

ELEVATE

MARVIN ELEVATE® COLLECTION



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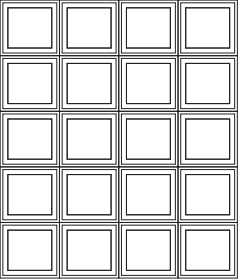
Each product section offers product codes for ordering under each unit. Codes do not necessarily indicate product size.
Metric millimeter measurements are in parentheses.

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

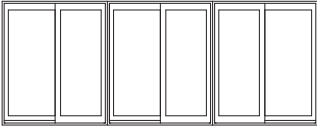
MO (mm)	2-0 1/2 (622)	2-4 1/2 (724)	2-8 1/2 (826)	3-0 1/2 (927)	4-0 1/2 (1232)
RO (mm)	2-1 (635)	2-5 (737)	2-9 (838)	3-1 (940)	4-1 (1245)
FS (mm)	2-0 (610)	2-4 (711)	2-8 (813)	3-0 (914)	4-0 (1219)
DLO (mm)	1-6 25/32 (477)	1-10 25/32 (579)	2-2 25/32 (680)	2-6 25/32 (782)	3-6 25/32 (1087)
1-7 3/8 (492)					
1-7 5/8 (498)					
1-7 1/8 (486)					
1-1 29/32 (353)					
	ELAWN2519	ELAWN2919	ELAWN3319	ELAWN3719	ELAWN4919

Mulling Options - A variety of factory mulled 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.

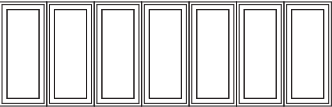
Examples of Possible Configurations



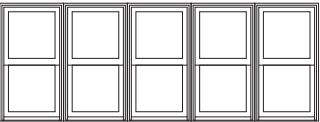
Casement Picture
4 Wide 5 High



Glider
3 Wide 1 High



Casement
7 Wide 1 High

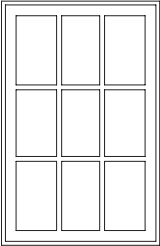


Double Hung
5 Wide 1 High

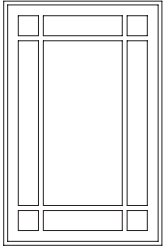
The information provided in this catalog has been gathered and assembled with every effort made to validate accuracy and consistency of the content. However, Marvin does not make any warranty or guarantee as to this information. Please verify critical product data in Marvin Order Management System (OMS)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

LITE CUTS

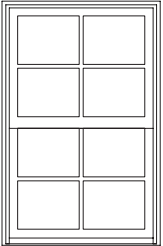
Windows



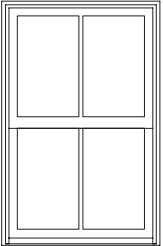
Rectangular
Available as GBG and SDL*



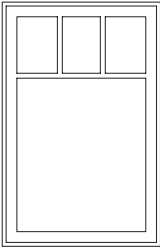
Prairie
Available as GBG and SDL*



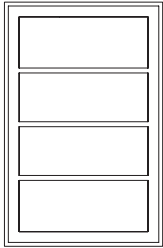
2w2h
Available as GBG and SDL*



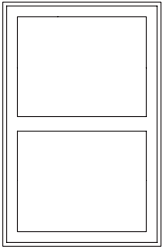
2w1h
Available as GBG and SDL*



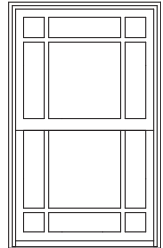
Cottage
Available as GBG and SDL*



Equal Lite
Available as GBG and SDL*

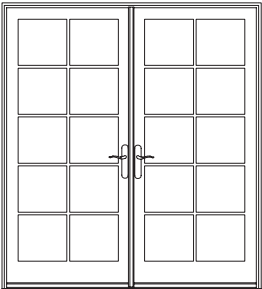


Simulated Checkrail
Available as SDL**

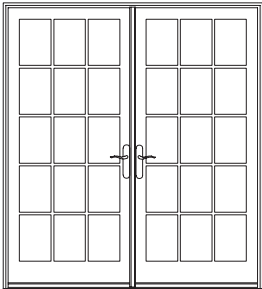


6 Lite Prairie
Available as GBG and SDL*

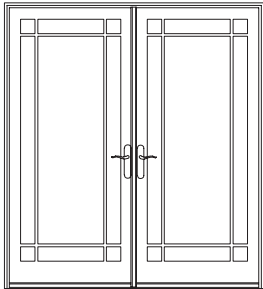
Doors



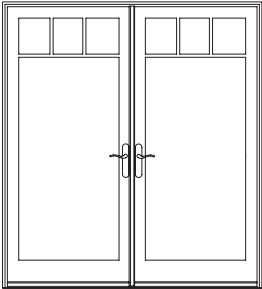
10/12 Lite
One vertical bar per panel available as GBG and SDL*



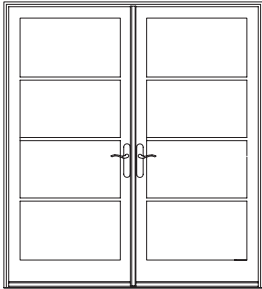
15/18 Lite
Two vertical bars per panel available as GBG and SDL*



Prairie
Available as GBG and SDL*



Cottage
Available as GBG and SDL*



Equal Lite
Available as GBG and SDL*

* SDL available with or without Spacer Bar.
** 2 11/32" (59) Simulated Checkrail available with or without spacer bar. Compatible with SDL and SDL with spacer bar. Horizontal bar only. Vertical location can be specified. Available on Casement, Awning, Glider, Direct Glaze Rectangles and Double Hung Picture units.

Cottage lite cut not available on Double Hung.
Equal lite allows for the number of horizontal and vertical lites to be specified for a custom appearance.
Lite cuts are dependent on product type and size. Please consult your local Marvin representative for details and availability.

CASEMENT

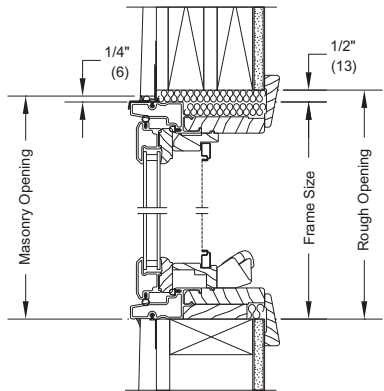
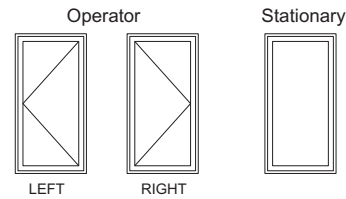
MO (mm)	1-4 1/2 (419)	1-8 1/2 (521)	2-0 1/2 (622)	2-4 1/2 (724)	2-8 1/2 (826)	3-0 1/2 (927)
RO (mm)	1-5 (432)	1-9 (533)	2-1 (635)	2-5 (737)	2-9 (838)	3-1 (940)
FS (mm)	1-4 (406)	1-8 (508)	2-0 (610)	2-4 (711)	2-8 (813)	3-0 (914)
DLO (mm)	0-10 25/32 (274)	1-2 25/32 (376)	1-6 25/32 (477)	1-10 25/32 (579)	2-2 25/32 (680)	2-6 25/32 (782)
2-7 3/8 (797)						
2-7 5/8 (803)						
2-7 1/8 (791)						
2-1 29/32 (658)						
2-11 3/8 (898)						
2-11 5/8 (805)						
2-11 1/8 (892)						
2-5 29/32 (760)						
3-3 3/8 (1000)						
3-3 5/8 (1006)						
3-3 1/8 (994)						
2-9 29/32 (861)						
3-7 1/2 (1105)						
3-7 3/4 (1111)						
3-7 1/4 (1099)						
3-2 1/32 (966)						
3-11 3/8 (1203)						
3-11 5/8 (1210)						
3-11 1/8 (1197)						
3-5 29/32 (1065)						
4-7 3/8 (1406)						
4-7 5/8 (1413)						
4-7 1/8 (1400)						
4-1 29/32 (1288)						
4-11 3/8 (1508)						
4-11 5/8 (1514)						
4-11 1/8 (1502)						
4-5 29/32 (1369)						
5-3 3/8 (1610)						
5-3 5/8 (1616)						
5-3 1/8 (1603)						
4-9 29/32 (1471)						
5-11 3/8 (1813)						
5-11 5/8 (1819)						
5-11 1/8 (1807)						
5-5 29/32 (1674)						

CASEMENT

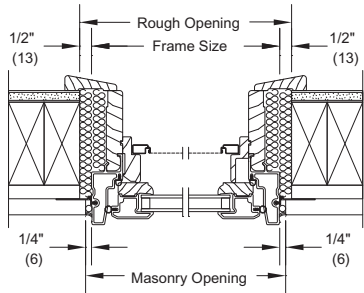
Construction Details

Casements available as an operator or stationary.

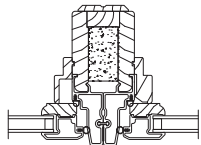
L or R handing determined from exterior.



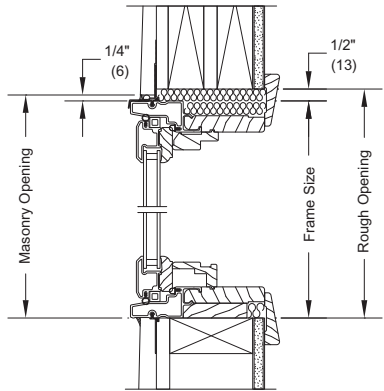
Operator Head Jamb and Sill



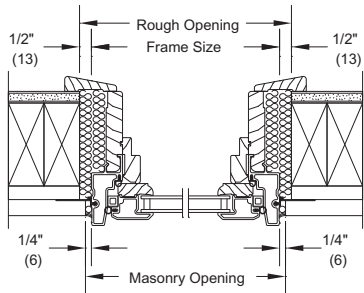
Operator Jamb



Vertical Mullion



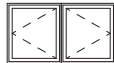
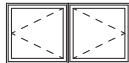
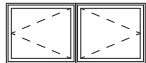
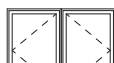
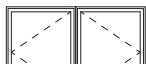
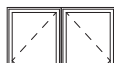
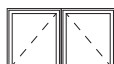
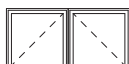
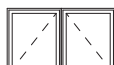
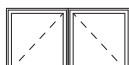
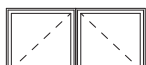
Stationary Head Jamb and Sill



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.

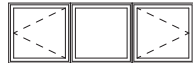
2 Wide

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.

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)	ELCA1731 4W		ELCA2131 4W		ELCA2531 4W		ELCA2931 4W	
2-7 7/8 (791)								
2-11 3/8 (898)	ELCA1735 4W		ELCA2135 4W		ELCA2535 4W		ELCA2935 4W	
2-11 5/8 (905)								
2-11 7/8 (892)	ELCA1739 4W		ELCA2139 4W		ELCA2539 4W		ELCA2939 4W	
3-3 3/8 (1000)								
3-3 5/8 (1006)	ELCA1739 4W		ELCA2139 4W		ELCA2539 4W		ELCA2939 4W	
3-3 7/8 (994)								
3-7 1/2 (1105)	ELCA1743 4W		ELCA2143 4W		ELCA2543 4W		ELCA2943 4W E	
3-7 3/4 (1111)								
3-7 1/4 (1099)	ELCA1747 4W		ELCA2147 4W		ELCA2547 4W		ELCA2947 4W E	
3-11 3/8 (1203)								
3-11 5/8 (1210)	ELCA1747 4W		ELCA2147 4W		ELCA2547 4W		ELCA2947 4W E	
3-11 7/8 (1197)								
4-11 3/8 (1508)	ELCA1755 4W		ELCA2155 4W		ELCA2555 4W		ELCA2955 4W E	
4-11 5/8 (1514)								
4-11 7/8 (1502)	ELCA1759 4W		ELCA2159 4W		ELCA2559 4W		ELCA2959 4W E	
5-3 3/8 (1610)								
5-3 5/8 (1616)	ELCA1763 4W		ELCA2163 4W		ELCA2563 4W		ELCA2963 4W E	
5-3 7/8 (1603)								
5-11 3/8 (1813)	ELCA1771 4W T		ELCA2171 4W T		ELCA2571 4W T		ELCA2971 4W ET	
5-11 5/8 (1819)								
5-11 7/8 (1807)								

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

MULTIPLE ASSEMBLIES

Multiple assemblies can be factory mulled.
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)	ELCAP1719	ELCAP2119	ELCAP2519	ELCAP2919	ELCAP3319	ELCAP3719	ELCAP4119	ELCAP4919	ELCAP5719	ELCAP7319
1-11 3/8 (594)										
1-11 5/8 (600)	ELCAP1723	ELCAP2123	ELCAP2523	ELCAP2923	ELCAP3323	ELCAP3723	ELCAP4123	ELCAP4923	ELCAP5723	ELCAP7323
1-11 7/8 (587)										
1-11 1/8 (587)	ELCAP1727	ELCAP2127	ELCAP2527	ELCAP2927	ELCAP3327	ELCAP3727	ELCAP4127	ELCAP4927	ELCAP5727	ELCAP7327
1-5 29/32 (455)										
1-5 29/32 (455)	ELCAP1731	ELCAP2131	ELCAP2531	ELCAP2931	ELCAP3331	ELCAP3731	ELCAP4131	ELCAP4931	ELCAP5731	ELCAP7331
2-3 3/8 (695)										
2-3 5/8 (702)	ELCAP1735	ELCAP2135	ELCAP2535	ELCAP2935	ELCAP3335	ELCAP3735	ELCAP4135	ELCAP4935	ELCAP5735	ELCAP7335
2-3 1/8 (689)										
2-3 1/8 (689)	ELCAP1739	ELCAP2139	ELCAP2539	ELCAP2939	ELCAP3339	ELCAP3739	ELCAP4139	ELCAP4939	ELCAP5739	ELCAP7339
2-3 5/8 (702)										
2-3 1/8 (689)	ELCAP1743	ELCAP2143	ELCAP2543	ELCAP2943	ELCAP3343	ELCAP3743	ELCAP4143	ELCAP4943	ELCAP5743	ELCAP7343
2-3 5/8 (702)										
2-3 1/8 (689)	ELCAP1747	ELCAP2147	ELCAP2547	ELCAP2947	ELCAP3347	ELCAP3747	ELCAP4147	ELCAP4947	ELCAP5747	ELCAP7347
2-3 5/8 (702)										
2-3 1/8 (689)	ELCAP1755	ELCAP2155	ELCAP2555	ELCAP2955	ELCAP3355	ELCAP3755	ELCAP4155	ELCAP4955	ELCAP5755	ELCAP7355
2-3 5/8 (702)										
2-3 1/8 (689)	ELCAP1759	ELCAP2159	ELCAP2559	ELCAP2959	ELCAP3359	ELCAP3759	ELCAP4159	ELCAP4959	ELCAP5759	ELCAP7359 T
4-1 29/32 (1268)										
4-1 29/32 (1268)	ELCAP1763	ELCAP2163	ELCAP2563	ELCAP2963	ELCAP3363	ELCAP3763	ELCAP4163	ELCAP4963	ELCAP5763	
4-1 29/32 (1268)										
4-1 29/32 (1268)	ELCAP1771 T	ELCAP2171 T	ELCAP2557 T	ELCAP2971 T	ELCAP3371 T	ELCAP3771 T	ELCAP4171 T	ELCAP4971 T	ELCAP5771 T	

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)
1-4 (406) 1-4 1/4 (413) 1-7 5/8 (498) 1-3 3/4 (400) 0-10 17/32 (268)										
1-7 3/8 (492) 1-7 5/8 (498) 1-7 1/8 (486) 1-1 29/32 (353)										

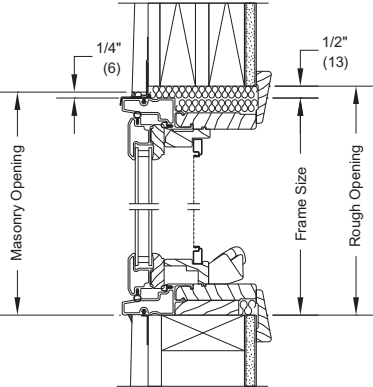
Multiple Assemblies/Casement
Flankers with Center Picture

MO (mm)	8-0 1/2 (2451)
RO (mm)	8-1 (2464)
FS (mm)	8-0 (2438)
3-3 3/8 (1000) 3-3 5/8 (1006) 3-3 1/8 (994)	  
3-7 1/2 (1105) 3-7 3/4 (1111) 3-7 1/4 (1099)	  
3-11 3/8 (1203) 3-11 5/8 (1210) 3-11 1/8 (1197)	  
4-7 3/8 (1406) 4-7 5/8 (1413) 4-7 1/8 (1400)	  
4-11 3/8 (1508) 4-11 5/8 (1514) 4-11 1/8 (1502)	  

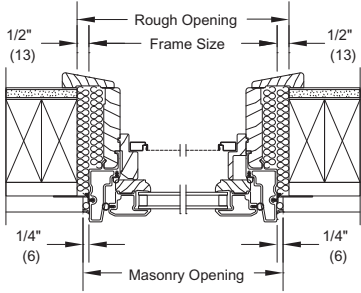
Direct Glaze

MO (mm)	6-0 1/2 (1842)
RO (mm)	6-1 (1854)
FS (mm)	6-0 (1829)
DLO (mm)	5-8 1/16 (1729)
1-4 (406) 1-4 1/4 (413) 1-3 3/4 (400) 0-11 5/8 (295)	

Construction Details



Operator Head Jamb and Sill



Operator Jamb

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.

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)
1-7 3/8 (492) 1-7 5/8 (498) 1-7 1/8 (486) 1-1 29/32 (353)						
1-11 3/8 (594) 1-11 5/8 (600) 1-11 1/8 (587) 1-5 29/32 (455)						
2-3 3/8 (695) 2-3 5/8 (702) 2-3 1/8 (689) 1-9 29/32 (657)						
2-11 3/8 (699) 2-11 5/8 (705) 2-11 1/8 (692) 2-5 29/32 (760)						
3-3 3/8 (1000) 3-3 5/8 (1006) 3-3 1/8 (994) 2-9 29/32 (861)						
3-11 3/8 (1203) 3-11 5/8 (1210) 3-11 1/8 (1197) 3-5 29/32 (1065)						

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 (498) 1-7 1/8 (486)	 ELAWN2519 2W	 ELAWN2919 2W	 ELAWN3319 2W	 ELAWN3719 2W	 ELAWN4119 2W	 ELAWN4919 2W
1-11 3/8 (594) 1-11 5/8 (600) 1-11 1/8 (587)	 ELAWN2523 2W	 ELAWN2923 2W	 ELAWN3323 2W	 ELAWN3723 2W	 ELAWN4123 2W	 ELAWN4923 2W
2-3 3/8 (695) 2-3 5/8 (702) 2-3 1/8 (689)	 ELAWN2527 2W	 ELAWN2927 2W	 ELAWN3327 2W	 ELAWN3727 2W	 ELAWN4127 2W	 ELAWN4927 2W
2-11 3/8 (699) 2-11 5/8 (705) 2-11 1/8 (692)	 ELAWN2535 2W	 ELAWN2935 2W	 ELAWN3335 2W	 ELAWN3735 2W	 ELAWN4135 2W	 ELAWN4935 2W
3-3 3/8 (1000) 3-3 5/8 (1006) 3-3 1/8 (994)	 ELAWN2539 2W	 ELAWN2939 2W	 ELAWN3339 2W	 ELAWN3739 2W	 ELAWN4139 2W	 ELAWN4939 2W
3-11 3/8 (1203) 3-11 5/8 (1210) 3-11 1/8 (1197)	 ELAWN2547 2W	 ELAWN2947 2W	 ELAWN3347 2W	 ELAWN3747 2W	 ELAWN4147 2W	 ELAWN4947 2W

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

AWNING

3 Wide

MO (mm)	6-0 1/2 (1842)	7-0 1/2 (2146)	8-0 1/2 (2451)	9-0 1/2 (2756)
RO (mm)	6-1 (1854)	7-1 (2159)	8-1 (2464)	9-1 (2769)
FS (mm)	6-0 (1829)	7-0 (2134)	8-0 (2438)	9-0 (2743)
1-7 3/8 (492) 1-7 5/8 (498) 1-7 1/8 (486)	 ELAWN2519 3W	 ELAWN2919 3W	 ELAWN3319 3W	 ELAWN3719 3W
1-11 3/8 (594) 1-11 5/8 (600) 1-11 1/8 (587)	 ELAWN2523 3W	 ELAWN2923 3W	 ELAWN3323 3W	 ELAWN3723 3W
2-3 3/8 (695) 2-3 5/8 (702) 2-3 1/8 (689)	 ELAWN2527 3W	 ELAWN2927 3W	 ELAWN3327 3W	 ELAWN3727 3W
2-11 3/8 (699) 2-11 5/8 (705) 2-11 1/8 (692)	 ELAWN2535 3W	 ELAWN2935 3W	 ELAWN3335 3W	 ELAWN3735 3W
3-3 3/8 (1000) 3-3 5/8 (1006) 3-3 1/8 (994)	 ELAWN2539 3W	 ELAWN2939 3W	 ELAWN3339 3W	 ELAWN3739 3W
3-11 3/8 (1203) 3-11 5/8 (1210) 3-11 1/8 (1197)	 ELAWN2547 3W	 ELAWN2947 3W	 ELAWN3347 3W	 ELAWN3747 3W

MULTIPLE ASSEMBLIES

Multiple assemblies can be factory mullied.

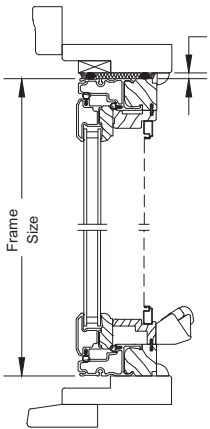
MAXIMUM ROUGH OPENING not to exceed 113" x 71 5/8"
Maximum up to 7 units wide by 1 unit high.

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

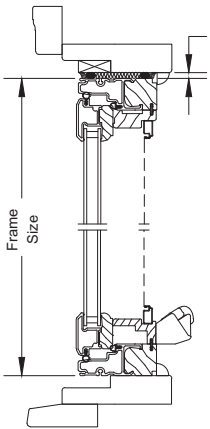
Field mull kits are available. Structural mullion reinforcement is required for some assemblies.

Please consult your local Marvin representative for more information.

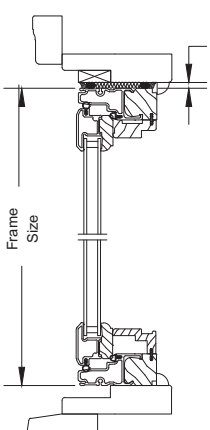
Construction Details



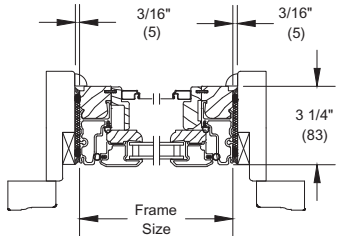
Elevate Casement Operator Head Jamb and Sill



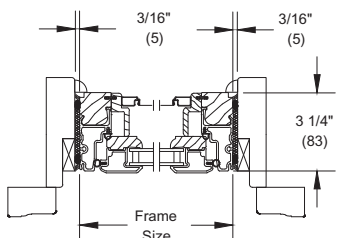
Elevate Awning Operator Head Jamb and Sill



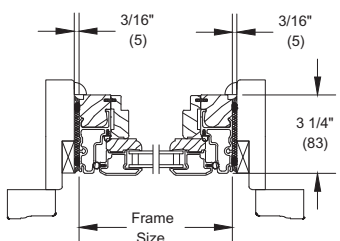
Transom and Picture Head Jamb and Sill



Elevate Casement Operator Jamb



Elevate Awning Operator Jamb



Transom and Picture Jamb

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

MULTIPLE ASSEMBLIES

Multiple assemblies can be factory 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.

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)	ELD H2236	ELD H2636	ELD H3036	ELD H3236	ELD H3436
3-4 (1016)	ELD H2240	ELD H2640	ELD H3040	ELD H3240	ELD H3440
3-8 (1176)	ELD H2244	ELD H2644	ELD H3044	ELD H3244	ELD H3444
4-0 (1219)	ELD H2248	ELD H2648	ELD H3048	ELD H3248	ELD H3448
4-4 (1321)	ELD H2252	ELD H2652	ELD H3052	ELD H3252	ELD H3452
4-8 (1422)	ELD H2256	ELD H2656	ELD H3056	ELD H3256	ELD H3456
5-0 (1524)	ELD H2260	ELD H2660	ELD H3060	ELD H3260	ELD H3460
5-4 (1626)	ELD H2264	ELD H2664	ELD H3064	ELD H3264	ELD H3464
5-8 (1727)	ELD H2268	ELD H2668	ELD H3068	ELD H3268 E	ELD H3468 E
6-0 (1829)	ELD H2272	ELD H2672	ELD H3072	ELD H3272 E	ELD H3472 E
6-4 1/4 (1837)	ELD H2276	ELD H2676	ELD H3076 E	ELD H3276 E	ELD H3476 E
6-3 3/4 (1924)					
2-9 11/16 (856)					

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)
	3-0 (914) 3-0 1/4 (921) 2-11 3/4 (908) 1-1 11/16 (348)	(S.O. 3-0 x 2-10)	(S.O. 3-4 x 2-10)	(S.O. 3-10 x 2-10)	(S.O. 4-4 x 2-10)
	3-4 (1016) 3-4 1/4 (1022) 3-3 3/4 (1010) 1-3 11/16 (398)	(S.O. 3-0 x 3-2)	(S.O. 3-4 x 3-2)	(S.O. 3-10 x 3-2)	(S.O. 4-4 x 3-2)
	3-8 (1176) 3-8 1/4 (1124) 3-7 3/4 (1111) 1-5 11/16 (449)	(S.O. 3-0 x 3-6)	(S.O. 3-4 x 3-6)	(S.O. 3-10 x 3-6)	(S.O. 4-4 x 3-6)
	4-0 (1219) 4-0 1/4 (1226) 3-11 3/4 (1213) 1-7 11/16 (500)	(S.O. 3-0 x 3-10)	(S.O. 3-4 x 3-10)	(S.O. 3-10 x 3-10)	(S.O. 4-4 x 3-10)
	4-4 (1321) 4-4 1/4 (1327) 4-3 3/4 (1314) 1-9 11/16 (551)	(S.O. 3-0 x 4-2)	(S.O. 3-4 x 4-2)	(S.O. 3-10 x 4-2)	(S.O. 4-4 x 4-2)
	4-8 (1422) 4-8 1/4 (1429) 4-7 3/4 (1416) 1-11 11/16 (602)	(S.O. 3-0 x 4-6)	(S.O. 3-4 x 4-6)	(S.O. 3-10 x 4-6)	(S.O. 4-4 x 4-6)
	5-0 (1524) 5-0 1/4 (1530) 4-11 3/4 (1518) 2-1 11/16 (652)	(S.O. 3-0 x 4-10)	(S.O. 3-4 x 4-10)	(S.O. 3-10 x 4-10)	(S.O. 4-4 x 4-10)
	5-4 (1626) 5-4 1/4 (1632) 5-3 3/4 (1619) 2-3 11/16 (703)	(S.O. 3-0 x 5-2)	(S.O. 3-4 x 5-2)	(S.O. 3-10 x 5-2)	(S.O. 4-4 x 5-2)
	5-8 (1727) 5-8 1/4 (1734) 5-7 3/4 (1721) 2-5 11/16 (754)	(S.O. 3-0 x 5-6)	(S.O. 3-4 x 5-6)	(S.O. 3-10 x 5-6)	(S.O. 4-4 x 5-6)
	6-0 (1829) 6-0 1/4 (1835) 5-11 3/4 (1822) 2-7 11/16 (805)	(S.O. 3-0 x 5-10)	(S.O. 3-4 x 5-10)	(S.O. 3-10 x 5-10)	(S.O. 4-4 x 5-10)
	6-4 (1930) 6-4 1/4 (1937) 6-3 3/4 (1924) 2-9 11/16 (856)	(S.O. 3-0 x 6-2)	(S.O. 3-4 x 6-2)	(S.O. 3-10 x 6-2)	(S.O. 4-4 x 6-2)
	ELD3636	ELD3836	ELD4236	ELD4836	ELD5436
	ELD3640	ELD3840	ELD4240	ELD4840	ELD5440
	ELD3644	ELD3844	ELD4244	ELD4844	ELD5444
	ELD3648	ELD3848	ELD4248	ELD4848	ELD5448
	ELD3652	ELD3852	ELD4252	ELD4852	ELD5452
	ELD3656	ELD3856	ELD4256	ELD4856	ELD5456
	ELD3660 E	ELD3860 E	ELD4260 E	ELD4860 E	ELD5460 E
	ELD3664 E	ELD3864 E	ELD4264 E	ELD4864 E	ELD5464 E
	ELD3668 E	ELD3868 E	ELD4268 E	ELD4868 E	ELD5468 E
	ELD3672 E	ELD3872 E	ELD4272 E	ELD4872 E	ELD5472 E
	ELD3676 E	ELD3876 E	ELD4276 E	ELD4876 E	ELD5476 E

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.

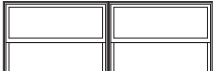
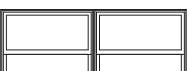
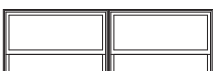
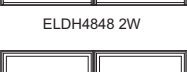
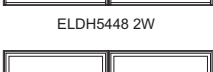
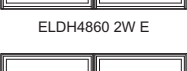
DOUBLE HUNG

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)
	3-0 (914) 3-0 1/4 (921) 2-11 3/4 (908)	ELD2236 2W	ELD2636 2W	ELD3036 2W	ELD3236 2W	ELD3436 2W	ELD3636 2W	ELD3836 2W
	3-4 (1016) 3-4 1/4 (1022) 3-3 3/4 (1010)	ELD2240 2W	ELD2640 2W	ELD3040 2W	ELD3240 2W	ELD3440 2W	ELD3640 2W	ELD3840 2W
	3-8 (1176) 3-8 1/4 (1124) 3-7 3/4 (1111)	ELD2244 2W	ELD2644 2W	ELD3044 2W	ELD3244 2W	ELD3444 2W	ELD3644 2W	ELD3844 2W
	4-0 (1219) 4-0 1/4 (1226) 3-11 3/4 (1213)	ELD2248 2W	ELD2648 2W	ELD3048 2W	ELD3248 2W	ELD3448 2W	ELD3648 2W	ELD3848 2W
	4-4 (1321) 4-4 1/4 (1327) 4-3 3/4 (1314)	ELD2252 2W	ELD2652 2W	ELD3052 2W	ELD3252 2W	ELD3452 2W	ELD3652 2W	ELD3852 2W
	4-8 (1422) 4-8 1/4 (1429) 4-7 3/4 (1416)	ELD2256 2W	ELD2656 2W	ELD3056 2W	ELD3256 2W	ELD3456 2W	ELD3656 2W	ELD3856 2W
	5-0 (1524) 5-0 1/4 (1530) 4-11 3/4 (1518)	ELD2260 2W	ELD2660 2W	ELD3060 2W	ELD3260 2W	ELD3460 2W	ELD3660 2W E	ELD3860 2W E
	5-4 (1626) 5-4 1/4 (1632) 5-3 3/4 (1619)	ELD2264 2W	ELD2664 2W	ELD3064 2W	ELD3264 2W	ELD3464 2W	ELD3664 2W E	ELD3864 2W E
	5-8 (1727) 5-8 1/4 (1734) 5-7 3/4 (1721)	ELD2268 2W	ELD2668 2W	ELD3068 2W	ELD3268 2W E	ELD3468 2W E	ELD3668 2W E	ELD3868 2W E
	6-0 (1829) 6-0 1/4 (1835) 5-11 3/4 (1822)	ELD2272 2W	ELD2672 2W	ELD3072 2W	ELD3272 2W E	ELD3472 2W E	ELD3672 2W E	ELD3872 2W E
	6-4 (1930) 6-4 1/4 (1937) 6-3 3/4 (1924)	ELD2276 2W	ELD2676 2W	ELD3076 2W E	ELD3276 2W E	ELD3476 2W E	ELD3676 2W E	ELD3876 2W E

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)	ELD4836 2W	ELD5436 2W
3-4 (1016)		
3-4 1/4 (1022)	ELD4840 2W	ELD5440 2W
3-8 (1176)		
3-8 1/4 (1124)	ELD4844 2W	ELD5444 2W
3-7 3/4 (1111)		
4-0 (1219)		
4-0 1/4 (1226)	ELD4848 2W	ELD5448 2W
4-0 1/4 (1226)		
4-4 (1321)		
4-4 1/4 (1327)	ELD4852 2W	ELD5452 2W
4-3 3/4 (1314)		
4-8 (1422)		
4-8 1/4 (1429)	ELD4856 2W	ELD5456 2W
4-7 3/4 (1416)		
5-0 (1524)		
5-0 1/4 (1530)	ELD4860 2W E	ELD5460 2W E
4-11 3/4 (1518)		
5-4 (1626)		
5-4 1/4 (1632)	ELD4864 2W E	ELD5464 2W E
5-3 3/4 (1619)		
5-8 (1727)		
5-8 1/4 (1734)	ELD4868 2W E	ELD5468 2W E
5-7 3/4 (1721)		
6-0 (1829)		
6-0 1/4 (1835)	ELD4872 2W E	ELD5472 2W E
5-11 3/4 (1822)		
6-4 (1930)		
6-4 1/4 (1937)	ELD4876 2W E	ELD5476 2W E
6-3 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.

MULTIPLE ASSEMBLIES

Multiple assemblies can be factory mulled.

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.

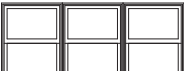
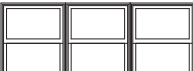
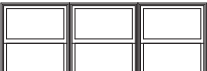
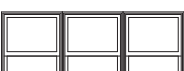
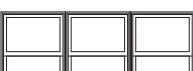
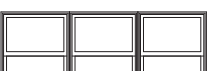
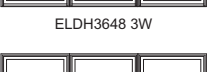
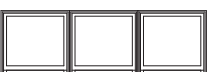
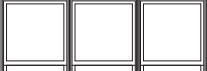
Field mull kits are available. Structural mullion reinforcement is required for some assemblies.

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)	ELD2236 3W	ELD2636 3W	ELD3036 3W	ELD3236 3W	ELD3436 3W	ELD3636 3W
3-4 (1016)						
3-4 1/4 (1022)	ELD2240 3W	ELD2640 3W	ELD3040 3W	ELD3240 3W	ELD3440 3W	ELD3640 3W
3-8 (1176)						
3-8 1/4 (1124)	ELD2244 3W	ELD2644 3W	ELD3044 3W	ELD3244 3W	ELD3444 3W	ELD3644 3W
3-7 3/4 (1111)						
4-0 (1219)						
4-0 1/4 (1226)	ELD2248 3W	ELD2648 3W	ELD3048 3W	ELD3248 3W	ELD3448 3W	ELD3648 3W
3-11 3/4 (1213)						
4-4 (1321)						
4-4 1/4 (1327)	ELD2252 3W	ELD2652 3W	ELD3052 3W	ELD3252 3W	ELD3452 3W	ELD3652 3W
4-3 3/4 (1314)						
4-8 (1422)						
4-8 1/4 (1429)	ELD2256 3W	ELD2656 3W	ELD3056 3W	ELD3256 3W	ELD3456 3W	ELD3656 3W
4-7 3/4 (1416)						
5-0 (1524)						
5-0 1/4 (1530)	ELD2260 3W	ELD2660 3W	ELD3060 3W	ELD3260 3W	ELD3460 3W	ELD3660 3W E
4-11 3/4 (1518)						
5-4 (1626)						
5-4 1/4 (1632)	ELD2264 3W	ELD2664 3W	ELD3064 3W	ELD3264 3W	ELD3464 3W	ELD3664 3W E
5-3 3/4 (1619)						
5-8 (1727)						
5-8 1/4 (1734)	ELD2268 3W	ELD2668 3W	ELD3068 3W	ELD3268 3W E	ELD3468 3W E	ELD3668 3W E
5-7 3/4 (1721)						
6-0 (1829)						
6-0 1/4 (1835)	ELD2272 3W	ELD2672 3W	ELD3072 3W	ELD3272 3W E	ELD3472 3W E	ELD3672 3W E
5-11 3/4 (1822)						
6-4 (1930)						
6-4 1/4 (1937)	ELD2276 3W	ELD2676 3W	ELD3076 3W E	ELD3276 3W E	ELD3476 3W E	ELD3676 3W E
6-3 3/4 (1924)						

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 (927)			
3-0 3/4 (934)			
3-1 (914)			
3-1 1/4 (921)			
3-1 1/2 (927)			
3-1 3/4 (934)			
3-2 (965)			
3-2 1/2 (978)			
3-3 (1016)			
3-3 1/4 (1022)			
3-3 1/2 (1029)			
3-3 3/4 (1036)			
3-4 (1067)			
3-4 1/4 (1074)			
3-4 1/2 (1080)			
3-4 3/4 (1087)			
3-5 (1118)			
3-5 1/4 (1125)			
3-5 1/2 (1131)			
3-5 3/4 (1138)			
3-6 (1169)			
3-6 1/4 (1176)			
3-6 1/2 (1182)			
3-6 3/4 (1189)			
3-7 (1220)			
3-7 1/4 (1227)			
3-7 1/2 (1233)			
3-7 3/4 (1240)			
3-8 (1271)			
3-8 1/4 (1278)			
3-8 1/2 (1284)			
3-8 3/4 (1291)			
3-9 (1322)			
3-9 1/4 (1329)			
3-9 1/2 (1335)			
3-9 3/4 (1342)			
4-0 (1373)			
4-0 1/4 (1380)			
4-0 1/2 (1386)			
4-0 3/4 (1393)			
4-1 (1424)			
4-1 1/4 (1431)			
4-1 1/2 (1437)			
4-1 3/4 (1444)			
4-2 (1475)			
4-2 1/4 (1482)			
4-2 1/2 (1488)			
4-2 3/4 (1495)			
4-3 (1526)			
4-3 1/4 (1533)			
4-3 1/2 (1539)			
4-3 3/4 (1546)			
4-4 (1577)			
4-4 1/4 (1584)			
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4-4 3/4 (1597)			
4-5 (1628)			
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4-6 (1679)			
4-6 1/4 (1686)			
4-6 1/2 (1692)			
4-6 3/4 (1699)			
4-7 (1730)			
4-7 1/4 (1737)			
4-7 1/2 (1743)			
4-7 3/4 (1750)			
4-8 (1781)			
4-8 1/4 (1788)			
4-8 1/2 (1794)			
4-8 3/4 (1801)			
4-9 (1832)			
4-9 1/4 (1839)			
4-9 1/2 (1845)			
4-9 3/4 (1852)			
5-0 (1883)			
5-0 1/4 (1890)			
5-0 1/2 (1896)			
5-0 3/4 (1903)			
5-1 (1934)			
5-1 1/4 (1941)			
5-1 1/2 (1947)			
5-1 3/4 (1954)			
5-2 (1985)			
5-2 1/4 (1992)			
5-2 1/2 (1998)			
5-2 3/4 (2005)			
5-3 (2036)			
5-3 1/4 (2043)			
5-3 1/2 (2049)			
5-3 3/4 (2056)			
5-4 (2087)			
5-4 1/4 (2094)			
5-4 1/2 (2100)			
5-4 3/4 (2107)			
5-5 (2138)			
5-5 1/4 (2145)			
5-5 1/2 (2151)			
5-5 3/4 (2158)			
5-6 (2189)			
5-6 1/4 (2196)			
5-6 1/2 (2202)			
5-6 3/4 (2209)			
5-7 (2240)			
5-7 1/4 (2247)			
5-7 1/2 (2253)			
5-7 3/4 (2260)			
5-8 (2291)			
5-8 1/4 (2298)			
5-8 1/2 (2304)			
5-8 3/4 (2311)			
5-9 (2342)			
5-9 1/4 (2349)			
5-9 1/2 (2355)			
5-9 3/4 (2362)			
6-0 (2393)			
6-0 1/4 (2400)			
6-0 1/2 (2406)			
6-0 3/4 (2413)			
6-1 (2444)			
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6-1 1/2 (2457)			
6-1 3/4 (2464)			
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6-4 1/2 (2610)			
6-4 3/4 (2617)			
6-5 (2648)			
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10-6 3/4 (4759)			
10-7 (4790)			
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10-7 1/2 (4803)			
10-7 3/4 (4810)			
10-8 (4841)			
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10-8 1/2 (4854)			
10-8 3/4 (4861)			
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11-1 (4994)			
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11-4 1/2 (5160)			
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11-5 1/4 (5205)			
11-5 1/2 (5211)			
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11-8 (5351)			
11-8 1/4 (5358)			
11-8 1/2 (5364)			
11-8 3/4 (5371)			
11-9 (5402)			
11-9 1/4 (5409)			
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12-0 (5453)			
12-0 1/4 (5460)			
12-0 1/2 (5466)			
12-0 3/4 (5473)			
12-1 (5504)			
12-1 1/4 (5511)			
12-1 1/2 (5517)			
12-1 3/4 (5524)			
12-2 (5555)			
12-2 1/4 (5562)			
12-2 1/2 (5568)			
12-2 3/4 (5575)			
12-3 (5606)			
12-3 1/4 (5613)			
12-3 1/2 (5619)			

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)

4-8 (1422)	4-4 (1321)	4-0 (1219)	3-8 (1176)	3-4 (1016)	3-0 (914)
4-8 1/4 (1429)	4-4 1/4 (1327)	4-0 1/4 (1226)	3-8 1/4 (1124)	3-4 1/4 (1022)	3-0 1/4 (921)
4-7 3/4 (1416)	4-3 3/4 (1314)	3-11 3/4 (1213)	3-7 3/4 (1111)	3-3 3/4 (1010)	2-11 3/4 (908)
4-1 11/16 (1262)	3-9 11/16 (1160)	3-5 11/16 (1059)	3-1 11/16 (957)	2-9 3/4 (856)	2-5 11/16 (754)

ELDHP5056	ELDHP5052	ELDHP5048	ELDHP5044	ELDHP5040	ELDHP5036
ELDHP5456	ELDHP5452	ELDHP5448	ELDHP5444	ELDHP5440	ELDHP5436
ELDHP6256	ELDHP6252	ELDHP6248	ELDHP6244	ELDHP6240	ELDHP6236

MULTIPLE ASSEMBLIES

Multiple assemblies can be factory mulled.

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)	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)

6-4 (1930)	6-0 (1829)	5-8 (1727)	5-4 (1626)	5-0 (1524)
6-4 1/4 (1937)	6-0 1/4 (1835)	5-8 1/4 (1734)	5-4 1/4 (1632)	5-0 1/4 (1530)
6-3 3/4 (1924)	5-11 3/4 (1822)	5-7 3/4 (1721)	5-3 3/4 (1619)	4-11 3/4 (1518)
5-9 11/16 (1770)	5-5 11/16 (1668)	5-1 11/16 (1567)	4-9 11/16 (1465)	4-5 11/16 (1364)

ELDHP5076	ELDHP5072	ELDHP5068	ELDHP5064	ELDHP5060
ELDHP5476	ELDHP5472	ELDHP5468	ELDHP5464	ELDHP5460
ELDHP6276	ELDHP6272	ELDHP6268	ELDHP6264	ELDHP6260

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"

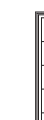
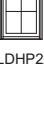
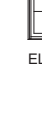
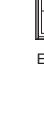
Maximum frame size: 53 1/2" x 83 3/4" or 61 1/2" x 75 3/4"

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 (1524)									
5-0 1/4 (1530)	ELDHP2260	ELDHP2660	ELDHP3060	ELDHP3260	ELDHP3460	ELDHP3660	ELDHP3860	ELDHP4260	ELDHP4860
5-4 (1626)									
5-4 1/4 (1632)	ELDHP2264	ELDHP2664	ELDHP3064	ELDHP3264	ELDHP3464	ELDHP3664	ELDHP3864	ELDHP4264	ELDHP4864
5-3 3/4 (1619)									
4-9 11/16 (1465)	ELDHP2268	ELDHP2668	ELDHP3068	ELDHP3268	ELDHP3468	ELDHP3668	ELDHP3868	ELDHP4268	ELDHP4868
5-8 (1727)									
5-8 1/4 (1734)	ELDHP2272	ELDHP2672	ELDHP3072	ELDHP3272	ELDHP3472	ELDHP3672	ELDHP3872	ELDHP4272	ELDHP4872
5-7 3/4 (1721)									
5-1 11/16 (1567)	ELDHP2276	ELDHP2676	ELDHP3076	ELDHP3276	ELDHP3476	ELDHP3676	ELDHP3876	ELDHP4276	ELDHP4876
6-0 (1829)									
6-0 1/4 (1835)	ELDHP2277	ELDHP2677	ELDHP3077	ELDHP3277	ELDHP3477	ELDHP3677	ELDHP3877	ELDHP4277	ELDHP4877
6-3 3/4 (1924)									
5-9 11/16 (1770)	ELDHP2278	ELDHP2678	ELDHP3078	ELDHP3278	ELDHP3478	ELDHP3678	ELDHP3878	ELDHP4278	ELDHP4878

MULTIPLE ASSEMBLIES

Multiple assemblies can be factory mulled.

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 1/4 (413)	ELDHTR2216	ELDHTR2616	ELDHTR3016	ELDHTR3216	ELDHTR3416	ELDHTR3616	ELDHTR4816
1-3 3/4 (400)							
0-9 11/16 (246)	ELDHTR2224*	ELDHTR2624*	ELDHTR3024*	ELDHTR3224*	ELDHTR3424*	ELDHTR3624*	ELDHTR4824*
2-0 (610)							
2-0 1/4 (616)	ELDHTR2224*	ELDHTR2624*	ELDHTR3024*	ELDHTR3224*	ELDHTR3424*	ELDHTR3624*	ELDHTR4824*
1-11 3/4 (603)							
1-5 11/16 (449)	ELDHTR2224*	ELDHTR2624*	ELDHTR3024*	ELDHTR3224*	ELDHTR3424*	ELDHTR3624*	ELDHTR4824*

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 1/4 (413)	ELDHTR3816	ELDHTR4216	ELDHTR5016	ELDHTR5416	ELDHTR6216
1-4 1/4 (413)					
0-9 11/16 (246)	ELDHTR3824*	ELDHTR4224*	ELDHTR5024*	ELDHTR5424*	ELDHTR6224*
2-0 (610)					
2-0 1/4 (616)	ELDHTR3824*	ELDHTR4224*	ELDHTR5024*	ELDHTR5424*	ELDHTR6224*
1-11 3/4 (603)					
1-5 11/16 (449)	ELDHTR3824*	ELDHTR4224*	ELDHTR5024*	ELDHTR5424*	ELDHTR6224*

5-3 3/4 (1619)		
5-4 (1626)	ELDHT2216 / ELDH2248	ELDHT3016 / ELDH3048
5-3 1/2 (1613)		

Double Hung Transoms Mulled 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)		
5-4 (1626)	ELDHT2216 / ELDH2248	ELDHT3016 / ELDH3048
5-3 1/2 (1613)		

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 mulled.

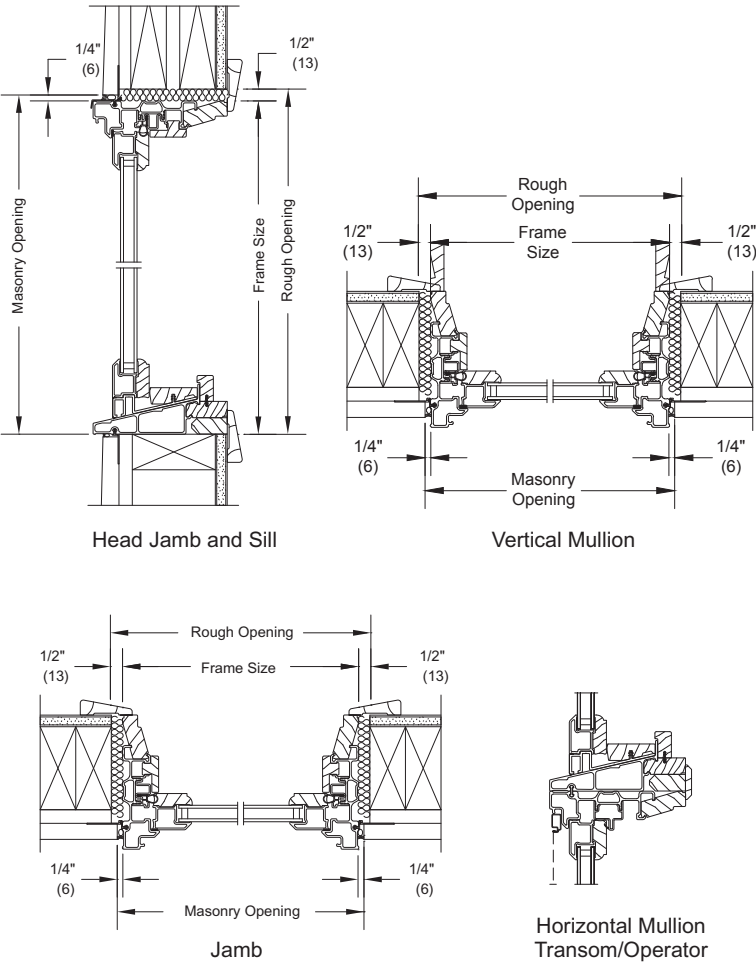
MAXIMUM ROUGH OPENING not to exceed 113 1/2" x 76 1/4"
Maximum up to 5 units wide by 1 unit high.

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.

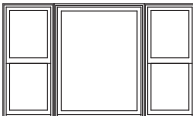
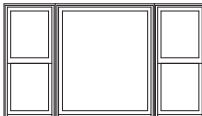
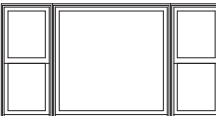
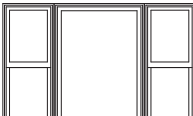
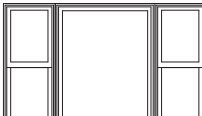
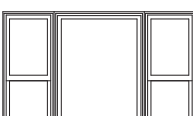
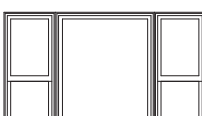
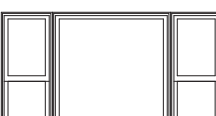
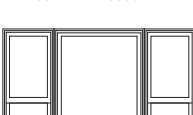
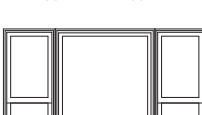
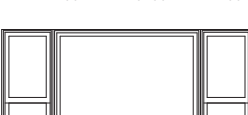
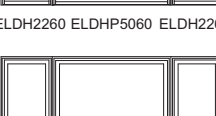
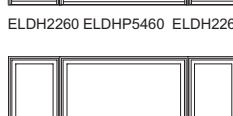
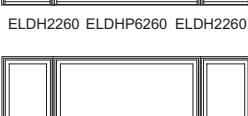
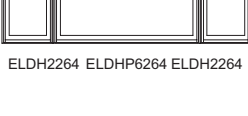
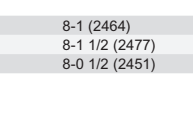
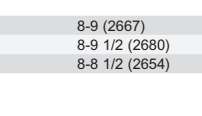
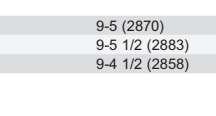
Construction Details



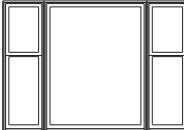
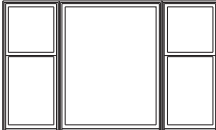
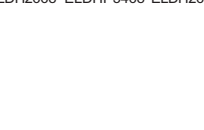
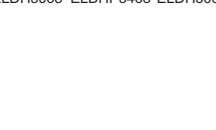
DOUBLE HUNG

Multiple Assemblies

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

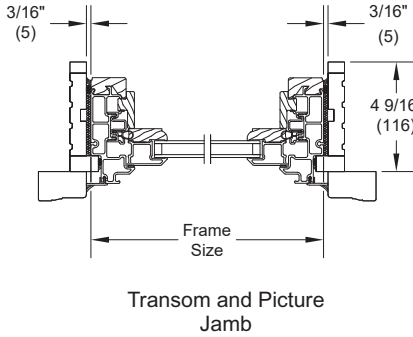
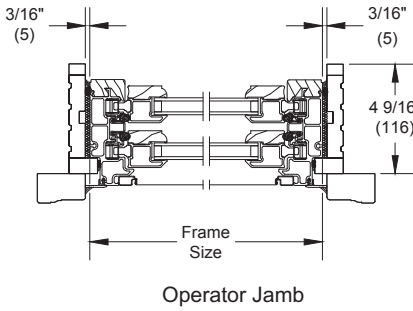
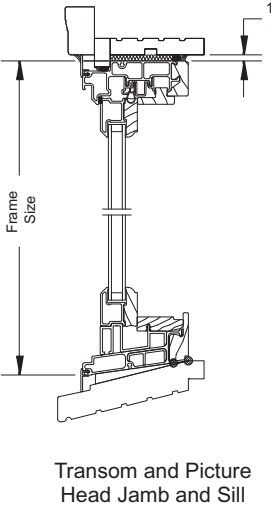
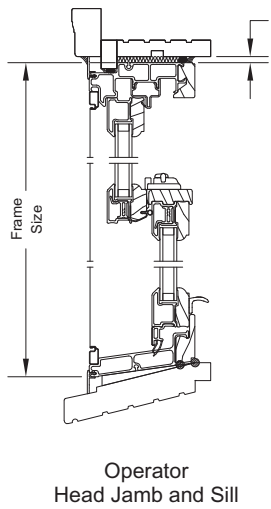
MO (mm)	6-9 (2057)		7-1 (2159)		7-9 (2362)		8-1 (2464)		8-9 (2667)	
RO (mm)	6-9 1/2 (2070)		7-1 1/2 (2172)		7-9 1/2 (2375)		8-1 1/2 (2477)		8-9 1/2 (2680)	
FS (mm)	6-8 1/2 (2045)		7-0 1/2 (2146)		7-8 1/2 (2350)		8-0 1/2 (2451)		8-8 1/2 (2654)	
4-0 (1219) 4-0 1/4 (1226) 3-11 3/4 (1213)										
	ELDH2248 ELDHP3848 ELDH2248		ELDH2248 ELDHP4248 ELDH2248		ELDH2248 ELDHP5048 ELDH2248		ELDH2248 ELDHP5448 ELDH2248		ELDH2248 ELDHP6248 ELDH2248	
										
	ELDH2252 ELDHP3852 ELDH2252		ELDH2252 ELDHP4252 ELDH2252		ELDH2252 ELDHP5052 ELDH2252		ELDH2252 ELDHP5452 ELDH2252		ELDH2252 ELDHP6252 ELDH2252	
										
4-4 (1321) 4-4 1/4 (1327) 4-3 3/4 (1314)										
	ELDH2256 ELDHP3856 ELDH2256		ELDH2256 ELDHP4256 ELDH2256		ELDH2256 ELDHP5056 ELDH2256		ELDH2256 ELDHP5456 ELDH2256		ELDH2256 ELDHP6256 ELDH2256	
										
	ELDH2260 ELDHP3860 ELDH2260		ELDH2260 ELDHP4260 ELDH2260		ELDH2260 ELDHP5060 ELDH2260		ELDH2260 ELDHP5460 ELDH2260		ELDH2260 ELDHP6260 ELDH2260	
										
4-8 (1422) 4-8 1/4 (1429) 4-7 3/4 (1416)										
	ELDH2264 ELDHP3864 ELDH2264		ELDH2264 ELDHP4264 ELDH2264		ELDH2264 ELDHP5064 ELDH2264		ELDH2264 ELDHP5464 ELDH2264		ELDH2264 ELDHP6264 ELDH2264	
										
	ELDH2268 ELDHP3868 ELDH2268		ELDH2268 ELDHP4268 ELDH2268		ELDH2268 ELDHP5068 ELDH2268		ELDH2268 ELDHP5468 ELDH2268		ELDH2268 ELDHP6268 ELDH2268	
										
5-0 (1524) 5-0 1/4 (1530) 4-11 3/4 (1518)										
	ELDH2264 ELDHP3864 ELDH2264		ELDH2264 ELDHP4264 ELDH2264		ELDH2264 ELDHP5064 ELDH2264		ELDH2264 ELDHP5464 ELDH2264		ELDH2264 ELDHP6264 ELDH2264	
										
	ELDH2264 ELDHP3864 ELDH2264		ELDH2264 ELDHP4264 ELDH2264		ELDH2264 ELDHP5064 ELDH2264		ELDH2264 ELDHP5464 ELDH2264		ELDH2264 ELDHP6264 ELDH2264	
5-4 (1626) 5-4 1/4 (1632) 5-3 3/4 (1619)										
	ELDH2264 ELDHP3864 ELDH2264		ELDH2264 ELDHP4264 ELDH2264		ELDH2264 ELDHP5064 ELDH2264		ELDH2264 ELDHP5464 ELDH2264		ELDH2264 ELDHP6264 ELDH2264	
	ELDH2264 ELDHP3864 ELDH2264		ELDH2264 ELDHP4264 ELDH2264		ELDH2264 ELDHP5064 ELDH2264		ELDH2264 ELDHP5464 ELDH2264		ELDH2264 ELDHP6264 ELDH2264	
5-8 (1727) 5-8 1/4 (1734) 5-7 3/4 (1721)										
	ELDH2268 ELDHP3868 ELDH2268		ELDH2268 ELDHP4268 ELDH2268		ELDH2268 ELDHP5068 ELDH2268		ELDH2268 ELDHP5468 ELDH2268		ELDH2268 ELDHP6268 ELDH2268	
	ELDH2268 ELDHP3868 ELDH2268		ELDH2268 ELDHP4268 ELDH2268		ELDH2268 ELDHP5068 ELDH2268		ELDH2268 ELDHP5468 ELDH2268		ELDH2268 ELDHP6268 ELDH2268	

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)						
	ELDH2268 ELDHP5468 ELDH2268		ELDH2668 ELDHP5468 ELDH2668		ELDH3068 ELDHP5468 ELDH3068	
						
	ELDH2268 ELDHP5468 ELDH2268		ELDH2668 ELDHP5468 ELDH2668		ELDH3068 ELDHP5468 ELDH3068	
						

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.

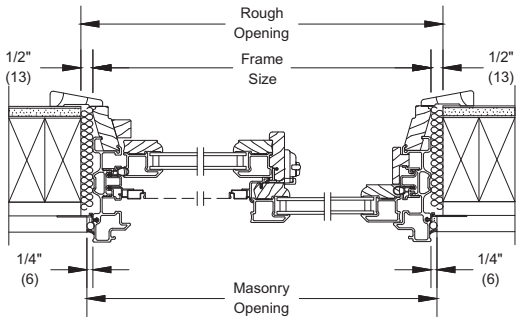
MULTIPLE ASSEMBLIES
Multiple assemblies can be factory mulled.
MAXIMUM ROUGH OPENING not to exceed 112 7/8" x 84 1/4"
Maximum up to 5 units wide by 1 unit high.
Field mull kits are available.
Please consult your local Marvin representative for more information.

GLIDER

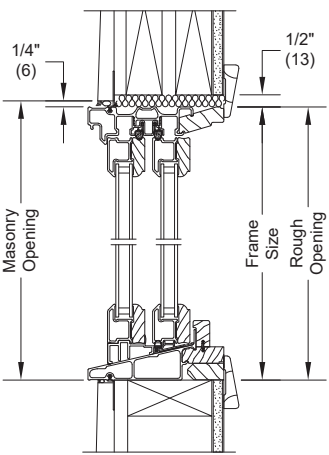
1 Wide and 2 Wide

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)	 ELGL3624	 ELGL4824	 ELGL6024	 ELGL7224	 ELGL3624 2W	 ELGL4824 2W
3-0 (914) 3-0 1/4 (921) 2-11 3/4 (908) 2-5 3/4 (754)	 ELGL3636	 ELGL4836	 ELGL6036 E*	 ELGL7236 E*	 ELGL3636 2W	 ELGL4836 2W
3-6 (1067) 3-6 1/4 (1073) 3-5 3/4 (1060) 2-11 3/4 (906)	 ELGL3642	 ELGL4842	 ELGL6042 E	 ELGL7242 E	 ELGL3642 2W	 ELGL4842 2W
4-0 (1219) 4-0 1/4 (1226) 3-11 3/4 (1213) 3-5 3/4 (1059)	 ELGL3648	 ELGL4848 E	 ELGL6048 E	 ELGL7248 E	 ELGL3648 2W	 ELGL4848 E 2W
5-0 (1524) 5-0 1/4 (1530) 4-11 3/4 (1518) 4-5 3/4 (1364)	 ELGL3660	 ELGL4860 E	 ELGL6060 E	 ELGL7260 E	 ELGL3660 2W	 ELGL4860 E 2W

Construction Details



XO Operator Jamb

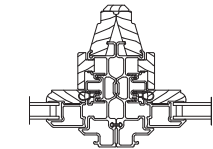


Head Jamb and Sill

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.

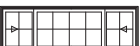
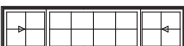
Mullion Detail



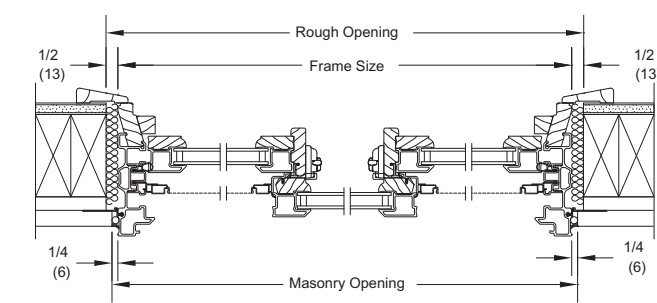
Vertical Mullion Operator Unit

GLIDER - TRIPLE SASH

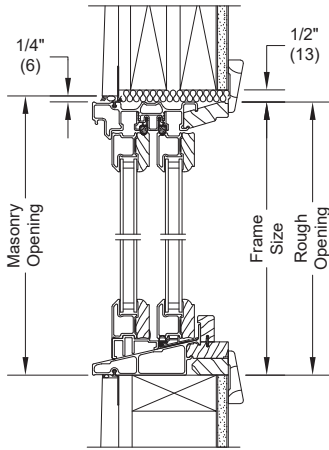
1 Wide

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)	 ELGLTS7224	 ELGLTS8424	 ELGLTS9624
3-0 (914) 3-0 1/4 (921) 2-11 3/4 (908)	 ELGLTS7236	 ELGLTS8436	 ELGLTS9636
3-6 (1067) 3-6 1/4 (1073) 3-5 3/4 (1060)	 ELGLTS7242	 ELGLTS8442	 ELGLTS9642
4-0 (1219) 4-0 1/4 (1226) 3-11 3/4 (1213)	 ELGLTS7248	 ELGLTS8448	 ELGLTS9648 E
5-0 (1524) 5-0 1/4 (1530) 4-11 3/4 (1518)	 ELGLTS7260	 ELGLTS8460	 ELGLTS9660 E

Construction Details



Triple Sash XO Operator Jamb



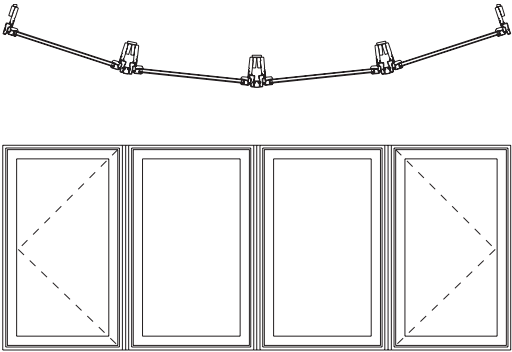
Head Jamb and Sill

MULTIPLE ASSEMBLIES

Multiple assemblies can be factory mulled.
MAXIMUM ROUGH OPENING not to exceed 113 1/2" x 60 1/4" Maximum up to 3 units wide by 1 unit high.
Field mull kits are available. Structural mullion reinforcement is required for some assemblies.
Please consult your local Marvin representative for more information.

CASEMENT BOWS

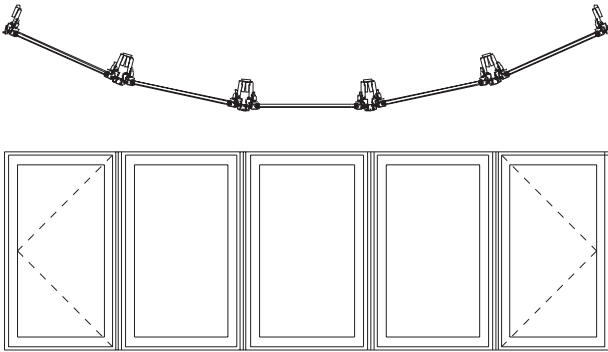
4 Wide Bows



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)

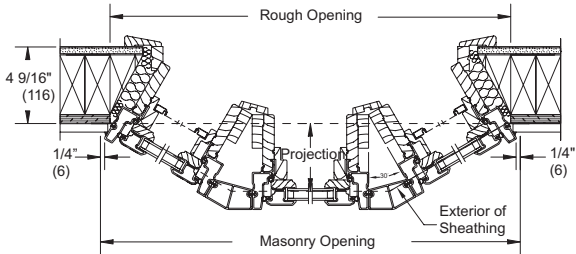
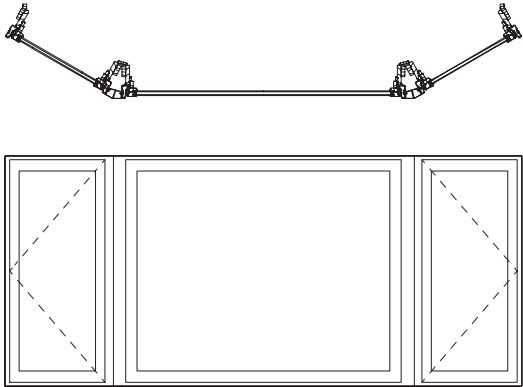
5 Wide Bows



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

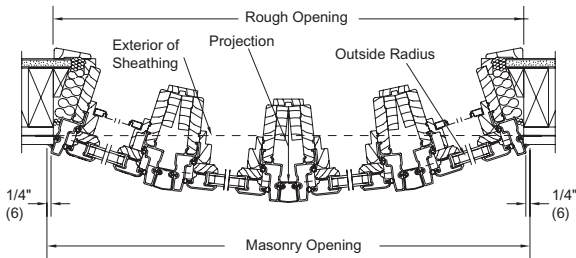


30° Casement Bay with Stationary/ Center Picture Unit

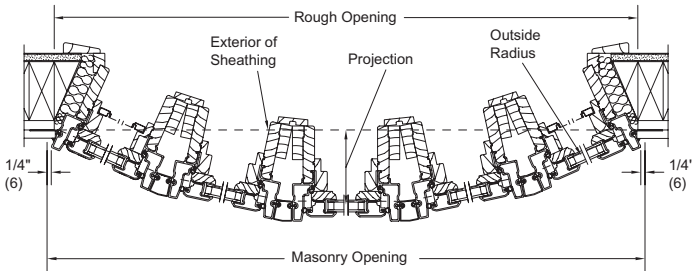
CN Width	RO Width		Projection	
	Inches	(mm)	Inches	(mm)
17-17-17	49 25/64	(1255)	8 5/8	(219)
17-21-17	53 25/64	(1356)	8 5/8	(219)
17-25-17	57 25/64	(1458)	8 5/8	(219)
17-29-17	61 25/64	(1559)	8 5/8	(219)
17-33-17	65 25/64	(1661)	8 5/8	(219)
17-37-17	69 25/64	(1763)	8 5/8	(219)
17-41-17	73 25/64	(1864)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

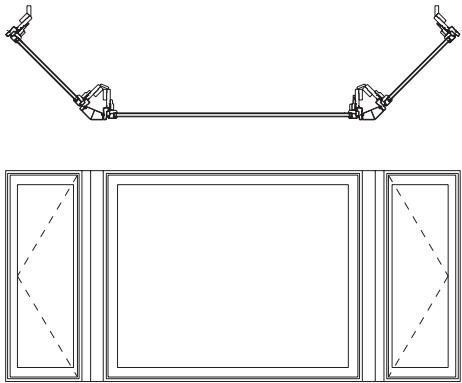


5-Wide Casement Bow Unit

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.

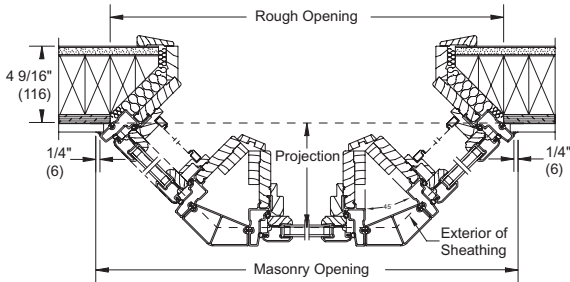
CASEMENT BAYS

45° Bays



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

Construction Details



45° Casement Bay with Stationary/Center Picture Unit

Details and Elevations not to scale.

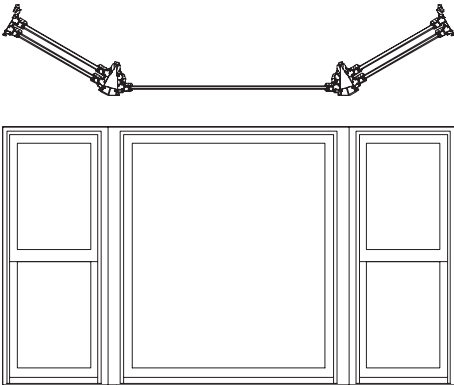
For rough opening height of a Bay or Bow, add 3/16" to Casement rough opening height.

* 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

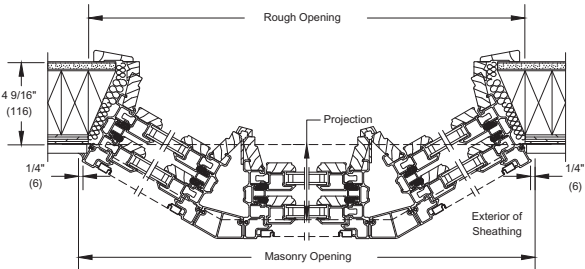


RO Width		Projection	
CN Width	Inches (mm)	Inches (mm)	(mm)
22-22-22	64 27/64	(1636)	11 3/8 (289)
22-26-22	68 27/64	(1738)	11 3/8 (289)
22-30-22	72 27/64	(1839)	11 3/8 (289)
22-32-22	74 27/64	(1890)	11 3/8 (289)
22-34-22	76 27/64	(1941)	11 3/8 (289)
22-36-22	78 27/64	(1992)	11 3/8 (289)
22-38-22	80 27/64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

Details and Elevations not to scale.

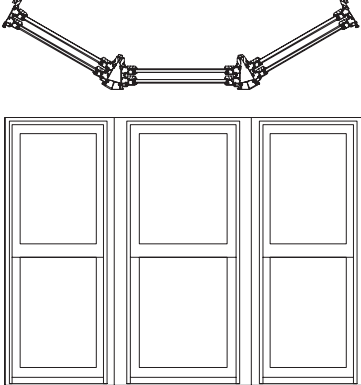
For rough opening height of a Bay, add 1 7/16" to the Double Hung rough opening height.

Construction Details

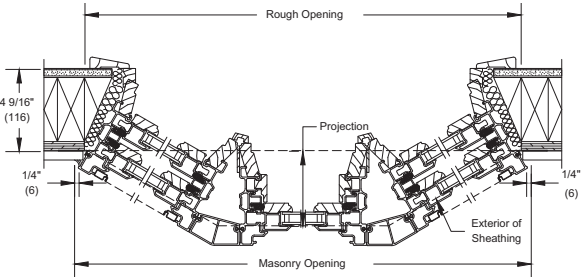


30° Bay with Operator Center Unit Jamb

30° Bay Center Operator

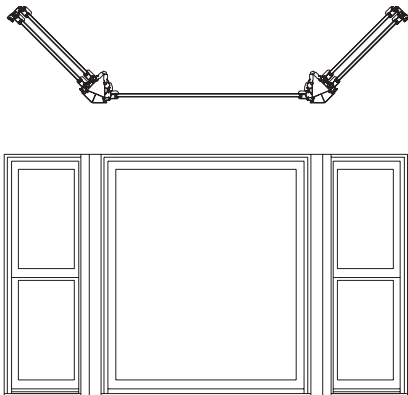


RO Width		Projection	
CN Width	Inches (mm)	Inches (mm)	(mm)
32-22-32	81 3/8	(2067)	16 3/8 (416)
32-26-32	85 3/8	(2169)	16 3/8 (416)
32-30-32	89 3/8	(2270)	16 3/8 (416)
32-32-32	91 47/64	(2330)	16 3/8 (416)
32-34-32	93 47/64	(2381)	16 3/8 (416)
32-36-32	95 47/64	(2432)	16 3/8 (416)
32-38-32	97 47/64	(2483)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

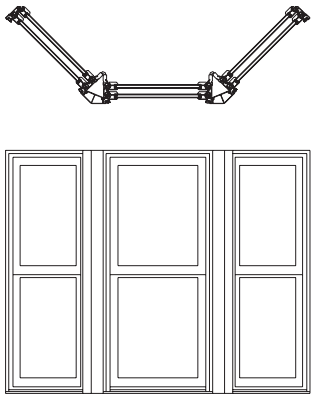


30° Bay with Center Picture Unit Jamb

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)

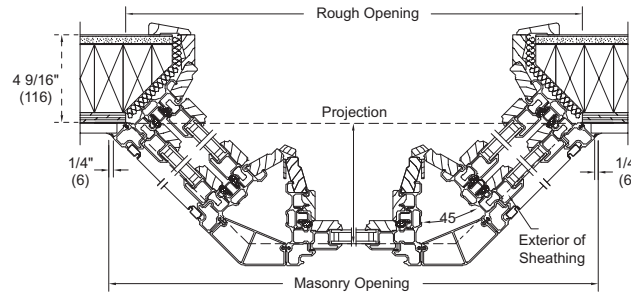
Details and Elevations not to scale.

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

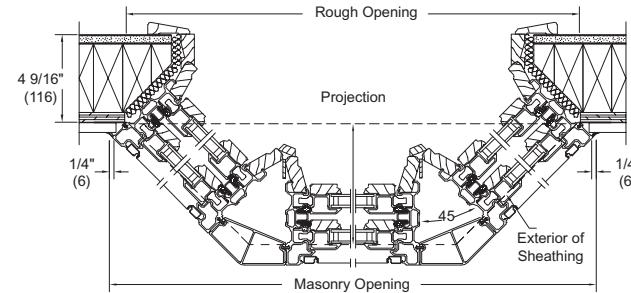
Note: When using Marvin Bays and Bows to replace products within existing openings, you will want to contact your local Marvin dealer for assistance and field verification of dimensions.

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)	MO (mm)	3-4 1/2 (1029)	MO (mm)	4-0 1/2 (1232)	MO (mm)	2-4 1/2 (724)
RO (mm)	2-5 (737)	RO (mm)	3-5 (1041)	RO (mm)	4-1 (1245)	RO (mm)	2-5 (737)
FS (mm)	2-4 (711)	FS (mm)	3-4 (1016)	FS (mm)	4-0 (1219)	FS (mm)	2-4 (711)
1-2 1/4 (362)		1-8 1/4 (514)		2-0 1/4 (616)		2-4 1/4 (718)	
1-2 1/2 (368)		1-8 1/2 (521)		2-0 1/2 (622)		2-4 1/2 (724)	
1-2 (356)		1-8 (508)		2-0 (610)		2-4 (711)	
	ELALDGR29 1W		ELALDGR21 2W		ELALDGR25 2W		ELALDG RT CIRQ29 1W

MO (mm)	4-8 1/2 (1435)	MO (mm)	6-0 1/2 (1842)	MO (mm)	6-0 1/2 (1842)
RO (mm)	4-9 (1448)	RO (mm)	6-1 (1854)	RO (mm)	6-1 (1854)
FS (mm)	4-8 (1422)	FS (mm)	6-0 (1829)	FS (mm)	6-0 (1829)
2-4 1/4 (718)		3-0 1/4 (921)		1-6 1/4 (464)	
2-4 1/2 (724)		3-0 1/2 (927)		1-6 1/2 (470)	
2-4 (711)		3-0 (914)		1-6 (457)	
	ELALDGR29 2W		ELALDGR25 3W		ELALDGR7318

Multiple Assemblies

MO (mm)	6-0 1/2 (1842)	MO (mm)	6-0 1/2 (1842)	MO (mm)	6-0 1/2 (1842)
RO (mm)	6-1 (1854)	RO (mm)	6-1 (1854)	RO (mm)	6-1 (1854)
FS (mm)	6-0 (1829)	FS (mm)	6-0 (1829)	FS (mm)	6-0 (1829)
7-7 3/8 (2321)		7-11 3/8 (2423)		8-3 3/8 (2524)	
7-7 5/8 (2327)		7-11 5/8 (2429)		8-3 5/8 (2530)	
7-7 1/8 (2315)		7-11 1/8 (2416)		8-3 1/8 (2518)	
	ELALDGR25 3W / ELCA2555 3W		ELALDGR25 3W / ELCA2559 3W		ELALDGR25 3W / ELCA2563 3W

MO (mm)	2-4 1/2 (724)	MO (mm)	2-4 1/2 (724)	MO (mm)	2-4 1/2 (724)
RO (mm)	2-5 (737)	RO (mm)	2-5 (737)	RO (mm)	2-5 (737)
FS (mm)	2-4 (711)	FS (mm)	2-4 (711)	FS (mm)	2-4 (711)
6-3 3/8 (1915)		6-11 3/8 (2118)		7-3 3/8 (2219)	
6-3 5/8 (1921)		6-11 5/8 (2124)		7-3 5/8 (2226)	
6-3 1/8 (1908)		6-11 1/8 (2111)		7-3 1/8 (2213)	
	ELALDG RT29 1W / ELCA2947 E		ELALDG RT29 1W / ELCA2955 E		ELALDG RT29 1W / ELCA2959 E

Lite Patterns

Open Hub	Open Hub	Closed Hub
SDL	GBG	GBG
SDL	GBG	GBG
SDL	GBG	GBG

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)

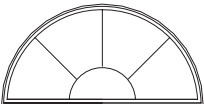
1-4 1/4 (413)
1-4 1/2 (419)
1-4 (406)



ELALDGR33 1W

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

3-0 1/4 (921)
3-0 1/2 (927)
3-0 (914)



ELALDGR37 2W

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

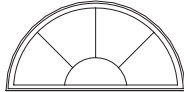
1-6 1/4 (464)
1-6 1/2 (470)
1-6 (457)



ELALDGR37 1W

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

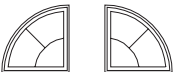
2-8 1/4 (819)
2-8 1/2 (826)
2-8 (813)



ELALDGR33 2W

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

2-0 1/4 (616)
2-0 1/2 (622)
2-0 (610)



L
R
ELALDGR25 1W

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.

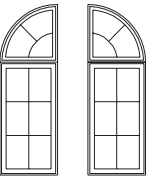
MAXIMUM ROUGH OPENING 113 1/2" (2883 mm) wide x 91 1/16" (2313 mm) high or 85" (2159 mm) wide x 107 9/16" (2732 mm) high. Quarter Round shapes require a Casement with a continuous head jamb.

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)

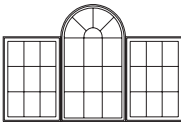
(813)
5-11 3/8 (1819)
5-11 5/8 (1807)



ELALDGR25 1W
ELCA2547

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

5-5 3/8 (1661)
5-5 5/8 (1667)
5-5 1/8 (1654)



ELALDGR3765 / ELCA3347 E

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

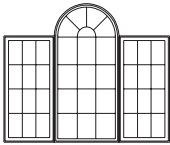
(1051)
3-5 3/8 (1057)
3-5 5/8 (1045)



ELALDGR37 1W
ELAWN3723

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

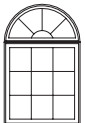
6-5 3/8 (1965)
6-5 5/8 (1972)
6-5 1/8 (1959)



ELALDGR3777 / ELCA2959 E

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

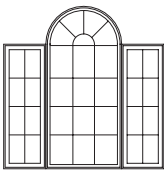
4-9 3/8 (1457)
4-9 5/8 (1464)
4-9 1/8 (1451)



ELALDGR37 1W
ELAWN3739

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

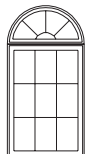
6-5 3/8 (1965)
6-5 5/8 (1972)
6-5 1/8 (1959)



ELALDGR3777 / ELCA2159

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

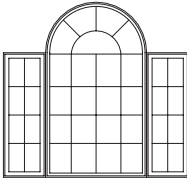
(1610)
5-3 3/8 (1616)
5-3 1/8 (1603)



ELALDGR33 1W
ELCA3347 E

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

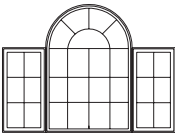
6-11 3/8 (2118)
6-11 5/8 (2124)
6-11 1/8 (2111)



ELALDGR4983 / ELCA2159

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

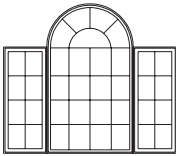
5-11 3/8 (1813)
5-11 5/8 (1819)
5-11 1/8 (1807)



ELALDGR4971 / ELCA2547

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

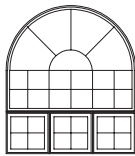
6-11 3/8 (2118)
6-11 5/8 (2124)
6-11 1/8 (2111)



ELALDGR4983 / ELCA2559

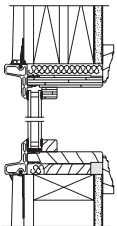
MO (mm)	6-0 1/2 (1842)
RO (mm)	6-1 (1854)
FS (mm)	6-0 (1829)

6-10 1/2 (2096)
6-10 3/4 (2102)
6-10 1/4 (2089)



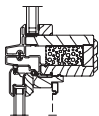
ELALDGR7359
ELAWN2523 3W

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.

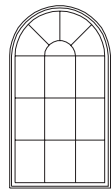
ALUMINUM DIRECT GLAZE ROUND TOPS

Casement Frame Type

True Half above Springline (RT2)

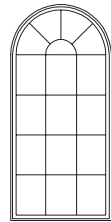
MO (mm)	3-0 1/2 (927)
RO (mm)	3-1 (940)
FS (mm)	3-0 (914)

5-5 3/8 (1661)
5-5 5/8 (1667)
5-5 1/8 (1654)



SPLN 47ELCA
ELALDGR3765

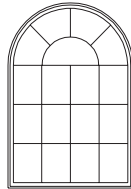
6-5 3/8 (1965)
6-5 5/8 (1972)
6-5 1/8 (1959)



SPLN 59ELCA
ELALDGR3777

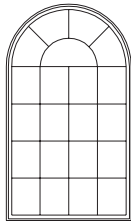
MO (mm)	4-0 1/2 (1232)
RO (mm)	4-1 (1245)
FS (mm)	4-0 (1219)

5-11 3/8 (1813)
5-11 5/8 (1819)
5-11 1/8 (1807)



SPLN 47ELCA
ELALDGR4971

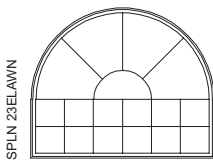
6-11 3/8 (2118)
6-11 5/8 (2124)
6-11 1/8 (2111)



SPLN 59ELCA
ELALDGR4983

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

4-11 3/8 (1508)
4-11 5/8 (1514)
4-11 1/8 (1502)



SPLN 23ELAWN
ELALDGR7359

Eyebeam above Springline (RT6)

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

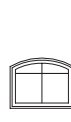
1-6 3/16 (462)
1-6 7/16 (468)
1-5 15/16 (456)



SPLN 16ELCATR
ELALDGR2118

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

1-7 1/4 (488)
1-7 1/2 (495)
1-7 (482)



SPLN 16ELCATR
ELALDGR2519

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

1-8 1/2 (621)
1-8 3/4 (628)
1-8 1/4 (615)



SPLN 16ELCATR
ELALDGR2920

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

1-8 5/8 (624)
1-8 7/8 (630)
1-8 3/8 (618)



SPLN 16ELCATR
ELALDGR3320

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

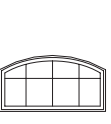
1-10 (559)
1-10 1/4 (565)
1-9 3/4 (552)



SPLN 16ELCATR
ELALDGR3722

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

1-9 3/8 (543)
1-9 5/8 (549)
1-9 1/8 (537)



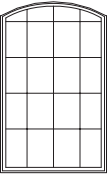
SPLN 16ELCATR
ELALDGR4121

2-4 3/4 (730)
2-5 (737)
2-4 1/2 (724)



SPLN 23ELAWN
ELALDGR4128

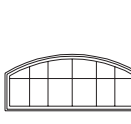
5-4 3/4 (1645)
5-5 (1651)
5-4 1/4 (1638)



SPLN 59ELCA
ELALDGR4164

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

1-9 5/8 (549)
1-9 7/8 (556)
1-9 3/8 (543)



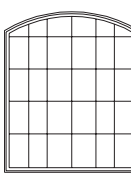
SPLN 16ELCATR
ELALDGR4921

2-5 (737)
2-5 1/4 (743)
2-4 3/4 (730)



SPLN 23ELAWN
ELALDGR4929

5-5 (1651)
5-5 1/4 (1657)
5-4 3/4 (1645)



SPLN 59ELCA
ELALDGR4965

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

1-11 13/16 (605)
2-0 1/16 (611)
1-11 9/16 (598)



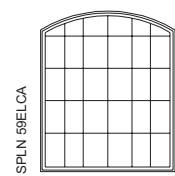
SPLN 16ELCATR
ELALDGR5724

2-7 3/16 (793)
2-7 7/16 (799)
2-6 15/16 (786)



SPLN 23ELAWN
ELALDGR5731

5-7 3/16 (1707)
5-7 7/16 (1713)
5-6 15/16 (1700)



SPLN 59ELCA
ELALDGR5767

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

1-11 1/2 (597)
1-11 3/4 (603)
1-11 1/4 (591)



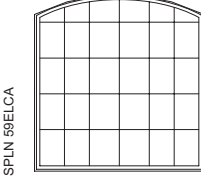
SPLN 16ELCATR
ELALDGR6523

2-6 7/8 (784)
2-7 1/8 (791)
2-6 5/8 (778)



SPLN 23ELAWN
ELALDGR6531

5-6 7/8 (1699)
5-7 1/8 (1705)
5-6 5/8 (1692)

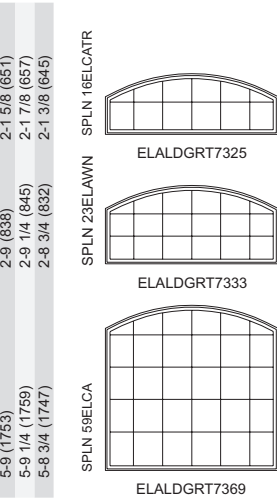


SPLN 59ELCA
ELALDGR6567

Casement Frame Type

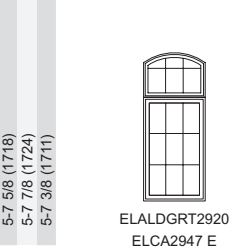
Eyebrow above Springline (RT6)

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



Multiple Assemblies

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

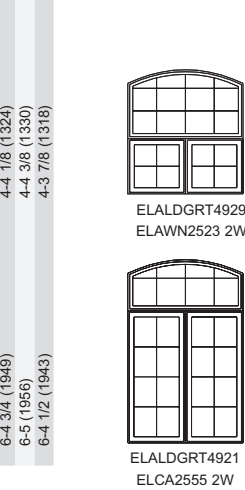


MO (mm)	2-8 1/2 (826)
RO (mm)	2-9 (838)
FS (mm)	2-8 (813)

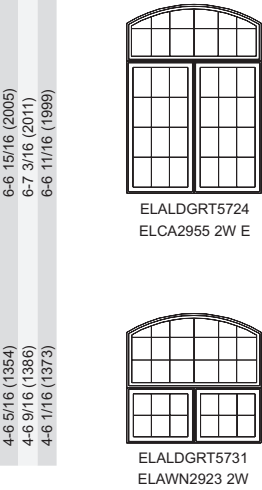


Multiple Assemblies

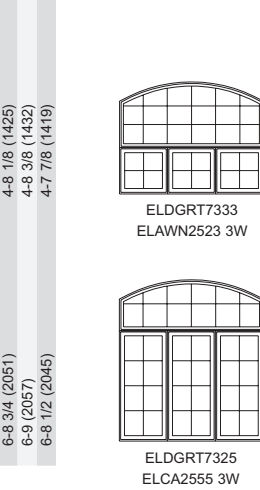
MO (mm)	4-0 1/2 (1232)
RO (mm)	4-1 (1245)
FS (mm)	4-0 (1219)



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



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



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

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

Not to scale. Optional Round Top SDL and SDL with Spacer Bar are available in standard cut shown above. GBG patterns shown on page 46. (Round Top divided lites not available in other lite cuts)

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

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

MULTIPLE ASSEMBLIES

Units may be factory 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.

Casement Frame Type

Eyebrow above Springline (RT6)

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

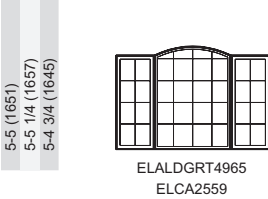


Multiple Assemblies

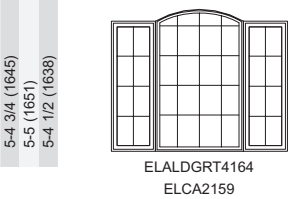
MO (mm)	9-0 1/2 (2756)
RO (mm)	9-1 (2769)
FS (mm)	9-0 (2743)



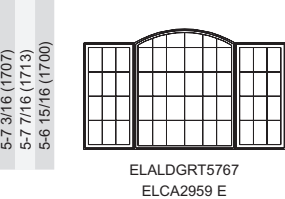
MO (mm)	8-0 1/2 (2451)
RO (mm)	8-1 (2464)
FS (mm)	8-0 (2438)



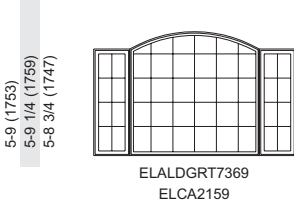
MO (mm)	6-8 1/2 (2045)
RO (mm)	6-9 (2057)
FS (mm)	6-8 (2032)



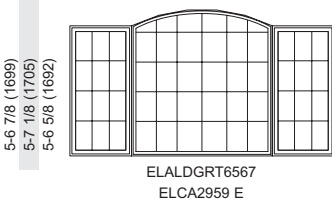
MO (mm)	9-4 1/2 (2858)
RO (mm)	9-5 (2870)
FS (mm)	9-4 (2845)



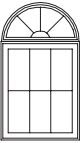
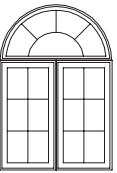
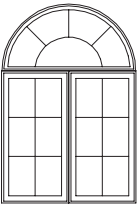
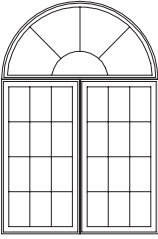
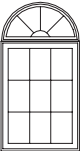
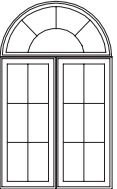
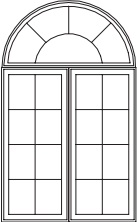
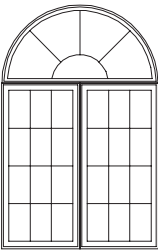
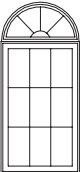
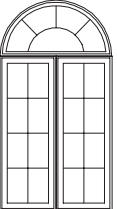
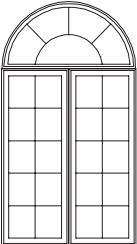
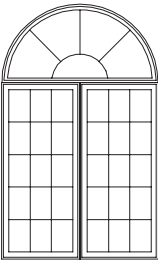
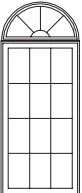
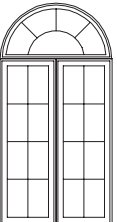
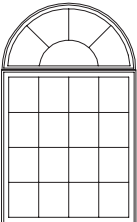
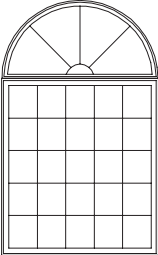
MO (mm)	9-4 1/2 (2858)
RO (mm)	9-5 (2870)
FS (mm)	9-4 (2845)



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

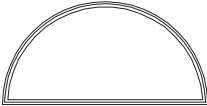
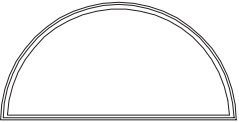


Casement Frame Type
Multiple Assemblies

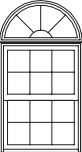
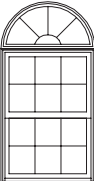
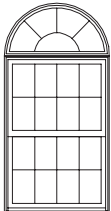
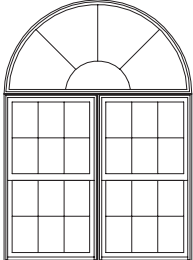
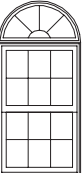
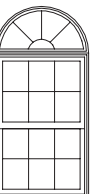
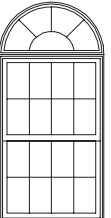
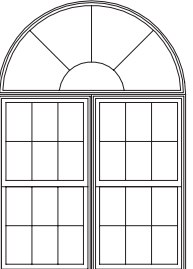
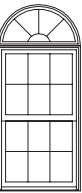
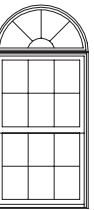
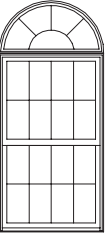
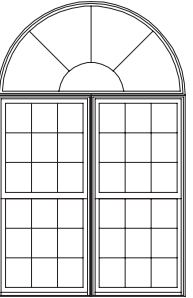
MO (mm)	2-4 1/2 (724)	MO (mm)	3-4 1/2 (1029)	MO (mm)	4-0 1/2 (1232)	MO (mm)	4-8 1/2 (1435)
RO (mm)	2-5 (737)	RO (mm)	3-5 (1041)	RO (mm)	4-1 (1245)	RO (mm)	4-9 (1448)
FS (mm)	2-4 (711)	FS (mm)	3-4 (1016)	FS (mm)	4-0 (1219)	FS (mm)	4-8 (1422)
4-1 3/8 (1254) 4-1 5/8 (1260) 4-1 7/8 (1248)		4-11 3/8 (1508) 4-11 5/8 (1514) 4-11 7/8 (1502)		5-11 3/8 (1813) 5-11 5/8 (1819) 5-11 7/8 (1807)		6-11 3/8 (2118) 6-11 5/8 (2124) 6-11 7/8 (2111)	
4-5 3/8 (1356) 4-5 5/8 (1362) 4-5 7/8 (1349)		5-7 3/8 (1711) 5-7 5/8 (1718) 5-7 7/8 (1705)		6-7 3/8 (2016) 6-7 5/8 (2022) 6-7 7/8 (2010)		7-3 3/8 (2219) 7-3 5/8 (2226) 7-3 7/8 (2213)	
5-1 3/8 (1559) 5-1 5/8 (1565) 5-1 7/8 (1553)		6-3 3/8 (1915) 6-3 5/8 (1921) 6-3 7/8 (1908)		7-3 3/8 (2219) 7-3 5/8 (2226) 7-3 7/8 (2213)		7-7 3/8 (2321) 7-7 5/8 (2327) 7-7 7/8 (2315)	
5-9 3/8 (1762) 5-9 5/8 (1768) 5-9 7/8 (1756)		6-7 3/8 (2016) 6-7 5/8 (2022) 6-7 7/8 (2010)		6-7 3/8 (2016) 6-7 5/8 (2022) 6-7 7/8 (2010)		7-7 3/8 (2321) 7-7 5/8 (2327) 7-7 7/8 (2315)	

ALUMINUM DIRECT GLAZE ROUND TOPS

Double Hung Frame Type
True Half (RT1)

MO (mm)	2-6 (762)	MO (mm)	2-10 (864)	MO (mm)	3-2 (965)	MO (mm)	5-7 1/2 (1715)	MO (mm)	5-11 1/2 (1816)
RO (mm)	2-6 1/2 (775)	RO (mm)	2-10 1/2 (876)	RO (mm)	3-2 1/2 (978)	RO (mm)	5-8 (1727)	RO (mm)	6-0 (1829)
FS (mm)	2-5 1/2 (749)	FS (mm)	2-9 1/2 (851)	FS (mm)	3-1 1/2 (953)	FS (mm)	5-7 (1702)	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 (914) 2-11 1/2 (902)	

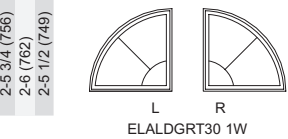
Multiple Assemblies

MO (mm)	2-6 (762)	MO (mm)	2-10 (864)	MO (mm)	3-2 (965)	MO (mm)	5-7 1/2 (1715)
RO (mm)	2-6 1/2 (775)	RO (mm)	2-10 1/2 (876)	RO (mm)	3-2 1/2 (978)	RO (mm)	5-8 (1727)
FS (mm)	2-5 1/2 (749)	FS (mm)	2-9 1/2 (851)	FS (mm)	3-1 1/2 (953)	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 (2680) 8-9 3/4 (2686) 8-9 1/4 (2673)	

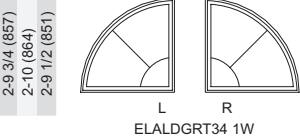
Details and Elevations not to scale.
E = These windows meet National Egress Codes for fire evacuation.
Local codes may differ.
When ordering 6 9/16" (167 mm) jambs, add 1/4" (6 mm) to width and 1/8" (3 mm) to height for Rough Opening, Frame Size and Masonry Opening.
Optional Round Top SDL, SDL with Spacer Bar and GBG are available in a standard cut, as shown on page 35. (Round Top divided lites not available in other lite cuts.)
Optional Double Hung GBGs and SDLs are available in several lite cut variations, standard Rectangular cut shown.
For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

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)



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)



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



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)



MO (mm)	2-7 1/2 (800)
RO (mm)	2-8 (813)
FS (mm)	2-7 (787)

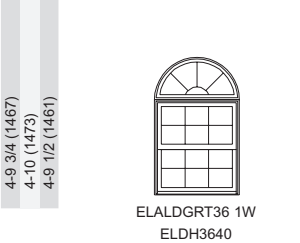


Multiple Assemblies

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



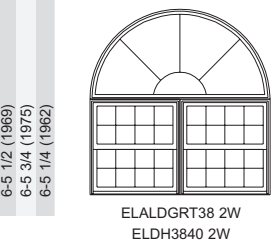
MO (mm)	3-0 (914)
RO (mm)	3-0 1/2 (927)
FS (mm)	2-11 1/2 (902)



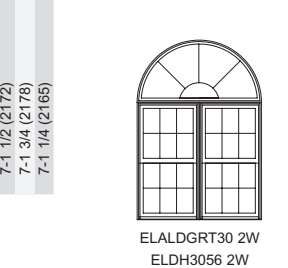
MO (mm)	3-6 (1067)
RO (mm)	3-6 1/2 (1080)
FS (mm)	3-5 1/2 (1054)



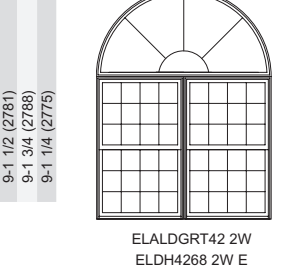
MO (mm)	6-3 1/2 (1918)
RO (mm)	6-4 (1930)
FS (mm)	6-3 (1905)



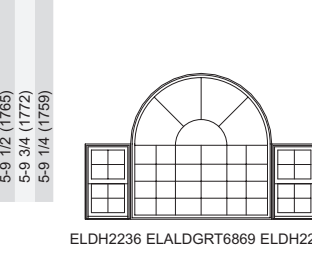
MO (mm)	4-11 1/2 (1511)
RO (mm)	5-0 (1524)
FS (mm)	4-11 (1499)



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)



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.

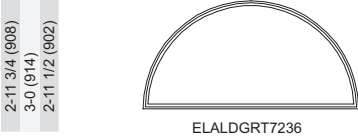
MULTIPLE ASSEMBLIES

Units may be factory 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.

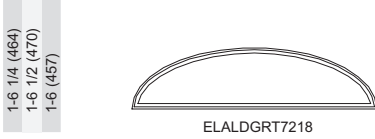
MAXIMUM ROUGH OPENING 113 1/2" (2883 mm) wide x 91 9/16" (2313 mm) high or 85" (2159 mm) wide x 107 9/16" (2732 mm) high. Quarter Round shapes require a Casement with a continuous head jamb.

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)

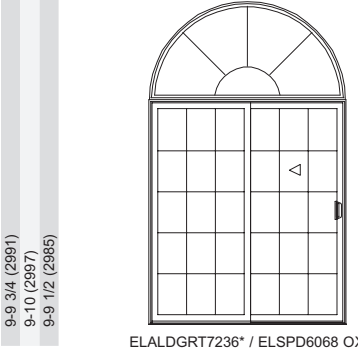
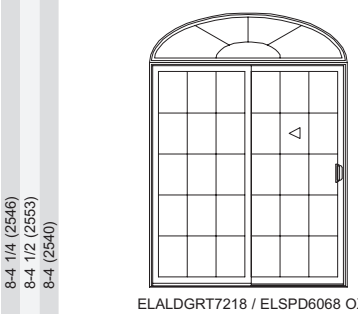


MO (mm)	5-11 1/2 (1816)
RO (mm)	6-0 (1829)
FS (mm)	5-11 (1803)



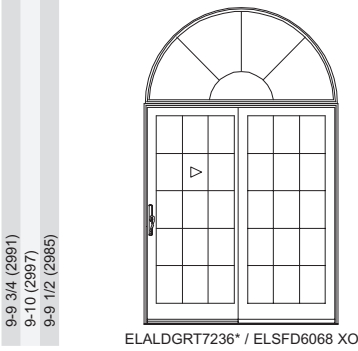
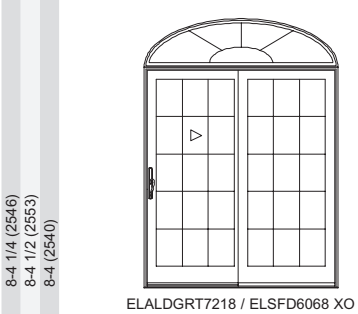
Multiple Assemblies
Sliding Patio Doors

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



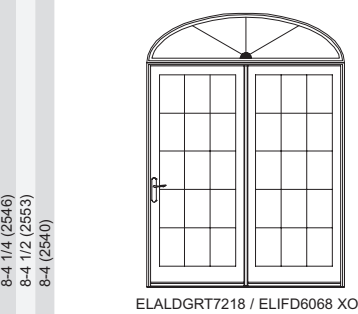
Sliding French Doors

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

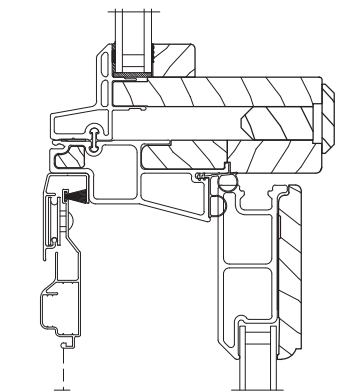


Inswing French Doors

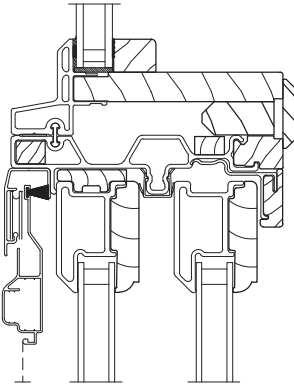
MO (mm)	5-11 1/2 (1816)
RO (mm)	6-0 (1829)
FS (mm)	5-11 (1803)



Horizontal Mullion Details



Round Top Over
Inswing French Door



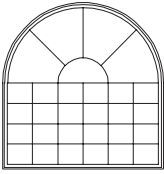
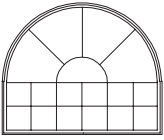
Round Top Over
Sliding Patio Door

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

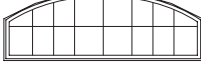
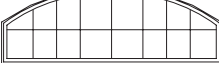
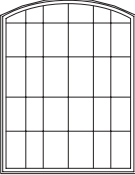
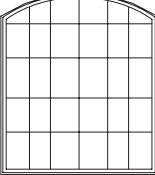
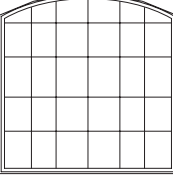
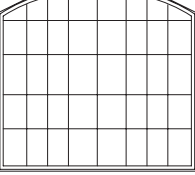
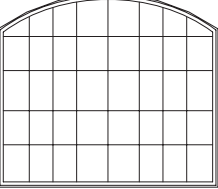
MULTIPLE ASSEMBLIES

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

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 (1765)		4-10 7/8 (1495)	
5-9 3/4 (1772)		4-11 1/8 (1502)	
5-9 1/4 (1759)		4-10 5/8 (1489)	
SPLN 36ELDH	ELALDGRT6869		ELALDGRT7259

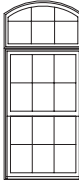
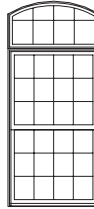
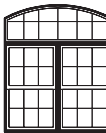
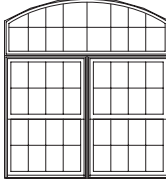
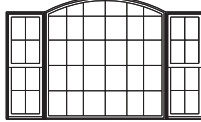
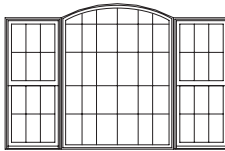
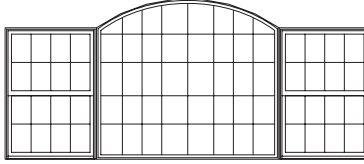
Eyebrow above Springline (RT6)

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)		1-9 1/8 (536)		1-9 1/8 (536)		1-9 13/16 (554)	
1-7 15/16 (506)		1-9 3/8 (542)		1-9 3/8 (542)		1-10 1/16 (560)	
1-7 7/16 (494)		1-8 7/8 (529)		1-8 7/8 (529)		1-9 9/16 (548)	
SPLN 16ELDHTR	ELALDGRT2619	SPLN 16ELDHTR	ELALDGRT3021	SPLN 16ELDHTR	ELALDGRT3421	SPLN 16ELDHTR	ELALDGRT3622
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 (525)		1-9 13/16 (554)		1-10 3/8 (569)		2-0 3/4 (529)	
1-8 7/8 (531)		1-10 1/16 (560)		1-10 5/8 (575)		2-1 (536)	
1-8 3/8 (518)		1-9 9/16 (548)		1-10 1/8 (563)		2-0 1/2 (523)	
SPLN 16ELDHTR	ELALDGRT3820	SPLN 16ELDHTR	ELALDGRT4222	SPLN 16ELDHTR	ELALDGRT5222	SPLN 16ELDHTR	ELALDGRT6025
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)		2-1 3/8 (645)		2-2 1/2 (674)		2-5 1/8 (741)	
2-0 1/2 (622)		2-1 5/8 (651)		2-2 3/4 (680)		2-5 3/8 (747)	
2-0 (610)		2-1 1/8 (638)		2-2 1/4 (668)		2-4 7/8 (734)	
SPLN 16ELDHTR	ELALDGRT6824	SPLN 16ELDHTR	ELALDGRT7225	SPLN 16ELDHTR	ELALDGRT7626	SPLN 16ELDHTR	ELALDGRT8429
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)		5-8 3/4 (1747)		5-8 1/4 (1734)		5-10 1/2 (1791)	
5-6 5/8 (1693)		5-9 (1753)		5-8 1/2 (1741)		5-10 3/4 (1798)	
5-6 1/8 (1680)		5-8 1/2 (1741)		5-8 (1728)		5-10 1/4 (1785)	
SPLN 60ELDH	ELALDGRT5266	SPLN 60ELDH	ELALDGRT6069	SPLN 60ELDH	ELALDGRT6868	SPLN 60ELDH	ELALDGRT7670
MO (mm)	6-11 1/2 (2121)						
RO (mm)	7-0 (2134)						
FS (mm)	6-11 (2108)						
6-1 1/8 (1858)							
6-1 3/8 (1865)							
6-0 7/8 (1852)							
SPLN 60ELDH	ELALDGRT8473						

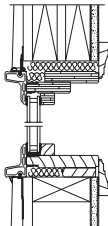
E = These windows meet National Egress Codes for fire evacuation. Local codes may differ.
Not to scale. Optional Round Top SDL and SDL with Spacer Bar are available in standard cut shown above. GBG patterns shown on page 46. (Round Top divided lites not available in other lite cuts)
Optional Casement 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

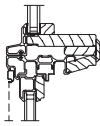
MO (mm)	3-0 (914)	MO (mm)	3-6 (1067)	MO (mm)	5-7 1/2 (1715)	MO (mm)	6-3 1/2 (1918)
RO (mm)	3-0 1/2 (927)	RO (mm)	3-6 1/2 (1080)	RO (mm)	5-8 (1727)	RO (mm)	6-4 (1930)
FS (mm)	2-11 1/2 (902)	FS (mm)	3-5 1/2 (1054)	FS (mm)	5-7 (1702)	FS (mm)	6-3 (1905)
6-9 9/16 (2072)		7-9 9/16 (2376)		6-8 (2032)		6-10 (2083)	
6-9 13/16 (2078)		7-9 13/16 (2383)		6-8 1/4 (2038)		6-10 1/4 (2089)	
6-9 5/16 (2065)		7-9 5/16 (2370)		6-7 3/4 (2026)		6-9 3/4 (2076)	
ELALDGRT3622	ELDH3660 E	ELALDGRT4222	ELDH4272 E	ELALDGRT6824	ELDH3456 2W	ELALDGRT7626	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)		5-8 1/4 (1734)		6-1 1/8 (1857)			
5-6 5/8 (1692)		5-8 1/2 (1740)		6-1 3/8 (1864)			
5-6 1/8 (1680)		5-8 (1727)		6-0 7/8 (1851)			
ELALDGRT5266	ELDH2660	ELALDGRT6868	ELDH2260	ELALDGRT8473T	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 (537)							
1-9 3/8 (543)							
1-8 7/8 (530)							
ELALDGRT3021	ELDHT2216						

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.

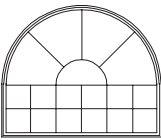
Double Hung/Door Frame Type
Half Round above Springline (RT2)

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

4-10 7/8 (1495)

4-11 1/8 (1502)

4-10 5/8 (1489)



ELALDGRT7259

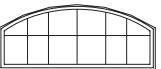
Eyebrow above Springline (RT6)

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

2-0 3/4 (629)

2-1 (636)

2-0 1/2 (623)

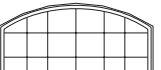


ELALDGRT6025

2-8 1/8 (817)

2-8 3/8 (823)

2-7 7/8 (810)

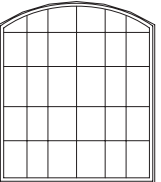


ELALDGRT6032

5-8 3/4 (1747)

5-9 (1753)

5-8 1/2 (1740)



ELALDGRT6069

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

2-1 3/8 (645)

2-1 5/8 (651)

2-1 1/8 (638)



ELALDGRT7225

2-8 (832)

2-9 (836)

2-8 1/2 (826)

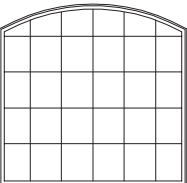


ELALDGRT7233

5-8 3/4 (1746)

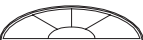
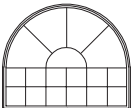
5-9 (1753)

5-8 1/2 (1740)

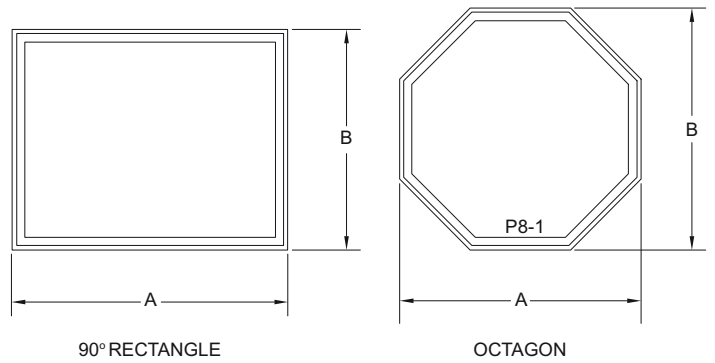
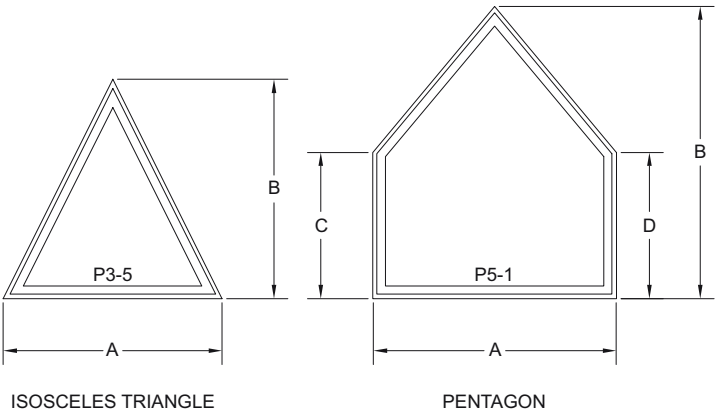
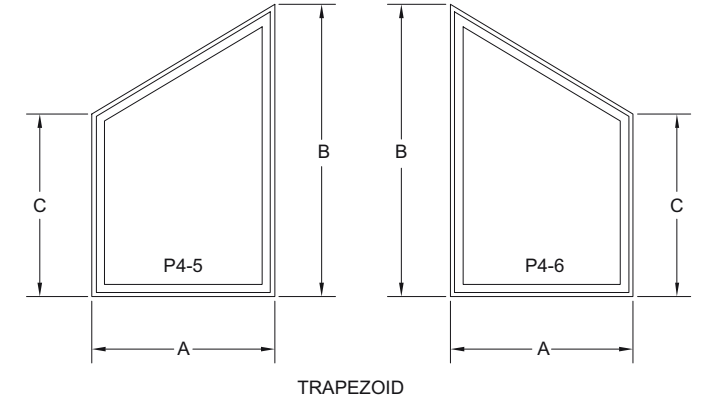
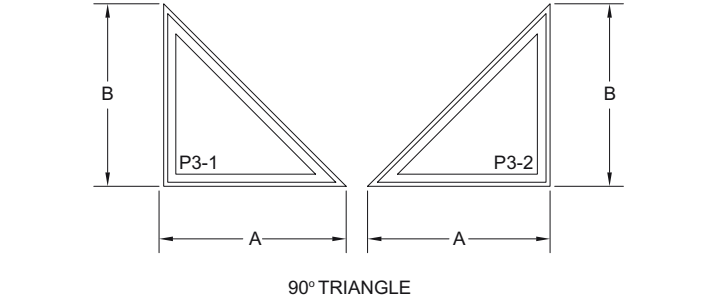


ELALDGRT7269

Lite Patterns

SDL	Open Hub						
GBG	Open Hub						Not Available
GBG	Closed Hub						Not Available

DIRECT GLAZE SPECIALTY SHAPES - POLYGONS



HOW TO SPECIFY

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

EXAMPLE

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

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

SPECIFICATION NOTES

Maximum frame long dimension: 109" (2767)
Maximum frame short dimension at 109" (2767) long dimension: 64 3/4" (1645)
Tripane maximum frame long dimension: 102 13/16" (2611)
Tripane maximum frame short dimension at 102 13/16" (2611) long dimension: 61 13/16" (1570)
Minimum unit frame dimensions: 12 7/8" (327) x 12 7/8" (327)
Minimum P8-1 RO size: 19 1/8" (486) x 19 1/8" (486)
Minimum frame short dimension for P4-5, P4-6, P5-1: 7 1/2" (191)
Maximum frame square footage: 49 ft². All shapes shall be defined by the enclosed rectangle.
Tripane maximum frame square footage: 44.160 ft². All shapes shall be defined by the enclosed rectangle.
The minimum frame angle is 15 degrees (3.22/12 pitch).

MULTIPLE ASSEMBLIES - RECTANGLES ONLY

Multiple assemblies of rectangles only can be factory mulled:

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.

T = Standard Tempered

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

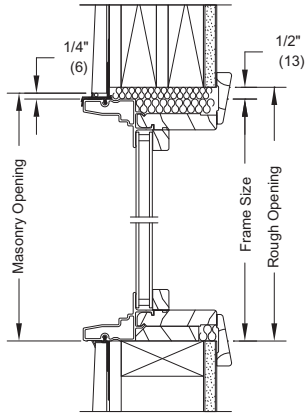
Not to scale. Optional Round Top SDL and SDL with Spacer Bar are available in standard cut shown above. GBG patterns shown above. (Round Top divided lites not available in other lite cuts) Optional Casement and Double Hung GBGs and SDLs are available in several lite variations, standard Rectangular cut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

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

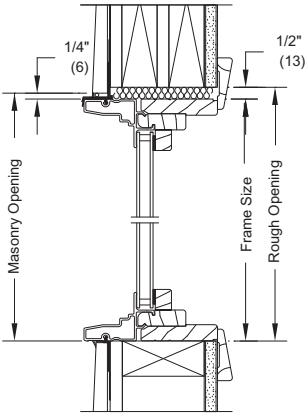
For more information, please contact your Marvin representative.

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

Construction Details

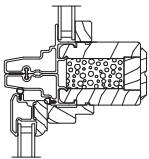


Direct Glaze Casement
Frame Type
Head Jamb and Sill

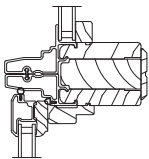


Direct Glaze Double Hung/Door
Frame Type
Head Jamb and Sill

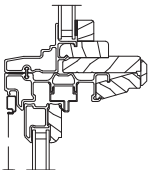
Mullion Details



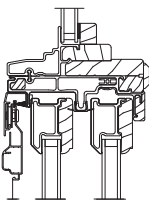
Direct Glaze
Over Casement/Awning



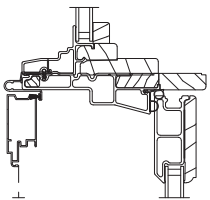
Direct Glaze
Over Casement/Awning
with Structural Mull
Reinforcement Block*



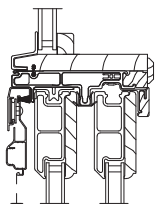
Direct Glaze
Over Double Hung



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

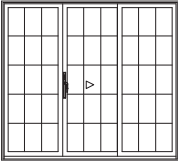
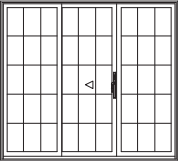
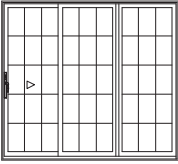
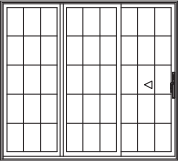
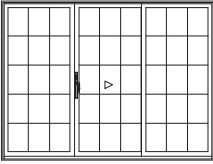
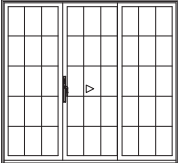
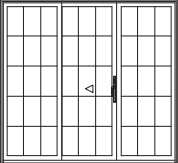
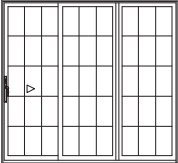
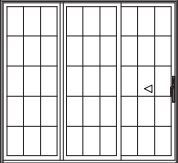
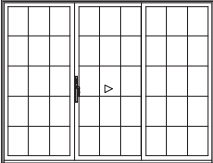
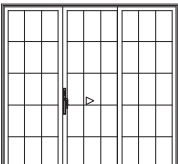
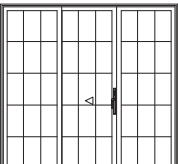
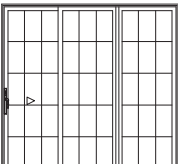
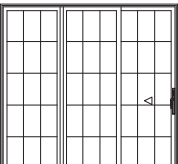
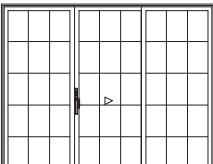
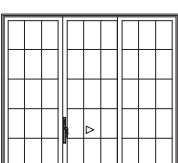
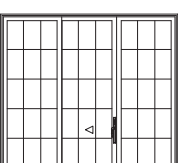
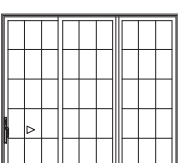
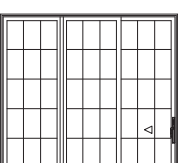
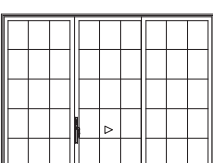
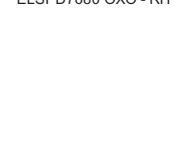
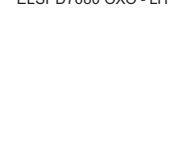
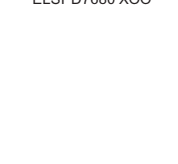
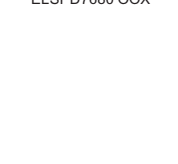
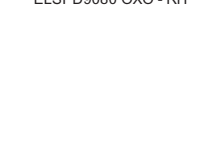
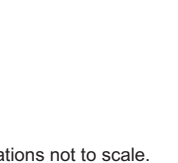
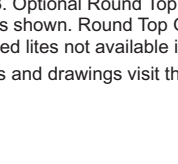
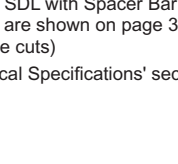
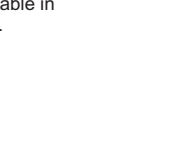
2 Panel

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)									
ELSPD5065 XO	ELSPD5065 OX	ELSPD6065 XO	ELSPD6065 OX	ELSPD8065 XO	ELSPD8065 OX	ELSPD5068 XO	ELSPD5068 OX	ELSPD6068 XO	ELSPD6068 OX
ELSPD5070 XO	ELSPD5070 OX	ELSPD6070 XO	ELSPD6070 OX	ELSPD8070 XO	ELSPD8070 OX	ELSPD5080 XO	ELSPD5080 OX	ELSPD6080 XO	ELSPD6080 OX
ELSPD5080 XO	ELSPD5080 OX	ELSPD6080 XO	ELSPD6080 OX	ELSPD8080 XO	ELSPD8080 OX	ELSPD5080 XO	ELSPD5080 OX	ELSPD6080 XO	ELSPD6080 OX

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)	ELSPD7665 OXO - RH	ELSPD7665 OXO - LH	ELSPD7665 XOO	ELSPD7665 OOX	ELSPD9065 OXO - RH
6-7 1/2 (2019)					
6-0 1/32 (1803)	ELSPD7668 OXO - RH	ELSPD7668 OXO - LH	ELSPD7668 XOO	ELSPD7668 OOX	ELSPD9068 OXO - RH
6-10 1/4 (2089)					
6-10 1/2 (2096)	ELSPD7670 OXO - RH	ELSPD7670 OXO - LH	ELSPD7670 XOO	ELSPD7670 OOX	ELSPD9070 OXO - RH
6-10 (2083)					
6-2 17/32 (1893)	ELSPD7680 OXO - RH	ELSPD7680 OXO - LH	ELSPD7680 XOO	ELSPD7680 OOX	ELSPD9080 OXO - RH
7-2 1/4 (2191)					
7-2 1/2 (2197)	ELSPD7680 OXO - RH	ELSPD7680 OXO - LH	ELSPD7680 XOO	ELSPD7680 OOX	ELSPD9080 OXO - RH
7-2 (2184)					
6-6 17/32 (1995)	ELSPD7680 OXO - RH	ELSPD7680 OXO - LH	ELSPD7680 XOO	ELSPD7680 OOX	ELSPD9080 OXO - RH
7-11 3/4 (2432)					
8-0 (2436)	ELSPD7680 OXO - RH	ELSPD7680 OXO - LH	ELSPD7680 XOO	ELSPD7680 OOX	ELSPD9080 OXO - RH
7-11 1/2 (2426)					
7-4 1/32 (2236)	ELSPD7680 OXO - RH	ELSPD7680 OXO - LH	ELSPD7680 XOO	ELSPD7680 OOX	ELSPD9080 OXO - RH

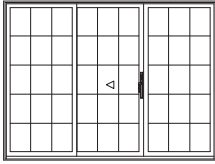
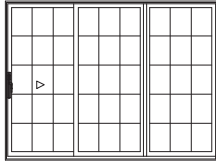
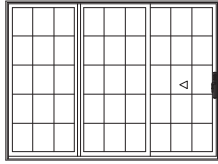
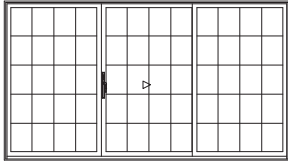
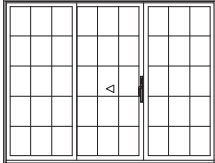
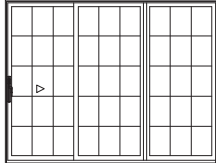
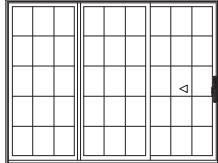
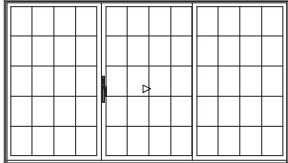
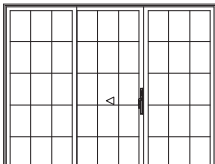
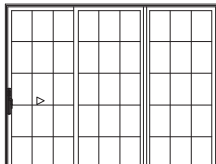
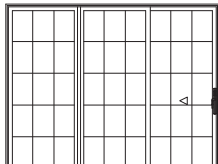
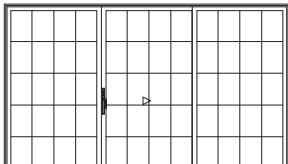
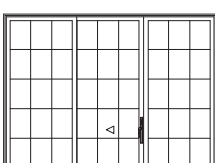
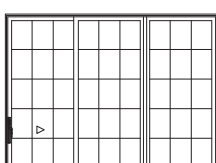
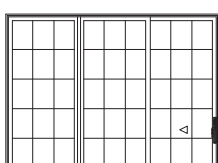
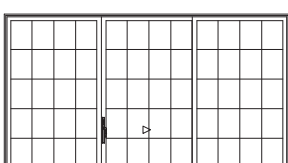
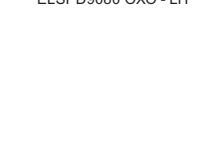
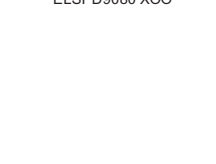
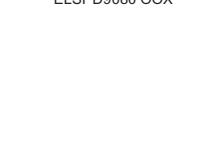
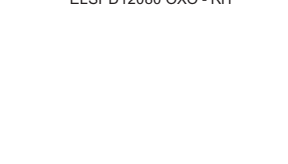
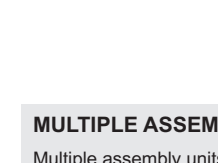
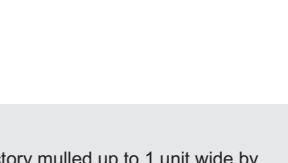
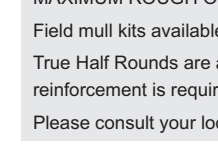
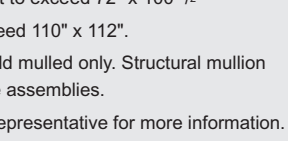
Details and Elevations not to scale.

Optional Direct Glaze GBGs and SDLs are available in a standard Rectangular cut, as shown. Alternate lite cuts available to align with doors using select lite cut options shown on page 3. Optional Round Top SDL and SDL with Spacer Bar are available in a standard cut, as shown. Round Top GBG cuts are shown on page 35 and 46. (Round Top divided lites not available in other lite cuts)

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

SLIDING PATIO DOOR

3 Panel

MO (mm)	8-11 (2718)			11-11 (3632)
RO (mm)	8-11 1/2 (2731)			11-11 1/2 (3645)
FS (mm)	8-10 1/2 (2705)			11-10 1/2 (3620)
DLO (mm)	2-7 (787)			3-7 (1092)
6-7 3/4 (2026)				
6-8 (2032)	ELSPD9065 OXO - LH	ELSPD9065 XOO	ELSPD9065 OOX	ELSPD12065 OXO - RH
6-7 1/2 (2019)				
6-0 1/32 (1803)	ELSPD9068 OXO - LH	ELSPD9068 XOO	ELSPD9068 OOX	ELSPD12068 OXO - RH
6-10 1/4 (2089)				
6-10 1/2 (2096)	ELSPD9070 OXO - LH	ELSPD9070 XOO	ELSPD9070 OOX	ELSPD12070 OXO - RH
6-10 (2083)				
6-2 17/32 (1893)	ELSPD9080 OXO - LH	ELSPD9080 XOO	ELSPD9080 OOX	ELSPD12080 OXO - RH
7-2 1/4 (2191)				
7-2 1/2 (2197)	ELSPD9080 OXO - LH	ELSPD9080 XOO	ELSPD9080 OOX	ELSPD12080 OXO - RH
7-2 (2184)				
6-6 17/32 (1995)	ELSPD9080 OXO - LH	ELSPD9080 XOO	ELSPD9080 OOX	ELSPD12080 OXO - RH
7-11 3/4 (2432)				
8-0 (2436)	ELSPD9080 OXO - LH	ELSPD9080 XOO	ELSPD9080 OOX	ELSPD12080 OXO - RH
7-11 1/2 (2426)				
7-4 1/32 (2236)	ELSPD9080 OXO - LH	ELSPD9080 XOO	ELSPD9080 OOX	ELSPD12080 OXO - RH

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 (2436)			
7-11 1/2 (2426)			
7-4 1/32 (2236)			

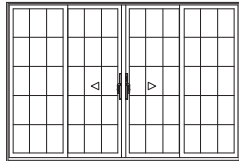
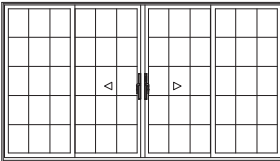
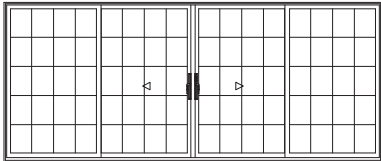
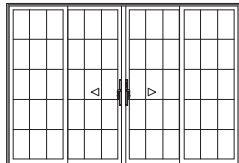
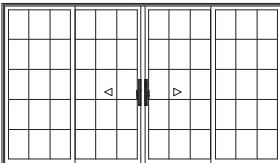
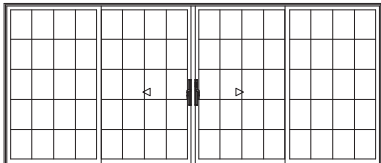
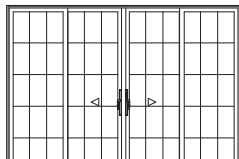
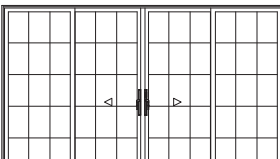
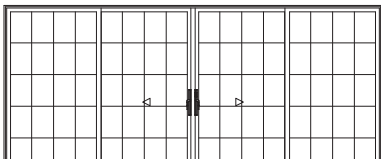
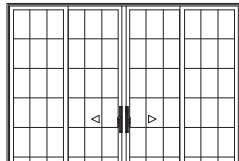
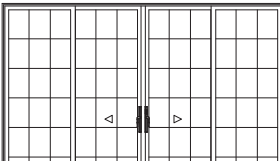
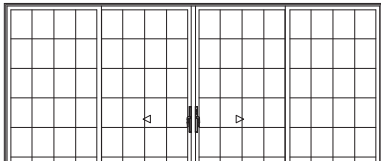
Details and Elevations not to scale.

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.

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 (2436)				
7-11 1/2 (2426)				
7-4 1/32 (2236)				
	ELSPD10065 OXXO	ELSPD12065 OXXO	ELSPD16065 OXXO	
	ELSPD10068 OXXO	ELSPD12068 OXXO	ELSPD16068 OXXO	
	ELSPD10070 OXXO	ELSPD12070 OXXO	ELSPD16070 OXXO	
	ELSPD10080 OXXO	ELSPD12080 OXXO	ELSPD16080 OXXO	

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".

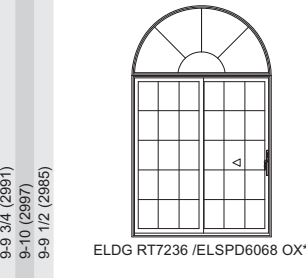
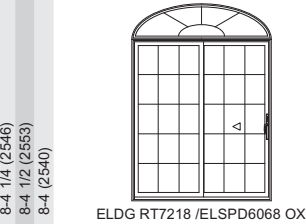
True Half Rounds are available field mulled only. Structural mullion reinforcement is required for some assemblies.

Please consult your local Marvin representative for more information.

SLIDING PATIO DOOR

Round Top Over Sliding Patio Door

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



Details and Elevations not to scale.

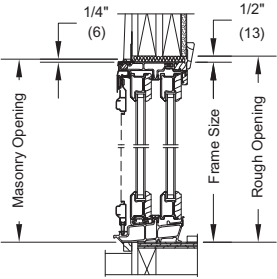
Optional Direct Glaze GBGs and SDLs are available in a standard Rectangular cut, as shown. Alternate lite cuts available to align with doors using select lite cut options shown on page 3. Optional Round Top SDL and SDL with Spacer Bar are available in a standard cut, as shown. Round Top GBG cuts are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

* This product is only available field mulled.

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

SLIDING PATIO DOOR

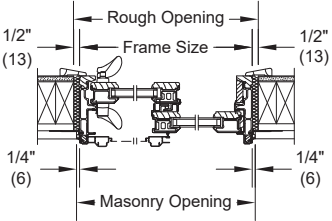
Construction Details



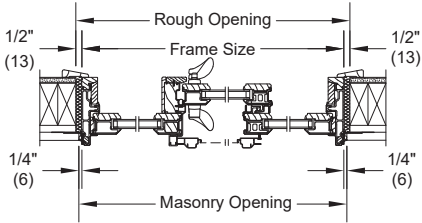
Head Jamb and Sill



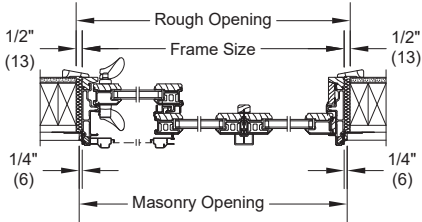
Direct Glaze
Over Sliding Patio Door



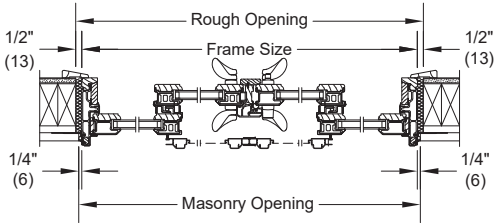
2 Panel XO Operator Jamb



3 Panel OXO Operator Jamb



3 Panel XOO Operator Jamb



4 Panel OXXO Operator Jamb

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.

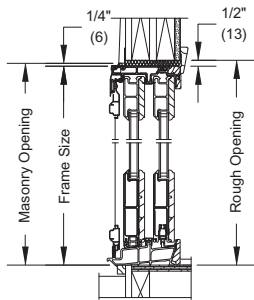
2 Panel

MO (mm)	4-11 1/2 (1511)		5-11 1/2 (1816)		7-11 1/2 (2426)	
	RO (mm)		6-0 (1829)		8-0 (2438)	
	FS (mm)		5-11 (1803)		7-11 (2413)	
	DLO (mm)		2-4 3/8 (721)		3-4 3/8 (1026)	
6-7 3/4 (2026)						
6-8 (2032)	ELSFD5065 XO	ELSFD5065 OX	ELSFD6065 XO	ELSFD6065 OX	ELSFD8065 XO	ELSFD8065 OX
6-7 1/2 (2019)						
5-7 3/32 (1704)	ELSFD5068 XO	ELSFD5068 OX	ELSFD6068 XO	ELSFD6068 OX	ELSFD8068 XO	ELSFD8068 OX
6-10 1/4 (2089)						
6-10 1/2 (2096)	ELSFD5070 XO	ELSFD5070 OX	ELSFD6070 XO	ELSFD6070 OX	ELSFD8070 XO	ELSFD8070 OX
6-10 (2083)						
5-9 19/32 (1768)	ELSFD5080 XO	ELSFD5080 OX	ELSFD6080 XO	ELSFD6080 OX	ELSFD8080 XO	ELSFD8080 OX
7-2 1/4 (2191)						
7-2 1/2 (2197)	ELSFD5070 XO	ELSFD5070 OX	ELSFD6070 XO	ELSFD6070 OX	ELSFD8070 XO	ELSFD8070 OX
7-2 (2184)						
6-1 19/32 (1869)	ELSFD5080 XO	ELSFD5080 OX	ELSFD6080 XO	ELSFD6080 OX	ELSFD8080 XO	ELSFD8080 OX
7-11 3/4 (2432)						
8-0 (2438)	ELSFD5080 XO	ELSFD5080 OX	ELSFD6080 XO	ELSFD6080 OX	ELSFD8080 XO	ELSFD8080 OX
7-11 1/2 (2426)						
6-11 3/32 (2111)	ELSFD5080 XO	ELSFD5080 OX	ELSFD6080 XO	ELSFD6080 OX	ELSFD8080 XO	ELSFD8080 OX

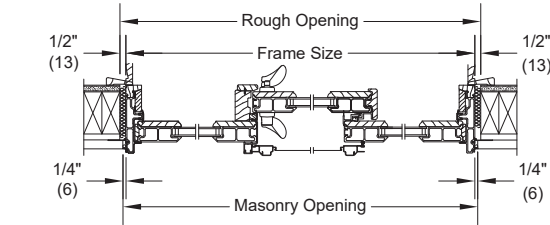
Round Top Over
Sliding French Door

MO (mm)	5-11 1/2 (1816)	
RO (mm)	6-0 (1829)	
FS (mm)	5-11 (1803)	
8-4 1/4 (2546) 8-4 1/2 (2553) 8-4 (2540)		
	ELDGR7218/ELSFD6068 XO	
9-9 3/4 (2891) 9-10 (2997) 9-9 1/2 (2885)		
	ELDGR7236/ELSFD6068 XO*	

Construction Details



Head Jamb and Sill

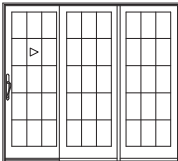
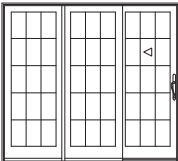
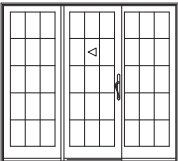
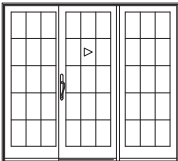
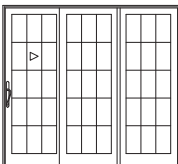
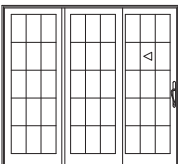
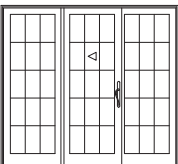
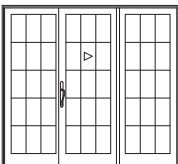
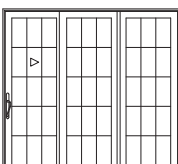
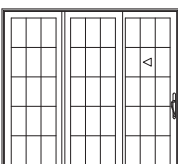
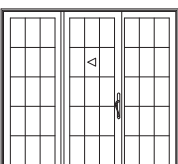
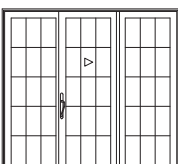
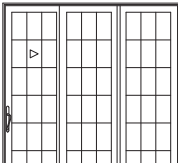
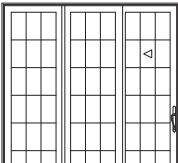
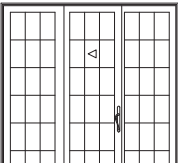
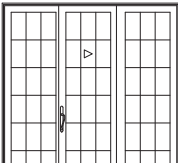


2 Panel Jamb - XO Operator

* This product is only available field mulled.

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

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

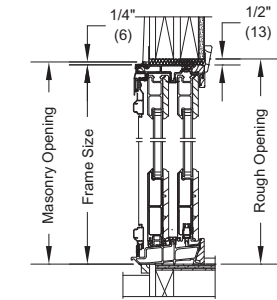
MULTIPLE ASSEMBLIES

Multiple assembly units can be factory 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 for up to 3 units wide by 2 units high 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.

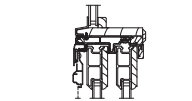
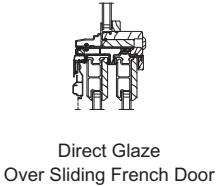
3 Panel

MO (mm)	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)				

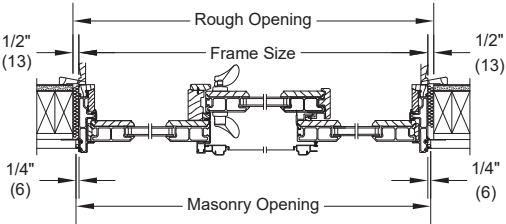
Construction Details



Head Jamb and Sill



Round Top Over Sliding French Door



3 Panel Jamb - OXO - RH Operator

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)				

Details and Elevations not to scale.
* This product is only available field mullied
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 mullied only. Structural mullion reinforcement is required for some assemblies.
Please consult your local Marvin representative for more information.

4 Panel

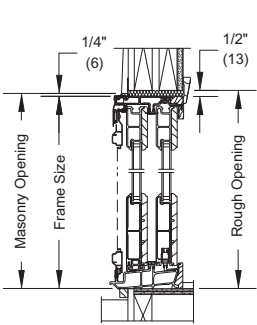
MO (mm)	9-9 1/2 (2985)	11-9 1/2 (3594)	15-9 1/2 (4813)
RO (mm)	9-10 (2997)	11-10 (3607)	15-10 (4826)
FS (mm)	9-9 (2972)	11-9 (3581)	15-9 (4801)
DLO (mm)	1-10 3/8 (568)	2-4 3/8 (721)	3-4 3/8 (1026)

6-7 3/4 (2026) 6-8 (2032) 6-7 1/2 (2019) 5-7 3/32 (1704)		ELSFD10065 OXXO
6-10 1/4 (2089) 6-10 1/2 (2096) 6-10 (2083) 5-9 19/32 (1768)		ELSFD10068 OXXO
7-2 1/4 (2191) 7-2 1/2 (2197) 7-2 (2184) 6-1 19/32 (1869)		ELSFD10070 OXXO
7-11 3/4 (2432) 8-0 (2438) 7-11 1/2 (2426) 6-11 3/32 (2111)		ELSFD10080 OXXO

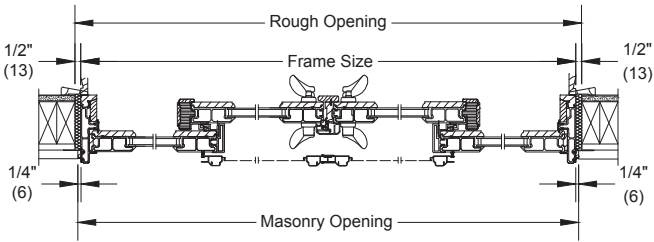
6-7 3/4 (2026) 6-8 (2032) 6-7 1/2 (2019) 5-7 3/32 (1704)		ELSFD12065 OXXO
6-10 1/4 (2089) 6-10 1/2 (2096) 6-10 (2083) 5-9 19/32 (1768)		ELSFD12068 OXXO
7-2 1/4 (2191) 7-2 1/2 (2197) 7-2 (2184) 6-1 19/32 (1869)		ELSFD12070 OXXO
7-11 3/4 (2432) 8-0 (2438) 7-11 1/2 (2426) 6-11 3/32 (2111)		ELSFD12080 OXXO

6-7 3/4 (2026) 6-8 (2032) 6-7 1/2 (2019) 5-7 3/32 (1704)		ELSFD16065 OXXO
6-10 1/4 (2089) 6-10 1/2 (2096) 6-10 (2083) 5-9 19/32 (1768)		ELSFD16068 OXXO
7-2 1/4 (2191) 7-2 1/2 (2197) 7-2 (2184) 6-1 19/32 (1869)		ELSFD16070 OXXO
7-11 3/4 (2432) 8-0 (2438) 7-11 1/2 (2426) 6-11 3/32 (2111)		ELSFD16080 OXXO

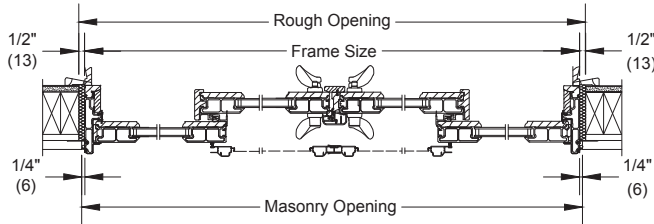
Construction Details



Head Jamb and Sill



4 Panel Jamb - OXXO Operator
Frame Heights over 86"



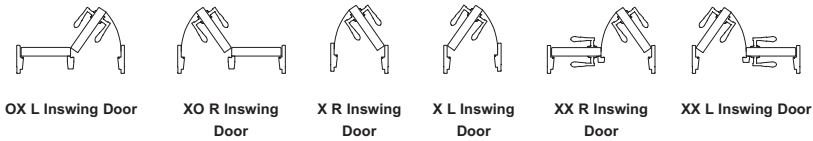
4 Panel Jamb - OXXO Operator
Frame Heights 86" or Less

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

6-7 3/4 (2026) 6-8 (2032) 6-7 1/2 (2019) 5-7 3/32 (1704)		ELIFD2665 O		ELIFD2665 X R		ELIFD2665 X L		ELIFD2865 O		ELIFD2865 X R		ELIFD2865 X L		ELIFD3065 O		ELIFD3065 X R		ELIFD3065 X L
6-10 1/4 (2089) 6-10 1/2 (2096) 6-10 (2083) 5-9 19/32 (1768)		ELIFD2668 O		ELIFD2668 X R		ELIFD2668 X L		ELIFD2868 O		ELIFD2868 X R		ELIFD2868 X L		ELIFD3068 O		ELIFD3068 X R		ELIFD3068 X L
7-2 1/4 (2191) 7-2 1/2 (2197) 7-2 (2184) 6-1 19/32 (1869)		ELIFD2670 O		ELIFD2670 X R		ELIFD2670 X L		ELIFD2870 O		ELIFD2870 X R		ELIFD2870 X L		ELIFD3070 O		ELIFD3070 X R		ELIFD3070 X L
7-11 3/4 (2432) 8-0 (2438) 7-11 1/2 (2426) 6-11 3/32 (2111)		ELIFD2680 O		ELIFD2680 X R		ELIFD2680 X L		ELIFD2880 O		ELIFD2880 X R		ELIFD2880 X L		ELIFD3080 O		ELIFD3080 X R		ELIFD3080 X L

Inswing Door Operation

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



Details and Elevations not to scale.
O = Stationary X = Operator
L = Left Hand Panel R = Right Hand Panel
For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

MULTIPLE ASSEMBLIES

Multiple assemblies can be factory 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 for up to 3 units wide by 2 units high 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.

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)							
	ELIFD5065 XO	ELIFD5065 XX	ELIFD5465 XO	ELIFD5465 XX	ELIFD6065 XO	ELIFD6065 XX	
	ELIFD5068 XO	ELIFD5068 XX	ELIFD5468 XO	ELIFD5468 XX	ELIFD6068 XO	ELIFD6068 XX	
6-10 1/4 (2089) 6-10 1/2 (2096) 6-10 (2083) 5-9 19/32 (1768)							
	ELIFD5070 XO	ELIFD5070 XX	ELIFD5470 XO	ELIFD5470 XX	ELIFD6070 XO	ELIFD6070 XX	
	ELIFD5080 XO	ELIFD5080 XX	ELIFD5480 XO	ELIFD5480 XX	ELIFD6080 XO	ELIFD6080 XX	
7-2 1/4 (2191) 7-2 1/2 (2197) 7-2 (2184) 6-1 19/32 (1869)							
	ELIFD5070 XO	ELIFD5070 XX	ELIFD5470 XO	ELIFD5470 XX	ELIFD6070 XO	ELIFD6070 XX	
	ELIFD5080 XO	ELIFD5080 XX	ELIFD5480 XO	ELIFD5480 XX	ELIFD6080 XO	ELIFD6080 XX	
7-11 3/4 (2432) 8-0 (2438) 7-11 1/2 (2426) 6-11 3/32 (2111)							
	ELIFD5080 XO	ELIFD5080 XX	ELIFD5480 XO	ELIFD5480 XX	ELIFD6080 XO	ELIFD6080 XX	
	ELIFD5080 XO	ELIFD5080 XX	ELIFD5480 XO	ELIFD5480 XX	ELIFD6080 XO	ELIFD6080 XX	

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.

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)
6-10 1/4 (2089) 6-10 1/2 (2096) 6-10 (2083)				
	ELIFD2668 / ELIFD5068 XO	ELIFD5068 OX / ELIFD2668	ELIFD2668 / ELIFD2668 / ELIFD2668	ELIFD2668 / ELIFD5068 XXL**
	ELIFD3068 / ELIFD6068 XO	ELIFD6068 OX / ELIFD3068	ELIFD3068 / ELIFD3068 / ELIFD3068	ELIFD3068 / ELIFD6068 XXL**
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)				
	ELIFD3068 / ELIFD6068 XO	ELIFD6068 OX / ELIFD3068	ELIFD3068 / ELIFD3068 / ELIFD3068	ELIFD3068 / ELIFD6068 XXL**
	ELIFD3068 / ELIFD6068 XO	ELIFD6068 OX / ELIFD3068	ELIFD3068 / ELIFD3068 / ELIFD3068	ELIFD3068 / ELIFD6068 XXL**

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)	
	ELDGRT7218 / ELIFD6068 XXL
	ELDGRT7236* / ELIFD6068 XXL

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.

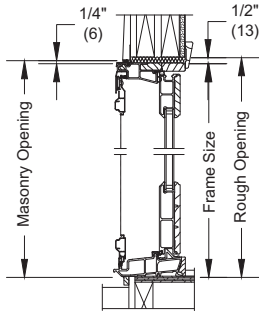
MAXIMUM ROUGH OPENING not to exceed 109 15/16" x 96" maximum up to 3 units wide by 1 unit high.

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

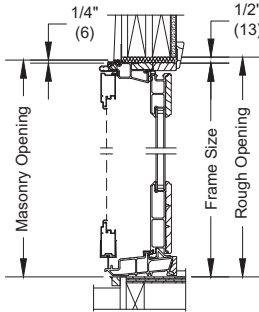
Field mull kits available not to exceed 110" x 112". True Half Rounds are available field mullled only. Structural mullion reinforcement is required for some assemblies.

Please consult your local Marvin representative for more information.

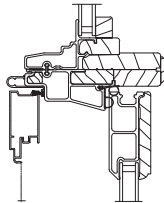
Construction Details



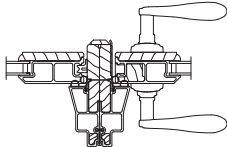
Head Jamb and Sill
with Sliding Screen



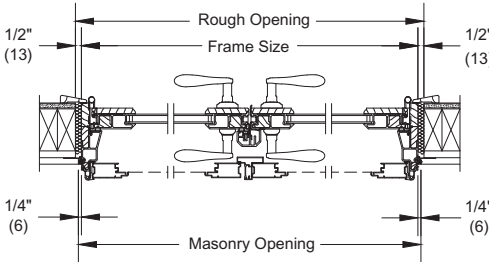
Head Jamb and Sill
with Swinging Screen



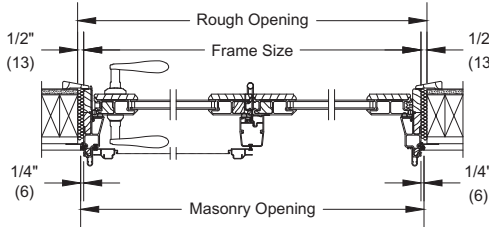
Direct Glaze Over Inswing
French Door



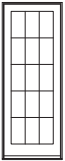
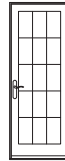
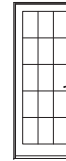
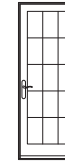
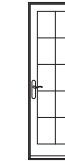
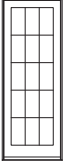
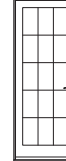
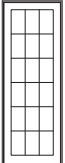
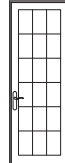
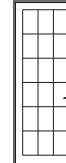
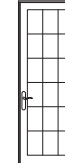
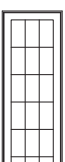
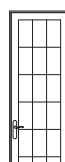
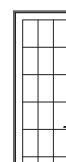
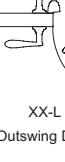
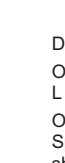
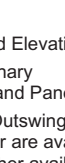
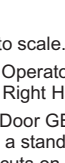
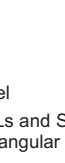
Vertical Mullion
O-XO operator



Jamb - XX Operator

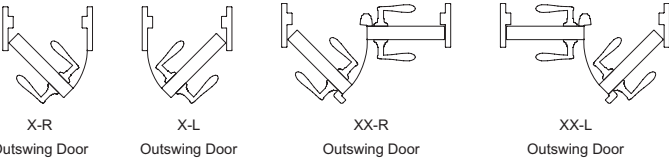


Jamb - XO Operator

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) 6-8 (2032) 6-7 1/2 (2019) 5-7 3/32 (1704)									
	ELOFD2665 O	ELOFD2665 XR	ELOFD2665 XL	ELOFD2865 O	ELOFD2865 XR	ELOFD2865 XL	ELOFD3065 O	ELOFD3065 XR	ELOFD3065 XL
									
	ELOFD2668 O	ELOFD2668 XR	ELOFD2668 XL	ELOFD2868 O	ELOFD2868 XR	ELOFD2868 XL	ELOFD3068 O	ELOFD3068 XR	ELOFD3068 XL
6-10 1/4 (2089) 6-10 1/2 (2096) 6-10 (2083) 5-9 19/32 (1768)									
	ELOFD2670 O	ELOFD2670 XR	ELOFD2670 XL	ELOFD2870 O	ELOFD2870 XR	ELOFD2870 XL	ELOFD3070 O	ELOFD3070 XR	ELOFD3070 XL
									
	ELOFD2680 O	ELOFD2680 XR	ELOFD2680 XL	ELOFD2880 O	ELOFD2880 XR	ELOFD2880 XL	ELOFD3080 O	ELOFD3080 XR	ELOFD3080 XL
7-2 1/4 (2191) 7-2 1/2 (2197) 7-2 (2184) 6-1 19/32 (1869)									
	ELOFD2670 O	ELOFD2670 XR	ELOFD2670 XL	ELOFD2870 O	ELOFD2870 XR	ELOFD2870 XL	ELOFD3070 O	ELOFD3070 XR	ELOFD3070 XL
									
	ELOFD2680 O	ELOFD2680 XR	ELOFD2680 XL	ELOFD2880 O	ELOFD2880 XR	ELOFD2880 XL	ELOFD3080 O	ELOFD3080 XR	ELOFD3080 XL
7-11 3/4 (2432) 8-0 (2438) 7-11 1/2 (2426) 6-11 3/32 (2111)									
	ELOFD2680 O	ELOFD2680 XR	ELOFD2680 XL	ELOFD2880 O	ELOFD2880 XR	ELOFD2880 XL	ELOFD3080 O	ELOFD3080 XR	ELOFD3080 XL
									
	ELOFD2680 O	ELOFD2680 XR	ELOFD2680 XL	ELOFD2880 O	ELOFD2880 XR	ELOFD2880 XL	ELOFD3080 O	ELOFD3080 XR	ELOFD3080 XL

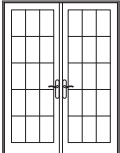
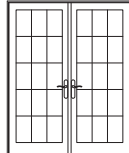
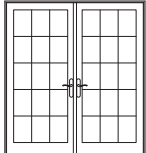
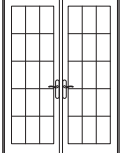
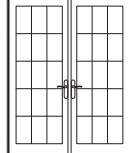
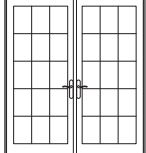
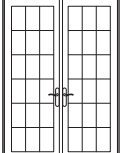
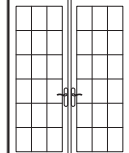
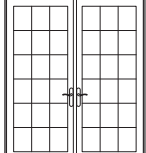
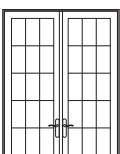
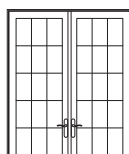
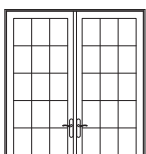
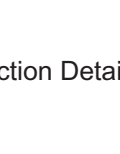
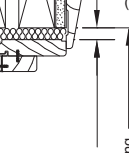
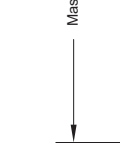
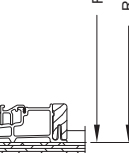
Outswing Door Operation

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

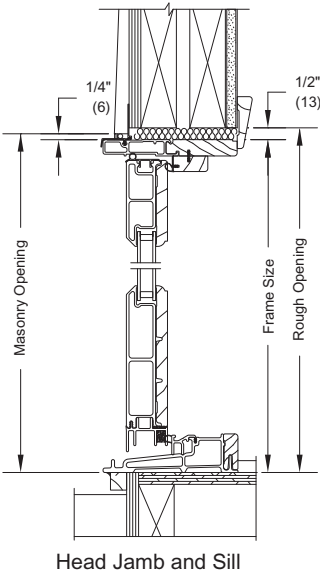


Details and Elevations not to scale.
O = Stationary X = Operator
L = Left Hand Panel R = Right Hand Panel
Optional Outswing French Door GBGs, SDLs and SDLs with Spacer Bar are available in a standard Rectangular cut, as shown. Other available lite cuts on page 3.
For further details and drawings visit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

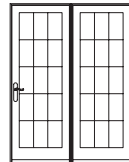
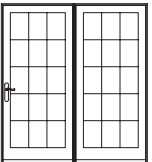
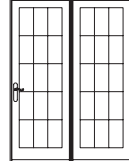
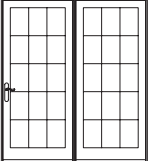
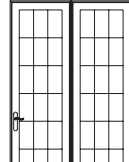
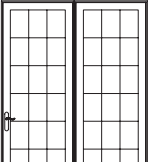
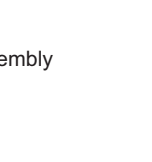
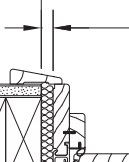
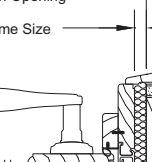
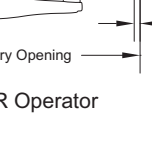
OUTSWING FRENCH DOOR

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) 6-8 (2032) 6-7 1/2 (2019) 5-7 3/32 (1704)			
	ELOFD5065 XXL	ELOFD5465 XXL	ELOFD6065 XXL
			
	ELOFD5068 XXL	ELOFD5468 XXL	ELOFD6068 XXL
6-10 1/4 (2089) 6-10 1/2 (2096) 6-10 (2083) 5-9 19/32 (1768)			
	ELOFD5070 XXL	ELOFD5470 XXL	ELOFD6070 XXL
			
	ELOFD5080 XXL	ELOFD5480 XXL	ELOFD6080 XXL
7-2 1/4 (2191) 7-2 1/2 (2197) 7-2 (2184) 6-1 19/32 (1869)			
	ELOFD5070 XXL	ELOFD5470 XXL	ELOFD6070 XXL
			
	ELOFD5080 XXL	ELOFD5480 XXL	ELOFD6080 XXL
7-11 3/4 (2432) 8-0 (2438) 7-11 1/2 (2426) 6-11 3/32 (2111)			
	ELOFD5080 XXL	ELOFD5480 XXL	ELOFD6080 XXL
			
	ELOFD5080 XXL	ELOFD5480 XXL	ELOFD6080 XXL

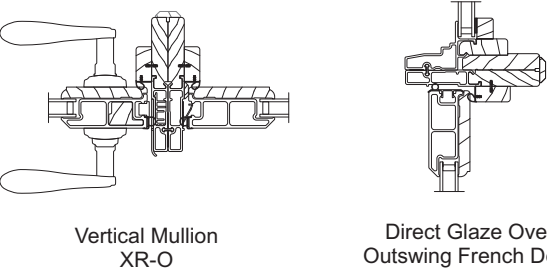
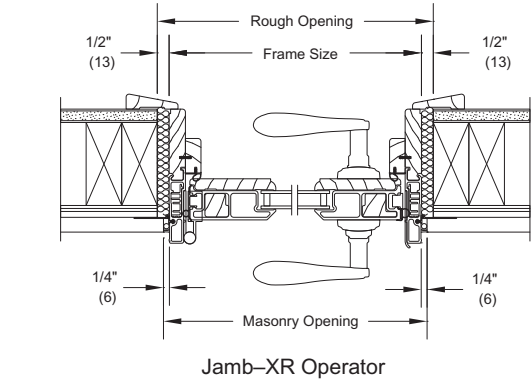
Construction Details



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)		
	ELOFD2665 / ELOFD2665*	ELOFD3065 / ELOFD3065*
		
	ELOFD2668 / ELOFD2668*	ELOFD3068 / ELOFD3068*
6-10 1/4 (2089) 6-10 1/2 (2096) 6-10 (2083)		
	ELOFD2668 / ELOFD2668*	ELOFD3068 / ELOFD3068*
		
	ELOFD2680 / ELOFD2680*	ELOFD3080 / ELOFD3080*
7-11 3/4 (2432) 8-0 (2438) 7-11 1/2 (2426)		
	ELOFD2680 / ELOFD2680*	ELOFD3080 / ELOFD3080*
		
	ELOFD2680 / ELOFD2680*	ELOFD3080 / ELOFD3080*

* 2 panel mullied assembly

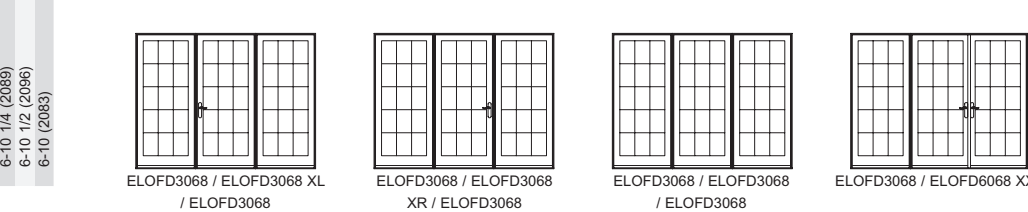


Multiple Assemblies – 3 Panel

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)

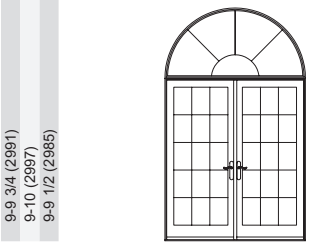
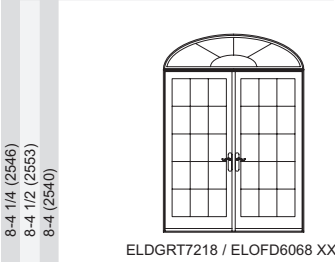


MO (mm)	9-1 7/16 (2780)	9-1 7/16 (2780)	9-1 7/16 (2780)	8-11 13/16 (2738)
RO (mm)	9-1 15/16 (2792)	9-1 15/16 (2792)	9-1 15/16 (2792)	9-0 5/16 (2751)
FS (mm)	9-0 15/16 (2767)	9-0 15/16 (2767)	9-0 15/16 (2767)	8-11 5/16 (2726)



Round Top Over Outswing French Door

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



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 mulled.

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 mulled only. Structural mullion reinforcement is required for some assemblies.

Please consult your local Marvin representative for more information.

CERTIFIED MULLING OFFERINGS

Product Type	Mull Kit	Maximum Overall Frame Size not to exceed:	Maximum Units Wide by High	PG Rating	Continuous Span Direction
Casement / Awning Picture/Transom/Direct Glaze	Certified Standard	112" x 71-1/8"	7 Wide x 1 High	50	Vertical
		72" x 94-1/4"	1 Wide x 5 High	50	Horizontal
	Structural (LVL Reinforcement)	84" x 94-1/4"	4 Wide x 5 High	50	Horizontal
Double Hung Picture/Transom/Direct Glaze	Certified Standard	112-1/2" x 67-3/4"	5 Wide x 1 High	40	Vertical
		61-1/2" x 91-1/2"	1 Wide x 5 High	40	Horizontal
	1/2" MRF	112-1/2" x 75-3/4"	5 Wide x 1 High	40	Vertical
		107-1/2" x 83-3/4"	5 Wide x 1 High	40	Vertical
		61-1/2" x 91-1/2"	1 Wide x 5 High	40	Vertical
		83" x 91-1/2"	3 Wide x 5 High	40	Vertical
		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.

Note: The Multiple Assembly sections (grey boxes) throughout this document show our non-certified mull sizes available in OMS. Non-certified mulls do not meet a certain certified product rating. Internal testing or engineering calculations may have been completed per AAMA 450 requirements, but were not certified by a third-party test agency.

Casement

EGRESS OPENING															
		Egress Width		Egress Height		Egress Clear Opening		Floor to Clear Opening		Vent Opening		DLO			
Unit #		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)	12.26	(11392)		
3731		27 15/64	(692)	26 45/64	(678)	5.05	(4694)	53 15/64	(1352)	5.91	(5492)	5.54	(5148)		
3735	E*	27 15/64	(692)	30 45/64	(780)	5.81	(5397)	49 15/64	(1250)	6.80	(6314)	6.40	(5942)		
3739	E*	27 15/64	(692)	34 45/64	(882)	6.57	(6100)	45 15/64	(1149)	7.68	(7137)	7.25	(6737)		
3743	E	27 15/64	(692)	38 53/64	(986)	7.35	(6825)	41 7/64	(1044)	8.59	(7985)	8.13	(7556)		
3747	E	27 15/64	(692)	42 45/64	(1085)	8.08	(7506)	37 15/64	(946)	9.45	(8782)	8.96	(8326)		
3755	E	27 15/64	(692)	50 45/64	(1288)	9.59	(8912)	29 15/64	(742)	11.22	(10427)	10.67	(9915)		
3759	E	27 15/64	(692)	54 45/64	(1390)	10.35	(9615)	25 15/64	(641)	12.11	(11249)	11.53	(10709)		
3763	E	27 15/64	(692)	58 45/64	(1491)	11.11	(10318)	21 15/64	(539)	12.99	(12072)	12.38	(11504)		
3771	E T	27 15/64	(692)	66 45/64	(1694)	12.62	(11724)	13 15/64	(336)	14.76	(13717)	14.09	(13093)		

Awning

VENT OPENING								
		Vent		DLO				
Unit #		Sq. Ft.	(cm²)	Sq. Ft.	(cm²)			
2519		2.05	(1901)	1.82	(1687)			
2523		2.60	(2414)	2.34	(2172)			
2527		3.15	(2927)	2.86	(2656)			
2535		4.25	(3953)	3.90	(3626)			
2539		4.81	(4466)	4.43	(4111)			
2547		5.91	(5492)	5.47	(5081)			
2919		2.46	(2284)	2.20	(2046)			
2923		3.12	(2900)	2.84	(2634)			
2927		3.79	(3516)	3.47	(3222)			
2935		5.11	(4749)	4.73	(4398)			
2939		5.77	(5365)	5.37	(4986)			
2947		7.10	(6597)	6.63	(6162)			
3319		2.87	(2667)	2.59	(2405)			
3323		3.64	(3386)	3.33	(3096)			
3327		4.42	(4106)	4.08	(3787)			
3335		5.97	(5544)	5.57	(5170)			
3339		6.74	(6264)	6.31	(5861)			
3347		8.29	(7702)	7.80	(7244)			

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

Units with Sash Limiter do not meet egress requirements.

Awning

VENT OPENING				
	Vent		DLO	
Unit #	Sq. Ft.	(cm²)	Sq. Ft.	(cm²)
3719	3.28	(3050)	2.97	(2764)
3723	4.17	(3872)	3.83	(3558)
3727	5.05	(4695)	4.69	(4353)
3735	6.82	(6340)	6.40	(5942)
3739	7.71	(7162)	7.25	(6737)
3747	9.48	(8807)	8.96	(8326)
4119	3.69	(3432)	3.36	(3123)
4123	4.69	(4358)	4.33	(4021)
4127	5.69	(5284)	5.29	(4918)
4135	7.68	(7135)	7.23	(6714)
4139	8.68	(8061)	8.19	(7612)
4147	10.67	(9913)	10.13	(9407)
4919	4.52	(4198)	4.13	(3841)
4923	5.74	(5330)	5.32	(4945)
4927	6.96	(6462)	6.51	(6050)
4935	9.39	(8727)	8.89	(8258)
4939	10.61	(9859)	10.08	(9362)
4947	13.05	(12123)	12.45	(11571)

EGRESS OPENINGS

Double Hung (Continued)

EGRESS OPENING													
Egress Width			Egress Height		Egress Clear Opening		Floor To Clear Opening		Vent		DLO		
Unit #	Inches	(mm)	Inches	(mm)	Sq. Ft.	(cm²)	Inches	(mm)	Sq. Ft.	(cm²)	Sq. Ft.	(cm²)	
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															
Egress Width		Egress Height		Egress Clear Opening		Floor To Clear Opening		Vent		DLO		Check Rail Height			
Unit #	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 Reverse Cottage (Continued)

EGRESS OPENING														
Egress Width			Egress Height		Egress Clear Opening		Floor To Clear Opening		Vent		DLO		Check Rail Height	
Unit #	Inches	(mm)	Inches	(mm)	Sq. Ft.	(cm ²)	Inches	(mm)	Sq. Ft.	(cm ²)	Sq. Ft.	(cm ²)	Inches	(mm)
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)

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System (OMS) quotes and at the time of ordering.

EGRESS OPENINGS

Glider

EGRESS OPENING															
		Egress Width		Egress Height		Egress Clear Opening		Floor To Clear Opening		Venting		DLO			
Unit #		Inches	(mm)	Inches	(mm)	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, OX	14 1/8	(359)	55 9/16	(1411)	5.45	(5066)	2-0 47/64	(628)	5.45	(5066)	10.21	(9482)		
4824	XO, OX	20 1/8	(511)	19 9/16	(497)	2.74	(2542)	5-0 47/64	(1543)	2.74	(2542)	4.84	(4493)		
4836	XO, OX	20 1/8	(511)	31 9/16	(802)	4.41	(4100)	4-0 47/64	(1238)	4.41	(4100)	8.12	(7542)		
4842	XO, OX	20 1/8	(511)	37 9/16	(954)	5.25	(4879)	3-6 47/64	(1085)	5.25	(4879)	9.76	(9066)		
4848	XO, OX	E	20 1/8	(511)	43 9/16	(1107)	6.09	(5658)	3-0 47/64	(933)	6.09	(5658)	11.40	(10590)	
4860	XO, OX	E	20 1/8	(511)	55 9/16	(1411)	7.77	(7217)	2-0 47/64	(628)	7.77	(7217)	14.68	(13639)	
6024	XO, OX		26 1/8	(664)	19 9/16	(497)	3.55	(3299)	5-0 47/64	(1543)	3.55	(3299)	6.31	(5863)	
6036	XO, OX	E*	26 1/8	(664)	31 9/16	(802)	5.73	(5322)	4-0 47/64	(1238)	5.73	(5322)	10.59	(9840)	
6042	XO, OX	E	26 1/8	(664)	37 9/16	(954)	6.82	(6334)	3-6 47/64	(1085)	6.82	(6334)	12.73	(11829)	
6048	XO, OX	E	26 1/8	(664)	43 9/16	(1107)	7.91	(7345)	3-0 47/64	(933)	7.91	(7345)	14.87	(13818)	
6060	XO, OX	E	26 1/8	(664)	55 9/16	(1411)	10.08	(9368)	2-0 47/64	(628)	10.08	(9368)	19.15	(17795)	
7224	XO, OX		32 1/8	(816)	19 9/16	(497)	4.37	(4057)	5-0 47/64	(1543)	4.37	(4057)	7.78	(7232)	
7236	XO, OX	E*	32 1/8	(816)	31 9/16	(802)	7.04	(6544)	4-0 47/64	(1238)	7.04	(6544)	13.07	(12139)	
7242	XO, OX	E	32 1/8	(816)	37 9/16	(954)	8.38	(7788)	3-6 47/64	(1085)	8.38	(7788)	15.71	(14592)	
7248	XO, OX	E	32 1/8	(816)	43 9/16	(1107)	9.72	(9032)	3-0 47/64	(933)	9.72	(9032)	18.35	(17045)	
7260	XO, OX	E	32 1/8	(816)	55 9/16	(1411)	12.40	(11519)	2-0 47/64	(628)	12.40	(11519)	23.63	(21952)	
7224	XOX		15 11/16	(398)	19 9/16	(497)	2.13	(1980)	60 47/64	(1543)	4.26	(3959)	7.50	(6968)	
7236	XOX		15 11/16	(398)	31 9/16	(802)	3.44	(3194)	48 47/64	(1238)	6.88	(6387)	12.59	(11696)	
7242	XOX		15 11/16	(398)	37 9/16	(954)	4.09	(3801)	42 47/64	(1085)	8.18	(7601)	15.13	(14060)	
7248	XOX		15 11/16	(398)	43 9/16	(1107)	4.74	(4408)	36 47/64	(933)	9.49	(8815)	17.68	(16423)	
7260	XOX		15 11/16	(398)	55 9/16	(1411)	6.05	(5622)	24 47/64	(628)	12.10	(11243)	22.77	(21151)	
8424	XOX		18 11/16	(474)	19 9/16	(497)	2.54	(2358)	60 47/64	(1543)	5.08	(4717)	8.97	(8338)	
8436	XOX		18 11/16	(474)	31 9/16	(802)	4.10	(3805)	48 47/64	(1238)	8.19	(7609)	15.06	(13994)	
8442	XOX		18 11/16	(474)	37 9/16	(954)	4.87	(4528)	42 47/64	(1085)	9.75	(9056)	18.11	(16823)	
8448	XOX		18 11/16	(474)	43 9/16	(1107)	5.65	(5251)	36 47/64	(933)	11.30	(10502)	21.15	(19651)	
8460	XOX		18 11/16	(474)	55 9/16	(1411)	7.21	(6697)	24 47/64	(628)	14.42	(13394)	27.24	(25307)	
9624	XOX		21 11/16	(551)	19 9/16	(497)	2.95	(2737)	60 47/64	(1543)	5.89	(5475)	10.45	(9707)	
9636	XOX		21 11/16	(551)	31 9/16	(802)	4.75	(4416)	48 47/64	(1238)	9.51	(8831)	17.54	(16293)	
9642	XOX		21 11/16	(551)	37 9/16	(954)	5.66	(5255)	42 47/64	(1085)	11.31	(10510)	21.08	(19586)	
9648	XOX	E	21 11/16	(551)	43 9/16	(1107)	6.56	(6094)	36 47/64	(933)	13.12	(12188)	24.63	(22878)	
9660	XOX	E	21 11/16	(551)	55 9/16	(1411)	8.37	(7773)	24 47/64	(628)	16.73	(15545)	31.71	(29464)	

Sliding Patio Door

EGRESS OPENING													
		Egress Width		Egress Height		Egress Clear Opening		Floor To Clear Opening		Venting		DLO	
Unit #		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)

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EGRESS OPENINGS

Sliding French Door

EGRESS OPENING													
		Egress Width		Egress Height		Egress Clear Opening		Floor To Clear Opening		Vent		DLO	
Unit #		Inches	(mm)	Inches	(mm)	Sq. Ft.	(cm ²)	Sq. Ft.	(cm ²)	Sq. Ft.	(cm ²)	Sq. Ft.	(cm ²)
5065	XO, OX	23 17/64	(591)	74 47/64	(1898)	12.07	(11217)	N/A	N/A	12.07	(11217)	20.85	(19371)
5068	XO, OX	23 17/64	(591)	77 15/64	(1962)	12.48	(11592)	N/A	N/A	12.48	(11592)	21.63	(20093)
5070	XO, OX	23 17/64	(591)	81 15/64	(2063)	13.12	(12192)	N/A	N/A	13.12	(12192)	22.87	(21248)
5080	XO, OX	23 17/64	(591)	90 47/64	(2305)	14.66	(13618)	N/A	N/A	14.66	(13618)	25.82	(23991)
6065	XO, OX	29 17/64	(743)	74 47/64	(1898)	15.19	(14110)	N/A	N/A	15.19	(14110)	26.44	(24566)
6068	XO, OX	29 17/64	(743)	77 15/64	(1962)	15.70	(14582)	N/A	N/A	15.70	(14582)	27.43	(25481)
6070	XO, OX	29 17/64	(743)	81 15/64	(2063)	16.51	(15337)	N/A	N/A	16.51	(15337)	29.00	(26946)
6080	XO, OX	29 17/64	(743)	90 47/64	(2305)	18.44	(17130)	N/A	N/A	18.44	(17130)	32.75	(30424)
8065	XO, OX	41 17/64	(1048)	74 47/64	(1898)	21.42	(19895)	N/A	N/A	21.42	(19895)	37.63	(34955)
8068	XO, OX	41 17/64	(1048)	77 15/64	(1962)	22.13	(20561)	N/A	N/A	22.13	(20561)	39.03	(36257)
8070	XO, OX	41 17/64	(1048)	81 15/64	(2063)	23.28	(21626)	N/A	N/A	23.28	(21626)	41.27	(38341)
8080	XO, OX	41 17/64	(1048)	90 47/64	(2305)	26.00	(24155)	N/A	N/A	26.00	(24155)	46.60	(43290)
7665	XOO, OOX	23 17/64	(591)	74 47/64	(1898)	12.07	(11217)	N/A	N/A	12.07	(11217)	31.28	(29057)
7668	XOO, OOX	23 17/64	(591)	77 15/64	(1962)	12.48	(11592)	N/A	N/A	12.48	(11592)	32.44	(30139)
7670	XOO, OOX	23 17/64	(591)	81 15/64	(2063)	13.12	(12192)	N/A	N/A	13.12	(12192)	34.31	(31872)
7680	XOO, OOX	23 17/64	(591)	90 47/64	(2305)	14.66	(13618)	N/A	N/A	14.66	(13618)	38.73	(35986)
9065	XOO, OOX	29 17/64	(743)	74 47/64	(1898)	15.19	(14110)	N/A	N/A	15.19	(14110)	39.66	(36849)
9068	XOO, OOX	29 17/64	(743)	77 15/64	(1962)	15.70	(14582)	N/A	N/A	15.70	(14582)	41.14	(38222)
9070	XOO, OOX	29 17/64	(743)	81 15/64	(2063)	16.51	(15337)	N/A	N/A	16.51	(15337)	43.51	(40418)
9080	XOO, OOX	29 17/64	(743)	90 47/64	(2305)	18.44	(17130)	N/A	N/A	18.44	(17130)	49.12	(45636)
12065	XOO, OOX	41 17/64	(1048)	74 47/64	(1898)	21.42	(19895)	N/A	N/A	21.42	(19895)	56.44	(52432)
12068	XOO, OOX	41 17/64	(1048)	77 15/64	(1962)	22.13	(20561)	N/A	N/A	22.13	(20561)	58.54	(54386)
12070	XOO, OOX	41 17/64	(1048)	81 15/64	(2063)	23.28	(21626)	N/A	N/A	23.28	(21626)	61.90	(57512)
12080	XOO, OOX	41 17/64	(1048)	90 47/64	(2305)	26.00	(24155)	N/A	N/A	26.00	(24155)	69.90	(64935)
7665	OXO	23 31/64	(596)	74 47/64	(1898)	12.19	(11322)	N/A	N/A	12.19	(11322)	31.28	(29057)
7668	OXO	23 31/64	(596)	77 15/64	(1962)	12.59	(11701)	N/A	N/A	12.59	(11701)	32.44	(30139)
7670	OXO	23 31/64	(596)	81 15/64	(2063)	13.25	(12307)	N/A	N/A	13.25	(12307)	34.31	(31872)
7680	OXO	23 31/64	(596)	90 47/64	(2305)	14.80	(13746)	N/A	N/A	14.80	(13746)	38.73	(35986)
9065	OXO	29 31/64	(749)	74 47/64	(1898)	15.30	(14215)	N/A	N/A	15.30	(14215)	39.66	(36849)
9068	OXO	29 31/64	(749)	77 15/64	(1962)	15.81	(14691)	N/A	N/A	15.81	(14691)	41.14	(38222)
9070	OXO	29 31/64	(749)	81 15/64	(2063)	16.63	(15452)	N/A	N/A	16.63	(15452)	43.51	(40418)
9080	OXO	29 31/64	(749)	90 47/64	(2305)	18.58	(17259)	N/A	N/A	18.58	(17259)	49.12	(45636)
12065	OXO	41 31/64	(1054)	74 47/64	(1898)	21.53	(20001)	N/A	N/A	21.53	(20001)	56.44	(52432)
12068	OXO	41 31/64	(1054)	77 15/64	(1962)	22.25	(20670)	N/A	N/A	22.25	(20670)	58.54	(54386)
12070	OXO	41 31/64	(1054)	81 15/64	(2063)	23.40	(21741)	N/A	N/A	23.40	(21741)	61.90	(57512)
12080	OXO	41 31/64	(1054)	90 47/64	(2305)	26.14	(24283)	N/A	N/A	26.14	(24283)	69.90	(64935)
10065	OX XO	47 3/64	(1195)	74 47/64	(1898)	24.42	(22686)	N/A	N/A	24.42	(22686)	41.70	(38742)
10068	OX XO	47 3/64	(1195)	77 15/64	(1962)	25.24	(23444)	N/A	N/A	25.24	(23444)	43.26	(40186)
10070	OX XO	47 3/64	(1195)	81 15/64	(2063)	26.54	(24659)	N/A	N/A	26.54	(24659)	45.74	(42496)
10080	OX XO	47 3/64	(1195)	90 47/64	(2305)	29.65	(27542)	N/A	N/A	29.65	(27542)	51.65	(47981)
12065	OX XO	59 3/64	(1500)	74 47/64	(1898)	30.65	(28471)	N/A	N/A	30.65	(28471)	52.88	(49131)
12068	OX XO	59 3/64	(1500)	77 15/64	(1962)	31.67	(29424)	N/A	N/A	31.67	(29424)	54.86	(50962)
12070	OX XO	59 3/64	(1500)	81 15/64	(2063)	33.31	(30948)	N/A	N/A	33.31	(30948)	58.01	(53891)
12080	OX XO	59 3/64	(1500)	90 47/64	(2305)	37.21	(34567)	N/A	N/A	37.21	(34567)	65.50	(60848)
16065	OX XO	83 3/64	(2109)	74 47/64	(1898)	43.10	(40043)	N/A	N/A	43.10	(40043)	75.25	(69910)
16068	OX XO	83 3/64	(2109)	77 15/64	(1962)	44.54	(41382)	N/A	N/A	44.54	(41382)	78.05	(72514)
16070	OX XO	83 3/64	(2109)	81 15/64	(2063)	46.85	(43526)	N/A	N/A	46.85	(43526)	82.54	(76682)
16080	OX XO	83 3/64	(2109)	90 47/64	(2305)	52.33	(48616)	N/A	N/A	52.33	(48616)	93.19	(86580)

Inswing French Door

EGRESS OPENING													
		Egress Width		Egress Height		Egress Clear Opening		Floor To Clear Opening		Vent		DLO	
Unit #		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													
		Egress Width		Egress Height		Egress Clear Opening		Floor To Clear Opening		Vent		DLO	
Unit #		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
Casement Picture	LC-PG50-FW
Awning	LC-PG50-AP
Double Hung	LC-PG40-H*
Double Hung Picture	LC-PG40-FW*
Casement Narrow Frame	LC-PG50-C
Casement Narrow Frame Picture	LC-PG50-FW
Awning Narrow Frame	LC-PG50-AP
Double Hung Insert	LC-PG40-H**
Double Hung Insert Picture	LC-PG40-FW
Gliders	LC-PG30-HS

Direct Glaze	CW-PG50-FW
Sliding Patio Doors	LC-PG40-SD***
Sliding French Doors	LC-PG40-SD****
Inswing French Doors	LC-PG30-SHD
Inswing French Doors HP	LC-PG50-SHD
Outswing French Doors	LC-PG50-SHD

* 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
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Casement/Awning

ELCA	1/8" (3.1)	15/32" (11.5)	1/8" (3.1)	--	--	28	24
	1/8" (3.1)	13/32" (9.8)	3/16" (4.7)	--	--	32	28
	1/8" (3.1)	13/32" (9.8)	1/8" (3.1)	13/32" (9.8)	1/8" (3.1)	28	24
	1/8" (3.1)	5/16" (7.5)	9/32" (6.9) PVB laminate	--	--	33	29
	5/32" (3.9)	9/32" (7.0)	9/32" (6.9) SGP laminate	--	--	30	27
ELCA P	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
ELAWN	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

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

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)	--	--	32	27
	5/16" (3.9)	17/32" (13.0)	9/32" (6.9) PVB laminate	--	--	34	28
	1/4" (5.7)	13/32" (9.8)	13/32" (10.1) SGP laminate	--	--	34	30

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

Contact your Marvin retailer for details.

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

ALTITUDE GUIDELINES

Casement

ALTITUDE LIMITS (FEET)

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

Casement STC

ALTITUDE LIMITS (FEET)

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

Casement Tripane

ALTITUDE LIMITS (FEET)

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

Casement Picture

ALTITUDE LIMITS (FEET)

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

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	8000	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 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	

ALTITUDE GUIDELINES

Sliding French Door

ALTITUDE LIMITS (FEET)

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

Sliding French Door STC

ALTITUDE LIMITS (FEET)

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

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

Inswing French Door

ALTITUDE LIMITS (FEET)

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

Inswing French Door STC

ALTITUDE LIMITS (FEET)

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

Outswing French Door

ALTITUDE LIMITS (FEET)

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

Outswing French Door STC

ALTITUDE LIMITS (FEET)

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

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 the 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	N/A
	Tempered	10000	10000	10000	10000	10000	10000	10000	10000
68	Annealed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000	10000	10000
70	Annealed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	N/A	10000	10000	10000	10000
80	Annealed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000	10000	10000

Sliding Patio Door STC

ALTITUDE LIMITS (FEET)

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

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	
	GBG	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	
	GBG	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	
	GBG	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	
	GBG	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	
	GBG	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		
	GBG	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	
	GBG	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		
	GBG	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		
	GBG	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		
	GBG	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
	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	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	
	GBG	0.23	0.25	0.41	65	N, NC, SC, S	

NFRC values listed above are from April 2022. NFRC values may change upon renewal or recertification of the product. For this reason, the CPD number and NFRC values published on the temporary label affixed to the product may vary from the CPD numbers provided on the quote or in this catalog. CPD numbers on product labels reflect the NFRC values in effect on the date of manufacture.

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	
	SDLS < 1"	0.22	0.25	0.41	66	N, NC, SC, S	
	SDLN < 1"	0.22	0.25	0.41	66	N, NC, SC, S	
	GBG	0.23	0.25	0.41	66	N, NC, SC, S	

NFRC values listed above are from April 2022. NFRC values may change upon renewal or recertification of the product. For this reason, the CPD number and NFRC values published on the temporary label affixed to the product may vary from the CPD numbers provided on the quote or in this catalog. CPD numbers on product labels reflect the NFRC values in effect on the date of manufacture.

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		

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		

NFRC values listed above are from April 2022. NFRC values may change upon renewal or recertification of the product. For this reason, the CPD number and NFRC values published on the temporary label affixed to the product may vary from the CPD numbers provided on the quote or in this catalog. CPD numbers on product labels reflect the NFRC values in effect on the date of manufacture.

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		



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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