
	SDLN < 1"	0.44	0.55	0.58	44		
	GBG	0.44	0.55	0.58	44		

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ELEVATE CASEMENT NARROW FRAME

GLASS DESCRIPTION	DIVIDER	U-FACTOR	SHGC	VT	CR	ENERGY STAR 2020	CANADA ENERGY STAR 2020
11/16" IG Low E3/ERS Arg		0.24	0.20	0.45	48	N, NC, SC, S	
	SDLS < 1"	0.24	0.18	0.41	48	N, NC, SC, S	
	SDLN < 1"	0.24	0.18	0.41	48	N, NC, SC, S	
	GBG	0.24	0.18	0.41	48	N, NC, SC, S	
11/16" IG Low E3/ERS Air		0.26	0.20	0.45	44	N, NC, SC, S	
	SDLS < 1"	0.26	0.18	0.41	44	N, NC, SC, S	
	SDLN < 1"	0.26	0.18	0.41	44	N, NC, SC, S	
	GBG	0.26	0.18	0.41	44	N, NC, SC, S	
11/16" IG Low E3 Arg		0.27	0.20	0.46	60	N, NC, SC, S	
	SDLS < 1"	0.27	0.18	0.42	60	N, NC, SC, S	
	SDLN < 1"	0.27	0.18	0.42	60	N, NC, SC, S	
	GBG	0.27	0.18	0.42	60	N, NC, SC, S	
11/16" IG Low E3 Air		0.31	0.20	0.46	56	S	
	SDLS < 1"	0.31	0.19	0.42	56	S	
	SDLN < 1"	0.31	0.19	0.42	56	S	
	GBG	0.31	0.19	0.42	56	S	
11/16" IG Low E2 Arg		0.28	0.30	0.51	59	NC	
	SDLS < 1"	0.28	0.27	0.46	59	NC	
	SDLN < 1"	0.28	0.27	0.46	59	NC	
	GBG	0.28	0.27	0.46	59	NC	
11/16" IG Low E2 Air		0.31	0.30	0.51	56		
	SDLS < 1"	0.31	0.28	0.46	56		
	SDLN < 1"	0.31	0.28	0.46	56		
	GBG	0.31	0.28	0.46	56		
11/16" IG Low E1 Arg		0.28	0.49	0.56	59	N	
	SDLS < 1"	0.28	0.45	0.51	59	N	
	SDLN < 1"	0.28	0.45	0.51	59	N	
	GBG	0.28	0.45	0.51	59	N	
11/16" IG Low E1 Air		0.32	0.49	0.56	55		
	SDLS < 1"	0.32	0.45	0.51	55		
	SDLN < 1"	0.32	0.45	0.51	55		
	GBG	0.32	0.45	0.51	55		
11/16" IG Arg		0.42	0.56	0.58	46		
	SDLS < 1"	0.42	0.51	0.53	46		
	SDLN < 1"	0.42	0.51	0.53	46		
	GBG	0.42	0.51	0.53	46		
11/16" IG Air		0.43	0.56	0.58	44		
	SDLS < 1"	0.43	0.51	0.53	44		
	SDLN < 1"	0.43	0.51	0.53	44		
	GBG	0.43	0.51	0.53	44		

THERMAL PERFORMANCE

ELEVATE CASEMENT NARROW FRAME PICTURE-TRANSOM

GLASS DESCRIPTION	DIVIDER	U-FACTOR	SHGC	VT	CR	ENERGY STAR 2020	CANADA ENERGY STAR 2020
11/16" IG Low E3/ERS Arg		0.22	0.22	0.51	47	N, NC, SC, S	
	SDLS < 1"	0.22	0.20	0.46	47	N, NC, SC, S	
	SDLN < 1"	0.22	0.20	0.46	47	N, NC, SC, S	
	GBG	0.22	0.20	0.46	47	N, NC, SC, S	
11/16" IG Low E3/ERS Air		0.25	0.22	0.51	43	N, NC, SC, S	
	SDLS < 1"	0.25	0.20	0.46	43	N, NC, SC, S	
	SDLN < 1"	0.25	0.20	0.46	43	N, NC, SC, S	
	GBG	0.25	0.20	0.46	43	N, NC, SC, S	
11/16" IG Low E3 Arg		0.26	0.23	0.53	59	N, NC, SC, S	
	SDLS < 1"	0.26	0.21	0.47	59	N, NC, SC, S	
	SDLN < 1"	0.26	0.21	0.47	59	N, NC, SC, S	
	GBG	0.26	0.21	0.47	59	N, NC, SC, S	
11/16" IG Low E3 Air		0.30	0.23	0.53	55	NC, SC, S	
	SDLS < 1"	0.30	0.21	0.47	55	NC, SC, S	
	SDLN < 1"	0.30	0.21	0.47	55	NC, SC, S	
	GBG	0.30	0.21	0.47	55	NC, SC, S	
11/16" IG Low E2 Arg		0.27	0.34	0.58	59	N, NC	
	SDLS < 1"	0.27	0.31	0.52	59	N, NC	
	SDLN < 1"	0.27	0.31	0.52	59	N, NC	
	GBG	0.27	0.31	0.52	59	N, NC	
11/16" IG Low E2 Air		0.31	0.34	0.58	55		
	SDLS < 1"	0.31	0.31	0.52	55		
	SDLN < 1"	0.31	0.31	0.52	55		
	GBG	0.31	0.31	0.52	55		
11/16" IG Low E1 Arg		0.27	0.56	0.64	58	N	Meets
	SDLS < 1"	0.27	0.50	0.57	58	N	Meets
	SDLN < 1"	0.27	0.50	0.57	58	N	Meets
	GBG	0.27	0.50	0.57	58	N	Meets
11/16" IG Low E1 Air		0.31	0.56	0.64	55		
	SDLS < 1"	0.31	0.50	0.57	55		
	SDLN < 1"	0.31	0.50	0.57	55		
	GBG	0.31	0.50	0.57	55		
11/16" IG Arg		0.43	0.64	0.67	45		
	SDLS < 1"	0.43	0.57	0.60	45		
	SDLN < 1"	0.43	0.57	0.60	45		
	GBG	0.43	0.57	0.60	45		
11/16" IG Air		0.45	0.63	0.67	44		
	SDLS < 1"	0.45	0.57	0.60	44		
	SDLN < 1"	0.45	0.57	0.60	44		
	GBG	0.45	0.57	0.60	44		

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ELEVATE AWNING NARROW FRAME

GLASS DESCRIPTION	DIVIDER	U-FACTOR	SHGC	VT	CR	ENERGY STAR 2020	CANADA ENERGY STAR 2020
11/16" IG Low E3/ERS Arg		0.24	0.20	0.45	46	N, NC, SC, S	
	SDLS < 1"	0.24	0.18	0.41	46	N, NC, SC, S	
	SDLN < 1"	0.24	0.18	0.41	46	N, NC, SC, S	
	GBG	0.24	0.18	0.41	46	N, NC, SC, S	
11/16" IG Low E3/ERS Air		0.27	0.20	0.45	42	N, NC, SC, S	
	SDLS < 1"	0.27	0.18	0.41	42	N, NC, SC, S	
	SDLN < 1"	0.27	0.18	0.41	42	N, NC, SC, S	
	GBG	0.27	0.18	0.41	42	N, NC, SC, S	
11/16" IG Low E3 Arg		0.27	0.20	0.46	58	N, NC, SC, S	
	SDLS < 1"	0.27	0.19	0.42	58	N, NC, SC, S	
	SDLN < 1"	0.27	0.19	0.42	58	N, NC, SC, S	
	GBG	0.27	0.19	0.42	58	N, NC, SC, S	
11/16" IG Low E3 Air		0.31	0.20	0.46	54	S	
	SDLS < 1"	0.31	0.19	0.42	54	S	
	SDLN < 1"	0.31	0.19	0.42	54	S	
	GBG	0.31	0.19	0.42	54	S	
11/16" IG Low E2 Arg		0.28	0.30	0.51	58	NC	
	SDLS < 1"	0.28	0.28	0.46	58	NC	
	SDLN < 1"	0.28	0.28	0.46	58	NC	
	GBG	0.28	0.28	0.46	58	NC	
11/16" IG Low E2 Air		0.31	0.30	0.51	54		
	SDLS < 1"	0.31	0.28	0.46	54		
	SDLN < 1"	0.31	0.28	0.46	54		
	GBG	0.31	0.28	0.46	54		
11/16" IG Low E1 Arg		0.29	0.49	0.56	57	N	
	SDLS < 1"	0.29	0.45	0.51	57	N	
	SDLN < 1"	0.29	0.45	0.51	57	N	
	GBG	0.29	0.45	0.51	57	N	
11/16" IG Low E1 Air		0.32	0.49	0.56	54		
	SDLS < 1"	0.32	0.45	0.51	54		
	SDLN < 1"	0.32	0.45	0.51	54		
	GBG	0.32	0.45	0.51	54		
11/16" IG Arg		0.42	0.56	0.59	45		
	SDLS < 1"	0.42	0.51	0.53	45		
	SDLN < 1"	0.42	0.51	0.53	45		
	GBG	0.42	0.51	0.53	45		
11/16" IG Air		0.44	0.56	0.59	43		
	SDLS < 1"	0.44	0.51	0.53	43		
	SDLN < 1"	0.44	0.51	0.53	43		
	GBG	0.44	0.51	0.53	43		

THERMAL PERFORMANCE

ELEVATE DOUBLE HUNG INSERT

GLASS DESCRIPTION	DIVIDER	U-FACTOR	SHGC	VT	CR	ENERGY STAR 2020	CANADA ENERGY STAR 2020
11/16" IG Low E3/ERS Arg		0.24	0.20	0.46	46	N, NC, SC, S	
	SDLS < 1"	0.24	0.18	0.41	46	N, NC, SC, S	
	SDLN < 1"	0.24	0.18	0.41	46	N, NC, SC, S	
	GBG	0.24	0.18	0.41	46	N, NC, SC, S	
11/16" IG Low E3/ERS Air		0.27	0.20	0.46	42	N, NC, SC, S	
	SDLS < 1"	0.27	0.18	0.41	42	N, NC, SC, S	
	SDLN < 1"	0.27	0.18	0.41	42	N, NC, SC, S	
	GBG	0.27	0.18	0.41	42	N, NC, SC, S	
11/16" IG Low E3 Arg		0.28	0.20	0.47	57	NC, SC, S	
	SDLS < 1"	0.28	0.19	0.42	57	NC, SC, S	
	SDLN < 1"	0.28	0.19	0.42	57	NC, SC, S	
	GBG	0.28	0.19	0.42	57	NC, SC, S	
11/16" IG Low E3 Air		0.31	0.21	0.47	53	S	
	SDLS < 1"	0.31	0.19	0.42	53	S	
	SDLN < 1"	0.31	0.19	0.42	53	S	
	GBG	0.31	0.19	0.42	53	S	
11/16" IG Low E2 Arg		0.28	0.31	0.53	56	NC	
	SDLS < 1"	0.28	0.28	0.47	56	NC	
	SDLN < 1"	0.28	0.28	0.47	56	NC	
	GBG	0.28	0.28	0.47	56	NC	
11/16" IG Low E2 Air		0.32	0.31	0.53	53		
	SDLS < 1"	0.32	0.28	0.47	53		
	SDLN < 1"	0.32	0.28	0.47	53		
	GBG	0.32	0.28	0.47	53		
11/16" IG Low E1 Arg		0.29	0.51	0.58	56	N	
	SDLS < 1"	0.29	0.45	0.52	56	N	
	SDLN < 1"	0.29	0.45	0.52	56	N	
	GBG	0.29	0.45	0.52	56	N	
11/16" IG Low E1 Air		0.32	0.50	0.58	53		
	SDLS < 1"	0.32	0.45	0.52	53		
	SDLN < 1"	0.32	0.45	0.52	53		
	GBG	0.32	0.45	0.52	53		
11/16" IG Arg		0.43	0.57	0.60	45		
	SDLS < 1"	0.43	0.51	0.54	45		
	SDLN < 1"	0.43	0.51	0.54	45		
	GBG	0.43	0.51	0.54	45		
11/16" IG Air		0.45	0.57	0.60	43		
	SDLS < 1"	0.45	0.51	0.54	43		
	SDLN < 1"	0.45	0.51	0.54	43		
	GBG	0.45	0.51	0.54	43		

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ELEVATE DOUBLE HUNG INSERT PICTURE-TRANSOM

GLASS DESCRIPTION	Divider	U-Factor	SHGC	VT	CR	Energy Star 2020	Canada Energy
							Star 2020
11/16" IG Low E3/ERS Arg		0.22	0.21	0.48	48	N, NC, SC, S	
	SDLS < 1"	0.22	0.19	0.43	48	N, NC, SC, S	
	SDLN < 1"	0.22	0.19	0.43	48	N, NC, SC, S	
	GBG	0.22	0.19	0.43	48	N, NC, SC, S	
11/16" IG Low E3/ERS Air		0.25	0.21	0.48	44	N, NC, SC, S	
	SDLS < 1"	0.25	0.19	0.43	44	N, NC, SC, S	
	SDLN < 1"	0.25	0.19	0.43	44	N, NC, SC, S	
	GBG	0.25	0.19	0.43	44	N, NC, SC, S	
11/16" IG Low E3 Arg		0.26	0.21	0.50	61	N, NC, SC, S	
	SDLS < 1"	0.26	0.19	0.44	61	N, NC, SC, S	
	SDLN < 1"	0.26	0.19	0.44	61	N, NC, SC, S	
	GBG	0.26	0.19	0.44	61	N, NC, SC, S	
11/16" IG Low E3 Air		0.29	0.22	0.50	57	NC, SC, S	
	SDLS < 1"	0.29	0.20	0.44	57	NC, SC, S	
	SDLN < 1"	0.29	0.20	0.44	57	NC, SC, S	
	GBG	0.29	0.20	0.44	57	NC, SC, S	
11/16" IG Low E2 Arg		0.26	0.32	0.55	60	N, NC	
	SDLS < 1"	0.26	0.29	0.49	60	N, NC	
	SDLN < 1"	0.26	0.29	0.49	60	N, NC	
	GBG	0.26	0.29	0.49	60	N, NC	
11/16" IG Low E2 Air		0.30	0.32	0.55	57	NC	
	SDLS < 1"	0.30	0.29	0.49	57	NC	
	SDLN < 1"	0.30	0.29	0.49	57	NC	
	GBG	0.30	0.29	0.49	57	NC	
11/16" IG Low E1 Arg		0.27	0.53	0.61	60	N	Meets
	SDLS < 1"	0.27	0.47	0.54	60	N	
	SDLN < 1"	0.27	0.47	0.54	60	N	
	GBG	0.27	0.47	0.54	60	N	
11/16" IG Low E1 Air		0.31	0.53	0.61	56		
	SDLS < 1"	0.31	0.47	0.54	56		
	SDLN < 1"	0.31	0.47	0.54	56		
	GBG	0.31	0.47	0.54	56		
11/16" IG Arg		0.42	0.60	0.63	46		
	SDLS < 1"	0.42	0.54	0.56	46		
	SDLN < 1"	0.42	0.54	0.56	46		
	GBG	0.42	0.54	0.56	46		
11/16" IG Air		0.44	0.60	0.63	45		
	SDLS < 1"	0.44	0.54	0.56	45		
	SDLN < 1"	0.44	0.54	0.56	45		
	GBG	0.44	0.54	0.56	45		

THERMAL PERFORMANCE

ELEVATE GLIDER

GLASS DESCRIPTION	DIVIDER	U-FACTOR	SHGC	VT	CR	ENERGY STAR 2020	CANADA ENERGY
							STAR 2020
11/16" IG Low E3/ERS Arg		0.24	0.21	0.48	47	N, NC, SC, S	
	SDLS < 1"	0.24	0.19	0.42	47	N, NC, SC, S	
	SDLN < 1"	0.24	0.19	0.42	47	N, NC, SC, S	
	GBG	0.24	0.19	0.42	47	N, NC, SC, S	
11/16" IG Low E3/ERS Air		0.27	0.21	0.48	43	N, NC, SC, S	
	SDLS < 1"	0.27	0.19	0.42	43	N, NC, SC, S	
	SDLN < 1"	0.27	0.19	0.42	43	N, NC, SC, S	
	GBG	0.27	0.19	0.42	43	N, NC, SC, S	
11/16" IG Low E3 Arg		0.27	0.21	0.49	58	N, NC, SC, S	
	SDLS < 1"	0.27	0.19	0.43	58	N, NC, SC, S	
	SDLN < 1"	0.27	0.19	0.43	58	N, NC, SC, S	
	GBG	0.27	0.19	0.43	58	N, NC, SC, S	
11/16" IG Low E3 Air		0.31	0.21	0.49	54	S	
	SDLS < 1"	0.31	0.19	0.43	54	S	
	SDLN < 1"	0.31	0.19	0.43	54	S	
	GBG	0.31	0.19	0.43	54	S	
11/16" IG Low E2 Arg		0.28	0.32	0.54	57	N, NC	
	SDLS < 1"	0.28	0.28	0.48	57	NC	
	SDLN < 1"	0.28	0.28	0.48	57	NC	
	GBG	0.28	0.28	0.48	57	NC	
11/16" IG Low E2 Air		0.32	0.32	0.54	54		
	SDLS < 1"	0.32	0.29	0.48	54		
	SDLN < 1"	0.32	0.29	0.48	54		
	GBG	0.32	0.29	0.48	54		
11/16" IG Low E1 Arg		0.29	0.52	0.60	57	N	Meets
	SDLS < 1"	0.29	0.47	0.53	57	N	
	SDLN < 1"	0.29	0.47	0.53	57	N	
	GBG	0.29	0.47	0.53	57	N	
11/16" IG Low E1 Air		0.32	0.52	0.60	53		
	SDLS < 1"	0.32	0.46	0.53	53		
	SDLN < 1"	0.32	0.46	0.53	53		
	GBG	0.32	0.46	0.53	53		
11/16" IG Arg		0.43	0.59	0.62	45		
	SDLS < 1"	0.43	0.53	0.55	45		
	SDLN < 1"	0.43	0.53	0.55	45		
	GBG	0.43	0.53	0.55	45		
11/16" IG Air		0.45	0.59	0.62	43		
	SDLS < 1"	0.45	0.53	0.55	43		
	SDLN < 1"	0.45	0.53	0.55	43		
	GBG	0.45	0.53	0.55	43		

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ELEVATE ALUMINUM DIRECT GLAZE ROUND TOPS

GLASS DESCRIPTION	DIVIDER	U-FACTOR	SHGC	VT	CR	ENERGY STAR 2020	CANADA ENERGY STAR 2020
3/4" IG Low E3/ERS Arg		0.24	0.23	0.54	39	N, NC, SC, S	
	SDLS < 1"	0.24	0.21	0.48	39	N, NC, SC, S	
	SDLN < 1"	0.24	0.21	0.48	39	N, NC, SC, S	
	GBG	0.24	0.21	0.48	39	N, NC, SC, S	
3/4" IG Low E3/ERS Air		0.26	0.23	0.54	36	N, NC, SC, S	
	SDLS < 1"	0.26	0.21	0.48	36	N, NC, SC, S	
	SDLN < 1"	0.26	0.21	0.48	36	N, NC, SC, S	
	GBG	0.26	0.21	0.48	36	N, NC, SC, S	
3/4" IG Low E3 Arg		0.29	0.24	0.55	50	NC, SC, S	
	SDLS < 1"	0.29	0.21	0.50	50	NC, SC, S	
	SDLN < 1"	0.29	0.21	0.50	50	NC, SC, S	
	GBG	0.29	0.21	0.50	50	NC, SC, S	
3/4" IG Low E3 Air		0.32	0.24	0.55	47	S	
	SDLS < 1"	0.32	0.22	0.50	47	S	
	SDLN < 1"	0.32	0.22	0.50	47	S	
	GBG	0.32	0.22	0.50	47	S	
3/4" IG Low E2 Arg		0.29	0.36	0.61	50	NC	
	SDLS < 1"	0.29	0.32	0.55	50	NC	
	SDLN < 1"	0.29	0.32	0.55	50	NC	
	GBG	0.29	0.32	0.55	50	NC	
3/4" IG Low E2 Air		0.33	0.36	0.61	47		
	SDLS < 1"	0.33	0.33	0.55	47		
	SDLN < 1"	0.33	0.33	0.55	47		
	GBG	0.33	0.33	0.55	47		
3/4" IG Low E1 Arg		0.30	0.59	0.68	50	N	Meets
	SDLS < 1"	0.30	0.53	0.61	50	N	
	SDLN < 1"	0.30	0.53	0.61	50	N	
	GBG	0.30	0.53	0.61	50	N	
3/4" IG Low E1 Air		0.34	0.59	0.68	47		
	SDLS < 1"	0.34	0.53	0.61	47		
	SDLN < 1"	0.34	0.53	0.61	47		
	GBG	0.34	0.53	0.61	47		
3/4" IG Arg		0.45	0.67	0.70	39		
	SDLS < 1"	0.45	0.60	0.63	39		
	SDLN < 1"	0.45	0.60	0.63	39		
	GBG	0.45	0.60	0.63	39		
3/4" IG Air		0.47	0.67	0.70	38		
	SDLS < 1"	0.47	0.60	0.63	38		
	SDLN < 1"	0.47	0.60	0.63	38		
	GBG	0.47	0.60	0.63	38		

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THERMAL PERFORMANCE

ELEVATE DIRECT GLAZE

GLASS DESCRIPTION	DIVIDER	U-FACTOR	SHGC	VT	CR	ENERGY STAR 2020	CANADA ENERGY STAR 2020
11/16" IG Low E3/ERS Arg		0.22	0.23	0.54	46	N, NC, SC, S	
	SDLS < 1"	0.22	0.21	0.48	46	N, NC, SC, S	
	SDLN < 1"	0.22	0.21	0.48	46	N, NC, SC, S	
	GBG	0.22	0.21	0.48	46	N, NC, SC, S	
11/16" IG Low E3/ERS Air		0.25	0.23	0.54	42	N, NC, SC, S	
	SDLS < 1"	0.25	0.21	0.48	42	N, NC, SC, S	
	SDLN < 1"	0.25	0.21	0.48	42	N, NC, SC, S	
	GBG	0.25	0.21	0.48	42	N, NC, SC, S	
11/16" IG Low E3 Arg		0.26	0.23	0.55	59	N, NC, SC, S	
	SDLS < 1"	0.26	0.21	0.49	59	N, NC, SC, S	
	SDLN < 1"	0.26	0.21	0.49	59	N, NC, SC, S	
	GBG	0.26	0.21	0.49	59	N, NC, SC, S	
11/16" IG Low E3 Air		0.30	0.24	0.55	55	NC, SC, S	
	SDLS < 1"	0.30	0.22	0.49	55	NC, SC, S	
	SDLN < 1"	0.30	0.22	0.49	55	NC, SC, S	
	GBG	0.30	0.22	0.49	55	NC, SC, S	
11/16" IG Low E2 Arg		0.27	0.35	0.61	58	N, NC	
	SDLS < 1"	0.27	0.32	0.55	58	N, NC	
	SDLN < 1"	0.27	0.32	0.55	58	N, NC	
	GBG	0.27	0.32	0.55	58	N, NC	
11/16" IG Low E2 Air		0.31	0.36	0.61	55		
	SDLS < 1"	0.31	0.32	0.55	55		
	SDLN < 1"	0.31	0.32	0.55	55		
	GBG	0.31	0.32	0.55	55		
11/16" IG Low E1 Arg		0.28	0.58	0.67	58	N	Meets
	SDLS < 1"	0.28	0.53	0.60	58	N	Meets
	SDLN < 1"	0.28	0.53	0.60	58	N	Meets
	GBG	0.28	0.53	0.60	58	N	Meets
11/16" IG Low E1 Air		0.32	0.58	0.67	54		Meets
	SDLS < 1"	0.32	0.52	0.60	54		
	SDLN < 1"	0.32	0.52	0.60	54		
	GBG	0.32	0.52	0.60	54		
11/16" IG Arg		0.44	0.66	0.70	45		
	SDLS < 1"	0.44	0.60	0.63	45		
	SDLN < 1"	0.44	0.60	0.63	45		
	GBG	0.44	0.60	0.63	45		
11/16" IG Air		0.46	0.66	0.70	43		
	SDLS < 1"	0.46	0.60	0.63	43		
	SDLN < 1"	0.46	0.60	0.63	43		
	GBG	0.46	0.60	0.63	43		
1 1/8" Tripane Low E2/E1 Arg		0.17	0.32	0.54	70	N, NC	Meets
	SDLS < 1"	0.17	0.29	0.48	70	N, NC	Meets
	SDLN < 1"	0.17	0.29	0.48	70	N, NC	Meets
	GBG	0.17	0.29	0.48	70	N, NC	Meets
1 1/8" Tripane Low E2/E1 Air		0.20	0.32	0.54	67	N, NC	Meets
	SDLS < 1"	0.20	0.29	0.48	67	N, NC	Meets
	SDLN < 1"	0.20	0.29	0.48	67	N, NC	Meets
	GBG	0.21	0.29	0.48	67	N, NC	Meets

ELEVATE SLIDING PATIO DOOR

GLASS DESCRIPTION	DIVIDER	U-FACTOR	SHGC	VT	CR	ENERGY STAR 2020	CANADA ENERGY STAR 2020
3/4" IG Low E3/ERS Arg		0.23	0.22	0.51	48	N, NC, SC, S	
	SDLS < 1"	0.23	0.19	0.44	48	N, NC, SC, S	
	SDLN < 1"	0.23	0.19	0.44	48	N, NC, SC, S	
	GBG	0.23	0.19	0.44	48	N, NC, SC, S	
3/4" IG Low E3/ERS Air		0.25	0.22	0.51	44	N, NC, SC, S	
	SDLS < 1"	0.25	0.20	0.44	44	N, NC, SC, S	
	SDLN < 1"	0.25	0.20	0.44	44	N, NC, SC, S	
	GBG	0.25	0.20	0.44	44	N, NC, SC, S	
3/4" IG Low E3 Arg		0.27	0.22	0.52	59	N, NC, SC, S	
	SDLS < 1"	0.27	0.20	0.46	59	N, NC, SC, S	
	SDLN < 1"	0.27	0.20	0.46	59	N, NC, SC, S	
	GBG	0.27	0.20	0.46	59	N, NC, SC, S	
3/4" IG Low E3 Air		0.31	0.23	0.52	56		
	SDLS < 1"	0.31	0.20	0.46	56		
	SDLN < 1"	0.31	0.20	0.46	56		
	GBG	0.31	0.20	0.46	56		
3/4" IG Low E2 Arg		0.28	0.33	0.58	58	N, NC	
	SDLS < 1"	0.28	0.30	0.51	58	N, NC	
	SDLN < 1"	0.28	0.30	0.51	58	N, NC	
	GBG	0.28	0.30	0.51	58	N, NC	
3/4" IG Low E2 Air		0.31	0.34	0.58	55		
	SDLS < 1"	0.31	0.30	0.51	55		
	SDLN < 1"	0.31	0.30	0.51	55		
	GBG	0.31	0.30	0.51	55		
3/4" IG Low E1 Arg		0.29	0.55	0.64	58		Meets
	SDLS < 1"	0.29	0.49	0.56	58		
	SDLN < 1"	0.29	0.49	0.56	58		
	GBG	0.29	0.49	0.56	58		
3/4" IG Low E1 Air		0.32	0.55	0.64	55		
	SDLS < 1"	0.32	0.49	0.56	55		
	SDLN < 1"	0.32	0.49	0.56	55		
	GBG	0.32	0.49	0.56	55		
3/4" IG Arg		0.43	0.63	0.66	46		
	SDLS < 1"	0.43	0.55	0.58	46		
	SDLN < 1"	0.43	0.55	0.58	46		
	GBG	0.43	0.55	0.58	46		
3/4" IG Air		0.45	0.63	0.66	44		
	SDLS < 1"	0.45	0.55	0.58	44		
	SDLN < 1"	0.45	0.55	0.58	44		
	GBG	0.45	0.55	0.58	44		

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THERMAL PERFORMANCE

ELEVATE SLIDING FRENCH DOOR

GLASS DESCRIPTION	DIVIDER	U-FACTOR	SHGC	VT	CR	ENERGY STAR 2020	CANADA ENERGY STAR 2020
3/4" IG Low E3/ERS Arg		0.24	0.19	0.44	48	N, NC, SC, S	
	SDLS < 1"	0.24	0.17	0.38	48	N, NC, SC, S	
	SDLN < 1"	0.24	0.17	0.38	48	N, NC, SC, S	
	GBG	0.24	0.17	0.38	48	N, NC, SC, S	
3/4" IG Low E3/ERS Air		0.26	0.19	0.44	44	N, NC, SC, S	
	SDLS < 1"	0.26	0.17	0.38	44	N, NC, SC, S	
	SDLN < 1"	0.26	0.17	0.38	44	N, NC, SC, S	
	GBG	0.26	0.17	0.38	44	N, NC, SC, S	
3/4" IG Low E3 Arg		0.28	0.19	0.45	58	N, NC, SC, S	
	SDLS < 1"	0.28	0.17	0.39	58	N, NC, SC, S	
	SDLN < 1"	0.28	0.17	0.39	58	N, NC, SC, S	
	GBG	0.28	0.17	0.39	58	N, NC, SC, S	
3/4" IG Low E3 Air		0.31	0.20	0.45	55		
	SDLS < 1"	0.31	0.17	0.39	55		
	SDLN < 1"	0.31	0.17	0.39	55		
	GBG	0.31	0.17	0.39	55		
3/4" IG Low E2 Arg		0.28	0.29	0.50	58	N, NC	
	SDLS < 1"	0.28	0.26	0.43	58	N, NC	
	SDLN < 1"	0.28	0.26	0.43	58	N, NC	
	GBG	0.28	0.26	0.43	58	N, NC	
3/4" IG Low E2 Air		0.32	0.29	0.50	55		
	SDLS < 1"	0.32	0.26	0.43	55		
	SDLN < 1"	0.32	0.26	0.43	55		
	GBG	0.32	0.26	0.43	55		
3/4" IG Low E1 Arg		0.29	0.48	0.55	57		
	SDLS < 1"	0.29	0.42	0.47	57		
	SDLN < 1"	0.29	0.42	0.47	57		
	GBG	0.29	0.42	0.47	57		
3/4" IG Low E1 Air		0.32	0.48	0.55	54		
	SDLS < 1"	0.32	0.42	0.47	54		
	SDLN < 1"	0.32	0.42	0.47	54		
	GBG	0.32	0.42	0.47	54		
3/4" IG Arg		0.42	0.54	0.57	46		
	SDLS < 1"	0.42	0.48	0.49	46		
	SDLN < 1"	0.42	0.48	0.49	46		
	GBG	0.42	0.48	0.49	46		
3/4" IG Air		0.43	0.54	0.57	44		
	SDLS < 1"	0.43	0.47	0.49	44		
	SDLN < 1"	0.43	0.47	0.49	44		
	GBG	0.43	0.47	0.49	44		

ELEVATE INSWING FRENCH DOOR

GLASS DESCRIPTION	Divider	U-Factor	SHGC	VT	CR	Energy Star 2020	Canada
							Energy Star 2020
3/4" IG Low E3/ERS Arg		0.24	0.18	0.41	49	N, NC, SC, S	
	SDLS < 1"	0.24	0.16	0.35	49	N, NC, SC, S	
	SDLN < 1"	0.24	0.16	0.35	49	N, NC, SC, S	
	GBG	0.24	0.16	0.35	49	N, NC, SC, S	
3/4" IG Low E3/ERS Air		0.26	0.18	0.41	46	N, NC, SC, S	
	SDLS < 1"	0.26	0.16	0.35	46	N, NC, SC, S	
	SDLN < 1"	0.26	0.16	0.35	46	N, NC, SC, S	
	GBG	0.26	0.16	0.35	46	N, NC, SC, S	
3/4" IG Low E3 Arg		0.28	0.18	0.42	62	N, NC, SC, S	
	SDLS < 1"	0.28	0.16	0.36	62	N, NC, SC, S	
	SDLN < 1"	0.28	0.16	0.36	62	N, NC, SC, S	
	GBG	0.28	0.16	0.36	62	N, NC, SC, S	
3/4" IG Low E3 Air		0.31	0.18	0.42	59		
	SDLS < 1"	0.31	0.16	0.36	59		
	SDLN < 1"	0.31	0.16	0.36	59		
	GBG	0.31	0.16	0.36	59		
3/4" IG Low E2 Arg		0.28	0.27	0.46	62	N, NC	
	SDLS < 1"	0.28	0.24	0.40	62	N, NC, SC, S	
	SDLN < 1"	0.28	0.24	0.40	62	N, NC, SC, S	
	GBG	0.28	0.24	0.40	62	N, NC, SC, S	
3/4" IG Low E2 Air		0.31	0.27	0.46	58		
	SDLS < 1"	0.31	0.24	0.40	58		
	SDLN < 1"	0.31	0.24	0.40	58		
	GBG	0.31	0.24	0.40	58		
3/4" IG Low E1 Arg		0.29	0.45	0.51	61		
	SDLS < 1"	0.29	0.39	0.44	61	N, NC	
	SDLN < 1"	0.29	0.39	0.44	61	N, NC	
	GBG	0.29	0.39	0.44	61	N, NC	
3/4" IG Low E1 Air		0.32	0.44	0.51	58		
	SDLS < 1"	0.32	0.39	0.44	58		
	SDLN < 1"	0.32	0.39	0.44	58		
	GBG	0.32	0.39	0.44	58		
3/4" IG Arg		0.41	0.51	0.53	47		
	SDLS < 1"	0.41	0.44	0.46	47		
	SDLN < 1"	0.41	0.44	0.46	47		
	GBG	0.41	0.44	0.46	47		
3/4" IG Air		0.42	0.50	0.53	46		
	SDLS < 1"	0.42	0.44	0.46	46		
	SDLN < 1"	0.42	0.44	0.46	46		
	GBG	0.42	0.44	0.46	46		

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THERMAL PERFORMANCE

ELEVATE OUTSWING FRENCH DOOR

GLASS DESCRIPTION	DIVIDER	U-FACTOR	SHGC	VT	CR	ENERGY STAR 2020	CANADA ENERGY
							STAR 2020
3/4" IG Low E3/ERS Arg		0.25	0.18	0.41	49	N, NC, SC, S	
	SDLS < 1"	0.25	0.16	0.35	49	N, NC, SC, S	
	SDLN < 1"	0.25	0.16	0.35	49	N, NC, SC, S	
	GBG	0.25	0.16	0.35	49	N, NC, SC, S	
3/4" IG Low E3/ERS Air		0.27	0.18	0.41	46	N, NC, SC, S	
	SDLS < 1"	0.27	0.16	0.35	46	N, NC, SC, S	
	SDLN < 1"	0.27	0.16	0.35	46	N, NC, SC, S	
	GBG	0.27	0.16	0.35	46	N, NC, SC, S	
3/4" IG Low E3 Arg		0.28	0.18	0.42	62	N, NC, SC, S	
	SDLS < 1"	0.28	0.16	0.36	62	N, NC, SC, S	
	SDLN < 1"	0.28	0.16	0.36	62	N, NC, SC, S	
	GBG	0.28	0.16	0.36	62	N, NC, SC, S	
3/4" IG Low E3 Air		0.31	0.19	0.42	59		
	SDLS < 1"	0.31	0.17	0.36	59		
	SDLN < 1"	0.31	0.17	0.36	59		
	GBG	0.31	0.17	0.36	59		
3/4" IG Low E2 Arg		0.29	0.28	0.47	62	N, NC	
	SDLS < 1"	0.29	0.24	0.40	62	N, NC, SC, S	
	SDLN < 1"	0.29	0.24	0.40	62	N, NC, SC, S	
	GBG	0.29	0.24	0.40	62	N, NC, SC, S	
3/4" IG Low E2 Air		0.32	0.28	0.47	58		
	SDLS < 1"	0.32	0.24	0.40	58		
	SDLN < 1"	0.32	0.24	0.40	58		
	GBG	0.32	0.24	0.40	58		
3/4" IG Low E1 Arg		0.30	0.45	0.51	61		
	SDLS < 1"	0.30	0.39	0.44	61	N, NC	
	SDLN < 1"	0.30	0.39	0.44	61	N, NC	
	GBG	0.30	0.39	0.44	61	N, NC	
3/4" IG Low E1 Air		0.32	0.45	0.51	58		
	SDLS < 1"	0.32	0.39	0.44	58		
	SDLN < 1"	0.32	0.39	0.44	58		
	GBG	0.32	0.39	0.44	58		
3/4" IG Arg		0.41	0.51	0.53	47		
	SDLS < 1"	0.41	0.45	0.46	47		
	SDLN < 1"	0.41	0.45	0.46	47		
	GBG	0.41	0.45	0.46	47		
3/4" IG Air		0.43	0.51	0.53	46		
	SDLS < 1"	0.43	0.45	0.46	46		
	SDLN < 1"	0.43	0.45	0.46	46		
	GBG	0.43	0.45	0.46	46		

THERMAL PERFORMANCE

NOTES

ELEVATE OUTSWING FRENCH DOOR

GLASS DESCRIPTION	DIVIDER	U-FACTOR	SHGC	VT	CR	ENERGY STAR 2020	CANADA ENERGY STAR 2020
3/4" IG Low E3/ERS Arg		0.25	0.18	0.41	49	N, NC, SC, S	
	SDLS < 1"	0.25	0.16	0.35	49	N, NC, SC, S	
	SDLN < 1"	0.25	0.16	0.35	49	N, NC, SC, S	
	GBG	0.25	0.16	0.35	49	N, NC, SC, S	
3/4" IG Low E3/ERS Air		0.27	0.18	0.41	46	N, NC, SC, S	
	SDLS < 1"	0.27	0.16	0.35	46	N, NC, SC, S	
	SDLN < 1"	0.27	0.16	0.35	46	N, NC, SC, S	
	GBG	0.27	0.16	0.35	46	N, NC, SC, S	
3/4" IG Low E3 Arg		0.28	0.18	0.42	62	N, NC, SC, S	
	SDLS < 1"	0.28	0.16	0.36	62	N, NC, SC, S	
	SDLN < 1"	0.28	0.16	0.36	62	N, NC, SC, S	
	GBG	0.28	0.16	0.36	62	N, NC, SC, S	
3/4" IG Low E3 Air		0.31	0.19	0.42	59		
	SDLS < 1"	0.31	0.17	0.36	59		
	SDLN < 1"	0.31	0.17	0.36	59		
	GBG	0.31	0.17	0.36	59		
3/4" IG Low E2 Arg		0.29	0.28	0.47	62	N, NC	
	SDLS < 1"	0.29	0.24	0.40	62	N, NC, SC, S	
	SDLN < 1"	0.29	0.24	0.40	62	N, NC, SC, S	
	GBG	0.29	0.24	0.40	62	N, NC, SC, S	
3/4" IG Low E2 Air		0.32	0.28	0.47	58		
	SDLS < 1"	0.32	0.24	0.40	58		
	SDLN < 1"	0.32	0.24	0.40	58		
	GBG	0.32	0.24	0.40	58		
3/4" IG Low E1 Arg		0.30	0.45	0.51	61		
	SDLS < 1"	0.30	0.39	0.44	61	N, NC	
	SDLN < 1"	0.30	0.39	0.44	61	N, NC	
	GBG	0.30	0.39	0.44	61	N, NC	
3/4" IG Low E1 Air		0.32	0.45	0.51	58		
	SDLS < 1"	0.32	0.39	0.44	58		
	SDLN < 1"	0.32	0.39	0.44	58		
	GBG	0.32	0.39	0.44	58		
3/4" IG Arg		0.41	0.51	0.53	47		
	SDLS < 1"	0.41	0.45	0.46	47		
	SDLN < 1"	0.41	0.45	0.46	47		
	GBG	0.41	0.45	0.46	47		
3/4" IG Air		0.43	0.51	0.53	46		
	SDLS < 1"	0.43	0.45	0.46	46		
	SDLN < 1"	0.43	0.45	0.46	46		
	GBG	0.43	0.45	0.46	46		

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Since we opened as a family-owned and -operated lumber and cedar company in 1912, Marvin has designed products to help people live better. We remain committed to bringing beauty and simplicity into people's lives with windows and doors that stand the test of time.

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