

Technical Specifications

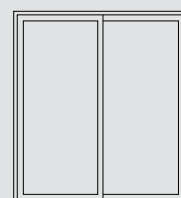
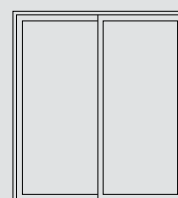
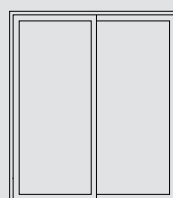
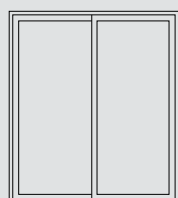
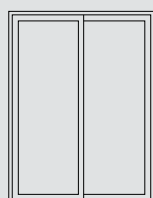
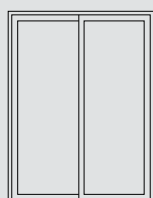
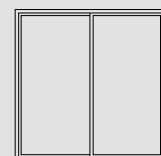
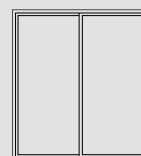
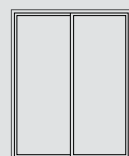
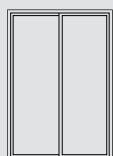
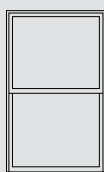
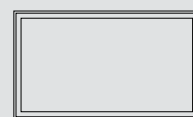
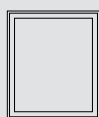
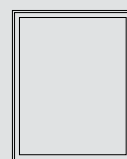




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ESSENTIAL DOUBLE HUNG WINDOWS
Ebony

Ordering

Marvin Essential Collection products are sized with consistent nominal sizing to simplify specification and ordering.* Each product section offers product codes for ordering under each unit. 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 dimension of total visible glass in a single sash.

MO (mm)	1' - 6" (457)	2' - 0" (610)	2' - 6" (762)	2' - 8" (914)	3' - 0" (914)	3' - 6" (1067)	4' - 0" (1219)
RO (mm)	1' - 6" (457)	2' - 0" (610)	2' - 6" (762)	2' - 8" (914)	3' - 0" (914)	3' - 6" (1067)	4' - 0" (1219)
FS (mm)	1' - 5 1/2" (445)	1' - 11 1/2" (597)	2' - 5 1/2" (749)	2' - 7 1/2" (902)	2' - 11 1/2" (902)	3' - 5 1/2" (1054)	3' - 11 1/2" (1207)
DLO (mm)	12 9/16" (319)	18 9/16" (471)	24 9/16" (624)	26 9/16" (675)	30 9/16" (776)	36 9/16" (929)	42 9/16" (1081)
3' - 11 3/4" (1213) 4' - 0" (1219) 3' - 11 1/2" (1207) 20 5/16" (516)							
	ESSH1640	ESSH2040	ESSH2640	ESSH2840	ESSH3040	ESSH3640	ESSH4040

Mulling Options - A variety of standard factory mulled and reinforced factory mulled combinations are available.

Product Type	Stadard Mull Max RO	MRF Mull Max RO	Assembly Configuration	Maximum Unit Assembly
Casement, Awing, and Picture	114" x 84"	114" x 84"	Ribbon Assembly	6W x 1H
	72" x 114"	72" x 114"	Stacked Assembly	1W x 5H
	72" x 96"	96" x 96"	Multi Wide x Multi High	5W x 5H
Single Hung, Double Hung, and PICTURE	114" x 78"	114" x 78"	Ribbon Assembly	6W x 1H
	60" x 96"	60" x 96"	Stacked Assembly	1W x 5H
	72" x 96"	96" x 96"	Multi Wide x Multi High	5W x 5H
Glider	114" x 60"	114" x 60"	Ribbon Assembly	3W x 1H
	72" x 96"	72" x 96"	Stacked Assembly	1W x 2H
	72" x 96"	96" x 96"	Multi Wide x Multi High	2W x 2H
Direct Glaze	114" x 96"	114" x 96"	Ribbon Assembly	6W x 1H
	96" x 114"	96" x 114"	Stacked Assembly	1W x 5H
	72" x 96"	96" x 96"	Multi Wide x Multi High	5W x 5H
Direct Glaze Round Top	n/a	n/a	Ribbon Assembly	n/a
	96" x 114"	96" x 114"	Stacked Assembly	1W x 2H
	72" x 96"	96" x 96"	Multi Wide x Multi High	5W x 2H
Direct Glaze Round Top Over Glider	n/a	n/a	Ribbon Assembly	n/a
	72" x 78"	72" x 78"	Stacked Assembly	1W x 2H
	72" x 78"	72" x 78"	Multi Wide x Multi High	2W x 2H
Sliding Patio Door	72" x 100"	72" x 100"	Stacked Assembly	1W x 2H
Note: Maximum assembly sizes may be limited due to individual unit size limits				

OR Essential Mulling Certification Limits

Product Type	Stadard Mull Max RO	MRF Mull Max RO	Assembly Configuration	Maximum Unit Assembly
Essential Windows	114" x 96"	114" x 96"	Ribbon Assembly	6W x 1H
	96" x 114"	96" x 114"	Stacked Assembly	1W x 5H
	72" x 96"	96" x 96"	Multi Wide x Multi High	5W x 5H
Sliding Patio Door	72" x 100"	72" x 100"	Door Transom Assembly	1W x 2H
Note: Maximum assembly sizes may be limited due to individual unit size limits				

Field mulling kits are available to create your own unique multiple assemblies. Field applied Essential mull kits are not WDMA certified.

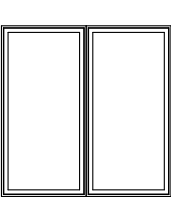
* ESSH and ESDH units are only available on the bottom row of multi-high assemblies

** Mullion PG Rating may be determined by the lowest PG rating of the overall assembly. The Standard Mull has been certified to a PG25. The MRF Mull has been certified to a PG40.

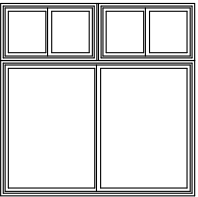
Refer to the Essential Mull chapter of the ADM for detailed certification size limits, performance, and field mull informaton.

Please contact your local Marvin representative for more information.

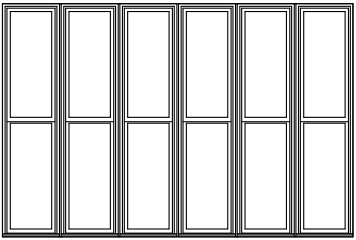
Examples of Possible Mull Configurations



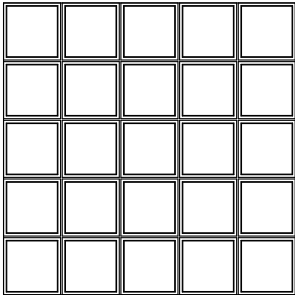
Casement
2 Wide 1 High



Glider
2 Wide 2 High



Double Hung
6 Wide 1 High



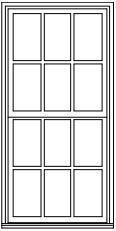
Awning
5 Wide 5 High

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.

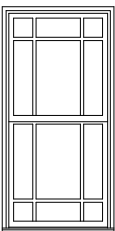
Lite Cuts

Grilles-Between-the-Glass (GBG)

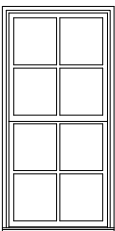
Windows



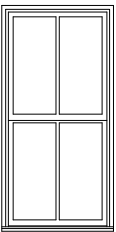
Rectangular
Available as GBG



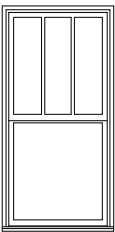
Prairie
Available as GBG



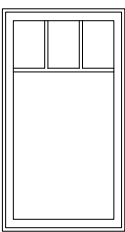
2w2h
Available as GBG



2w1h
Available as GBG

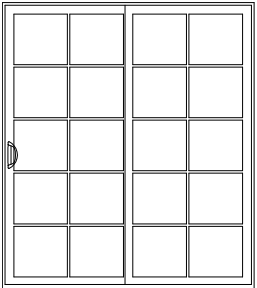


Equal Lite
Available as GBG

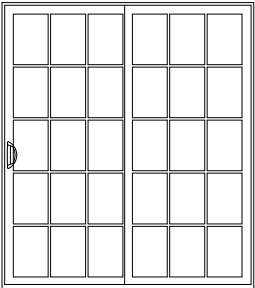


Cottage Lite
Available as GBG

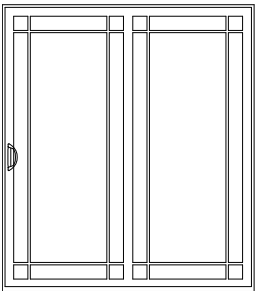
Doors



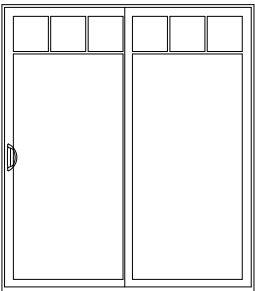
10/12 Lite
One vertical bar per panel
Available as GBG



15/18 Lite
Two vertical bars per panel
Available as GBG



Prairie
Available as GBG



Cottage Lite
Available as GBG

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.

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

Casement

1 Wide

MO (mm)	1'-6" (457)	2'-0" (610)	2'-6" (762)	3'-0" (914)	3'-0" (914)	4'-0" (1219)	5'-0" (1524)	6'-0" (1829)
RO (mm)	1'-6" (457)	2'-0" (610)	2'-6" (762)	3'-0" (914)	3'-0" (914)	4'-0" (1219)	5'-0" (1524)	6'-0" (1829)
FS (mm)	1'-5 1/2" (445)	1'-11 1/2" (597)	2'-5 1/2" (749)	2'-11 1/2" (902)	2'-11 1/2" (902)	3'-11 1/2" (1207)	4'-11 1/2" (1511)	5'-11 1/2" (1816)
DLO (mm)	11 53/64" (300)	17 53/64" (453)	23 53/64" (605)	29 53/64" (757)	11 53/64" (300)	17 53/64" (453)	23 53/64" (605)	29 53/64" (757)
1-11 3/4 (603) 2-0 (610) 1-11 1/2 (597) 17 53/64 (453)	 ESCA1620	 ESCA2020	 ESCA2620	 ESCA3020	 ESCA1620	 ESCA2020	 ESCA2620	 ESCA3020
2-5 3/4 (756) 2-6 (762) 2-5 1/2 (749) 23 53/64 (605)	 ESCA1626	 ESCA2026	 ESCA2626	 ESCA3026	 ESCA1626	 ESCA2026	 ESCA2626	 ESCA3026
2-11 3/4 (908) 3-0 (914) 2-11 1/2 (902) 29 53/64 (757)	 ESCA1630	 ESCA2030	 ESCA2630	 ESCA3030	 ESCA1630	 ESCA2030	 ESCA2630	 ESCA3030
3-5 3/4 (1060) 3-6 (1067) 3-5 1/2 (1054) 35 53/64 (910)	 ESCA1636	 ESCA2036	 ESCA2636	 ESCA3036	 ESCA1636	 ESCA2036	 ESCA2636	 ESCA3036
3-11 3/4 (1213) 4-0 (1219) 3-11 1/2 (1207) 41 53/64 (1062)	 ESCA1640	 ESCA2040	 ESCA2640 E	 ESCA3040 E	 ESCA1640	 ESCA2040	 ESCA2640 E	 ESCA3040 E
4-5 3/4 (1365) 4-6 (1372) 4-5 1/2 (1359) 47 53/64 (1215)	 ESCA1646	 ESCA2046	 ESCA2646 E	 ESCA3046 E	 ESCA1646	 ESCA2046	 ESCA2646 E	 ESCA3046 E
4-11 3/4 (1518) 5-0 (1524) 4-11 1/2 (1511) 53 53/64 (1367)	 ESCA1650	 ESCA2050	 ESCA2650 E	 ESCA3050 E	 ESCA1650	 ESCA2050	 ESCA2650 E	 ESCA3050 E
5-5 3/4 (1670) 5-6 (1676) 5-5 1/2 (1664) 59 53/64 (1519)	 ESCA1656	 ESCA2056	 ESCA2656 E	 ESCA3056 E	 ESCA1656	 ESCA2056	 ESCA2656 E	 ESCA3056 E

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

Obscure Glass option available on all units.

GBG available in standard rectangular lite cut, shown above. Other GBG lite cuts shown on page 5.

See page 58 for specific PG Ratings

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

* These units may optionally include a window opening control device tested to ASTM F2090-10, which can be released from the inside without the use of a key, tool, special knowledge, or force greater than that required for normal unit operation.

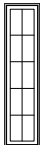
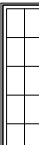
WOCD not available on CN66 and CN70 heights

2 Wide

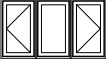
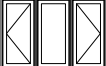
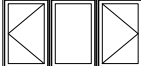
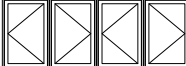
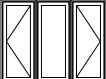
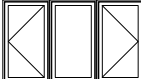
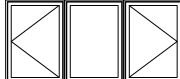
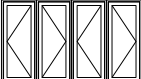
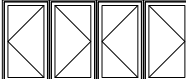
Casement

1 Wide

	MO (mm)		RO (mm)		FS (mm)		DLO (mm)	
	1' - 6" (457)	2' - 0" (610)	2' - 6" (762)	3' - 0" (914)	3' - 0" (914)	4' - 0" (1219)	5' - 0" (1524)	6' - 0" (1829)
	1' - 6" (457)	2' - 0" (610)	2' - 6" (762)	3' - 0" (914)	3' - 0" (914)	4' - 0" (1219)	5' - 0" (1524)	6' - 0" (1829)
	1' - 5 1/2" (445)	1' - 11 1/2" (597)	2' - 5 1/2" (749)	2' - 11 1/2" (902)	2' - 11 1/2" (902)	3' - 11 1/2" (1207)	4' - 11 1/2" (1511)	5' - 11 1/2" (1816)
	11 53/64" (300)	17 53/64" (453)	23 53/64" (605)	29 53/64" (757)	11 53/64" (300)	17 53/64" (453)	23 53/64" (605)	29 53/64" (757)

5-11 3/4 (1822) 6-0 (1829) 5-11 1/2 (1816) 65 53/64 (1672)								
	ESCA1660 T	ESCA2060 T	ESCA2660 ET	ESCA3060 ET	ESCA1660 T	ESCA2060 T	ESCA2660 ET	ESCA3060 ET
6-5 3/4 (1975) 6-6 (1981) 6-5 1/2 (1969) 71 53/64 (1824)								
	ESCA1666 T	ESCA2066 T	ESCA2666 ET	ESCA3066 ET	ESCA1666 T	ESCA2066 T	ESCA2666 ET	ESCA3066 ET
6-11 3/4 (2127) 7-0 (2134) 6-11 1/2 (2121) 77 53/64 (1977)								
	ESCA1670 T	ESCA2070 T	ESCA2670 ET	ESCA3070 ET	ESCA1670 T	ESCA2070 T	ESCA2670 ET	ESCA3070 ET

3 Wide

MO (mm)	4' - 6" (1372)	6' - 0" (1829)	7' - 6" (2286)	9' - 0" (2743)	6' - 0" (1829)	8' - 0" (2438)
RO (mm)	4' - 6" (1372)	6' - 0" (1829)	7' - 6" (2286)	9' - 0" (2743)	6' - 0" (1829)	8' - 0" (2438)
FS (mm)	4' - 5 1/2" (1359)	5' - 11 1/2" (1816)	7' - 5 1/2" (2273)	8' - 11 1/2" (2731)	5' - 11 1/2" (1816)	7' - 11 1/2" (2426)
DLO (mm)	11 53/64" (300)	17 53/64" (453)	23 53/64" (605)	29 53/64" (757)	11 53/64" (300)	17 53/64" (453)
1-11 3/4 (603) 2-0 (610) 2-11 1/2 (577) 17 53/64 (453)						
	ESCA1620	ESCA2020	ESCA2620	ESCA3020	ESCA1620	ESCA2020
2-5 3/4 (756) 2-6 (762) 2-5 1/2 (749) 23 53/64 (605)						
	ESCA1626	ESCA2026	ESCA2626	ESCA3026	ESCA1626	ESCA2026
2-11 3/4 (908) 3-0 (914) 2-11 1/2 (902) 29 53/64 (757)						
	ESCA1630	ESCA2030	ESCA2630	ESCA3030	ESCA1630	ESCA2030
3-5 3/4 (1060) 3-6 (1067) 3-5 1/2 (1054) 35 53/64 (910)						
	ESCA1636	ESCA2036	ESCA2636	ESCA3036	ESCA1636	ESCA2036

Operator

Stationary

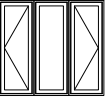
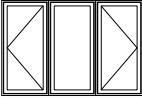
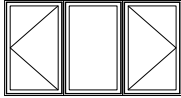
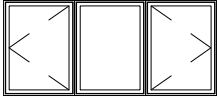
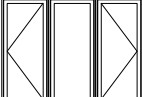
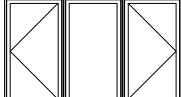
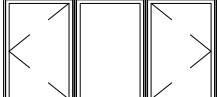
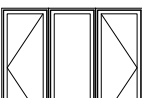
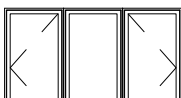
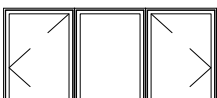
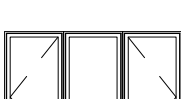
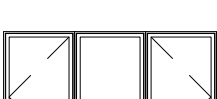
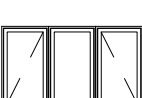
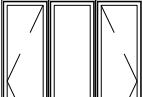
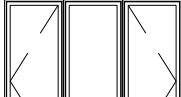
1509

Casements available as an operator or stationary.

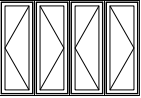
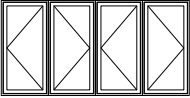
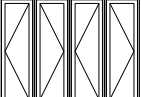
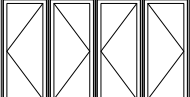
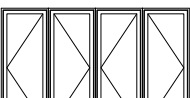
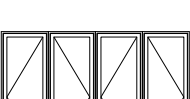
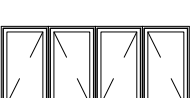
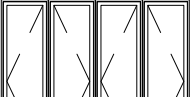
L or R handing determined from exterior.

Casement

3 Wide

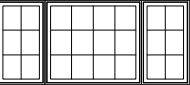
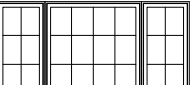
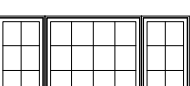
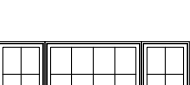
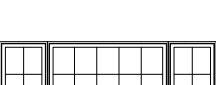
MO (mm)	4' - 6" (1372)	6' - 0" (1829)	7' - 6" (2286)	9' - 0" (2743)
RO (mm)	4' - 6" (1372)	6' - 0" (1829)	7' - 6" (2286)	9' - 0" (2743)
FS (mm)	4' - 5 1/2" (1359)	5' - 11 1/2" (1816)	7' - 5 1/2" (2273)	8' - 11 1/2" (2731)
DLO (mm)	11 53/64" (300)	17 53/64"(453)	23 53/64" (605)	29 53/64" (757)
3-11 3/4 (1213)				
4-0 (1219)				
3-11 1/2 (1207)				
41 53/64 (1062)				
4-5 3/4 (1365)				
4-6 (1372)				
4-5 1/2 (1359)				
47 53/64 (1215)				
4-11 3/4 (1518)				
5-0 (1524)				
4-11 1/2 (1511)				
53 53/64 (1367)				
5-5 3/4 (1670)				
5-6 (1676)				
5-5 1/2 (1664)				
59 53/64 (1519)				
5-11 3/4 (1822)				
6-0 (1829)				
5-11 1/2 (1816)				
65 53/64 (1672)				
6-5 3/4 (1975)				
6-6 (1981)				
6-5 1/2 (1969)				
71 53/64 (1824)				
6-11 3/4 (2127)				
7-0 (2134)				
6-11 1/2 (2121)				
77 53/64 (1977)				

4 Wide

MO (mm)	6' - 0" (1829)	8' - 0" (2438)
RO (mm)	6' - 0" (1829)	8' - 0" (2438)
FS (mm)	5' - 11 1/2" (1816)	7' - 11 1/2" (2426)
DLO (mm)	11 53/64" (300)	17 53/64"(453)
3-5 3/4 (1060)		
3-6 (1067)		
3-5 1/2 (1054)		
3-11 3/4 (1213)		
4-0 (1219)		
4-0 (1219)		
3-11 1/2 (1207)		
4-5 3/4 (1365)		
4-6 (1372)		
4-6 (1372)		
4-5 1/2 (1359)		
4-11 3/4 (1518)		
5-0 (1524)		
5-0 (1524)		
4-11 1/2 (1511)		
5-5 3/4 (1670)		
5-6 (1676)		
5-6 (1676)		
5-5 1/2 (1664)		
6-11 3/4 (1822)		
6-0 (1829)		
6-0 (1829)		
5-11 1/2 (1816)		
65 53/64 (1672)		
6-5 3/4 (1975)		
6-6 (1981)		
6-5 1/2 (1969)		
71 53/64 (1824)		

Casement - Multiple Assembly Samples

Casement Flankers with Center Picture

MO (mm)	8' - 0" (2438)	9' - 0" (2743)
RO (mm)	8' - 0" (2438)	9' - 0" (2743)
FS (mm)	7' - 11 1/2" (2426)	8' - 11 1/2" (2731)
3-5 3/4 (1060)		
3-6 (1067)		
3-5 1/2 (1054)		
3-11 3/4 (1213)		
4-0 (1219)		
4-0 (1219)		
3-11 1/2 (1207)		
4-5 3/4 (1365)		
4-6 (1372)		
4-6 (1372)		
4-5 1/2 (1359)		
4-11 3/4 (1518)		
5-0 (1524)		
5-0 (1524)		
4-11 1/2 (1511)		
5-5 3/4 (1670)		
5-6 (1676)		
5-6 (1676)		
5-5 1/2 (1664)		
6-11 3/4 (1822)		

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

Obscure Glass option available on all units.

GBG available in standard Rectangular lite cut, shown above. Other GBG lite cuts shown on page 5.

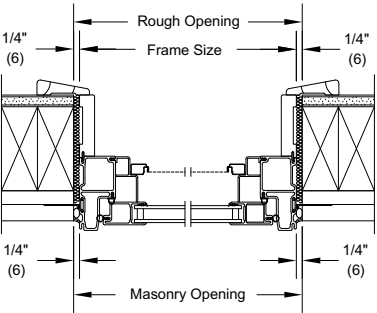
See page 58 for specific PG Ratings.

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

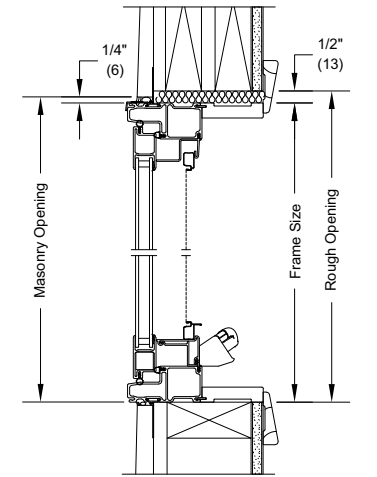
* These units may optionally include a window opening control device tested to ASTM F2090-10, which can be released from the inside without the use of a key, tool, special knowledge, or force greater than that required for normal unit operation.

WOCD not available on CN66 and CN70.

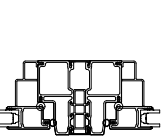
Construction Details



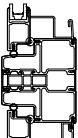
Jamb



Head Jamb & Sill



Vertical Mull
Casement/Awning/Picture To
Casement/Awning/Picture



Horizontal Mull
Casement/Awning/Picture To
Casement/Awning/Picture

MULLED ASSEMBLIES

Units can be factory mulled.

MAXIMUM ROUGH OPENING not to exceed 114" x 84". Maximum up to 6 units wide by 1 unit high.

MAXIMUM ROUGH OPENING not to exceed 72" x 114". Maximum up to 1 unit wide by 5 units high.

For Multi-Wide Multi-High assemblies, MAXIMUM ROUGH OPENING not to exceed 96" x 96". Maximum up to 5 units wide by 5 units high.

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

Please consult your local Marvin representative for more information.

Awning

1 Wide

MO (mm)	1' - 6" (457)	2' - 0" (610)	2' - 6" (762)	3' - 0" (914)	3' - 6" (1067)	4' - 0" (1219)	4' - 6" (1372)	5' - 0" (1524)
RO (mm)	1' - 6" (457)	2' - 0" (610)	2' - 6" (762)	3' - 0" (914)	3' - 6" (1067)	4' - 0" (1219)	4' - 6" (1372)	5' - 0" (1524)
FS (mm)	1' - 5 1/2" (445)	1' - 11 1/2" (597)	2' - 5 1/2" (749)	2' - 11 1/2" (902)	3' - 5 1/2" (1054)	3' - 11 1/2" (1207)	4' - 5 1/2" (1359)	4' - 11 1/2" (1511)
DLO (mm)	11 53/64" (300)	17 53/64" (453)	23 53/64" (605)	29 53/64" (757)	35 53/64" (910)	41 53/64" (1062)	47 53/64" (1215)	53 53/64" (1367)
3' - 11 3/4" (1213) 4' - 0" (1219) 3' - 11 1/2" (1207) 41 53/64" (1062)	 ESAWN1616	 ESAWN2016	 ESAWN2616	 ESAWN3016	 ESAWN3616	 ESAWN4016	 ESAWN4616	 ESAWN5016
2' - 5 3/4" (756) 2' - 6" (762) 2' - 5 1/2" (749) 23 53/64" (605)	 ESAWN1620	 ESAWN2020	 ESAWN2620	 ESAWN3020	 ESAWN3620	 ESAWN4020	 ESAWN4620	 ESAWN5020
2' - 5 3/4" (756) 2' - 6" (762) 2' - 5 1/2" (749) 23 53/64" (605)	 ESAWN1626	 ESAWN2026	 ESAWN2626	 ESAWN3026	 ESAWN3626	 ESAWN4026	 ESAWN4626	 ESAWN5026
2' - 11 3/4" (908) 3' - 0" (914) 2' - 11 1/2" (902) 29 53/64" (757)	 ESAWN1630	 ESAWN2030	 ESAWN2630	 ESAWN3030	 ESAWN3630	 ESAWN4030	 ESAWN4630	 ESAWN5030
3' - 5 3/4" (1060) 3' - 6" (1067) 3' - 5 1/2" (1054) 35 53/64" (910)	 ESAWN1636	 ESAWN2036	 ESAWN2636	 ESAWN3036	 ESAWN3636	 ESAWN4036	 ESAWN4636	 ESAWN5036
3' - 11 3/4" (1213) 4' - 0" (1219) 3' - 11 1/2" (1207) 41 53/64" (1062)	 ESAWN1640	 ESAWN2040	 ESAWN2640	 ESAWN3040	 ESAWN3640	 ESAWN4040	 ESAWN4640	 ESAWN5040

Awning

2 Wide

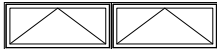
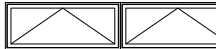
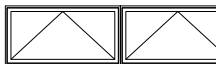
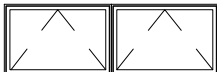
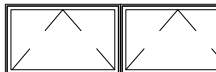
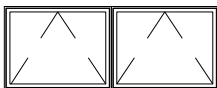
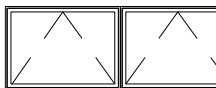
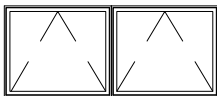
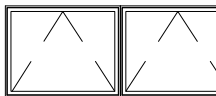
MO (mm)	3' - 0" (914)	4' - 0" (1219)	5' - 0" (1524)	6' - 0" (1829)	7' - 0" (2134)	8' - 0" (2438)
RO (mm)	3' - 0" (914)	4' - 0" (1219)	5' - 0" (1524)	6' - 0" (1829)	7' - 0" (2134)	8' - 0" (2438)
FS (mm)	2' - 11 1/2" (902)	3' - 11 1/2" (1207)	4' - 11 1/2" (1511)	5' - 11 1/2" (1816)	6' - 11 1/2" (2121)	7' - 11 1/2" (2426)
DLO (mm)	11 53/64" (300)	17 53/64" (453)	23 53/64" (605)	29 53/64" (757)	35 53/64" (910)	41 53/64" (1062)
3' - 11 3/4" (1213) 4' - 0" (1219) 3' - 11 1/2" (1207) 41 53/64" (1062)	 ESAWN1616	 ESAWN2016	 ESAWN2616	 ESAWN3016	 ESAWN3616	 ESAWN4016
2' - 11 3/4" (603) 2' - 0" (610) 1' - 11 1/2" (597) 17 53/64" (453)	 ESAWN1620	 ESAWN2020	 ESAWN2620	 ESAWN3020	 ESAWN3620	 ESAWN4020
2' - 5 3/4" (756) 2' - 6" (762) 2' - 5 1/2" (749) 23 53/64" (605)	 ESAWN1626	 ESAWN2026	 ESAWN2626	 ESAWN3026	 ESAWN3626	 ESAWN4026
2' - 11 3/4" (908) 3' - 0" (914) 2' - 11 1/2" (902) 29 53/64" (757)	 ESAWN1630	 ESAWN2030	 ESAWN2630	 ESAWN3030	 ESAWN3630	 ESAWN4030
3' - 5 3/4" (1060) 3' - 6" (1067) 3' - 5 1/2" (1054) 35 53/64" (910)	 ESAWN1636	 ESAWN2036	 ESAWN2636	 ESAWN3036	 ESAWN3636	 ESAWN4036
3' - 11 3/4" (1213) 4' - 0" (1219) 3' - 11 1/2" (1207) 41 53/64" (1062)	 ESAWN1640	 ESAWN2040	 ESAWN2640	 ESAWN4030	 ESAWN3640	 ESAWN4030

Awning

2 Wide

MO (mm)	9' - 0" (2743)	10'-0 (3048)
RO (mm)	9' - 0" (2743)	10'-0 (3048)
FS (mm)	8' - 11 1/2" (2731)	9'-11 1/2" (3035)
DLO (mm)	47 53/64" (1215)	53 53/64" (1367)

3' - 11 3/4" (1213)	3' - 5 3/4" (1060)	2' - 11 3/4" (908)	2' - 5 3/4" (756)	1' - 5 3/4" (451)
4' - 0" (1219)	3' - 6" (1067)	3' - 0" (914)	2' - 6" (762)	1' - 6" (457)
3' - 11 1/2" (1207)	3' - 5 1/2" (1054)	2' - 11 1/2" (902)	2' - 5 1/2" (749)	1' - 11 1/2" (597)
41 53/64" (1062)	35 53/64" (910)	29 53/64" (757)	23 53/64" (605)	17 53/64" (453)

	
ESAWN4616	ESAWN5016
	
ESAWN4620	ESAWN5020
	
ESAWN4626	ESAWN5026
	
ESAWN4630	ESAWN5030
	
ESAWN4636	ESAWN5036
	
ESAWN4640	ESAWN5040

Details and Elevations not to scale.

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

See page 58 for specific PG Ratings.

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

Awning

3 Wide

MO (mm)	4' - 6" (1372)	6' - 0" (1829)	7' - 6" (2286)	9' - 0" (2743)	10'-6" (3658)
RO (mm)	4' - 6" (1372)	6' - 0" (1829)	7' - 6" (2286)	9' - 0" (2743)	10'-6" (3658)
FS (mm)	4' - 5 1/2" (1359)	5' - 11 1/2" (1816)	7' - 5 1/2" (2273)	8' - 11 1/2" (2731)	10'-5 1/2" (3188)
DLO (mm)	11 53/64" (300)	17 53/64" (453)	23 53/64" (605)	29 53/64" (757)	35 53/64" (910)

2' - 11 3/4" (908)	2' - 5 3/4" (756)	1' - 11" 3/4" (603)	1' - 5 3/4" (451)
3' - 0" (914)	2' - 6" (762)	2' - 0" (610)	1' - 6" (457)
2' - 11 1/2" (902)	2' - 5 1/2" (749)	1' - 11 1/2" (597)	1' - 5 1/2" (445)
29 53/64" (757)	23 53/64" (605)	17 53/64" (453)	11 53/64" (300)

ESAWN1616	ESAWN2016	ESAWN2616	ESAWN3016	ESAWN3616
ESAWN1620	ESAWN2020	ESAWN2620	ESAWN3020	ESAWN3620
ESAWN1626	ESAWN2026	ESAWN2626	ESAWN3026	ESAWN3626
ESAWN1630	ESAWN2030	ESAWN2630	ESAWN3030	ESAWN3630

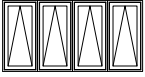
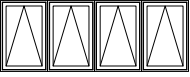
MO (mm)	12'-0" (3658)
RO (mm)	12'-0" (3658)
FS (mm)	11'11 1/2" (3645)
DLO (mm)	41 53/64" (1062)

2' - 11 3/4" (908)	2' - 5 3/4" (756)	1' - 11" 3/4" (603)	1' - 5 3/4" (451)
3' - 0" (914)	2' - 6" (762)	2' - 0" (610)	1' - 6" (457)
2' - 11 1/2" (902)	2' - 5 1/2" (749)	1' - 11 1/2" (597)	1' - 5 1/2" (445)
29 53/64" (757)	23 53/64" (605)	17 53/64" (453)	11 53/64" (300)

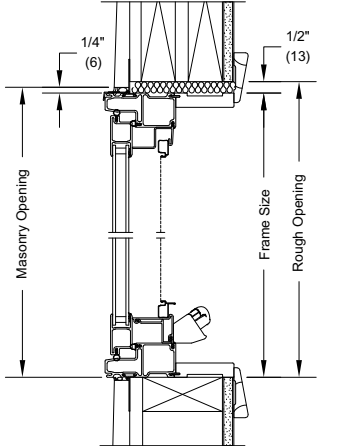
Awning

4 Wide

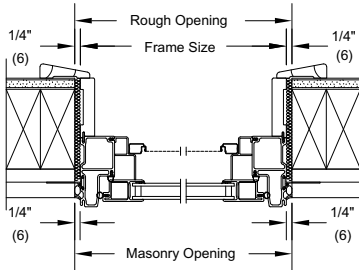
MO (mm)	6'-0" (1829)	8'-0" (2438)
RO (mm)	6'-0" (1829)	8'-0" (2438)
FS (mm)	5'-11 1/2" (1816)	7'-11 1/2" (2426)
DLO (mm)	11 53/64" (300)	17 53/64" (453)

2'-11 3/4" (908)	3'-0" (914)	2'-11 1/2" (902)	29 53/64" (757)		ESAWN1630
2'-5 3/4" (756)	2'-6" (762)	2'-5 1/2" (749)	23 53/64" (605)		ESAWN1626
1'-11 3/4" (603)	2'-0" (610)	1'-11 1/2" (597)	17 53/64" (453)		ESAWN1620
1'-5 3/4" (451)	1'-6" (457)	1'-5 1/2" (445)	11 53/64" (300)		ESAWN1616
2'-11 3/4" (908)	3'-0" (914)	2'-11 1/2" (902)	29 53/64" (757)		ESAWN2030
4'-5 3/4" (1365)	4'-6" (1372)	4'-5 1/2" (1359)	47 53/64" (1215)		ESAWN2026
3'-11 3/4" (1213)	4'-0" (1219)	3'-11 1/2" (1207)	41 53/64" (1062)		ESAWN2020
2'-11 3/4" (603)	2'-0" (610)	2'-5 1/2" (749)	23 53/64" (605)		ESAWN2016

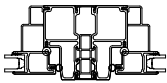
Construction Details



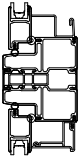
Head Jamb & Sill



Jambs



Vertical Mull
Casement/Awning/Picture To
Casement/Awning/Picture



Horizontal Mull
Casement/Awning/Picture To
Casement/Awning/Picture

MULLED ASSEMBLIES

Units can be factory mulled.

MAXIMUM ROUGH OPENING not to exceed 114" x 84". Maximum up to 6 units wide by 1 unit high.

MAXIMUM ROUGH OPENING not to exceed 72" x 114". Maximum up to 1 unit wide by 5 units high.

For Multi-Wide Multi-High assemblies, MAXIMUM ROUGH OPENING not to exceed 96" x 96". Maximum up to 5 units wide by 5 units high.

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

Please consult your local Marvin representative for more information.

Details and Elevations not to scale.

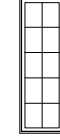
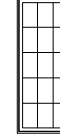
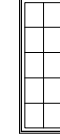
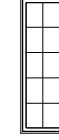
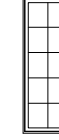
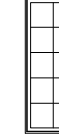
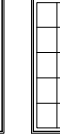
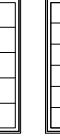
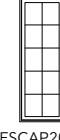
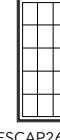
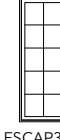
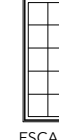
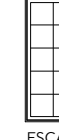
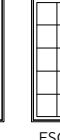
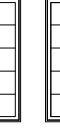
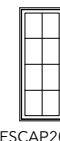
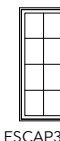
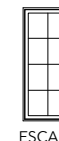
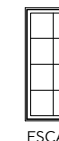
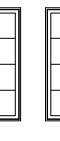
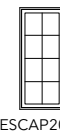
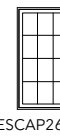
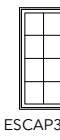
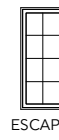
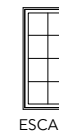
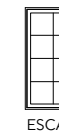
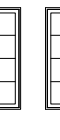
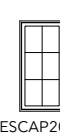
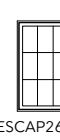
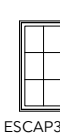
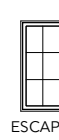
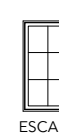
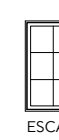
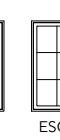
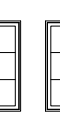
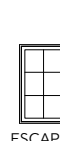
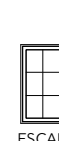
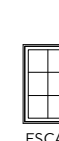
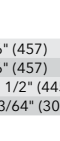
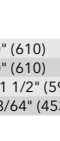
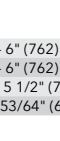
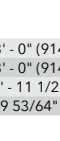
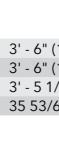
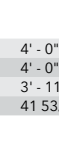
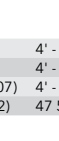
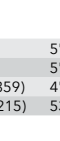
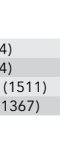
Special sized units available within product size matrix. See your Marvin retailer.

See page 58 for specific PG Ratings.

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

Casement Picture

MO (mm)	1'-6" (457)	2'-0" (610)	2'-6" (762)	3'-0" (914)	3'-6" (1067)	4'-0" (1219)	4'-6" (1372)	5'-0" (1524)	6'-0" (1829)
RO (mm)	1'-6" (457)	2'-0" (610)	2'-6" (762)	3'-0" (914)	3'-6" (1067)	4'-0" (1219)	4'-6" (1372)	5'-0" (1524)	6'-0" (1829)
FS (mm)	1'-5 1/2" (445)	1'-11 1/2" (597)	2'-5 1/2" (749)	2'-11 1/2" (902)	3'-5 1/2" (1054)	3'-11 1/2" (1207)	4'-5 1/2" (1359)	4'-11 1/2" (1511)	5'-11 1/2" (1816)
DLO (mm)	11 53/64" (300)	17 53/64" (453)	23 53/64" (605)	29 53/64" (757)	35 53/64" (910)	41 53/64" (1062)	47 53/64" (1215)	53 53/64" (1367)	65 53/64" (1672)

5'-11 3/4" (1822)	6'-0" (1829)	5'-11 1/2" (1816)	65 53/64" (1672)		ESCAP1660 T		ESCAP2060 T		ESCAP2660 T		ESCAP3060 T		ESCAP3660 T		ESCAP4060 T		ESCAP4660 T		ESCAP5060 T		ESCAP6060 T
5'-5 3/4" (1670)	5'-6" (1676)	5'-5 1/2" (1664)	59 53/64" (1519)		ESCAP1656		ESCAP2056		ESCAP2656		ESCAP3056		ESCAP3656		ESCAP4056		ESCAP4656		ESCAP5056		ESCAP6056
4'-11 3/4" (1518)	5'-0" (1524)	4'-11 1/2" (1511)	53 53/64" (1367)		ESCAP1650		ESCAP2050		ESCAP2650		ESCAP3050		ESCAP3650		ESCAP4050		ESCAP4650		ESCAP5050		ESCAP6050
4'-5 3/4" (1365)	4'-6" (1372)	4'-5 1/2" (1359)	47 53/64" (1215)		ESCAP1646		ESCAP2046		ESCAP2646		ESCAP3046		ESCAP3646		ESCAP4046		ESCAP4646		ESCAP5046		ESCAP6046
3'-11 3/4" (1213)	4'-0" (1219)	3'-11 1/2" (1207)	41 53/64" (1062)		ESCAP1640		ESCAP2040		ESCAP2640		ESCAP3040		ESCAP3640		ESCAP4040		ESCAP4640		ESCAP5040		ESCAP6040
3'-5 3/4" (1060)	3'-6" (1067)	3'-5 1/2" (1054)	35 53/64" (910)		ESCAP1636		ESCAP2036		ESCAP2636		ESCAP3036		ESCAP3636		ESCAP4036		ESCAP4636		ESCAP5036		ESCAP6036
2'-11 3/4" (908)	3'-0" (914)	2'-11 1/2" (902)	29 53/64" (757)		ESCAP1630		ESCAP2030		ESCAP2630		ESCAP3030		ESCAP3630		ESCAP4030		ESCAP4630		ESCAP5030		ESCAP6030
2'-5 3/4" (756)	2'-6" (762)	2'-5 1/2" (749)	23 53/64" (605)		ESCAP1626		ESCAP2026		ESCAP2626		ESCAP3026		ESCAP3626		ESCAP4026		ESCAP4626		ESCAP5026		ESCAP6026
1'-11 3/4" (603)	2'-0" (610)	1'-11 1/2" (597)	17 53/64" (453)		ESCAP1620		ESCAP2020		ESCAP2620		ESCAP3020		ESCAP3620		ESCAP4020		ESCAP4620		ESCAP5020		ESCAP6020

Details and Elevations not to scale.

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

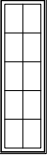
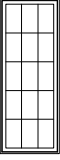
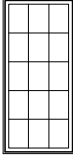
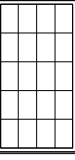
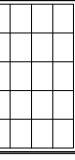
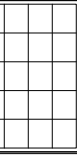
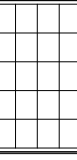
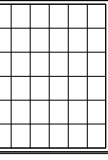
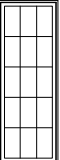
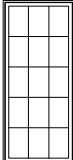
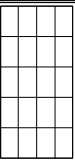
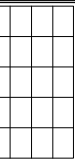
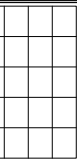
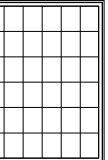
T = Standard Tempered.

GBG available in standard Rectangular lite cut, shown above. Other GBG lite cuts shown on page 5.

See page 58 for specific PG Ratings.

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

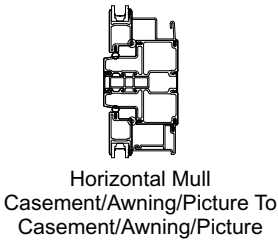
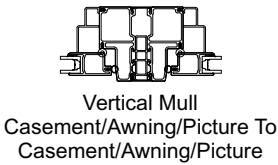
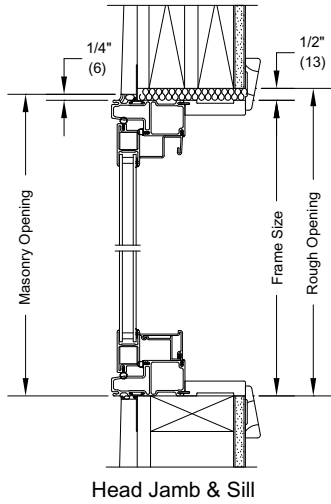
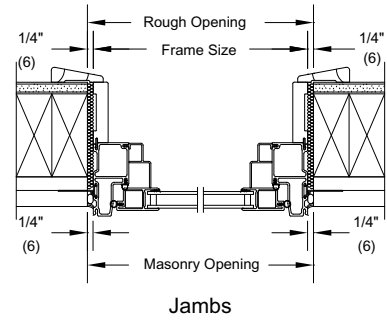
Casement Picture

MO (mm)	1' - 6" (457)	2' - 0" (610)	2' - 6" (762)	3' - 0" (914)	3' - 6" (1067)	4' - 0" (1219)	4' - 6" (1372)	5' - 0" (1524)	6' - 0" (1829)
RO (mm)	1' - 6" (457)	2' - 0" (610)	2' - 6" (762)	3' - 0" (914)	3' - 6" (1067)	4' - 0" (1219)	4' - 6" (1372)	5' - 0" (1524)	6' - 0" (1829)
FS (mm)	1' - 5 1/2" (445)	1' - 11 1/2" (597)	2' - 5 1/2" (749)	2' - 11 1/2" (902)	3' - 5 1/2" (1054)	3' - 11 1/2" (1207)	4' - 5 1/2" (1359)	4' - 11 1/2" (1511)	5' - 11 1/2" (1816)
DLO (mm)	11 53/64" (300)	17 53/64" (453)	23 53/64" (605)	29 53/64" (757)	35 53/64" (910)	41 53/64" (1062)	47 53/64" (1215)	53 53/64" (1367)	65 53/64" (1672)
6-5 3/4" (1975)									
6-6" (1981)									
6-5 1/2" (1969)									
71 53/64" (1824)	ESCAP1666 T	ESCAP2066 T	ESCAP2666 T	ESCAP3066 T	ESCAP3666 T	ESCAP4066 T	ESCAP4666 T	ESCAP5066 T	ESCAP6066 T
6-11 3/4" (2127)									
7-0" (2134)									
6-11 1/2" (2121)									
77 53/64" (1977)	ESCAP1670 T	ESCAP2070 T	ESCAP2670 T	ESCAP3070 T	ESCAP3670 T	ESCAP4070 T	ESCAP4670 T	ESCAP5070 T	ESCAP6070 T

Casement Transom

MO (mm)	1' - 6" (457)	2' - 0" (610)	2' - 6" (762)	3' - 0" (914)	3' - 6" (1067)	4' - 0" (1219)	5' - 0" (1524)	6' - 0" (1829)
RO (mm)	1' - 6" (457)	2' - 0" (610)	2' - 6" (762)	3' - 0" (914)	3' - 6" (1067)	4' - 0" (1219)	5' - 0" (1524)	6' - 0" (1829)
FS (mm)	1' - 5 1/2" (445)	1' - 11 1/2" (597)	2' - 5 1/2" (749)	2' - 11 1/2" (902)	3' - 5 1/2" (1054)	3' - 11 1/2" (1207)	4' - 11 1/2" (1511)	5' - 11 1/2" (1816)
DLO (mm)	11 53/64" (300)	17 53/64" (453)	23 53/64" (605)	29 53/64" (757)	35 53/64" (910)	41 53/64" (1062)	53 53/64" (1367)	65 53/64" (1672)
0' - 11 3/4" (298)								
1' - 0" (305)								
0' - 11 1/2" (292)								
5 53/64" (148)	ESCATR1610	ESCATR2010	ESCATR2610	ESCATR3010	ESCATR3610	ESCATR4010	ESCATR4610	ESCATR5010
1' - 5 3/4" (451)								
1' - 6" (457)								
0' - 11 1/2" (292)								
11 53/64" (300)	ESCATR1616	ESCATR2016	ESCATR2616	ESCATR3016	ESCATR3616	ESCATR4016	ESCATR4616	ESCATR5016
1' - 11 3/4" (403)								
2' - 0" (610)								
1' - 11 1/2" (597)								
17 53/64" (453)	ESCATR1620	ESCATR2020	ESCATR2620	ESCATR3020	ESCATR3620	ESCATR4020	ESCATR4620	ESCATR5020

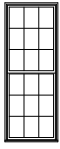
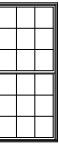
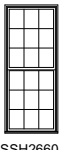
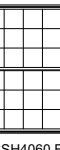
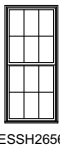
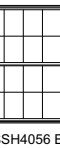
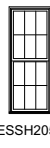
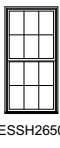
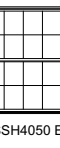
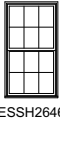
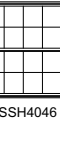
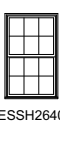
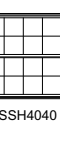
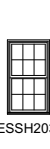
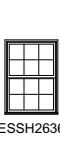
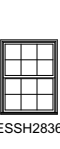
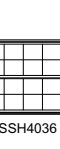
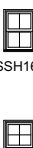
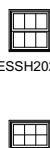
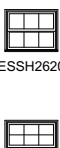
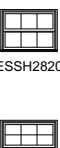
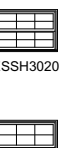
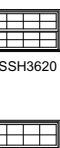
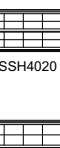
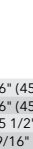
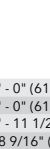
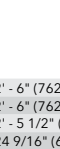
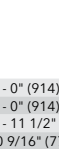
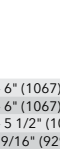
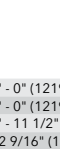
Construction Details



Details and Elevations not to scale.
Special sized units available within product size matrix. See your Marvin retailer.
T = Standard Tempered.
GBG available on all sizes in standard Rectangular lite cut, shown above. Other GBG lite cuts shown on page 5.
See page 58 for specific PG Ratings.
For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

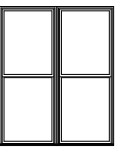
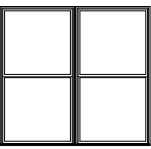
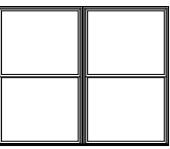
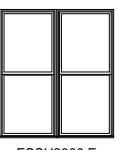
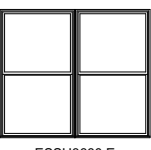
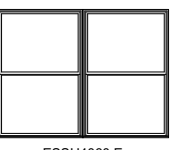
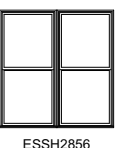
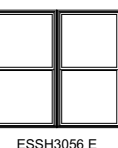
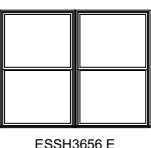
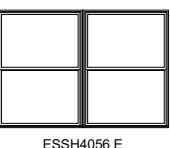
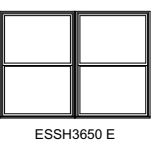
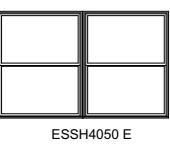
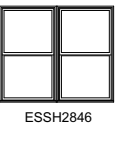
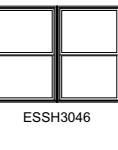
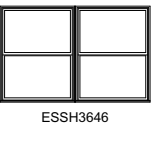
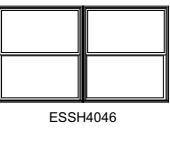
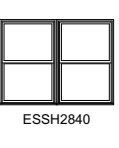
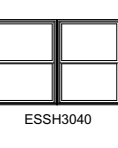
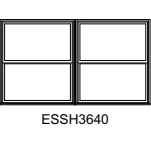
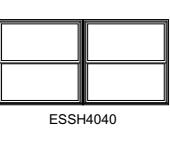
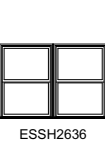
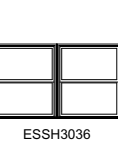
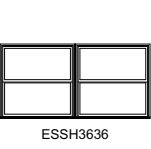
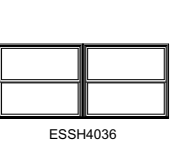
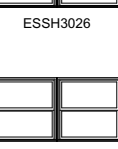
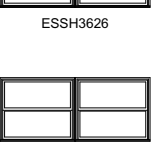
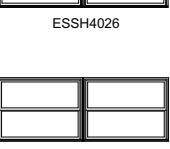
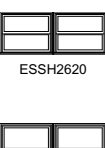
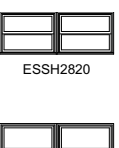
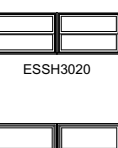
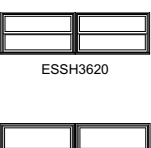
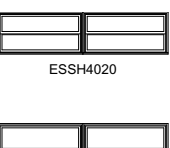
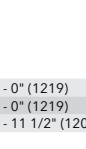
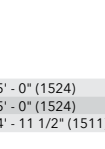
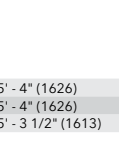
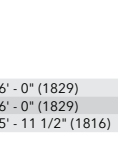
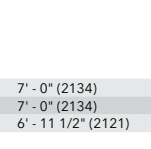
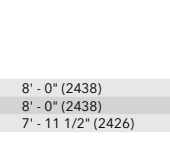
Single Hung

1 Wide

MO (mm)	1'-6" (457)	2'-0" (610)	2'-6" (762)	2'-8" (813)	3'-0" (914)	3'-6" (1067)	4'-0" (1219)
RO (mm)	1'-6" (457)	2'-0" (610)	2'-6" (762)	2'-8" (813)	3'-0" (914)	3'-6" (1067)	4'-0" (1219)
FS (mm)	1'-5 1/2" (445)	1'-11 1/2" (597)	2'-5 1/2" (749)	2'-7 1/2" (800)	2'-11 1/2" (902)	3'-5 1/2" (1054)	3'-11 1/2" (1207)
DLO (mm)	12 9/16" (319)	18 9/16" (471)	24 9/16" (624)	26 9/16" (675)	30 9/16" (776)	36 9/16" (929)	42 9/16" (1081)
6'-5 3/4" (1975) 6'-6" (1981) 35 5/16" (897)							
5'-11 3/4" (1822) 6'-0" (1829) 5'-11 1/2" (1816) 32 5/16" (821)							
5'-5 3/4" (1670) 5'-6" (1676) 5'-5 1/2" (1664) 29 5/16" (744)							
4'-11 3/4" (1518) 5'-0" (1524) 4'-11 1/2" (1511) 26 5/16" (668)							
4'-5 3/4" (1365) 4'-6" (1372) 4'-5 1/2" (1359) 23 5/16" (592)							
3'-11 3/4" (1213) 4'-0" (1219) 3'-11 1/2" (1207) 20 5/16" (516)							
3'-5 3/4" (1060) 3'-6" (1067) 3'-5 1/2" (1054) 17 5/16" (440)							
2'-11 3/4" (908) 3'-0" (914) 2'-11 1/2" (902) 14 5/16" (363)							
2'-5 3/4" (756) 2'-6" (762) 2'-5 1/2" (749) 11 5/16" (287)							
1'-11 3/4" (603) 2'-0" (610) 2'-0" (610) 8 5/16" (211)							

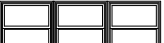
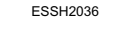
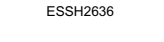
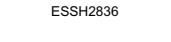
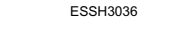
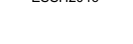
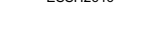
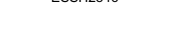
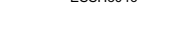
Single Hung

2 Wide

MO (mm)	3'-0" (914)	4'-0" (1219)	5'-0" (1524)	5'-4" (1626)	6'-0" (1829)	7'-0" (2134)	8'-0" (2438)
RO (mm)	3'-0" (914)	4'-0" (1219)	5'-0" (1524)	5'-4" (1626)	6'-0" (1829)	7'-0" (2134)	8'-0" (2438)
FS (mm)	2'-11 1/2" (902)	3'-11 1/2" (1207)	4'-11 1/2" (1511)	5'-3 1/2" (1613)	5'-11 1/2" (1816)	6'-11 1/2" (2121)	7'-11 1/2" (2426)
6'-5 3/4" (1975) 6'-6" (1981) 35 5/16" (897)							
5'-11 3/4" (1822) 6'-0" (1829) 5'-11 1/2" (1816) 32 5/16" (821)							
5'-5 3/4" (1670) 5'-6" (1676) 5'-5 1/2" (1664) 29 5/16" (744)							
4'-11 3/4" (1518) 5'-0" (1524) 4'-11 1/2" (1511) 26 5/16" (668)							
4'-5 3/4" (1365) 4'-6" (1372) 4'-5 1/2" (1359) 23 5/16" (592)							
3'-11 3/4" (1213) 4'-0" (1219) 3'-11 1/2" (1207) 20 5/16" (516)							
3'-5 3/4" (1060) 3'-6" (1067) 3'-5 1/2" (1054) 17 5/16" (440)							
2'-11 3/4" (908) 3'-0" (914) 2'-11 1/2" (902) 14 5/16" (363)							
2'-5 3/4" (756) 2'-6" (762) 2'-5 1/2" (749) 11 5/16" (287)							
1'-11 3/4" (603) 2'-0" (610) 2'-0" (610) 8 5/16" (211)							

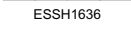
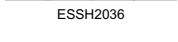
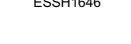
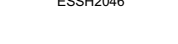
Single Hung

3 Wide

MO (mm)	4' - 6" (1372)	6' - 0" (1829)	7' - 6" (2286)	8' - 0" (2438)	9' - 0" (2743)
RO (mm)	4' - 6" (1372)	6' - 0" (1829)	7' - 6" (2286)	8' - 0" (2438)	9' - 0" (2743)
FS (mm)	4' - 5 1/2" (1359)	5' - 11 1/2" (1816)	7' - 5 1/2" (2273)	7' 11 1/2" (2426)	8' - 11 1/2" (2731)
6' - 5 3/4" (1975) 6' - 6" (1981) 6' - 5 1/2" (1969)	 ESSH1620	 ESSH2020	 ESSH2620	 ESSH2820	 ESSH3020
2' - 5 3/4" (756) 2' - 6" (762) 2' - 5 1/2" (749)	 ESSH1626	 ESSH2026	 ESSH2626	 ESSH2826	 ESSH3026
2' - 11 3/4" (908) 3' - 0" (914) 2' - 11 1/2" (902)	 ESSH1630	 ESSH2030	 ESSH2630	 ESSH2830	 ESSH3030
3' - 5 3/4" (1060) 3' - 6" (1067) 3' - 5 1/2" (1054)	 ESSH1636	 ESSH2036	 ESSH2636	 ESSH2836	 ESSH3036
3' - 11 3/4" (1213) 4' - 0" (1219) 3' - 11 1/2" (1207)	 ESSH1640	 ESSH2040	 ESSH2640	 ESSH2840	 ESSH3040
4' - 5 3/4" (1365) 4' - 6" (1372) 4' - 5 1/2" (1359)	 ESSH1646	 ESSH2046	 ESSH2646	 ESSH2846	 ESSH3046
4' - 11 3/4" (1518) 5' - 0" (1524) 4' - 11 1/2" (1511)	 ESSH1650	 ESSH2050	 ESSH2650	 ESSH2850	 ESSH3050 E
5' - 5 3/4" (1670) 5' - 6" (1676) 5' - 5 1/2" (1664)	 ESSH1656	 ESSH2056	 ESSH2656	 ESSH2856	 ESSH3056 E
5' - 11 3/4" (1822) 6' - 0" (1829) 5' - 11 1/2" (1816)	 ESSH1660	 ESSH2060	 ESSH2660 E	 ESSH2860 E	 ESSH3060 E
	 ESSH1666	 ESSH2066	 ESSH2666 E	 ESSH2866 E	 ESSH3066 E

Single Hung

4 Wide

MO (mm)	6' - 0" (1829)	8' - 0" (2438)
RO (mm)	6' - 0" (1829)	8' - 0" (2438)
FS (mm)	5' - 11 1/2" (1816)	7' - 11 1/2" (2426)
1' - 11" 3/4" (603) 2' - 0" (610) 1' - 11 1/2" (597)	 ESSH1620	 ESSH2020
2' - 5 3/4" (756) 2' - 6" (762) 2' - 5 1/2" (749)	 ESSH1626	 ESSH2026
2' - 11 3/4" (908) 3' - 0" (914) 2' - 11 1/2" (902)	 ESSH1630	 ESSH2030
3' - 5 3/4" (1060) 3' - 6" (1067) 3' - 5 1/2" (1054)	 ESSH1636	 ESSH2036
3' - 11 3/4" (1213) 4' - 0" (1219) 3' - 11 1/2" (1207)	 ESSH1640	 ESSH2040
4' - 5 3/4" (1365) 4' - 6" (1372) 4' - 5 1/2" (1359)	 ESSH1646	 ESSH2046
4' - 11 3/4" (1518) 5' - 0" (1524) 4' - 11 1/2" (1511)	 ESSH1650	 ESSH2050
5' - 5 3/4" (1670) 5' - 6" (1676) 5' - 5 1/2" (1664)	 ESSH1656	 ESSH2056
5' - 11 3/4" (1822) 6' - 0" (1829) 5' - 11 1/2" (1816)	 ESSH1660	 ESSH2060
6' - 5 3/4" (1975) 6' - 6" (1981) 6' - 5 1/2" (1969)	 ESSH1666	 ESSH2066

GBG available in standard Rectangular lite cut, shown. Other GBG lite cuts shown on page 5.

E = These windows (in equal sash) meet National Egress Codes for fire evacuation. Local codes may differ.

Details and Elevations not to scale.

Available in equal, cottage, and reverse cottage sash configurations. Cottage and reverse cottage sash configurations are not available on 20 call number heights.

Units may optionally include a window opening control device tested to ASTM F2090-10, which can be released from the inside without the use of a key, tool, special knowledge, or force greater than that required for normal unit operation.

Special sized units available within product size matrix.

See your Marvin retailer.

See page 58 for specific PG Ratings.

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

Single Hung

Transom Mulled Over Single Hung

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

5'- 11 3/4" (1822)

6'- 0" (1829)

5'- 11 1/2" (1816)

ESDHTR2616

ESSH2646

Transom Mulled Over Single Hung 2 Wide

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

5'- 11 3/4" (1822)

6'- 0" (1829)

5'- 11 1/2" (1816)

ESDHTR5016

ESSH2646 / ESSH2646

Single Hung Flankers with Center Picture*

MO (mm)	10'- 0" (3048)
RO (mm)	10'- 0" (3048)
FS (mm)	9'- 11 1/2" (3035)

4'- 5 3/4" (1365)

4'- 6" (1372)

4'- 5 1/2" (1359)

ESSH2646 / ESDHP5046 / ESSH2646

Single Hung Flankers with Center Operator

MO (mm)	7'- 6" (2286)
RO (mm)	7'- 6" (2286)
FS (mm)	7'- 5 1/2" (2273)

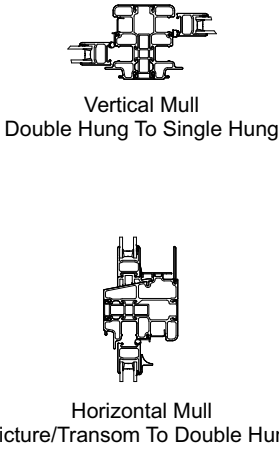
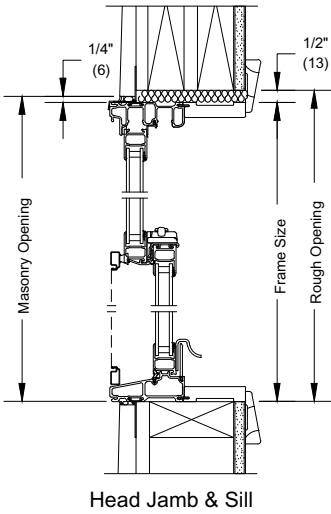
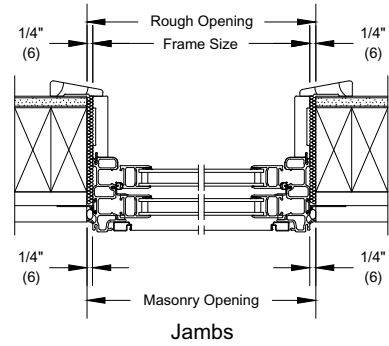
4'- 5 3/4" (1365)

4'- 6" (1372)

4'- 5 1/2" (1359)

ESSH2646 ESSH2646 ESSH2646

Construction Details



E = These windows (in equal sash) meet National Egress Codes for fire evacuation. Local codes may differ.

* This product is only available field mulled.

Details and Elevations not to scale.

Available in equal, cottage, and reverse cottage sash configurations. Cottage and reverse cottage sash configurations are not available on 20 and 66 call number heights.

Units may optionally include a window opening control device tested to ASTM F2090-10, which can be released from the inside without the use of a key, tool, special knowledge, or force greater than that required for normal unit operation.

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

See page 58 for specific PG Ratings.

MULLED ASSEMBLIES

Units can be factory mulled.

MAXIMUM ROUGH OPENING not to exceed 114" x 78". Maximum up to 6 units wide by 1 unit high.

MAXIMUM ROUGH OPENING not to exceed 60" x 96". Maximum up to 1 unit wide by 5 units high.

For Multi-Wide Multi-High assemblies, MAXIMUM ROUGH OPENING not to exceed 96" x 96". Maximum up to 5 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

1 Wide

MO (mm)	1'- 6" (457)	2'- 0" (610)	2'- 6" (762)	2'- 8" (813)	3'- 0" (914)	3'- 6" (1067)	4'- 0" (1219)
RO (mm)	1'- 6" (457)	2'- 0" (610)	2'- 6" (762)	2'- 8" (813)	3'- 0" (914)	3'- 6" (1067)	4'- 0" (1219)
FS (mm)	1'- 5 1/2" (445)	1'- 11 1/2" (597)	2'- 5 1/2" (749)	2'- 7 1/2" (800)	2'- 11 1/2" (902)	3'- 5 1/2" (1054)	3'- 11 1/2" (1207)
DLO (mm)	12 9/16" (319)	18 9/16" (471)	24 9/16" (624)	26 9/16" (675)	30 9/16" (776)	36 9/16" (929)	42 9/16" (1081)

2'- 5 3/4" (756)

2'- 6" (762)

2'- 5 1/2" (749)

11 5/16" (287)

8 5/16" (211)

ESDH1620

ESDH2020

ESDH2620

ESDH2820

ESDH3020

ESDH3620

ESDH4020

ESDH1626

ESDH2026

ESDH2626

ESDH2826

ESDH3026

ESDH3626

ESDH4026

ESDH1630

ESDH2030

ESDH2630

ESDH2830

ESDH3030

ESDH3630

ESDH4030

ESDH1636

ESDH2036

ESDH2636

ESDH2836

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ESDH1640

ESDH2040

ESDH2640

ESDH2840

ESDH3040

ESDH3640

ESDH4040

ESDH1646

ESDH2046

ESDH2646

ESDH2846

ESDH3046

ESDH3646

ESDH4046

ESDH1650

ESDH2050

ESDH2650

ESDH2850

ESDH3050 E

ESDH3650 E

ESDH4050 E

ESDH1656

ESDH2056

ESDH2656

ESDH2856

ESDH3056 E

ESDH3656 E

ESDH4056 E

ESDH1660

ESDH2060

ESDH2660 E

ESDH2860 E

ESDH3060 E

ESDH3660 E

ESDH4060 E

ESDH1666

ESDH2066

ESDH2666 E

ESDH2866 E

ESDH3066 E

ESDH3660 E

ESDH4066 E

Double Hung

2 Wide

MO (mm)	3'-0" (914)	4'-0" (1219)	5'-0" (1524)	5'-4" (1626)	6'-0" (1829)	7'-0" (2134)	8'-0" (2438)
RO (mm)	3'-0" (914)	4'-0" (1219)	5'-0" (1524)	5'-4" (1626)	6'-0" (1829)	7'-0" (2134)	8'-0" (2438)
FS (mm)	2'-11 1/2" (902)	3'-11 1/2" (1207)	4'-11 1/2" (1511)	5'-3 1/2" (1600)	5'-11 1/2" (1816)	6'-11 1/2" (2121)	7'-11 1/2" (2426)
1'-11 3/4" (603) 2'-0" (610) 2'-5 3/4" (756) 2'-6" (762) 2'-11 3/4" (908) 3'-0" (914) 3'-5 3/4" (1060) 3'-6" (1067) 3'-11 3/4" (1213) 4'-0" (1219) 4'-5 3/4" (1365) 4'-6" (1372) 4'-11 3/4" (1518) 5'-0" (1524) 5'-5 3/4" (1670) 5'-6" (1676) 5'-11 3/4" (1822) 6'-0" (1829) 6'-5 3/4" (1975) 6'-6" (1981) 6'-11 1/2" (1969)	 ESDH1620	 ESDH2020	 ESDH2620	 ESDH2820	 ESDH3020	 ESDH3620	 ESDH4020
2'-5 3/4" (756) 2'-6" (762) 2'-11 3/4" (908) 3'-0" (914) 3'-5 3/4" (1060) 3'-6" (1067) 3'-11 3/4" (1213) 4'-0" (1219) 4'-5 3/4" (1365) 4'-6" (1372) 4'-11 3/4" (1518) 5'-0" (1524) 5'-5 3/4" (1670) 5'-6" (1676) 5'-11 3/4" (1822) 6'-0" (1829) 6'-5 3/4" (1975) 6'-6" (1981) 6'-11 1/2" (1969)	 ESDH1626	 ESDH2026	 ESDH2626	 ESDH2826	 ESDH3026	 ESDH3626	 ESDH4026
2'-11 3/4" (908) 3'-0" (914) 3'-5 3/4" (1060) 3'-6" (1067) 3'-11 3/4" (1213) 4'-0" (1219) 4'-5 3/4" (1365) 4'-6" (1372) 4'-11 3/4" (1518) 5'-0" (1524) 5'-5 3/4" (1670) 5'-6" (1676) 5'-11 3/4" (1822) 6'-0" (1829) 6'-5 3/4" (1975) 6'-6" (1981) 6'-11 1/2" (1969)	 ESDH1630	 ESDH2030	 ESDH2630	 ESDH2830	 ESDH3030	 ESDH3630	 ESDH4030
3'-5 3/4" (1060) 3'-6" (1067) 3'-11 3/4" (1213) 4'-0" (1219) 4'-5 3/4" (1365) 4'-6" (1372) 4'-11 3/4" (1518) 5'-0" (1524) 5'-5 3/4" (1670) 5'-6" (1676) 5'-11 3/4" (1822) 6'-0" (1829) 6'-5 3/4" (1975) 6'-6" (1981) 6'-11 1/2" (1969)	 ESDH1636	 ESDH2036	 ESDH2636	 ESDH2836	 ESDH3036	 ESDH3636	 ESDH4036
4'-5 3/4" (1365) 4'-6" (1372) 4'-11 3/4" (1518) 5'-0" (1524) 5'-5 3/4" (1670) 5'-6" (1676) 5'-11 3/4" (1822) 6'-0" (1829) 6'-5 3/4" (1975) 6'-6" (1981) 6'-11 1/2" (1969)	 ESDH1640	 ESDH2040	 ESDH2640	 ESDH2840	 ESDH3040	 ESDH3640	 ESDH4040
5'-5 3/4" (1670) 5'-6" (1676) 5'-11 3/4" (1822) 6'-0" (1829) 6'-5 3/4" (1975) 6'-6" (1981) 6'-11 1/2" (1969)	 ESDH1646	 ESDH2046	 ESDH2646	 ESDH2846	 ESDH3046	 ESDH3646	 ESDH4046
6'-5 3/4" (1975) 6'-6" (1981) 6'-11 1/2" (1969)	 ESDH1650	 ESDH2050	 ESDH2650	 ESDH2850	 ESDH3050 E	 ESDH3650 E	 ESDH4050 E
	 ESDH1656	 ESDH2056	 ESDH2656	 ESDH2856	 ESDH3056 E	 ESDH3656 E	 ESDH4056 E
	 ESDH1660	 ESDH2060	 ESDH2660 E	 ESDH2860 E	 ESDH3060 E	 ESDH3660 E	 ESDH4060 E
	 ESDH1666	 ESDH2066	 ESDH2666 E	 ESDH2866 E	 ESDH3066 E	 ESDH3666 E	 ESDH4066 E

Double Hung

3 Wide

MO (mm)	4'-6" (1372)	6'-0" (1829)	7'-6" (2286)	8'-0" (2438)	9'-0" (2743)
RO (mm)	4'-6" (1372)	6'-0" (1829)	7'-6" (2286)	8'-0" (2438)	9'-0" (2743)
FS (mm)	4'-5 1/2" (1359)	5'-11 1/2" (1816)	7'-5 1/2" (2273)	7'-11 1/2" (2413)	8'-11 1/2" (2731)
1'-11 3/4" (603) 2'-0" (610) 2'-5 3/4" (756) 2'-6" (762) 2'-11 3/4" (908) 3'-0" (914) 3'-5 3/4" (1060) 3'-6" (1067) 3'-11 3/4" (1213) 4'-0" (1219) 4'-5 3/4" (1365) 4'-6" (1372) 4'-11 3/4" (1518) 5'-0" (1524) 5'-5 3/4" (1670) 5'-6" (1676) 5'-11 3/4" (1822) 6'-0" (1829) 6'-5 3/4" (1975) 6'-6" (1981) 6'-11 1/2" (1969)	 ESDH1620	 ESDH2020	 ESDH2620	 ESDH2820	 ESDH3026
2'-5 3/4" (756) 2'-6" (762) 2'-11 3/4" (908) 3'-0" (914) 3'-5 3/4" (1060) 3'-6" (1067) 3'-11 3/4" (1213) 4'-0" (1219) 4'-5 3/4" (1365) 4'-6" (1372) 4'-11 3/4" (1518) 5'-0" (1524) 5'-5 3/4" (1670) 5'-6" (1676) 5'-11 3/4" (1822) 6'-0" (1829) 6'-5 3/4" (1975) 6'-6" (1981) 6'-11 1/2" (1969)	 ESDH1626	 ESDH2026	 ESDH2626	 ESDH2826	 ESDH3026
3'-5 3/4" (1060) 3'-6" (1067) 3'-11 3/4" (1213) 4'-0" (1219) 4'-5 3/4" (1365) 4'-6" (1372) 4'-11 3/4" (1518) 5'-0" (1524) 5'-5 3/4" (1670) 5'-6" (1676) 5'-11 3/4" (1822) 6'-0" (1829) 6'-5 3/4" (1975) 6'-6" (1981) 6'-11 1/2" (1969)	 ESDH1630	 ESDH2030	 ESDH2630	 ESDH2830	 ESDH3030
4'-5 3/4" (1365) 4'-6" (1372) 4'-11 3/4" (1518) 5'-0" (1524) 5'-5 3/4" (1670) 5'-6" (1676) 5'-11 3/4" (1822) 6'-0" (1829) 6'-5 3/4" (1975) 6'-6" (1981) 6'-11 1/2" (1969)	 ESDH1636	 ESDH2036	 ESDH2636	 ESDH2836	 ESDH3036
5'-5 3/4" (1670) 5'-6" (1676) 5'-11 3/4" (1822) 6'-0" (1829) 6'-5 3/4" (1975) 6'-6" (1981) 6'-11 1/2" (1969)	 ESDH1640	 ESDH2040	 ESDH2640	 ESDH2840	 ESDH3040
	 ESDH1646	 ESDH2046	 ESDH2646	 ESDH2846	 ESDH3046
	 ESDH1650	 ESDH2050	 ESDH2650	 ESDH2850	 ESDH3050 E
	 ESDH1656	 ESDH2056	 ESDH2656	 ESDH2856	 ESDH3056 E
	 ESDH1660	 ESDH2060	 ESDH2660 E	 ESDH2860 E	 ESDH3060 E
	 ESDH1666	 ESDH2066	 ESDH2666 E	 ESDH2866 E	 ESDH3066 E

Double Hung

4 Wide

MO (mm)	6' - 0" (1829)	8' - 0" (2438)
RO (mm)	6' - 0" (1829)	8' - 0" (2438)
FS (mm)	5' - 11 1/2" (1816)	7' - 11 1/2" (2426)

5' - 11 3/4" (1822)	1' - 11 3/4" (603)	
6' - 0" (1829)	2' - 0" (610)	
5' - 11 1/2" (1816)	1' - 11 1/2" (597)	
2' - 5 3/4" (754)	2' - 5 3/4" (754)	
2' - 6" (762)	2' - 6" (762)	
2' - 5 1/2" (749)	2' - 5 1/2" (749)	
2' - 11 3/4" (908)	3' - 0" (914)	
2' - 11 1/2" (902)	2' - 11 1/2" (902)	
3' - 5 3/4" (1060)	3' - 5 3/4" (1060)	
3' - 6" (1067)	3' - 6" (1067)	
3' - 5 1/2" (1054)	3' - 5 1/2" (1054)	
4' - 5 3/4" (1365)	4' - 5 3/4" (1365)	
4' - 6" (1372)	4' - 6" (1372)	
4' - 5 1/2" (1359)	4' - 5 1/2" (1359)	
4' - 11 3/4" (1213)	5' - 0" (1524)	
4' - 11 1/2" (1207)	4' - 11 1/2" (1511)	
5' - 5 3/4" (1670)	5' - 5 3/4" (1670)	
5' - 6" (1676)	5' - 6" (1676)	
5' - 5 1/2" (1664)	5' - 5 1/2" (1664)	
5' - 11 3/4" (1822)	6' - 0" (1829)	
5' - 11 1/2" (1816)	5' - 11 1/2" (1816)	
6' - 5 3/4" (1975)	6' - 6" (1981)	
6' - 5 1/2" (1969)	6' - 5 1/2" (1969)	

ESDH1620	ESDH2020
ESDH1626	ESDH2026
ESDH1630	ESDH2030
ESDH1636	ESDH2036
ESDH1640	ESDH2040
ESDH1646	ESDH2046
ESDH1650	ESDH2050
ESDH1656	ESDH2056
ESDH1660	ESDH2060
ESDH1666	ESDH2066

GBG available in standard Rectangular lite cut, shown. Other GBG lite cuts shown on page 5.

E = These windows (in equal sash) meet National Egress Codes for fire evacuation. Local codes may differ.

Details and Elevations not to scale.

Available in equal, cottage, and reverse cottage sash configurations. Cottage and reverse cottage sash configurations are not available on 20, 60, and 66 call number heights.

Units may optionally include a window opening control device tested to ASTM F2090-10, which can be released from the inside without the use of a key, tool, special knowledge, or force greater than that required for normal unit operation.

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

See page 58 for specific PG Ratings.

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

Double Hung - Transoms and Multiple Assemblies

Transom Mull'd Over Double Hung

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

5' - 11 3/4" (1822)	
6' - 0" (1829)	
5' - 11 1/2" (1816)	

ESDHTR2616
ESDH2646

Transom Mull'd Over Double Hung 2 Wide

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

5' - 11 3/4" (1822)	
6' - 0" (1829)	
5' - 11 1/2" (1816)	

ESDHTR5016
ESDH2646 / ESDH2646

Double Hung Flankers with Center Picture*

MO (mm)	10' - 0" (3048)
RO (mm)	10' - 0" (3048)
FS (mm)	9' - 11 1/2" (3035)

4' - 5 3/4" (1365)	
4' - 6" (1372)	
4' - 5 1/2" (1359)	

ESDH2646 / ESDHP5046 / ESDH2646

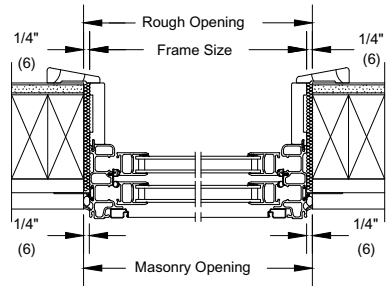
Double Hung Flankers with Center Operator

MO (mm)	7' - 6" (2286)
RO (mm)	7' - 6" (2286)
FS (mm)	7' - 5 1/2" (2273)

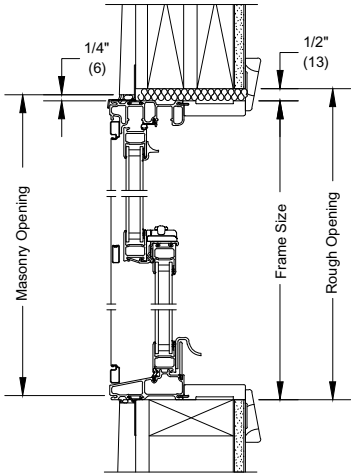
4' - 5 3/4" (1365)	
4' - 6" (1372)	
4' - 5 1/2" (1359)	

ESDH2646 / ESDH2646 / ESDH2646

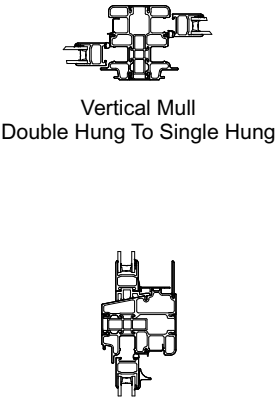
Construction Details



Jambs



Head Jamb & Sill



Vertical Mull
Double Hung To Single Hung

Horizontal Mull
Picture/Transom To Double Hung

* This product is only available field mull'd.

Details and Elevations not to scale.

Available in equal, cottage, and reverse cottage sash configurations. Cottage and reverse cottage sash configurations are not available on 20, 60, and 66 call number heights.

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

Units may optionally include a window opening control device tested to ASTM F2090-10, which can be released from the inside without the use of a key, tool, special knowledge, or force greater than that required for normal unit operation.

See page 58 for specific PG Ratings.

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

MULLED ASSEMBLIES

Mulling can be factory mull'd.

MAXIMUM ROUGH OPENING not to exceed 114" x 78". Maximum up to 6 units wide by 1 unit high.

MAXIMUM ROUGH OPENING not to exceed 60" x 96". Maximum up to 1 unit wide by 5 units high.

For Multi-Wide Multi-High assemblies, MAXIMUM ROUGH OPENING not to exceed 96" x 96". Maximum up to 5 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.

Glider

MO (mm)	2'-6" (762)	3'-0" (914)	3'-6" (1067)	4'-0" (1219)	4'-6" (1372)	5'-0" (1524)	6'-0" (1829)
RO (mm)	2'-6" (762)	3'-0" (914)	3'-6" (1067)	4'-0" (1219)	4'-6" (1372)	5'-0" (1524)	6'-0" (1829)
FS (mm)	2'-5 1/2" (749)	2'-11 1/2" (902)	3'-5 1/2" (1054)	3'-11 1/2" (1207)	4'-5 1/2" (1359)	4'-11 1/2" (1511)	5'-11 1/2" (1816)
DLO (mm)	11 5/16" (287)	14 5/16" (363)	17 5/16" (440)	20 5/16" (516)	23 5/16" (592)	26 5/16" (668)	32 5/16" (821)
1'-5 3/4" (451) 1'-6" (457) 1'-11 3/4" (603) 2'-0" (610) 1'-5 1/2" (445) 12 9/16" (319)	 ESGL2616	 ESGL3016	 ESGL3616	 ESGL4016	 ESGL4616	 ESGL5016	 ESGL6016
	 ESGL2620	 ESGL3020	 ESGL3620	 ESGL4020	 ESGL4620	 ESGL5020	 ESGL6020
	 ESGL2626	 ESGL3026	 ESGL3626	 ESGL4026	 ESGL4626	 ESGL5026	 ESGL6026 E
	 ESGL2630	 ESGL3030	 ESGL3630	 ESGL4030	 ESGL4630	 ESGL5030 E	 ESGL6030 E
	 ESGL2636	 ESGL3036	 ESGL3636	 ESGL4036	 ESGL4636 E	 ESGL5036 E	 ESGL6036 E
	 ESGL2640	 ESGL3040	 ESGL3640	 ESGL4040 E	 ESGL4640 E	 ESGL5040 E	 ESGL6040 E
	 ESGL2646	 ESGL3046	 ESGL3646	 ESGL4046 E	 ESGL4646 E	 ESGL5046 E	 ESGL6046 E
	 ESGL2650	 ESGL3050	 ESGL3650	 ESGL4050 E	 ESGL4650 E	 ESGL5050 E	 ESGL6050 E

GBG available in standard Rectangular lite cut, shown. Other GBG lite cuts shown on page 5.

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

Details and Elevations not to scale.

XO operation standard, OX operation optional.

Units may optionally include a window opening control device tested to ASTM F2090-10, which can be released from the inside without the use of a key, tool, special knowledge, or force greater than that required for normal unit operation.

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

See page 58 for specific PG Ratings.

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

Glider Triple Sash

MO (mm)	6'-0" (1829)	7'-0" (2134)	8'-0" (2438)
RO (mm)	6'-0" (1829)	7'-0" (2134)	8'-0" (2438)
FS (mm)	5'-11 1/2" (1816)	6'-11 1/2" (2121)	7'-11 1/2" (2426)
1'-5 3/4" (451) 1'-6" (457) 1'-11 3/4" (603) 2'-0" (610) 1'-5 1/2" (445) 12 9/16" (319)	 ESGLTS6016	 ESGLTS7016	 ESGLTS8016
	 ESGLTS6020	 ESGLTS7020	 ESGLTS8020
	 ESGLTS6026	 ESGLTS7026	 ESGLTS8026
	 ESGLTS6030	 ESGLTS7030	 ESGLTS8030
	 ESGLTS6036	 ESGLTS7036	 ESGLTS8036
	 ESGLTS6040	 ESGLTS7040	 ESGLTS8040 E
	 ESGLTS6046	 ESGLTS7046	 ESGLTS8046 E
	 ESGLTS6050	 ESGLTS7050	 ESGLTS8050 E

GBG available in standard Rectangular lite cut, shown. Other GBG lite cuts shown on page 5.

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

Details and Elevations not to scale.

Units may optionally include a window opening control device tested to ASTM F2090-10, which can be released from the inside without the use of a key, tool, special knowledge, or force greater than that required for normal unit operation.

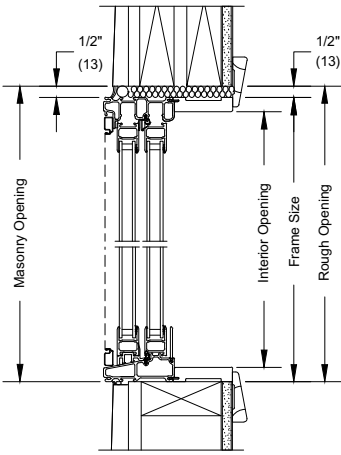
Special sized units available within product size matrix.

See your Marvin retailer.

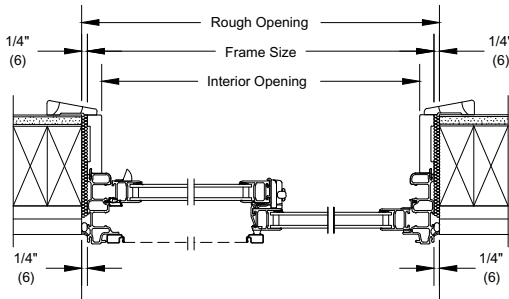
See page 58 for specific PG Ratings.

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

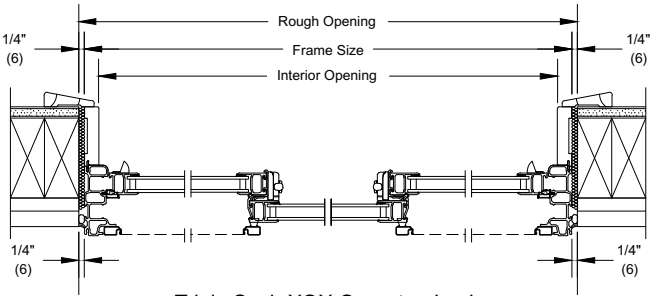
Construction Details



Head Jamb & Sill



XO Operator Jambs



Triple Sash XO Operator Jamb

MULTIPLE ASSEMBLIES

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

Please consult your local Marvin representative for more information.

Glider

2 Wide

MO (mm)	5'- 0" (1524)	6'- 0" (1828)	7'- 0" (2134)	8'- 0" (2438)	9'- 0" (2744)
RO (mm)	5'- 0" (1524)	6'- 0" (1828)	7'- 0" (2134)	8'- 0" (2438)	9'- 0" (2744)
FS (mm)	4'- 11 1/2" (1511)	5'- 11 1/2" (1816)	6'- 11 1/2" (2121)	7'- 11 1/2" (2426)	8'- 11 1/2" (2734)

1'- 5 3/4" (451) 1'- 6" (457) 1'- 5 1/2" (445)	 ESGL2616	 ESGL3016	 ESGL3616	 ESGL4016	 ESGL4616
1'- 11 3/4" (603) 2'- 0" (610) 1'- 11 1/2" (597)	 ESGL2620	 ESGL3020	 ESGL3620	 ESGL4020	 ESGL4620
2'- 5 3/4" (756) 2'- 6" (762) 2'- 5 1/2" (749)	 ESGL2626	 ESGL3026	 ESGL3626	 ESGL4026	 ESGL4626
2'- 11 3/4" (908) 3'- 0" (914) 2'- 11 1/2" (902)	 ESGL2630	 ESGL3030	 ESGL3630	 ESGL4030	 ESGL4630
3'- 5 3/4" (1060) 3'- 6" (1067) 3'- 5 1/2" (1054)	 ESGL2636	 ESGL3036	 ESGL3636	 ESGL4036	 ESGL4636 E
3'- 11 3/4" (1213) 4'- 0" (1219) 3'- 11 1/2" (1207)	 ESGL2640	 ESGL3040	 ESGL3640	 ESGL4040 E	 ESGL4640 E
4'- 5 3/4" (1365) 4'- 6" (1372) 4'- 5 1/2" (1359)	 ESGL2646	 ESGL3046	 ESGL3646	 ESGL4046 E	 ESGL4646 E
4'- 11 3/4" (1518) 5'- 0" (1524) 4'- 11 1/2" (1511)	 ESGL2650	 ESGL3050	 ESGL3650	 ESGL4050 E	 ESGL4650 E

GBG available in standard Rectangular lite cut, shown above. Other GBG lite cuts shown on page 5. (Not available on In-Sash Transom units)

Details and Elevations not to scale.

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

See page 58 for specific PG Ratings.

XO operation shown, OX operation optional.

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

MULLED ASSEMBLIES

Mulling can be factory mulled.

MAXIMUM ROUGH OPENING not to exceed 114" x 60". Maximum up to 3 units wide by 1 unit high.

MAXIMUM ROUGH OPENING not to exceed 72" x 96". Maximum up to 1 unit wide by 2 units high.

For Multi-Wide Multi-High assemblies, MAXIMUM ROUGH OPENING not to exceed 96" x 96". Maximum up to 2 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.

Construction Details



Vertical Mull
Glider to Glider



Horizontal Mull
Glider to Glider

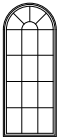
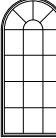
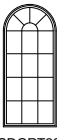
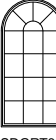
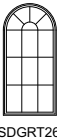
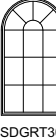
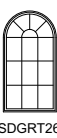
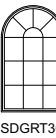
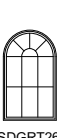
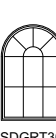
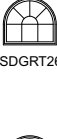
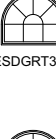
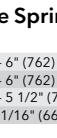
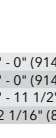
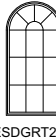
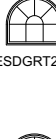
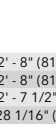
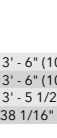
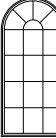
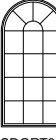
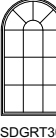
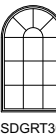
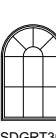
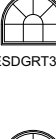
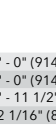
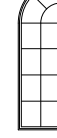
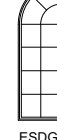
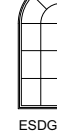
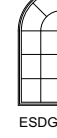
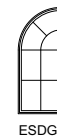
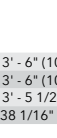
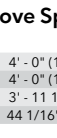
Double Hung Picture

MO (mm)	1'- 6" (457)	2'- 0" (610)	2'- 6" (762)	2'- 8" (813)	3'- 0" (914)	3'- 6" (1067)	4'- 0" (1219)	5'- 0" (1524)
RO (mm)	1'- 6" (457)	2'- 0" (610)	2'- 6" (762)	2'- 8" (813)	3'- 0" (914)	3'- 6" (1067)	4'- 0" (1219)	5'- 0" (1524)
FS (mm)	1'- 5 1/2" (445)	1'- 11 1/2" (597)	2'- 5 1/2" (749)	2'- 7 1/2" (800)	2'- 11 1/2" (902)	3'- 5 1/2" (1054)	3'- 11 1/2" (1207)	4'- 11 1/2" (1511)
DLO (mm)	12 9/16" (319)	18 9/16" (471)	24 9/16" (624)	26 9/16" (675)	30 9/16" (776)	36 9/16" (929)	42 9/16" (1081)	54 9/16" (1386)

1'- 11 3/4" (603) 2'- 0" (610) 1'- 11 1/2" (597) 18 9/16" (471)	 ESDHP1620	 ESDHP2020	 ESDHP2620	 ESDHP2820	 ESDHP3020	 ESDHP3620	 ESDHP4020	 ESDHP5020
2'- 5 3/4" (756) 2'- 6" (762) 2'- 5 1/2" (749) 24 9/16" (624)	 ESDHP1626	 ESDHP2026	 ESDHP2626	 ESDHP2826	 ESDHP3026	 ESDHP3626	 ESDHP4026	 ESDHP5026
2'- 11 3/4" (908) 3'- 0" (914) 2'- 11 1/2" (902) 30 9/16" (776)	 ESDHP1630	 ESDHP2030	 ESDHP2630	 ESDHP2830	 ESDHP3030	 ESDHP3630	 ESDHP4030	 ESDHP5030
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4'- 11 3/4" (1518) 5'- 0" (1524) 4'- 11 1/2" (1511) 54 9/16" (1386)	 ESDHP1650	 ESDHP2050	 ESDHP2650	 ESDHP2850	 ESDHP3050	 ESDHP3650	 ESDHP4050	 ESDHP5050
5'- 5 3/4" (1670) 5'- 6" (1676) 5'- 5 1/2" (1664) 60 9/16" (1538)	 ESDHP1656	 ESDHP2056	 ESDHP2656	 ESDHP2856	 ESDHP3056	 ESDHP3656	 ESDHP4056	 ESDHP5056
5'- 11 3/4" (1822) 6'- 0" (1829) 5'- 11 1/2" (1816) 66 9/16" (1691)	 ESDHP1660	 ESDHP2060	 ESDHP2660	 ESDHP2860	 ESDHP3060	 ESDHP3660	 ESDHP4060	 ESDHP5060 T

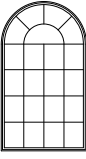
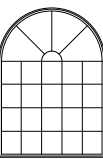
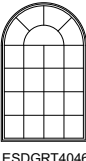
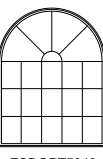
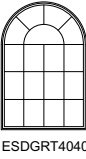
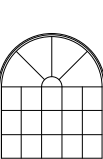
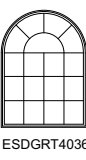
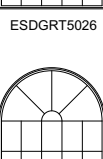
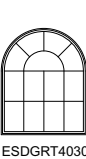
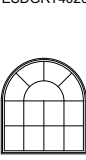
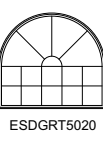
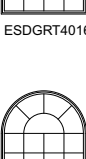
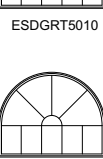
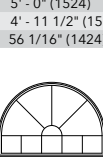
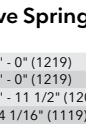
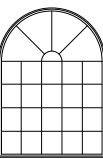
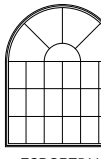
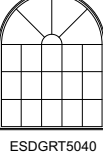
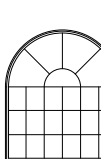
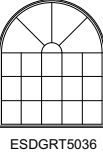
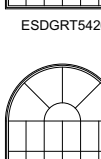
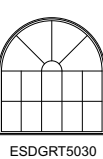
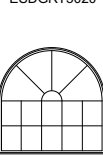
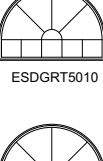
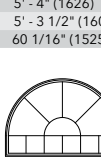
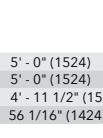
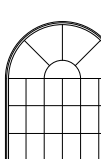
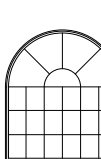
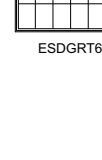
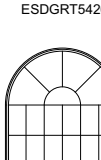
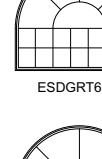
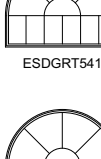
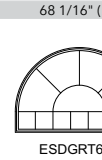
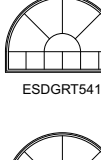
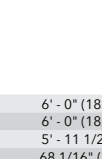
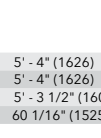
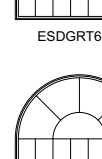
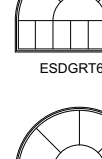
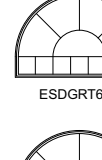
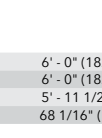
Direct Glaze Round Tops

True Half Above Springline (RT2)

MO (mm)	2' - 6" (762)	2' - 8" (813)	3' - 0" (914)	3' - 6" (1067)
RO (mm)	2' - 6" (762)	2' - 8" (813)	3' - 0" (914)	3' - 6" (1067)
FS (mm)	2' - 5 1/2" (749)	2' - 7 1/2" (800)	2' - 11 1/2" (902)	3' - 5 1/2" (1054)
DLO (mm)	26 1/16" (662)	28 1/16" (713)	32 1/16" (814)	38 1/16" (967)
6' - 2 1/2" (1892) 6' - 2 3/4" (1899) 6' - 2 1/4" (1886) 70 13/16" (1799)	2' - 2 1/2" (673) 2' - 2 3/4" (679) 2' - 2 1/4" (667) 22 13/16" (579)	2' - 8 1/2" (826) 2' - 8 3/4" (832) 2' - 8 1/4" (819) 28 13/16" (732)	2' - 11 1/2" (902) 2' - 11 3/4" (908) 2' - 11 1/4" (895) 31 13/16" (808)	2' - 11 1/2" (902) 2' - 11 3/4" (908) 2' - 11 1/4" (895) 31 13/16" (808)
ESDGR2650		ESDGR2650		ESDGR2650
ESDGR2646		ESDGR2646		ESDGR2646
ESDGR2640		ESDGR2640		ESDGR2640
ESDGR2636		ESDGR2636		ESDGR2636
ESDGR2630		ESDGR2630		ESDGR2630
ESDGR2626		ESDGR2626		ESDGR2626
ESDGR2620		ESDGR2620		ESDGR2620
ESDGR2616		ESDGR2616		ESDGR2616
ESDGR2610		ESDGR2610		ESDGR2610
6' - 3 1/2" (1918) 6' - 3 3/4" (1924) 6' - 3 1/4" (1911) 71 13/16" (1824)	2' - 3 1/2" (699) 2' - 3 3/4" (705) 2' - 3 1/4" (692) 23 13/16" (605)	2' - 9 1/2" (851) 2' - 9 3/4" (857) 2' - 9 1/4" (845) 29 13/16" (757)	2' - 11 1/2" (902) 2' - 11 3/4" (908) 2' - 11 1/4" (895) 31 13/16" (808)	2' - 5 1/2" (749) 2' - 5 3/4" (756) 2' - 5 1/4" (743) 25 13/16" (656)
ESDGR2850		ESDGR2850		ESDGR2850
ESDGR2846		ESDGR2846		ESDGR2846
ESDGR2840		ESDGR2840		ESDGR2840
ESDGR2836		ESDGR2836		ESDGR2836
ESDGR2830		ESDGR2830		ESDGR2830
ESDGR2826		ESDGR2826		ESDGR2826
ESDGR2820		ESDGR2820		ESDGR2820
ESDGR2816		ESDGR2816		ESDGR2816
ESDGR2810		ESDGR2810		ESDGR2810
6' - 5 1/2" (1969) 6' - 5 3/4" (1975) 6' - 5 1/4" (1962) 73 13/16" (1875)	3' - 5 1/2" (1054) 3' - 5 3/4" (1060) 3' - 5 1/4" (1048) 37 13/16" (960)	3' - 8 1/2" (1130) 3' - 8 3/4" (1137) 3' - 8 1/4" (1124) 40 13/16" (1037)	3' - 2 1/2" (978) 3' - 2 3/4" (984) 3' - 2 1/4" (972) 34 13/16" (884)	2' - 8 1/2" (826) 2' - 8 3/4" (832) 2' - 8 1/4" (819) 28 13/16" (732)
ESDGR3050		ESDGR3050		ESDGR3050
ESDGR3046		ESDGR3046		ESDGR3046
ESDGR3040		ESDGR3040		ESDGR3040
ESDGR3036		ESDGR3036		ESDGR3036
ESDGR3030		ESDGR3030		ESDGR3030
ESDGR3026		ESDGR3026		ESDGR3026
ESDGR3020		ESDGR3020		ESDGR3020
ESDGR3016		ESDGR3016		ESDGR3016
ESDGR3010		ESDGR3010		ESDGR3010
6' - 8 1/2" (2045) 6' - 8 3/4" (2051) 6' - 8 1/4" (2038) 70 13/16" (1951)	3' - 8 1/2" (1130) 3' - 8 3/4" (1137) 3' - 8 1/4" (1124) 40 13/16" (1037)	3' - 2 1/2" (978) 3' - 2 3/4" (984) 3' - 2 1/4" (972) 34 13/16" (884)	3' - 5 1/2" (1054) 3' - 5 3/4" (1060) 3' - 5 1/4" (1048) 37 13/16" (960)	2' - 8 1/2" (826) 2' - 8 3/4" (832) 2' - 8 1/4" (819) 28 13/16" (732)
ESDGR3650		ESDGR3650		ESDGR3650
ESDGR3646		ESDGR3646		ESDGR3646
ESDGR3640		ESDGR3640		ESDGR3640
ESDGR3636		ESDGR3636		ESDGR3636
ESDGR3630		ESDGR3630		ESDGR3630
ESDGR3626		ESDGR3626		ESDGR3626
ESDGR3620		ESDGR3620		ESDGR3620
ESDGR3616		ESDGR3616		ESDGR3616
ESDGR3610		ESDGR3610		ESDGR3610

Direct Glaze Round Tops

True Half Above Springline (RT2)

MO (mm)	4' - 0" (1219)	5' - 0" (1524)	5' - 4" (1626)	6' - 0" (1829)
RO (mm)	4' - 0" (1219)	5' - 0" (1524)	5' - 4" (1626)	6' - 0" (1829)
FS (mm)	3' - 11 1/2" (1207)	4' - 11 1/2" (1511)	5' - 3 1/2" (1600)	5' - 11 1/2" (1816)
DLO (mm)	44 1/16" (1119)	56 1/16" (1424)	60 1/16" (1525)	68 1/16" (1729)
6' - 11 1/2" (2121) 6' - 11 3/4" (2127) 6' - 11 1/4" (2115) 79 13/16" (2027)	2' - 11 1/2" (902) 2' - 11 3/4" (908) 2' - 11 1/4" (895) 31 13/16" (808)	3' - 5 1/2" (1054) 3' - 5 3/4" (1060) 3' - 5 1/4" (1048) 37 13/16" (960)	5' - 11 1/2" (1511) 5' - 11 3/4" (1518) 5' - 11 1/4" (1505) 61 13/16" (1570)	6' - 11 1/2" (1829) 6' - 11 3/4" (1835) 6' - 11 1/4" (1822) 73 13/16" (1875)
ESDGR4050		ESDGR4050		ESDGR4050
ESDGR4046		ESDGR4046		ESDGR4046
ESDGR4040		ESDGR4040		ESDGR4040
ESDGR4036		ESDGR4036		ESDGR4036
ESDGR4030		ESDGR4030		ESDGR4030
ESDGR4026		ESDGR4026		ESDGR4026
ESDGR4020		ESDGR4020		ESDGR4020
ESDGR4016		ESDGR4016		ESDGR4016
ESDGR4010		ESDGR4010		ESDGR4010
6' - 5 1/2" (1969) 6' - 5 3/4" (1975) 6' - 5 1/4" (1962) 73 13/16" (1875)	3' - 11 1/2" (1207) 3' - 11 3/4" (1213) 3' - 11 1/4" (1200) 43 13/16" (1113)	4' - 5 1/2" (1359) 4' - 5 3/4" (1365) 4' - 5 1/4" (1353) 49 13/16" (1265)	5' - 11 1/2" (1511) 5' - 11 3/4" (1518) 5' - 11 1/4" (1505) 61 13/16" (1570)	6' - 11 1/2" (1829) 6' - 11 3/4" (1835) 6' - 11 1/4" (1822) 73 13/16" (1875)
ESDGR5046		ESDGR5046		ESDGR5046
ESDGR5040		ESDGR5040		ESDGR5040
ESDGR5036		ESDGR5036		ESDGR5036
ESDGR5030		ESDGR5030		ESDGR5030
ESDGR5026		ESDGR5026		ESDGR5026
ESDGR5020		ESDGR5020		ESDGR5020
ESDGR5016		ESDGR5016		ESDGR5016
ESDGR5010		ESDGR5010		ESDGR5010
6' - 7 1/2" (2019) 6' - 7 3/4" (2026) 6' - 7 1/4" (2013) 75 13/16" (1926)	4' - 11 1/2" (1207) 4' - 11 3/4" (1213) 4' - 11 1/4" (1200) 43 13/16" (1113)	5' - 11 1/2" (1511) 5' - 11 3/4" (1518) 5' - 11 1/4" (1505) 61 13/16" (1570)	6' - 11 1/2" (1829) 6' - 11 3/4" (1835) 6' - 11 1/4" (1822) 73 13/16" (1875)	6' - 11 1/2" (1829) 6' - 11 3/4" (1835) 6' - 11 1/4" (1822) 73 13/16" (1875)
ESDGR5440		ESDGR5440		ESDGR5440
ESDGR5436		ESDGR5436		ESDGR5436
ESDGR5430		ESDGR5430		ESDGR5430
ESDGR5426		ESDGR5426		ESDGR5426
ESDGR5420		ESDGR5420		ESDGR5420
ESDGR5416		ESDGR5416		ESDGR5416
ESDGR5410		ESDGR5410		ESDGR5410
6' - 7 1/2" (2019) 6' - 7 3/4" (2026) 6' - 7 1/4" (2013) 75 13/16" (1926)	4' - 11 1/2" (1207) 4' - 11 3/4" (1213) 4' - 11 1/4" (1200) 43 13/16" (1113)	5' - 11 1/2" (1511) 5' - 11 3/4" (1518) 5' - 11 1/4" (1505) 61 13/16" (1570)	6' - 11 1/2" (1829) 6' - 11 3/4" (1835) 6' - 11 1/4" (1822) 73 13/16" (1875)	6' - 11 1/2" (1829) 6' - 11 3/4" (1835) 6' - 11 1/4" (1822) 73 13/16" (1875)
ESDGR6040		ESDGR6040		ESDGR6040
ESDGR6036		ESDGR6036		ESDGR6036
ESDGR6030		ESDGR6030		ESDGR6030
ESDGR6026		ESDGR6026		ESDGR6026
ESDGR6020		ESDGR6020		ESDGR6020
ESDGR6016		ESDGR6016		ESDGR6016
ESDGR6010		ESDGR6010		ESDGR6010

Direct Glaze Round Tops

Eyebrow Above Springline (RT6)

MO (mm)	2'-6" (762)	2'-8" (914)	3'-0" (914)	3'-6" (1067)	4'-0" (1219)
RO (mm)	2'-6" (762)	2'-8" (914)	3'-0" (914)	3'-6" (1067)	4'-0" (1219)
FS (mm)	2'-5 1/2" (749)	2'-7 1/2" (902)	2'-11 1/2" (902)	3'-5 1/2" (1054)	3'-11 1/2" (1207)
DLO (mm)	26 1/16" (662)	28 1/16" (713)	32 1/16" (814)	38 1/16" (967)	44 1/16" (1119)
					
ESDGRT2610		ESDGRT2810	ESDGRT3010	ESDGRT3610	ESDGRT4010
					
ESDGRT2616	ESDGRT2816	ESDGRT3016	ESDGRT3616	ESDGRT4016	
					
ESDGRT2620	ESDGRT2820	ESDGRT3020	ESDGRT3620	ESDGRT4020	
					
ESDGRT2626	ESDGRT2826	ESDGRT3026	ESDGRT3626	ESDGRT4026	
					
ESDGRT2630	ESDGRT2830	ESDGRT3030	ESDGRT3630	ESDGRT4030	
					
ESDGRT2636	ESDGRT2836	ESDGRT3036	ESDGRT3636	ESDGRT4036	
					
ESDGRT2640	ESDGRT2840	ESDGRT3040	ESDGRT3640	ESDGRT4040	
					
ESDGRT2646	ESDGRT2846	ESDGRT3046	ESDGRT3646	ESDGRT4046	
					
ESDGRT2650	ESDGRT2850	ESDGRT3050	ESDGRT3650	ESDGRT4050	
					
ESDGRT2656	ESDGRT2856	ESDGRT3056	ESDGRT3656	ESDGRT4056	
					
ESDGRT2660	ESDGRT2860	ESDGRT3060	ESDGRT3660	ESDGRT4060	

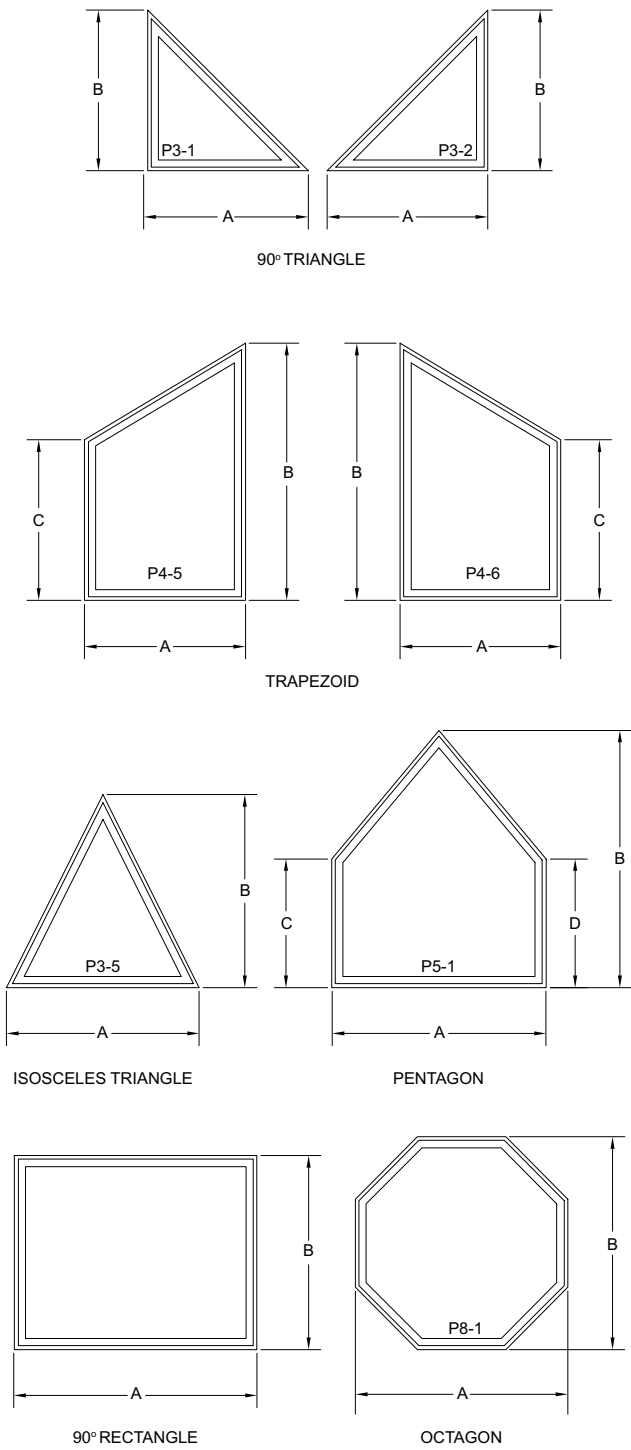
Direct Glaze Round Tops

Eyebrow Above Springline (RT6)

MO (mm)	5'-0" (1524)	5'-4" (1626)	6'-0" (1829)	7'-0" (2134)	8'-0" (2438)
RO (mm)	5'-0" (1524)	5'-4" (1626)	6'-0" (1829)	7'-0" (2134)	8'-0" (2438)
FS (mm)	4'-11 1/2" (1511)	5'-3 1/2" (1613)	5'-11 1/2" (1816)	6'-11 1/2" (2121)	7'-11 1/2" (2426)
DLO (mm)	56 1/16" (1424)	60 1/16" (1525)	68 1/16" (1729)	80 1/16" (2033)	92 1/16" (2338)
					
ESDGRT5010	ESDGRT5410	ESDGRT6010	ESDGRT7010	ESDGRT8010	
					
ESDGRT5016	ESDGRT5416	ESDGRT6016	ESDGRT7016	ESDGRT8016	
					
ESDGRT5020	ESDGRT5420	ESDGRT6020	ESDGRT7020	ESDGRT8020	
					
ESDGRT5026	ESDGRT5426	ESDGRT6026	ESDGRT7026	ESDGRT8026	
					
ESDGRT5030	ESDGRT5430	ESDGRT6030	ESDGRT7030	ESDGRT8030	
					
ESDGRT5036	ESDGRT5436	ESDGRT6036	ESDGRT7036	ESDGRT8036	
					
ESDGRT5040	ESDGRT5440	ESDGRT6040	ESDGRT7040	ESDGRT8040	
					
ESDGRT5046	ESDGRT5446	ESDGRT6046	ESDGRT7046	ESDGRT8046	
					
ESDGRT5050	ESDGRT5450	ESDGRT6050	ESDGRT7050	ESDGRT8050	
					
ESDGRT5056	ESDGRT5456	ESDGRT6056	ESDGRT7056	ESDGRT8056	
					
ESDGRT5060	ESDGRT5460	ESDGRT6060	ESDGRT7060	ESDGRT8060	

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.

SPECIFICATION NOTES

- All units are subject to validation.
- Maximum/Minimum Guidelines
- Maximum Square Footage: 49 ft² of Rough Opening
- Maximum Width: 114" Rough Opening
- Maximum Height: 114" Rough Opening
- Minimum (RECT, P3, P4, P5): 12" x 12" Rough Opening
- Minimum (P8): 18" x 18" Rough Opening
- Minimum Short Leg (P4, P5): 8" Rough Opening
- P3 Pitch: 3/12 to 36/12 Pitch Available
- P4 Pitch: 36/12 Maximum Pitch Available
- P5 Pitch: 36/12 Maximum Pitch Available

MULLED ASSEMBLIES

Units can be factory mulled. (Rectangle Only)

MAXIMUM ROUGH OPENING: not to exceed 114" x 96". Maximum up to 6 units wide by 1 unit high.

MAXIMUM ROUGH OPENING: not to exceed 96" x 114". Maximum up to 1 unit wide by 5 units high.

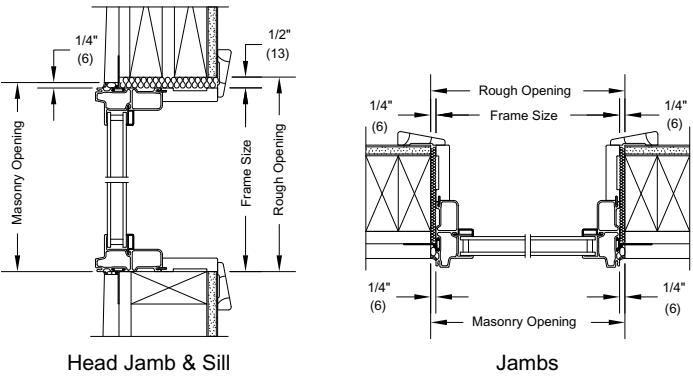
MAXIMUM ROUGH OPENING: not to exceed 96" x 96". Maximum up to 5 units wide by 5 units high.

NOTE: Units with Rough Opening larger than 37.75 ft² will be standard tempered.

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

Please consult your local Marvin representative for more information.

Construction Details



Sliding Patio Door

2 Panel

MO (mm)	5' - 0" (1524)	5' - 0" (1524)	5' - 10 1/2" (1791)	5' - 10 1/2" (1791)	6' - 0" (1829)	6' - 0" (1829)
RO (mm)	5' - 0" (1524)	5' - 0" (1524)	5' - 10 1/2" (1791)	5' - 10 1/2" (1791)	6' - 0" (1829)	6' - 0" (1829)
FS (mm)	4' - 11 1/2" (1511)	4' - 11 1/2" (1511)	5' - 10" (1778)	5' - 10" (1778)	5' - 11 1/2" (1816)	5' - 11 1/2" (1816)
DLO (mm)	24 63/64" (635)	24 63/64" (635)	30 15/64" (768)	30 15/64" (768)	30 63/64" (787)	30 63/64" (787)

6' - 7 3/4" (2026) 6' - 8" (2032) 6' - 7 1/2" (2019) 72 1/2" (1841)						
	IFSPD 5068 - XO	IFSPD 5068 - OX	IFSPD 51068 - XO	IFSPD 51068 - OX	IFSPD 6068 - XO	IFSPD 6068 - OX
6' - 9 3/4" (2076) 6' - 10" (2083) 6' - 9 1/2" (2070) 74 1/2" (1892)						
	IFSPD 50610 - XO	IFSPD 50610 - OX			IFSPD 60610 - XO	IFSPD 60610 - OX
7' - 11 3/4" (2432) 8' - 0" (2438) 7' - 11 1/2" (2426) 88 1/2" (2246)						
	IFSPD 5080 - XO	IFSPD 5080 - OX			IFSPD 6080 - XO	IFSPD 6080 - OX

MO (mm)	8'-0" (2438)	8'-0" (2438)
RO (mm)	8'-0" (2438)	8'-0" (2438)
FS (mm)	7'-11 1/2" (2426)	7'-11 1/2" (2426)
DLO (mm)	42 63/64" (1092)	42 63/64" (1092)

6' - 7 3/4" (2026) 6' - 8" (2032) 6' - 7 1/2" (2019) 72 1/2" (1841)		
	IFSPD 8068 - XO	IFSPD 8068 - XO
6' - 9 3/4" (2076) 6' - 10" (2083) 6' - 9 1/2" (2070) 74 1/2" (1892)		
	IFSPD 80610 - XO	IFSPD 80610 - XO
7' - 11 3/4" (2432) 8' - 0" (2438) 7' - 11 1/2" (2426) 88 1/2" (2248)		
	IFSPD 8080 - XO	IFSPD 8080 - XO

MULLED ASSEMBLIES

Mulling units can be factory mulled up to 1 unit wide by 2 units high.

MAXIMUM ROUGH OPENING not to exceed 72" x 100".

Field mull kits available for up to 3 units wide by 2 units high not to exceed 110" x 112". Not WDMA certified.

Structural mullion reinforcement is required for some assemblies.

Please consult your local Marvin representative for more information.

GBG available in standard Rectangular lite cut, shown above. Other GBG lite cuts shown on page 5. (Not available on In-Sash Transom units)

Details and Elevations not to scale.

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

See page 58 for specific PG Ratings.

XO operation shown, OX operation optional.

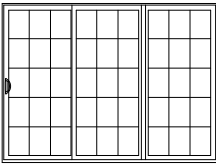
For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

Sliding Patio Door

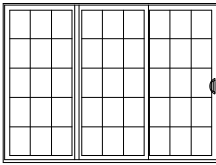
3 Panel

MO (mm)	9' - 0" (2743)	9' - 0" (2743)	9' - 0" (2743)	9' - 0" (2743)
RO (mm)	9' - 0" (2743)	9' - 0" (2743)	9' - 0" (2743)	9' - 0" (2743)
FS (mm)	8' - 11 1/2" (2731)	8' - 11 1/2" (2731)	8' - 11 1/2" (2731)	8' - 11 1/2" (2731)
DLO (mm)	30 63/64" (787)	30 63/64" (787)	30 63/64" (787)	30 63/64" (787)

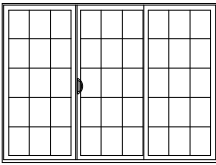
6' - 7 3/4" (2026)	6' - 8" (2032)	6' - 7 1/2" (2019)	72 1/2" (1841)
6' - 9 3/4" (2076)	6' - 10" (2083)	6' - 9 1/2" (2070)	74 1/2" (1892)
7' - 11 3/4" (2432)	8' - 0" (2438)	7' - 11 1/2" (2426)	88 1/2" (2248)



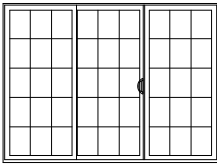
IFSPD 9068 - XOO



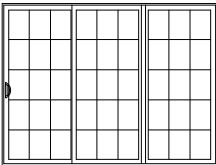
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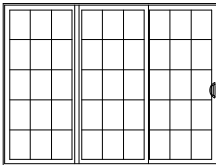
IFSPD 9068 - OXO RH



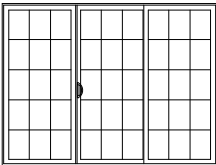
IFSPD 9068 - OXO LH



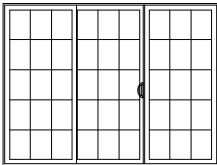
IFSPD 90610 - XOO



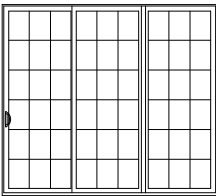
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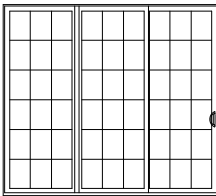
IFSPD 90610 - OXO RH



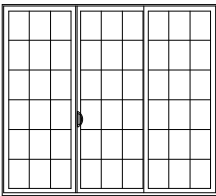
IFSPD 90610 - OXO LH



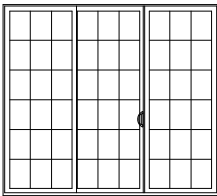
IFSPD 9080 - XOO



IFSPD 9080 - OOX



IFSPD 9080 - OXO RH

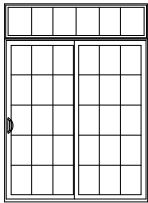


IFSPD 9080 - OXO LH

Direct Glaze Over
Sliding Patio Door

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

8' - 3 3/4" (2534)	8' - 4" (2540)	8' - 3 1/2" (2527)
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ESDG6016/ESSPD60610

Direct Glaze Over Sliding Patio Door

MO (mm)	5' - 0" (1524)	5' - 10 1/2" (1791)	6' - 0" (1829)	9' - 0" (2743)
RO (mm)	5' - 0" (1524)	5' - 10 1/2" (1791)	6' - 0" (1829)	9' - 0" (2743)
FS (mm)	4' - 11 1/2" (1511)	5' - 10" (1778)	5' - 11 1/2" (1816)	8' - 11 1/2" (2731)
DLO (mm)	57 1/4" (1454)	67 1/4" (1708)	69 1/4" (1759)	105 1/4" (2673)

0' - 11 3/4" (298)	1' - 0" (305)	0' - 11 1/2" (292)	8 1/16" (205)
1' - 5 3/4" (451)	1' - 6" (457)	1' - 5 1/2" (445)	14 1/16" (357)



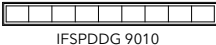
IFSPDDG 5010



IFSPDDG 51010



IFSPDDG 6010



IFSPDDG 9010



IFSPDDG 5016



IFSPDDG 51016



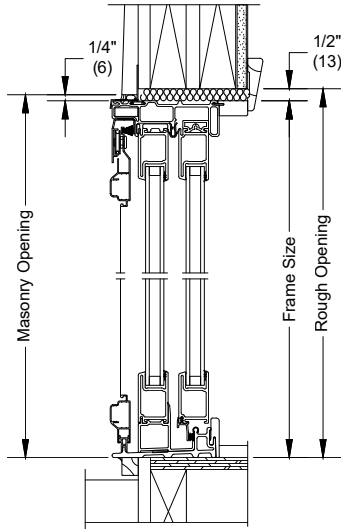
IFSPDDG 6016



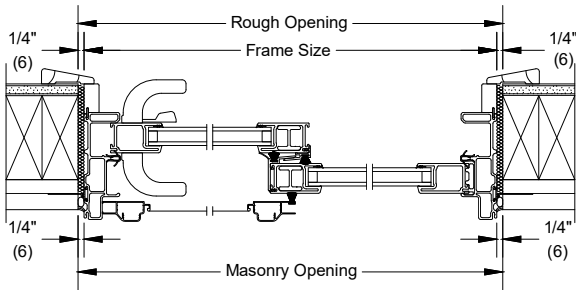
IFSPDDG 9016

Sliding Patio Door

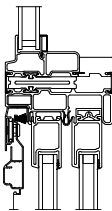
Construction Details



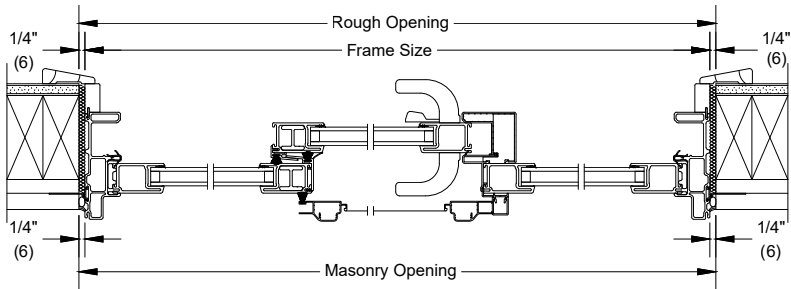
Head Jamb & Sill



2 Panel XO Operator Jamb



Direct Glaze
Over Sliding Patio Door



3 Panel OXO Operator Jamb

GBG available in standard Rectangular lite cut, shown above. Other GBG lite cuts shown on page 5. (Not available on In-Sash Transom units)

Details and Elevations not to scale.

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

See page 58 for specific PG Ratings.

XO operation shown, OX operation optional.

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

Egress Openings

Awning

Unit #	Vent		DLO	
	Sq. Ft.	(cm ²)	Sq. Ft.	(cm ²)
1616	0.74	(689)	0.97	(902)
1620	1.10	(1025)	1.46	(1359)
1626	1.46	(1361)	1.96	(1817)
1630	1.83	(1696)	2.45	(2275)
1636	2.19	(2032)	2.94	(2732)
1640	2.55	(2368)	3.43	(3190)
2016	1.25	(1166)	1.46	(1359)
2020	1.87	(1734)	2.21	(2049)
2026	2.48	(2302)	2.95	(2739)
2030	3.09	(2870)	3.69	(3429)
2036	3.70	(3438)	4.43	(4119)
2040	4.31	(4006)	5.18	(4809)
2616	1.77	(1643)	1.96	(1817)
2620	2.63	(2443)	2.95	(2739)
2626	3.49	(3243)	3.94	(3661)
2630	4.35	(4043)	4.93	(4583)
2636	5.21	(4844)	5.93	(5505)
2640	6.07	(5644)	6.92	(6428)
3016	2.28	(2119)	2.45	(2275)
3020	3.39	(3152)	3.69	(3429)
3026	4.50	(4184)	4.93	(4583)
3030	5.62	(5217)	6.18	(5738)
3036	6.73	(6249)	7.42	(6892)
3040	7.84	(7282)	8.66	(8047)
3616	2.79	(2596)	2.94	(2732)
3620	4.16	(3861)	4.43	(4119)
3626	5.52	(5126)	5.93	(5505)
3630	6.88	(6390)	7.42	(6892)
3636	8.24	(7655)	8.91	(8279)
3640	9.60	(8920)	10.40	(9665)
4016	3.31	(3073)	3.43	(3190)
4020	4.92	(4570)	5.18	(4809)
4026	6.53	(6067)	6.92	(6428)
4030	8.14	(7564)	8.66	(8047)
4036	9.75	(9061)	10.40	(9665)
4040	11.36	(10558)	12.15	(11284)
4616	3.82	(3550)	3.93	(3647)
4620	5.68	(5279)	5.92	(5449)
4626	7.54	(7008)	7.91	(7350)
4630	9.40	(8737)	9.90	(9201)
4636	11.27	(10467)	11.90	(11052)
4640	13.13	(12196)	13.89	(12903)
5016	4.33	(4026)	4.42	(4105)
5020	6.45	(5988)	6.66	(6188)
5026	8.56	(7949)	8.90	(8272)
5030	10.67	(9911)	11.15	(10355)
5036	12.78	(11872)	13.39	(12439)
5040	14.89	(13834)	15.63	(14522)

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.

* Floor to clear opening is calculated using 6'-10 ¼" from finished floor to rough opening header.

These units may optionally include a window opening control device tested to ASTM F2090-10, which can be released from the inside without the use of a key, tool, special knowledge, or force greater than that required for normal unit operation.

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

Egress Openings

Casement

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 ³)	Sq. Ft	(cm ²)	Sq. Ft	(cm ²)	
1620	8 43/64	(220)	18 5/16	(465)	1.10	(1025)	60 41/64	(1540)	1.10	(1025)	1.46	(1359)	
1626	8 43/64	(220)	24 5/16	(618)	1.46	(1360)	54 41/64	(1388)	1.46	(1360)	1.96	(1817)	
1630	8 43/64	(220)	30 5/16	(770)	1.83	(1696)	48 41/64	(1236)	1.83	(1696)	2.45	(2275)	
1636	8 43/64	(220)	36 5/16	(923)	2.19	(2032)	42 41/64	(1083)	2.19	(2032)	2.94	(2732)	
1640	8 43/64	(220)	42 5/16	(1075)	2.55	(2367)	36 41/64	(931)	2.55	(2367)	3.43	(3190)	
1646	8 43/64	(220)	48 5/16	(1227)	2.91	(2703)	30 41/64	(778)	2.91	(2703)	3.93	(3647)	
1650	8 43/64	(220)	54 5/16	(1380)	3.27	(3038)	24 41/64	(626)	3.27	(3038)	4.42	(4105)	
1656	8 43/64	(220)	60 5/16	(1532)	3.63	(3374)	18 41/64	(474)	3.63	(3374)	4.91	(4563)	
1660	8 43/64	(220)	66 5/16	(1685)	3.99	(3710)	12 41/64	(321)	3.99	(3710)	5.40	(5020)	
1666	8 43/64	(220)	72 5/16	(1837)	4.35	(4045)	6 41/64	(169)	4.35	(4045)	5.90	(5478)	
1670	8 43/64	(220)	78 5/16	(1989)	4.72	(4381)	41/64	(16)	4.72	(4381)	6.39	(5936)	
2020	14 43/64	(373)	18 5/16	(465)	1.87	(1734)	60 41/64	(1540)	1.87	(1734)	2.21	(2049)	
2026	14 43/64	(373)	24 5/16	(618)	2.48	(2302)	54 41/64	(1388)	2.48	(2302)	2.95	(2739)	
2030	14 43/64	(373)	30 5/16	(770)	3.09	(2870)	48 41/64	(1236)	3.09	(2870)	3.69	(3429)	
2036	14 43/64	(373)	36 5/16	(923)	3.70	(3438)	42 41/64	(1083)	3.70	(3438)	4.43	(4119)	
2040	14 43/64	(373)	42 5/16	(1075)	4.31	(4005)	36 41/64	(931)	4.31	(4005)	5.18	(4809)	
2046	14 43/64	(373)	48 5/16	(1227)	4.92	(4573)	30 41/64	(778)	4.92	(4573)	5.92	(5499)	
2050	14 43/64	(373)	54 5/16	(1380)	5.53	(5141)	24 41/64	(626)	5.53	(5141)	6.66	(6188)	
2056	14 43/64	(373)	60 5/16	(1532)	6.15	(5709)	18 41/64	(474)	6.15	(5709)	7.40	(6878)	
2060	14 43/64	(373)	66 5/16	(1685)	6.76	(6277)	12 41/64	(321)	6.76	(6277)	8.15	(7568)	
2066	14 43/64	(373)	72 5/16	(1837)	7.37	(6845)	6 41/64	(169)	7.37	(6845)	8.89	(8258)	
2070	14 43/64	(373)	78 5/16	(1989)	7.98	(7413)	41/64	(16)	7.98	(7413)	9.63	(8948)	
2620	**	20 43/64	(525)	18 5/16	(465)	2.63	(2443)	60 41/64	(1540)	2.63	(2443)	2.95	(2739)
2626	**	20 43/64	(525)	24 5/16	(618)	3.49	(3243)	54 41/64	(1388)	3.49	(3243)	3.94	(3661)
2630	**	20 43/64	(525)	30 5/16	(770)	4.35	(4043)	48 41/64	(1236)	4.35	(4043)	4.93	(4583)
2636	**	20 43/64	(525)	36 5/16	(923)	5.21	(4843)	42 41/64	(1083)	5.21	(4843)	5.93	(5505)
2640	E **	20 43/64	(525)	42 5/16	(1075)	6.07	(5644)	36 41/64	(931)	6.07	(5644)	6.92	(6428)
2646	E **	20 43/64	(525)	48 5/16	(1227)	6.94	(6444)	30 41/64	(778)	6.94	(6444)	7.91	(7350)
2650	E **	20 43/64	(525)	54 5/16	(1380)	7.80	(7244)	24 41/64	(626)	7.80	(7244)	8.90	(8272)
2656	E **	20 43/64	(525)	60 5/16	(1532)	8.66	(8044)	18 41/64	(474)	8.66	(8044)	9.90	(9194)
2660	E **	20 43/64	(525)	66 5/16	(1685)	9.52	(8844)	12 41/64	(321)	9.52	(8844)	10.89	(10116)
2666	E	20 43/64	(525)	72 5/16	(1837)	10.38	(9644)	6 41/64	(169)	10.38	(9644)	11.88	(11038)
2670	E	20 43/64	(525)	78 5/16	(1989)	11.24	(10444)	41/64	(16)	11.24	(10444)	12.87	(11960)
3020	**	26 43/64	(677)	18 5/16	(465)	3.39	(3152)	60 41/64	(1540)	3.39	(3152)	3.69	(3429)
3026	**	26 43/64	(677)	24 5/16	(618)	4.50	(4185)	54 41/64	(1388)	4.50	(4185)	4.93	(4583)
3030	**	26 43/64	(677)	30 5/16	(770)	5.62	(5217)	48 41/64	(1236)	5.62	(5217)	6.18	(5738)
3036	E **	26 43/64	(677)	36 5/16	(923)	6.73	(6249)	42 41/64	(1083)	6.73	(6249)	7.42	(6892)
3040	E **	26 43/64	(677)	42 5/16	(1075)	7.84	(7282)	36 41/64	(931)	7.84	(7282)	8.66	(8047)
3046	E **	26 43/64	(677)	48 5/16	(1227)	8.95	(8314)	30 41/64	(778)	8.95	(8314)	9.90	(9201)
3050	E **	26 43/64	(677)	54 5/16	(1380)	10.06	(9347)	24 41/64	(626)	10.06	(9347)	11.15	(10355)
3056	E **	26 43/64	(677)	60 5/16	(1532)	11.17	(10379)	18 41/64	(474)	11.17	(10379)	12.39	(11510)
3060	E **	26 43/64	(677)	66 5/16	(1685)	12.28	(11411)	12 41/64	(321)	12.28	(11411)	13.63	(12664)
3066	E	25 3/16	(640)	72 5/16	(1837)	12.65	(11748)	6 41/64	(169)	12.65	(11748)	14.87	(13819)
3070	E	25 3/16	(640)	78 5/16	(1989)	13.70	(12723)	41/64	(16)	13.70	(12723)	16.12	(14973)

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.

* Floor to clear opening is calculated using 6'-10 ¼" from finished floor to rough opening header.

These units may optionally include a window opening control device tested to ASTM F2090-10, which can be released from the inside without the use of a key, tool, special knowledge, or force greater than that required for normal unit operation.

WOCD not available on the CN66 and CN70 heights.

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

Egress Openings

Single Hung Equal Sash

Unit #		Egress Width		Egress Height		Egress Clear Opening		Floor To Clear Opening*		Vent		DLO	
		Inches	(mm)	Inches	(mm)	Sq. Ft	Sq. Ft	Sq. Ft.	(cm ²)	Sq. Ft	(cm ²)	Sq. Ft	(cm ²)
1620		14 9/16	(370)	7 13/64	(183)	0.73	(677)	60 41/64	(1540)	0.73	(677)	1.45	(1347)
1626		14 9/16	(370)	10 13/64	(259)	1.03	(959)	54 41/64	(1388)	1.03	(959)	1.97	(1833)
1630		14 9/16	(370)	13 13/64	(336)	1.34	(1241)	48 41/64	(1236)	1.34	(1241)	2.50	(2319)
1636		14 9/16	(370)	16 13/64	(412)	1.64	(1523)	42 41/64	(1083)	1.64	(1523)	3.02	(2805)
1640		14 9/16	(370)	19 13/64	(488)	1.94	(1804)	36 41/64	(931)	1.94	(1804)	3.54	(3292)
1646		14 9/16	(370)	22 13/64	(564)	2.25	(2086)	30 41/64	(778)	2.25	(2086)	4.07	(3778)
1650		14 9/16	(370)	25 13/64	(640)	2.55	(2368)	24 41/64	(626)	2.55	(2368)	4.59	(4264)
1656		14 9/16	(370)	28 13/64	(717)	2.85	(2650)	18 41/64	(474)	2.85	(2650)	5.11	(4750)
1660		14 9/16	(370)	31 13/64	(793)	3.16	(2932)	12 41/64	(321)	3.16	(2932)	5.64	(5236)
1666		14 9/16	(370)	34 13/64	(869)	3.46	(3214)	6 41/64	(169)	3.46	(3214)	6.16	(5722)
2020		20 9/16	(522)	7 13/64	(183)	1.03	(956)	60 41/64	(1540)	1.03	(956)	2.14	(1990)
2026		20 9/16	(522)	10 13/64	(259)	1.46	(1354)	54 41/64	(1388)	1.46	(1354)	2.92	(2709)
2030		20 9/16	(522)	13 13/64	(336)	1.89	(1752)	48 41/64	(1236)	1.89	(1752)	3.69	(3427)
2036		20 9/16	(522)	16 13/64	(412)	2.31	(2150)	42 41/64	(1083)	2.31	(2150)	4.46	(4145)
2040		20 9/16	(522)	19 13/64	(488)	2.74	(2548)	36 41/64	(931)	2.74	(2548)	5.24	(4864)
2046		20 9/16	(522)	22 13/64	(564)	3.17	(2946)	30 41/64	(778)	3.17	(2946)	6.01	(5582)
2050		20 9/16	(522)	25 13/64	(640)	3.60	(3344)	24 41/64	(626)	3.60	(3344)	6.78	(6301)
2056		20 9/16	(522)	28 13/64	(717)	4.03	(3742)	18 41/64	(474)	4.03	(3742)	7.56	(7019)
2060		20 9/16	(522)	31 13/64	(793)	4.46	(4140)	12 41/64	(321)	4.46	(4140)	8.33	(7738)
2066		20 9/16	(522)	34 13/64	(869)	4.88	(4538)	6 41/64	(169)	4.88	(4538)	9.10	(8456)
2620		26 9/16	(675)	7 13/64	(183)	1.33	(1235)	60 41/64	(1540)	1.33	(1235)	2.63	(2633)
2626		26 9/16	(675)	10 13/64	(259)	1.88	(1750)	54 41/64	(1388)	1.88	(1750)	3.86	(3584)
2630		26 9/16	(675)	13 13/64	(336)	2.44	(2264)	48 41/64	(1236)	2.44	(2264)	4.88	(4535)
2636		26 9/16	(675)	16 13/64	(412)	2.99	(2778)	42 41/64	(1083)	2.99	(2778)	5.90	(5486)
2640		26 9/16	(675)	19 13/64	(488)	3.54	(3292)	36 41/64	(931)	3.54	(3292)	6.93	(6436)
2646		26 9/16	(675)	22 13/64	(564)	4.10	(3806)	30 41/64	(778)	4.10	(3806)	7.95	(7387)
2650		26 9/16	(675)	25 13/64	(640)	4.65	(4320)	24 41/64	(626)	4.65	(4320)	8.97	(8338)
2656		26 9/16	(675)	28 13/64	(717)	5.20	(4834)	18 41/64	(474)	5.20	(4834)	10.00	(9288)
2660	E	26 9/16	(675)	31 13/64	(793)	5.76	(5348)	12 41/64	(321)	5.76	(5348)	11.02	(10239)
2666	E	26 9/16	(675)	34 13/64	(869)	6.31	(5862)	6 41/64	(169)	6.31	(5862)	12.04	(11190)
2820		28 9/16	(725)	7 13/64	(183)	1.43	(1328)	60 41/64	(1540)	1.43	(1328)	3.07	(2848)
2826		28 9/16	(725)	10 13/64	(259)	2.02	(1881)	54 41/64	(1388)	2.02	(1881)	4.17	(3876)
2830		28 9/16	(725)	13 13/64	(336)	2.62	(2434)	48 41/64	(1236)	2.62	(2434)	5.28	(4904)
2836		28 9/16	(725)	16 13/64	(412)	3.21	(2987)	42 41/64	(1083)	3.21	(2987)	6.39	(5932)
2840		28 9/16	(725)	19 13/64	(488)	3.81	(3540)	36 41/64	(931)	3.81	(3540)	7.49	(6960)
2846		28 9/16	(725)	22 13/64	(564)	4.40	(4092)	30 41/64	(778)	4.40	(4092)	8.60	(7989)
2850		28 9/16	(725)	25 13/64	(640)	5.00	(4645)	24 41/64	(626)	5.00	(4645)	9.71	(9017)
2856		28 9/16	(725)	28 13/64	(717)	5.59	(5198)	18 41/64	(474)	5.59	(5198)	10.81	(10045)
2860	E	28 9/16	(725)	31 13/64	(793)	6.19	(5751)	12 41/64	(321)	6.19	(5751)	11.92	(11073)
2866	E	28 9/16	(725)	34 13/64	(869)	6.78	(6303)	6 41/64	(169)	6.78	(6303)	13.03	(12101)
3020		32 9/16	(827)	7 13/64	(183)	1.63	(1515)	60 41/64	(1540)	1.63	(1515)	3.53	(3277)
3026		32 9/16	(827)	10 13/64	(259)	2.31	(2145)	54 41/64	(1388)	2.31	(2145)	4.80	(4460)
3030		32 9/16	(827)	13 13/64	(336)	2.99	(2775)	48 41/64	(1236)	2.99	(2775)	6.07	(5643)
3036		32 9/16	(827)	16 13/64	(412)	3.67	(3405)	42 41/64	(1083)	3.67	(3405)	7.35	(6826)
3040		32 9/16	(827)	19 13/64	(488)	4.34	(4035)	36 41/64	(931)	4.34	(4035)	8.62	(8009)
3046		32 9/16	(827)	22 13/64	(564)	5.02	(4666)	30 41/64	(778)	5.02	(4666)	9.89	(9192)
3050	E	32 9/16	(827)	25 13/64	(640)	5.70	(5296)	24 41/64	(626)	5.70	(5296)	11.17	(10375)
3056	E	32 9/16	(827)	28 13/64	(717)	6.38	(5926)	18 41/64	(474)	6.38	(5926)	12.44	(11558)
3060	E	32 9/16	(827)	31 13/64	(793)	7.06	(6556)	12 41/64	(321)	7.06	(6556)	13.71	(12741)
3066	E	32 9/16	(827)	34 13/64	(869)	7.74	(7186)	6 41/64	(169)	7.74	(7186)	14.99	(13924)
3620		38 9/16	(979)	7 13/64	(183)	1.93	(1794)	60 41/64	(1540)	1.93	(1794)	4.22	(3920)
3626		38 9/16	(979)	10 13/64	(259)	2.73	(2540)	54 41/64	(1388)	2.73	(2540)	5.74	(5335)
3630		38 9/16	(979)	13 13/64	(336)	3.54	(3286)	48 41/64	(1236)	3.54	(3286)	7.27	(6751)
3636		38 9/16	(979)	16 13/64	(412)	4.34	(4033)	42 41/64	(1083)	4.34	(4033)	8.79	(8166)
3640		38 9/16	(979)	19 13/64	(488)	5.14	(4779)	36 41/64	(931)	5.14	(4779)	10.31	(9581)
3646		38 9/16	(979)	22 13/64	(564)	5.95	(5525)	30 41/64	(778)	5.95	(5525)	11.84	(10996)
3650	E	38 9/16	(979)	25 13/64	(640)	6.75	(6272)	24 41/64	(626)	6.75	(6272)	13.36	(12412)
3656	E	38 9/16	(979)	28 13/64	(717)	7.55	(7018)	18 41/64	(474)	7.55	(7018)	14.88	(13827)
3660	E	38 9/16	(979)	31 13/64	(793)	8.36	(7764)	12 41/64	(321)	8.36	(7764)	16.41	(15242)
3666	E	38 9/16	(979)	34 13/64	(869)	9.16	(8511)	6 41/64	(169)	9.16	(8511)	17.93	(16657)
4020		44 9/16	(1132)	7 13/64	(183)	2.23	(2073)	60 41/64	(1540)	2.23	(2073)	4.91	(4564)
4026		44 9/16	(1132)	10 13/64	(259)	3.16	(2935)	54 41/64	(1388)	3.16	(2935)	6.69	(6211)
4030		44 9/16	(1132)	13 13/64	(336)	4.09	(3798)	48 41/64	(1236)	4.09	(3798)	8.46	(7858)
4036		44 9/16	(1132)	16 13/64	(412)	5.02	(4660)	42 41/64	(1083)	5.02	(4660)	10.23	(9506)
4040		44 9/16	(1132)	19 13/64	(488)	5.94	(5523)	36 41/64	(931)	5.94	(5523)	12.01	(11153)
4046		44 9/16	(1132)	22 13/64	(564)	6.87	(6385)	30 41/64	(778)	6.87	(6385)	13.78	(12801)
4050	E	44 9/16	(1132)	25 13/64	(640)	7.80	(7247)	24 41/64	(626)	7.80	(7247)	15.55	(14448)
4056	E	44 9/16	(1132)	28 13/64	(717)	8.73	(8110)	18 41/64	(474)	8.73	(8110)	17.33	(16096)
4060	E	44 9/16	(1132)	31 13/64	(793)	9.66	(8972)	12 41/64	(321)	9.66	(8972)	19.10	(17743)
4066	E	44 9/16	(1132)	34 13/64	(869)	10.59	(9835)	6 41/64	(169)	10.59	(9835)	20.87	(19391)

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.

* Floor to clear opening is calculated using 6'-10 1/4" from finished floor to rough opening header.

Units may optionally include a window opening control device tested to ASTM F2090-10, which can be released from the inside without the use of a key, tool, special knowledge, or force greater than that required for normal unit operation.

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

Egress Openings

Single Hung Cottage

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)
1626	14 9/16	(370)	7 23/32	(196)	0.78	(725)	54 41/64	(1388)	0.78	(725)	2.41	(2235)	17 11/16	(449)
1630	14 9/16	(370)	10 1/8	(257)	1.02	(951)	48 41/64	(1236)	1.02	(951)	3.03	(2818)	21 9/32	(541)
1636	14 9/16	(370)	12 33/64	(318)	1.27	(1176)	42 41/64	(1083)	1.27	(1176)	3.66	(3402)	24 7/8	(632)
1640	14 9/16	(370)	14 59/64	(379)	1.51	(1402)	36 41/64	(931)	1.51	(1402)	4.29	(3985)	28 31/64	(723)
1646	14 9/16	(370)	17 5/16	(440)	1.75	(1627)	30 41/64	(778)	1.75	(1627)	4.92	(4569)	32 5/64	(815)
1650	14 9/16	(370)	19 23/32	(501)	1.99	(1852)	24 41/64	(626)	1.99	(1852)	5.55	(5152)	35 11/16	(906)
1656	14 9/16	(370)	22 13/64	(564)	2.25	(2086)	18 41/64	(474)	2.25	(2086)	6.16	(5722)	39 3/16	(995)
1660	14 9/16	(370)	24 33/64	(623)	2.48	(2304)	12 41/64	(321)	2.48	(2304)	6.80	(6320)	42 7/8	(1089)
1666	14 9/16	(370)	26 59/64	(684)	2.72	(2529)	6 41/64	(169)	2.72	(2529)	7.43	(6903)	46 31/64	(1181)
2026	20 9/16	(522)	7 23/32	(196)	1.10	(1024)	54 41/64	(1388)	1.10	(1024)	3.55	(3302)	17 11/16	(449)
2030	20 9/16	(522)	10 1/8	(257)	1.44	(1342)	48 41/64	(1236)	1.44	(1342)	4.48	(4165)	21 9/32	(541)
2036	20 9/16	(522)	12 33/64	(318)	1.79	(1661)	42 41/64	(1083)	1.79	(1661)	5.41	(5027)	24 7/8	(632)
2040	20 9/16	(522)	14 59/64	(379)	2.13	(1979)	36 41/64	(931)	2.13	(1979)	6.34	(5889)	28 31/64	(723)
2046	20 9/16	(522)	17 5/16	(440)	2.47	(2297)	30 41/64	(778)	2.47	(2297)	7.27	(6751)	32 5/64	(815)
2050	20 9/16	(522)	19 23/32	(501)	2.82	(2616)	24 41/64	(626)	2.82	(2616)	8.19	(7613)	35 11/16	(906)
2056	20 9/16	(522)	22 13/64	(564)	3.17	(2946)	18 41/64	(474)	3.17	(2946)	9.10	(8456)	39 3/16	(995)
2060	20 9/16	(522)	24 33/64	(623)	3.50	(3253)	12 41/64	(321)	3.50	(3253)	10.05	(9338)	42 7/8	(1089)
2066	20 9/16	(522)	26 59/64	(684)	3.84	(3571)	6 41/64	(169)	3.84	(3571)	10.98	(10201)	46 31/64	(1181)
2626	26 9/16	(675)	7 23/32	(196)	1.42	(1323)	54 41/64	(1388)	1.42	(1323)	4.70	(4370)	17 43/64	(449)
2630	26 9/16	(675)	10 1/8	(257)	1.87	(1734)	48 41/64	(1236)	1.87	(1734)	5.93	(5511)	21 9/32	(541)
2636	26 9/16	(675)	12 33/64	(318)	2.31	(2145)	42 41/64	(1083)	2.31	(2145)	7.16	(6652)	24 7/8	(632)
2640	26 9/16	(675)	14 59/64	(379)	2.75	(2557)	36 41/64	(931)	2.75	(2557)	8.39	(7793)	28 31/64	(723)
2646	26 9/16	(675)	17 5/16	(440)	3.19	(2968)	30 41/64	(778)	3.19	(2968)	9.62	(8933)	32 5/64	(815)
2650	26 9/16	(675)	19 23/32	(501)	3.64	(3379)	24 41/64	(626)	3.64	(3379)	10.84	(10074)	35 11/16	(906)
2656	26 9/16	(675)	22 13/64	(564)	4.10	(3806)	18 41/64	(474)	4.10	(3806)	12.04	(11190)	39 3/16	(995)
2660	26 9/16	(675)	24 33/64	(623)	4.52	(4202)	12 41/64	(321)	4.52	(4202)	13.30	(12357)	42 7/8	(1089)
2666	26 9/16	(675)	26 59/64	(684)	4.97	(4613)	6 41/64	(169)	4.97	(4613)	14.53	(13498)	46 31/64	(1181)
2826	28 9/16	(725)	7 23/32	(196)	1.53	(1422)	54 41/64	(1388)	1.53	(1422)	5.09	(4726)	17 11/16	(449)
2830	28 9/16	(725)	10 1/8	(257)	2.01	(1865)	48 41/64	(1236)	2.01	(1865)	6.41	(5960)	21 9/32	(541)
2836	28 9/16	(725)	12 33/64	(318)	2.48	(2307)	42 41/64	(1083)	2.48	(2307)	7.74	(7193)	24 7/8	(632)
2840	28 9/16	(725)	14 59/64	(379)	2.96	(2749)	36 41/64	(931)	2.96	(2749)	9.07	(8427)	28 31/64	(723)
2846	28 9/16	(725)	17 5/16	(440)	3.44	(3191)	30 41/64	(778)	3.44	(3191)	10.40	(9661)	32 5/64	(815)
2850	28 9/16	(725)	19 23/32	(501)	3.91	(3634)	24 41/64	(626)	3.91	(3634)	11.73	(10895)	35 11/16	(906)
2856	28 9/16	(725)	22 13/64	(564)	4.40	(4092)	18 41/64	(474)	4.40	(4092)	13.03	(12101)	39 3/16	(995)
2860	28 9/16	(725)	24 33/64	(623)	4.86	(4519)	12 41/64	(321)	4.86	(4519)	14.38	(13364)	42 7/8	(1089)
2866	28 9/16	(725)	26 59/64	(684)	5.34	(4961)	6 41/64	(169)	5.34	(4961)	15.71	(14597)	46 31/64	(1181)
3026	32 9/16	(827)	7 23/32	(196)	1.75	(1622)	54 41/64	(1388)	1.75	(1622)	5.85	(5438)	17 11/16	(449)
3030	32 9/16	(827)	10 1/8	(257)	2.29	(2126)	48 41/64	(1236)	2.29	(2126)	7.38	(6857)	21 9/32	(541)
3036	32 9/16	(827)	12 33/64	(318)	2.83	(2630)	42 41/64	(1083)	2.83	(2630)	8.91	(8277)	24 7/8	(632)
3040	32 9/16	(827)	14 59/64	(379)	3.37	(3134)	36 41/64	(931)	3.37	(3134)	10.44	(9696)	28 31/64	(723)
3046	32 9/16	(827)	17 5/16	(440)	3.92	(3638)	30 41/64	(778)	3.92	(3638)	11.97	(11116)	32 5/64	(815)
3050	32 9/16	(827)	19 23/32	(501)	4.46	(4142)	24 41/64	(626)	4.46	(4142)	13.49	(12535)	35 11/16	(906)
3056	32 9/16	(827)	22 13/64	(564)	5.02	(4666)	18 41/64	(474)	5.02	(4666)	14.99	(13924)	39 3/16	(995)
3060	32 9/16	(827)	24 33/64	(623)	5.54	(5151)	12 41/64	(321)	5.54	(5151)	16.55	(15376)	42 7/8	(1089)
3066	E 32 9/16	(827)	26 59/64	(684)	6.09	(5656)	6 41/64	(169)	6.09	(5656)	18.08	(16796)	46 31/64	(1181)
3626	38 9/16	(979)	7 23/32	(196)	2.07	(1921)	54 41/64	(1388)	2.07	(1921)	7.00	(6505)	17 11/16	(449)
3630	38 9/16	(979)	10 1/8	(257)	2.71	(2518)	48 41/64	(1236)	2.71	(2518)	8.83	(8204)	21 9/32	(541)
3636	38 9/16	(979)	12 33/64	(318)	3.35	(3115)	42 41/64	(1083)	3.35	(3115)	10.66	(9902)	24 7/8	(632)
3640	38 9/16	(979)	14 59/64	(379)	4.00	(3712)	36 41/64	(931)	4.00	(3712)	12.49	(11600)	28 31/64	(723)
3646	38 9/16	(979)	17 5/16	(440)	4.64	(4309)	30 41/64	(778)	4.64	(4309)	14.31	(13298)	32 5/64	(815)
3650	38 9/16	(979)	19 23/32	(501)	5.28	(4906)	24 41/64	(626)	5.28	(4906)	16.14	(14997)	35 11/16	(906)
3656	38 9/16	(979)	22 13/64	(564)	5.95	(5525)	18 41/64	(474)	5.95	(5525)	17.93	(16657)	39 3/16	(995)
3660	E 38 9/16	(979)	24 33/64	(623)	6.57	(6101)	12 41/64	(321)	6.57	(6101)	19.80	(18395)	42 7/8	(1089)
3666	E 38 9/16	(979)	26 59/64	(684)	7.21	(6698)	6 41/64	(169)	7.21	(6698)	21.63	(20093)	46 31/64	(1181)
4026	44 9/16	(1132)	7 23/32	(196)	2.39	(2219)	54 41/64	(1388)	2.39	(2219)	8.15	(7573)	17 11/16	(449)
4030	44 9/16	(1132)	10 1/8	(257)	3.13	(2909)	48 41/64	(1236)	3.13	(2909)	10.28	(9550)	21 9/32	(541)
4036	44 9/16	(1132)	12 33/64	(318)	3.87	(3599)	42 41/64	(1083)	3.87	(3599)	12.41	(11527)	24 7/8	(632)
4040	44 9/16	(1132)	14 59/64	(379)	4.62	(4289)	36 41/64	(931)	4.62	(4289)	14.54	(13504)	28 31/64	(723)
4046	44 9/16	(1132)	17 5/16	(440)	5.36	(4979)	30 41/64	(778)	5.36	(4979)	16.66	(15481)	32 5/64	(815)
4050	44 9/16	(1132)	19 23/32	(501)	6.10	(5669)	24 41/64	(626)	6.10	(5669)	18.79	(17458)	35 11/16	(906)
4056	44 9/16	(1132)	22 13/64	(564)	6.87	(6385)	18 41/64	(474)	6.87	(6385)	20.87	(19391)	39 3/16	(995)
4060	E 44 9/16	(1132)	24 33/64	(623)	7.59	(7050)	12 41/64	(321)	7.59	(7050)	23.05	(21414)	42 7/8	(1089)
4066	E 44 9/16	(1132)	26 59/64	(684)	8.33	(7740)	6 41/64	(169)	8.33	(7740)	25.18	(23391)	46 31/64	(1181)

Egress Openings

Single Hung Reverse Cottage

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)
1626	14 9/16	(370)	7 23/32	(196)	0.78	(725)	54 41/64	(1388)	0.78	(725)	1.54	(1431)	12 45/64	(323)
1630	14 9/16	(370)	10 1/8	(257)	1.02	(951)	48 41/64	(1236)	1.02	(951)	1.96	(1820)	15 7/64	(384)
1636	14 9/16	(370)	12 33/64	(318)	1.27	(1176)	42 41/64	(1083)	1.27	(1176)	2.38	(2209)	17 33/64	(445)
1640	14 9/16	(370)	14 59/64	(379)	1.51	(1402)	36 41/64	(931)	1.51	(1402)	2.80	(2598)	19 29/32	(506)
1646	14 9/16	(370)	17 5/16	(440)	1.75	(1627)	30 41/64	(778)	1.75	(1627)	3.22	(2987)	22 5/16	(567)
1650	14 9/16	(370)	19 23/32	(501)	1.99	(1852)	24 41/64	(626)	1.99	(1852)	3.63	(3376)	24 45/64	(628)
1656	14 9/16	(370)	22 13/64	(564)	2.25	(2086)	18 41/64	(474)	2.25	(2086)	4.07	(3778)	27 3/16	(691)
1660	14 9/16	(370)	24 33/64	(623)	2.48	(2304)	12 41/64	(321)	2.48	(2304)	4.47	(4153)	29 33/64	(750)
1666	14 9/16	(370)	26 59/64	(684)	2.72	(2529)	6 41/64	(169)	2.72	(2529)	4.89	(4542)	31 29/32	(810)
2026	20 9/16	(522)	7 23/32	(196)	1.10	(1024)	54 41/64	(1388)	1.10	(1024)	2.28	(2115)	12 45/64	(323)
2030	20 9/16	(522)	10 1/8	(257)	1.44	(1342)	48 41/64	(1236)	1.44	(1342)	2.89	(2689)	15 7/64	(384)
2036	20 9/16	(522)	12 33/64	(318)	1.79	(1661)	42 41/64	(1083)	1.79	(1661)	3.51	(3264)	17 33/64	(445)
2040	20 9/16	(522)	14 59/64	(379)	2.13	(1979)	36 41/64	(931)	2.13	(1979)	4.13	(3839)	19 29/32	(506)
2046	20 9/16	(522)	17 5/16	(440)	2.47	(2297)	30 41/64	(778)	2.47	(2297)	4.75	(4414)	22 5/16	(567)
2050	20 9/16	(522)	19 23/32	(501)	2.82	(2616)	24 41/64	(626)	2.82	(2616)	5.37	(4988)	24 45/64	(628)
2056	20 9/16	(522)	22 13/64	(564)	3.17	(2946)	18 41/64	(474)	3.17	(2946)	6.01	(5582)	27 3/16	(691)
2060	20 9/16	(522)	24 33/64	(623)	3.50	(3253)	12 41/64	(321)	3.50	(3253)	6.61	(6137)	29 33/64	(750)
2066	20 9/16	(522)	26 59/64	(684)	3.84	(3571)	6 41/64	(169)	3.84	(3571)	7.22	(6712)	31 29/32	(810)
2626	26 9/16	(675)	7 23/32	(196)	1.42	(1323)	54 41/64	(1388)	1.42	(1323)	3.01	(2798)	12 45/64	(323)
2630	26 9/16	(675)	10 1/8	(257)	1.87	(1734)	48 41/64	(1236)	1.87	(1734)	3.83	(3559)	15 7/64	(384)
2636	26 9/16	(675)	12 33/64	(318)	2.31	(2145)	42 41/64	(1083)	2.31	(2145)	4.65	(4319)	17 33/64	(445)
2640	26 9/16	(675)	14 59/64	(379)	2.75	(2557)	36 41/64	(931)	2.75	(2557)	5.47	(5080)	19 29/32	(506)
2646	26 9/16	(675)	17 5/16	(440)	3.19	(2968)	30 41/64	(778)	3.19	(2968)	6.29	(5841)	22 5/16	(567)
2650	26 9/16	(675)	19 23/32	(501)	3.64	(3379)	24 41/64	(626)	3.64	(3379)	7.11	(6601)	24 45/64	(628)
2656	26 9/16	(675)	22 13/64	(564)	4.10	(3806)	18 41/64	(474)	4.10	(3806)	7.95	(7387)	27 3/16	(691)
2660	26 9/16	(675)	24 33/64	(623)	4.52	(4202)	12 41/64	(321)	4.52	(4202)	8.74	(8121)	29 33/64	(750)
2666	26 9/16	(675)	26 59/64	(684)	4.97	(4613)	6 41/64	(169)	4.97	(4613)	9.56	(8882)	31 29/32	(810)
2826	28 9/16	(725)	7 23/32	(196)	1.53	(1422)	54 41/64	(1388)	1.53	(1422)	3.26	(3026)	12 45/64	(323)
2830	28 9/16	(725)	10 1/8	(257)	2.01	(1865)	48 41/64	(1236)	2.01	(1865)	4.14	(3849)	15 7/64	(384)
2836	28 9/16	(725)	12 33/64	(318)	2.48	(2307)	42 41/64	(1083)	2.48	(2307)	5.03	(4671)	17 33/64	(445)
2840	28 9/16	(725)	14 59/64	(379)	2.96	(2749)	36 41/64	(931)	2.96	(2749)	5.91	(5494)	19 29/32	(506)
2846	28 9/16	(725)	17 5/16	(440)	3.44	(3191)	30 41/64	(778)	3.44	(3191)	6.80	(6316)	22 5/16	(567)
2850	28 9/16	(725)	19 23/32	(501)	3.91	(3634)	24 41/64	(626)	3.91	(3634)	7.68	(7139)	24 45/64	(628)
2856	28 9/16	(725)	22 13/64	(564)	4.40	(4092)	18 41/64	(474)	4.40	(4092)	8.60	(7989)	27 3/16	(691)
2860	28 9/16	(725)	24 33/64	(623)	4.86	(4519)	12 41/64	(321)	4.86	(4519)	9.45	(8782)	29 33/64	(750)
2866	28 9/16	(725)	26 59/64	(684)	5.34	(4961)	6 41/64	(169)	5.34	(4961)	10.34	(9605)	31 29/32	(810)
3026	32 9/16	(827)	7 23/32	(196)	1.75	(1622)	54 41/64	(1388)	1.75	(1622)	3.75	(3482)	12 45/64	(323)
3030	32 9/16	(827)	10 1/8	(257)	2.29	(2126)	48 41/64	(1236)	2.29	(2126)	4.77	(4428)	15 7/64	(384)
3036	32 9/16	(827)	12 33/64	(318)	2.83	(2630)	42 41/64	(1083)	2.83	(2630)	5.79	(5375)	17 33/64	(445)
3040	32 9/16	(827)	14 59/64	(379)	3.37	(3134)	36 41/64	(931)	3.37	(3134)	6.80	(6321)	19 29/32	(506)
3046	32 9/16	(827)	17 5/16	(440)	3.92	(3638)	30 41/64	(778)	3.92	(3638)	7.82	(7267)	22 5/16	(567)
3050	32 9/16	(827)	19 23/32	(501)	4.46	(4142)	24 41/64	(626)	4.46	(4142)	8.84	(8214)	24 45/64	(628)
3056	32 9/16	(827)	22 13/64	(564)	5.02	(4666)	18 41/64	(474)	5.02	(4666)	9.89	(9192)	27 3/16	(691)
3060	32 9/16	(827)	24 33/64	(623)	5.54	(5151)	12 41/64	(321)	5.54	(5151)	10.88	(10105)	29 33/64	(750)
3066	E 32 9/16	(827)	26 59/64	(684)	6.09	(5656)	6 41/64	(169)	6.09	(5656)	11.90	(11051)	31 29/32	(810)
3626	38 9/16	(979)	7 23/32	(196)	2.07	(1921)	54 41/64	(1388)	2.07	(1921)	4.48	(4165)	12 45/64	(323)
3630	38 9/16	(979)	10 1/8	(257)	2.71	(2518)	48 41/64	(1236)	2.71	(2518)	5.70	(5298)	15 7/64	(384)
3636	38 9/16	(979)	12 33/64	(318)	3.35	(3115)	42 41/64	(1083)	3.35	(3115)	6.92	(6430)	17 33/64	(445)
3640	38 9/16	(979)	14 59/64	(379)	4.00	(3712)	36 41/64	(931)	4.00	(3712)	8.14	(7562)	19 29/32	(506)
3646	38 9/16	(979)	17 5/16	(440)	4.64	(4309)	30 41/64	(778)	4.64	(4309)	9.36	(8694)	22 5/16	(567)
3650	38 9/16	(979)	19 23/32	(501)	5.28	(4906)	24 41/64	(626)	5.28	(4906)	10.58	(9826)	24 45/64	(628)
3656	38 9/16	(979)	22 13/64	(564)	5.95	(5525)	18 41/64	(474)	5.95	(5525)	11.84	(10996)	27 3/16	(691)
3660	E 38 9/16	(979)	24 33/64	(623)	6.57	(6101)	12 41/64	(321)	6.57	(6101)	13.01	(12089)	29 33/64	(750)
3666	E 38 9/16	(979)	26 59/64	(684)	7.21	(6698)	6 41/64	(169)	7.21	(6698)	14.23	(13221)	31 29/32	(810)
4026	44 9/16	(1132)	7 23/32	(196)	2.39	(2219)	54 41/64	(1388)	2.39	(2219)	5.22	(4849)	12 45/64	(323)
4030	44 9/16	(1132)	10 1/8	(257)	3.13	(2909)	48 41/64	(1236)	3.13	(2909)	6.64	(6167)	15 7/64	(384)
4036	44 9/16	(1132)	12 33/64	(318)	3.87	(3599)	42 41/64	(1083)	3.87	(3599)	8.06	(7485)	17 33/64	(445)
4040	44 9/16	(1132)	14 59/64	(379)	4.62	(4289)	36 41/64	(931)	4.62	(4289)	9.48	(8803)	19 29/32	(506)
4046	44 9/16	(1132)	17 5/16	(440)	5.36	(4979)	30 41/64	(778)	5.36	(4979)	10.89	(10121)	22 5/16	(567)
4050	44 9/16	(1132)	19 23/32	(501)	6.10	(5669)	24 41/64	(626)	6.10	(5669)	12.31	(11439)	24 45/64	(628)
4056	44 9/16	(1132)	22 13/64	(564)	6.87	(6385)	18 41/64	(474)	6.87	(6385)	13.78	(12801)	27 3/16	(691)
4060	E 44 9/16	(1132)	24 33/64	(623)	7.59	(7050)	12 41/64	(321)	7.59	(7050)	15.15	(14073)	29 33/64	(750)
4066	E 44 9/16	(1132)	26 59/64	(684)	8.33	(7740)	6 41/64	(169)	8.33	(7740)	16.57	(15391)	31 29/32	(810)

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.

* Floor to clear opening is calculated using 6'-10 1/4" from finished floor to rough opening header.

Units may optionally include a window opening control device tested to ASTM F2090-10, which can be released from the inside without the use of a key, tool, special knowledge, or force greater than that required for normal unit operation.

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

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

Egress Openings

Double Hung Equal Sash

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)
1620	14 9/16	(370)	7 13/64	(183)	0.73	(677)	60 41/64	(1540)	0.73	(677)	1.45	(1347)
1626	14 9/16	(370)	10 13/64	(259)	1.03	(959)	54 41/64	(1388)	1.03	(959)	1.97	(1833)
1630	14 9/16	(370)	13 13/64	(336)	1.34	(1241)	48 41/64	(1236)	1.34	(1241)	2.50	(2319)
1636	14 9/16	(370)	16 13/64	(412)	1.64	(1523)	42 41/64	(1083)	1.64	(1523)	3.02	(2805)
1640	14 9/16	(370)	19 13/64	(488)	1.94	(1804)	36 41/64	(931)	1.94	(1804)	3.54	(3292)
1646	14 9/16	(370)	22 13/64	(564)	2.25	(2086)	30 41/64	(778)	2.25	(2086)	4.07	(3778)
1650	14 9/16	(370)	25 13/64	(640)	2.55	(2368)	24 41/64	(626)	2.55	(2368)	4.59	(4264)
1656	14 9/16	(370)	28 13/64	(717)	2.85	(2650)	18 41/64	(474)	2.85	(2650)	5.11	(4750)
1660	14 9/16	(370)	31 13/64	(793)	3.16	(2932)	12 41/64	(321)	3.16	(2932)	5.64	(5236)
1666	14 9/16	(370)	34 13/64	(869)	3.46	(3214)	6 41/64	(169)	3.46	(3214)	6.16	(5722)
2020	20 9/16	(522)	7 13/64	(183)	1.03	(956)	60 41/64	(1540)	1.03	(956)	2.14	(1990)
2026	20 9/16	(522)	10 13/64	(259)	1.46	(1354)	54 41/64	(1388)	1.46	(1354)	2.92	(2709)
2030	20 9/16	(522)	13 13/64	(336)	1.89	(1752)	48 41/64	(1236)	1.89	(1752)	3.69	(3427)
2036	20 9/16	(522)	16 13/64	(412)	2.31	(2150)	42 41/64	(1083)	2.31	(2150)	4.46	(4145)
2040	20 9/16	(522)	19 13/64	(488)	2.74	(2548)	36 41/64	(931)	2.74	(2548)	5.24	(4864)
2046	20 9/16	(522)	22 13/64	(564)	3.17	(2946)	30 41/64	(778)	3.17	(2946)	6.01	(5582)
2050	20 9/16	(522)	25 13/64	(640)	3.60	(3344)	24 41/64	(626)	3.60	(3344)	6.78	(6301)
2056	20 9/16	(522)	28 13/64	(717)	4.03	(3742)	18 41/64	(474)	4.03	(3742)	7.56	(7019)
2060	20 9/16	(522)	31 13/64	(793)	4.46	(4140)	12 41/64	(321)	4.46	(4140)	8.33	(7738)
2066	20 9/16	(522)	34 13/64	(869)	4.88	(4538)	6 41/64	(169)	4.88	(4538)	9.10	(8456)
2620	26 9/16	(675)	7 13/64	(183)	1.33	(1235)	60 41/64	(1540)	1.33	(1235)	2.83	(2633)
2626	26 9/16	(675)	10 13/64	(259)	1.88	(1750)	54 41/64	(1388)	1.88	(1750)	3.86	(3584)
2630	26 9/16	(675)	13 13/64	(336)	2.44	(2264)	48 41/64	(1236)	2.44	(2264)	4.88	(4535)
2636	26 9/16	(675)	16 13/64	(412)	2.99	(2778)	42 41/64	(1083)	2.99	(2778)	5.90	(5486)
2640	26 9/16	(675)	19 13/64	(488)	3.54	(3292)	36 41/64	(931)	3.54	(3292)	6.93	(6436)
2646	26 9/16	(675)	22 13/64	(564)	4.10	(3806)	30 41/64	(778)	4.10	(3806)	7.95	(7387)
2650	26 9/16	(675)	25 13/64	(640)	4.65	(4320)	24 41/64	(626)	4.65	(4320)	8.97	(8338)
2656	26 9/16	(675)	28 13/64	(717)	5.20	(4834)	18 41/64	(474)	5.20	(4834)	10.00	(9288)
2660	E 26 9/16	(675)	31 13/64	(793)	5.76	(5348)	12 41/64	(321)	5.76	(5348)	11.02	(10239)
2666	E 26 9/16	(675)	34 13/64	(869)	6.31	(5862)	6 41/64	(169)	6.31	(5862)	12.04	(11190)
2820	28 9/16	(725)	7 13/64	(183)	1.43	(1328)	60 41/64	(1540)	1.43	(1328)	3.07	(2848)
2826	28 9/16	(725)	10 13/64	(259)	2.02	(1881)	54 41/64	(1388)	2.02	(1881)	4.17	(3876)
2830	28 9/16	(725)	13 13/64	(336)	2.62	(2434)	48 41/64	(1236)	2.62	(2434)	5.28	(4904)
2836	28 9/16	(725)	16 13/64	(412)	3.21	(2987)	42 41/64	(1083)	3.21	(2987)	6.39	(5932)
2840	28 9/16	(725)	19 13/64	(488)	3.81	(3540)	36 41/64	(931)	3.81	(3540)	7.49	(6960)
2846	28 9/16	(725)	22 13/64	(564)	4.40	(4092)	30 41/64	(778)	4.40	(4092)	8.60	(7989)
2850	28 9/16	(725)	25 13/64	(640)	5.00	(4645)	24 41/64	(626)	5.00	(4645)	9.71	(9017)
2856	28 9/16	(725)	28 13/64	(717)	5.59	(5198)	18 41/64	(474)	5.59	(5198)	10.81	(10045)
2860	E 28 9/16	(725)	31 13/64	(793)	6.19	(5751)	12 41/64	(321)	6.19	(5751)	11.92	(11073)
2866	E 28 9/16	(725)	34 13/64	(869)	6.78	(6303)	6 41/64	(169)	6.78	(6303)	13.03	(12101)
3020	32 9/16	(827)	7 13/64	(183)	1.63	(1515)	60 41/64	(1540)	1.63	(1515)	3.53	(3277)
3026	32 9/16	(827)	10 13/64	(259)	2.31	(2145)	54 41/64	(1388)	2.31	(2145)	4.80	(4460)
3030	32 9/16	(827)	13 13/64	(336)	2.99	(2775)	48 41/64	(1236)	2.99	(2775)	6.07	(5643)
3036	32 9/16	(827)	16 13/64	(412)	3.67	(3405)	42 41/64	(1083)	3.67	(3405)	7.35	(6826)
3040	32 9/16	(827)	19 13/64	(488)	4.34	(4035)	36 41/64	(931)	4.34	(4035)	8.62	(8009)
3046	32 9/16	(827)	22 13/64	(564)	5.02	(4666)	30 41/64	(778)	5.02	(4666)	9.89	(9192)
3050	E 32 9/16	(827)	25 13/64	(640)	5.70	(5296)	24 41/64	(626)	5.70	(5296)	11.17	(10375)
3056	E 32 9/16	(827)	28 13/64	(717)	6.38	(5926)	18 41/64	(474)	6.38	(5926)	12.44	(11558)
3060	E 32 9/16	(827)	31 13/64	(793)	7.06	(6556)	12 41/64	(321)	7.06	(6556)	13.71	(12741)
3066	E 32 9/16	(827)	34 13/64	(869)	7.74	(7186)	6 41/64	(169)	7.74	(7186)	14.99	(13924)
3620	38 9/16	(979)	7 13/64	(183)	1.93	(1794)	60 41/64	(1540)	1.93	(1794)	4.22	(3920)
3626	38 9/16	(979)	10 13/64	(259)	2.73	(2540)	54 41/64	(1388)	2.73	(2540)	5.74	(5335)
3630	38 9/16	(979)	13 13/64	(336)	3.54	(3286)	48 41/64	(1236)	3.54	(3286)	7.27	(6751)
3636	38 9/16	(979)	16 13/64	(412)	4.34	(4033)	42 41/64	(1083)	4.34	(4033)	8.79	(8166)
3640	38 9/16	(979)	19 13/64	(488)	5.14	(4779)	36 41/64	(931)	5.14	(4779)	10.31	(9581)
3646	38 9/16	(979)	22 13/64	(564)	5.95	(5525)	30 41/64	(778)	5.95	(5525)	11.84	(10996)
3650	E 38 9/16	(979)	25 13/64	(640)	6.75	(6272)	24 41/64	(626)	6.75	(6272)	13.36	(12412)
3656	E 38 9/16	(979)	28 13/64	(717)	7.55	(7018)	18 41/64	(474)	7.55	(7018)	14.88	(13827)
3660	E 38 9/16	(979)	31 13/64	(793)	8.36	(7764)	12 41/64	(321)	8.36	(7764)	16.41	(15242)
3666	E 38 9/16	(979)	34 13/64	(869)	9.16	(8511)	6 41/64	(169)	9.16	(8511)	17.93	(16657)
4020	44 9/16	(1132)	7 13/64	(183)	2.23	(2073)	60 41/64	(1540)	2.23	(2073)	4.91	(4564)
4026	44 9/16	(1132)	10 13/64	(259)	3.16	(2935)	54 41/64	(1388)	3.16	(2935)	6.69	(6211)
4030	44 9/16	(1132)	13 13/64	(336)	4.09	(3798)	48 41/64	(1236)	4.09	(3798)	8.46	(7858)
4036	44 9/16	(1132)	16 13/64	(412)	5.02	(4660)	42 41/64	(1083)	5.02	(4660)	10.23	(9506)
4040	44 9/16	(1132)	19 13/64	(488)	5.94	(5523)	36 41/64	(931)	5.94	(5523)	12.01	(11153)
4046	44 9/16	(1132)	22 13/64	(564)	6.87	(6385)	30 41/64	(778)	6.87	(6385)	13.78	(12801)
4050	E 44 9/16	(1132)	25 13/64	(640)	7.80	(7247)	24 41/64	(626)	7.80	(7247)	15.55	(14448)
4056	E 44 9/16	(1132)	28 13/64	(717)	8.73	(8110)	18 41/64	(474)	8.73	(8110)	17.33	(16096)
4060	E 44 9/16	(1132)	31 13/64	(793)	9.66	(8972)	12 41/64	(321)	9.66	(8972)	19.10	(17743)
4066	E 44 9/16	(1132)	34 13/64	(869)	10.59	(9835)	6 41/64	(169)	10.59	(9835)	20.87	(19391)

Egress Openings

Double Hung Cottage

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)
1626	14 9/16	(370)	7 23/32	(196)	0.78	(725)	54 41/64	(1388)	0.78	(725)	2.41	(2235)	17 11/16	(449)
1630	14 9/16	(370)	10 1/8	(257)	1.02	(951)	48 41/64	(1236)	1.02	(951)	3.03	(2818)	21 9/32	(541)
1636	14 9/16	(370)	12 33/64	(318)	1.27	(1176)	42 41/64	(1083)	1.27	(1176)	3.66	(3402)	24 7/8	(632)
1640	14 9/16	(370)	14 59/64	(379)	1.51	(1402)	36 41/64	(931)	1.51	(1402)	4.29	(3985)	28 31/64	(723)
1646	14 9/16	(370)	17 5/16	(440)	1.75	(1627)	30 41/64	(778)	1.75	(1627)	4.92	(4569)	32 5/64	(815)
1650	14 9/16	(370)	19 23/32	(501)	1.99	(1852)	24 41/64	(626)	1.99	(1852)	5.55	(5152)	35 11/16	(906)
1656	14 9/16	(370)	22 13/64	(564)	2.25	(2086)	18 41/64	(474)	2.25	(2086)	6.16	(5722)	39 3/16	(995)
2026	20 9/16	(522)	7 23/32	(196)	1.10	(1024)	54 41/64	(1388)	1.10	(1024)	3.55	(3302)	17 11/16	(449)
2030	20 9/16	(522)	10 1/8	(257)	1.44	(1342)	48 41/64	(1236)	1.44	(1342)	4.48	(4165)	21 9/32	(541)
2036	20 9/16	(522)	12 33/64	(318)	1.79	(1661)	42 41/64	(1083)	1.79	(1661)	5.41	(5027)	24 7/8	(632)
2040	20 9/16	(522)	14 59/64	(379)	2.13	(1979)	36 41/64	(931)	2.13	(1979)	6.34	(5889)	28 31/64	(723)
2046	20 9/16	(522)	17 5/16	(440)	2.47	(2297)	30 41/64	(778)	2.47	(2297)	7.27	(6751)	32 5/64	(815)
2050	20 9/16	(522)	19 23/32	(501)	2.82	(2616)	24 41/64	(626)	2.82	(2616)	8.19	(7613)	35 11/16	(906)
2056	20 9/16	(522)	22 13/64	(564)	3.17	(2946)	18 41/64	(474)	3.17	(2946)	9.10	(8456)	39 3/16	(995)
2626	26 9/16	(675)	7 23/32	(196)	1.42	(1323)	54 41/64	(1388)	1.42	(1323)	4.70	(4370)	17 43/64	(449)
2630	26 9/16	(675)	10 1/8	(257)	1.87	(1734)	48 41/64	(1236)	1.87	(1734)	5.93	(5511)	21 9/32	(541)
2636	26 9/16	(675)	12 33/64	(318)	2.31	(2145)	42 41/64	(1083)	2.31	(2145)	7.16	(6652)	24 7/8	(632)
2640	26 9/16	(675)	14 59/64	(379)	2.75	(2557)	36 41/64	(931)	2.75	(2557)	8.39	(7793)	28 31/64	(723)
2646	26 9/16	(675)	17 5/16	(440)	3.19	(2968)	30 41/64	(778)	3.19	(2968)	9.62	(8933)	32 5/64	(815)
2650	26 9/16	(675)	19 23/32	(501)	3.64	(3379)	24 41/64	(626)	3.64	(3379)	10.84	(10074)	35 11/16	(906)
2656	26 9/16	(675)	22 13/64	(564)	4.10	(3806)	18 41/64	(474)	4.10	(3806)	12.04	(11190)	39 3/16	(995)
2826	28 9/16	(725)	7 23/32	(196)	1.53	(1422)	54 41/64	(1388)	1.53	(1422)	5.09	(4726)	17 11/16	(449)
2830	28 9/16	(725)	10 1/8	(257)	2.01	(1865)	48 41/64	(1236)	2.01	(1865)	6.41	(5960)	21 9/32	(541)
2836	28 9/16	(725)	12 33/64	(318)	2.48	(2307)	42 41/64	(1083)	2.48	(2307)	7.74	(7193)	24 7/8	(632)
2840	28 9/16	(725)	14 59/64	(379)	2.96	(2749)	36 41/64	(931)	2.96	(2749)	9.07	(8427)	28 31/64	(723)
2846	28 9/16	(725)	17 5/16	(440)	3.44	(3191)	30 41/64	(778)	3.44	(3191)	10.40	(9661)	32 5/64	(815)
2850	28 9/16	(725)	19 23/32	(501)	3.91	(3634)	24 41/64	(626)	3.91	(3634)	11.73	(10895)	35 11/16	(906)
2856	28 9/16	(725)	22 13/64	(564)	4.40	(4092)	18 41/64	(474)	4.40	(4092)	13.03	(12101)	39 3/16	(995)
3026	32 9/16	(827)	7 23/32	(196)	1.75	(1622)	54 41/64	(1388)	1.75	(1622)	5.85	(5438)	17 11/16	(449)
3030	32 9/16	(827)	10 1/8	(257)	2.29	(2126)	48 41/64	(1236)	2.29	(2126)	7.38	(6857)	21 9/32	(541)
3036	32 9/16	(827)	12 33/64	(318)	2.83	(2630)	42 41/64	(1083)	2.83	(2630)	8.91	(8277)	24 7/8	(632)
3040	32 9/16	(827)	14 59/64	(379)	3.37	(3134)	36 41/64	(931)	3.37	(3134)	10.44	(9696)	28 31/64	(723)
3046	32 9/16	(827)	17 5/16	(440)	3.92	(3638)	30 41/64	(778)	3.92	(3638)	11.97	(11116)	32 5/64	(815)
3050	32 9/16	(827)	19 23/32	(501)	4.46	(4142)	24 41/64	(626)	4.46	(4142)	13.49	(12535)	35 11/16	(906)
3056	32 9/16	(827)	22 13/64	(564)	5.02	(4666)	18 41/64	(474)	5.02	(4666)	14.99	(13924)	39 3/16	(995)
3626	38 9/16	(979)	7 23/32	(196)	2.07	(1921)	54 41/64	(1388)	2.07	(1921)	7.00	(6505)	17 11/16	(449)
3630	38 9/16	(979)	10 1/8	(257)	2.71	(2518)	48 41/64	(1236)	2.71	(2518)	8.83	(8204)	21 9/32	(541)
3636	38 9/16	(979)	12 33/64	(318)	3.35	(3115)	42 41/64	(1083)	3.35	(3115)	10.66	(9902)	24 7/8	(632)
3640	38 9/16	(979)	14 59/64	(379)	4.00	(3712)	36 41/64	(931)	4.00	(3712)	12.49	(11600)	28 31/64	(723)
3646	38 9/16	(979)	17 5/16	(440)	4.64	(4309)	30 41/64	(778)	4.64	(4309)	14.31	(13298)	32 5/64	(815)
3650	38 9/16	(979)	19 23/32	(501)	5.28	(4906)	24 41/64	(626)	5.28	(4906)	16.14	(14997)	35 11/16	(906)
3656	38 9/16	(979)	22 13/64	(564)	5.95	(5525)	18 41/64	(474)	5.95	(5525)	17.93	(16657)	39 3/16	(995)
4026	44 9/16	(1132)	7 23/32	(196)	2.39	(2219)	54 41/64	(1388)	2.39	(2219)	8.15	(7573)	17 11/16	(449)
4030	44 9/16	(1132)	10 1/8	(257)	3.13	(2909)	48 41/64	(1236)	3.13	(2909)	10.28	(9550)	21 9/32	(541)
4036	44 9/16	(1132)	12 33/64	(318)	3.87	(3599)	42 41/64	(1083)	3.87	(3599)	12.41	(11527)	24 7/8	(632)
4040	44 9/16	(1132)	14 59/64	(379)	4.62	(4289)	36 41/64	(931)	4.62	(4289)	14.54	(13504)	28 31/64	(723)
4046	44 9/16	(1132)	17 5/16	(440)	5.36	(4979)	30 41/64	(778)	5.36	(4979)	16.66	(15481)	32 5/64	(815)
4050	44 9/16	(1132)	19 23/32	(501)	6.10	(5669)	24 41/64	(626)	6.10	(5669)	18.79	(17458)	35 11/16	(906)
4056	44 9/16	(1132)	22 13/64	(564)	6.87	(6385)	18 41/64	(474)	6.87	(6385)	20.87	(19391)	39 3/16	(995)

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.

* Floor to clear opening is calculated using 6'-10 1/4" from finished floor to rough opening header.

Units may optionally include a window opening control device tested to ASTM F2090-10, which can be released from the inside without the use of a key, tool, special knowledge, or force greater than that required for normal unit operation.

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

Egress Openings

Double Hung Reverse Cottage

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)
1626	14 9/16	(370)	7 23/32	(196)	0.78	(725)	54 41/64	(1388)	0.78	(725)	1.54	(1431)	12 45/64	(323)
1630	14 9/16	(370)	10 1/8	(257)	1.02	(951)	48 41/64	(1236)	1.02	(951)	1.96	(1820)	15 7/64	(384)
1636	14 9/16	(370)	12 33/64	(318)	1.27	(1176)	42 41/64	(1083)	1.27	(1176)	2.38	(2209)	17 33/64	(445)
1640	14 9/16	(370)	14 59/64	(379)	1.51	(1402)	36 41/64	(931)	1.51	(1402)	2.80	(2598)	19 29/32	(506)
1646	14 9/16	(370)	17 5/16	(440)	1.75	(1627)	30 41/64	(778)	1.75	(1627)	3.22	(2987)	22 5/16	(567)
1650	14 9/16	(370)	19 23/32	(501)	1.99	(1852)	24 41/64	(626)	1.99	(1852)	3.63	(3376)	24 45/64	(628)
1656	14 9/16	(370)	22 13/64	(564)	2.25	(2086)	18 41/64	(474)	2.25	(2086)	4.07	(3778)	27 3/16	(691)
2026	20 9/16	(522)	7 23/32	(196)	1.10	(1024)	54 41/64	(1388)	1.10	(1024)	2.28	(2115)	12 45/64	(323)
2030	20 9/16	(522)	10 1/8	(257)	1.44	(1342)	48 41/64	(1236)	1.44	(1342)	2.89	(2689)	15 7/64	(384)
2036	20 9/16	(522)	12 33/64	(318)	1.79	(1661)	42 41/64	(1083)	1.79	(1661)	3.51	(3264)	17 33/64	(445)
2040	20 9/16	(522)	14 59/64	(379)	2.13	(1979)	36 41/64	(931)	2.13	(1979)	4.13	(3839)	19 29/32	(506)
2046	20 9/16	(522)	17 5/16	(440)	2.47	(2297)	30 41/64	(778)	2.47	(2297)	4.75	(4414)	22 5/16	(567)
2050	20 9/16	(522)	19 23/32	(501)	2.82	(2616)	24 41/64	(626)	2.82	(2616)	5.37	(4988)	24 45/64	(628)
2056	20 9/16	(522)	22 13/64	(564)	3.17	(2946)	18 41/64	(474)	3.17	(2946)	6.01	(5582)	27 3/16	(691)
2626	26 9/16	(675)	7 23/32	(196)	1.42	(1323)	54 41/64	(1388)	1.42	(1323)	3.01	(2798)	12 45/64	(323)
2630	26 9/16	(675)	10 1/8	(257)	1.87	(1734)	48 41/64	(1236)	1.87	(1734)	3.83	(3559)	15 7/64	(384)
2636	26 9/16	(675)	12 33/64	(318)	2.31	(2145)	42 41/64	(1083)	2.31	(2145)	4.65	(4319)	17 33/64	(445)
2640	26 9/16	(675)	14 59/64	(379)	2.75	(2557)	36 41/64	(931)	2.75	(2557)	5.47	(5080)	19 29/32	(506)
2646	26 9/16	(675)	17 5/16	(440)	3.19	(2968)	30 41/64	(778)	3.19	(2968)	6.29	(5841)	22 5/16	(567)
2650	26 9/16	(675)	19 23/32	(501)	3.64	(3379)	24 41/64	(626)	3.64	(3379)	7.11	(6601)	24 45/64	(628)
2656	26 9/16	(675)	22 13/64	(564)	4.10	(3806)	18 41/64	(474)	4.10	(3806)	7.95	(7387)	27 3/16	(691)
2826	28 9/16	(725)	7 23/32	(196)	1.53	(1422)	54 41/64	(1388)	1.53	(1422)	3.26	(3026)	12 45/64	(323)
2830	28 9/16	(725)	10 1/8	(257)	2.01	(1865)	48 41/64	(1236)	2.01	(1865)	4.14	(3849)	15 7/64	(384)
2836	28 9/16	(725)	12 33/64	(318)	2.48	(2307)	42 41/64	(1083)	2.48	(2307)	5.03	(4671)	17 33/64	(445)
2840	28 9/16	(725)	14 59/64	(379)	2.96	(2749)	36 41/64	(931)	2.96	(2749)	5.91	(5494)	19 29/32	(506)
2846	28 9/16	(725)	17 5/16	(440)	3.44	(3191)	30 41/64	(778)	3.44	(3191)	6.80	(6316)	22 5/16	(567)
2850	28 9/16	(725)	19 23/32	(501)	3.91	(3634)	24 41/64	(626)	3.91	(3634)	7.68	(7139)	24 45/64	(628)
2856	28 9/16	(725)	22 13/64	(564)	4.40	(4092)	18 41/64	(474)	4.40	(4092)	8.60	(7989)	27 3/16	(691)
3026	32 9/16	(827)	7 23/32	(196)	1.75	(1622)	54 41/64	(1388)	1.75	(1622)	3.75	(3482)	12 45/64	(323)
3030	32 9/16	(827)	10 1/8	(257)	2.29	(2126)	48 41/64	(1236)	2.29	(2126)	4.77	(4428)	15 7/64	(384)
3036	32 9/16	(827)	12 33/64	(318)	2.83	(2630)	42 41/64	(1083)	2.83	(2630)	5.79	(5375)	17 33/64	(445)
3040	32 9/16	(827)	14 59/64	(379)	3.37	(3134)	36 41/64	(931)	3.37	(3134)	6.80	(6321)	19 29/32	(506)
3046	32 9/16	(827)	17 5/16	(440)	3.92	(3638)	30 41/64	(778)	3.92	(3638)	7.82	(7267)	22 5/16	(567)
3050	32 9/16	(827)	19 23/32	(501)	4.46	(4142)	24 41/64	(626)	4.46	(4142)	8.84	(8214)	24 45/64	(628)
3056	32 9/16	(827)	22 13/64	(564)	5.02	(4666)	18 41/64	(474)	5.02	(4666)	9.89	(9192)	27 3/16	(691)
3626	38 9/16	(979)	7 23/32	(196)	2.07	(1921)	54 41/64	(1388)	2.07	(1921)	4.48	(4165)	12 45/64	(323)
3630	38 9/16	(979)	10 1/8	(257)	2.71	(2518)	48 41/64	(1236)	2.71	(2518)	5.70	(5298)	15 7/64	(384)
3636	38 9/16	(979)	12 33/64	(318)	3.35	(3115)	42 41/64	(1083)	3.35	(3115)	6.92	(6430)	17 33/64	(445)
3640	38 9/16	(979)	14 59/64	(379)	4.00	(3712)	36 41/64	(931)	4.00	(3712)	8.14	(7562)	19 29/32	(506)
3646	38 9/16	(979)	17 5/16	(440)	4.64	(4309)	30 41/64	(778)	4.64	(4309)	9.36	(8694)	22 5/16	(567)
3650	38 9/16	(979)	19 23/32	(501)	5.28	(4906)	24 41/64	(626)	5.28	(4906)	10.58	(9826)	24 45/64	(628)
3656	38 9/16	(979)	22 13/64	(564)	5.95	(5525)	18 41/64	(474)	5.95	(5525)	11.84	(10996)	27 3/16	(691)
4026	44 9/16	(1132)	7 23/32	(196)	2.39	(2219)	54 41/64	(1388)	2.39	(2219)	5.22	(4849)	12 45/64	(323)
4030	44 9/16	(1132)	10 1/8	(257)	3.13	(2909)	48 41/64	(1236)	3.13	(2909)	6.64	(6167)	15 7/64	(384)
4036	44 9/16	(1132)	12 33/64	(318)	3.87	(3599)	42 41/64	(1083)	3.87	(3599)	8.06	(7485)	17 33/64	(445)
4040	44 9/16	(1132)	14 59/64	(379)	4.62	(4289)	36 41/64	(931)	4.62	(4289)	9.48	(8803)	19 29/32	(506)
4046	44 9/16	(1132)	17 5/16	(440)	5.36	(4979)	30 41/64	(778)	5.36	(4979)	10.89	(10121)	22 5/16	(567)
4050	44 9/16	(1132)	19 23/32	(501)	6.10	(5669)	24 41/64	(626)	6.10	(5669)	12.31	(11439)	24 45/64	(628)
4056	44 9/16	(1132)	22 13/64	(564)	6.87	(6385)	18 41/64	(474)	6.87	(6385)	13.78	(12801)	27 3/16	(691)

Egress Openings

Sliding Patio Door

Egress Width			Egress Height		Egress Clear Opening		Vent		DLO		
Unit #	Inches	(mm)	Inches	(mm)	Sq. Ft.	(cm ²)	Sq. Ft	(cm ²)	Sq. Ft.	(cm ²)	
5068	24 1/16	(611)	75 17/64	(1912)	12.58	(11688)	12.58	(11688)	25.16	(23376)	
50610	24 1/16	(611)	77 17/64	(1963)	12.92	(11999)	12.92	(11999)	25.86	(24021)	
5080	24 1/16	(611)	91 17/64	(2318)	15.26	(14173)	15.26	(14173)	30.72	(28536)	
51068	29 5/16	(745)	75 17/64	(1912)	15.33	(14238)	15.33	(14238)	30.45	(28287)	
6068	30 1/16	(764)	75 17/64	(1912)	15.72	(14602)	15.72	(14602)	31.20	(28989)	
60610	30 1/16	(764)	77 17/64	(1963)	16.14	(14990)	16.14	(14990)	32.06	(29789)	
6080	30 1/16	(764)	91 17/64	(2318)	19.06	(17706)	19.06	(17706)	38.09	(35387)	
6068	**	32 5/32	(817)	75 17/64	(1912)	16.81	(15616)	16.81	(15616)	31.20	(28989)
60610	**	32 5/32	(817)	77 17/64	(1963)	17.26	(16031)	17.26	(16031)	32.06	(29789)
6080	**	32 5/32	(817)	91 17/64	(2318)	20.38	(18935)	20.38	(18935)	38.09	(35387)
8068	42 1/16	(1069)	75 17/64	(1912)	21.99	(20430)	21.99	(20430)	43.29	(40214)	
80610	42 1/16	(1069)	77 17/64	(1963)	22.57	(20972)	22.57	(20972)	44.48	(41323)	
8080	42 1/16	(1069)	91 17/64	(2318)	26.66	(24772)	26.66	(24772)	52.84	(49089)	
9068	30 1/16	(764)	75 17/64	(1912)	15.72	(14602)	15.72	(14602)	31.20	(28989)	
90610	30 1/16	(764)	77 17/64	(1963)	16.14	(14990)	16.14	(14990)	32.06	(29789)	
9080	30 1/16	(764)	91 17/64	(2318)	19.06	(17706)	19.06	(17706)	38.09	(35387)	

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.

** Applies to Sliding Patio Doors with optional field applied Slim Handle (Net Clear Opening Handle).

Units may optionally include a window opening control device tested to ASTM F2090-10, which can be released from the inside without the use of a key, tool, special knowledge, or force greater than that required for normal unit operation.

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

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

Egress Openings

Glider

		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 ³)	Sq. Ft.	(cm ²)	Sq. Ft.	(cm ²)
2616	XO, OX	11 13/16	(300)	13 41/64	(346)	1.10	(1024)	66 41/64	(1693)	1.10	(1024)	1.97	(1833)
2620	XO, OX	11 13/16	(300)	19 41/64	(499)	1.59	(1482)	60 41/64	(1540)	1.59	(1482)	2.92	(2709)
2626	XO, OX	11 13/16	(300)	25 41/64	(651)	2.09	(1939)	54 41/64	(1388)	2.09	(1939)	3.86	(3584)
2630	XO, OX	11 13/16	(300)	31 41/64	(804)	2.58	(2396)	48 41/64	(1236)	2.58	(2396)	4.80	(4460)
2636	XO, OX	11 13/16	(300)	37 41/64	(956)	3.07	(2853)	42 41/64	(1083)	3.07	(2853)	5.74	(5335)
2640	XO, OX	11 13/16	(300)	43 41/64	(1108)	3.56	(3310)	36 41/64	(931)	3.56	(3310)	6.69	(6211)
2646	XO, OX	11 13/16	(300)	49 41/64	(1261)	4.05	(3767)	30 41/64	(778)	4.05	(3767)	7.63	(7087)
2650	XO, OX	11 13/16	(300)	55 41/64	(1413)	4.55	(4224)	24 41/64	(626)	4.55	(4224)	8.57	(7962)
3016	XO, OX	14 13/16	(376)	13 41/64	(346)	1.39	(1288)	66 41/64	(1693)	1.39	(1288)	2.50	(2319)
3020	XO, OX	14 13/16	(376)	19 41/64	(499)	2.00	(1862)	60 41/64	(1540)	2.00	(1862)	3.69	(3427)
3026	XO, OX	14 13/16	(376)	25 41/64	(651)	2.62	(2435)	54 41/64	(1388)	2.62	(2435)	4.88	(4535)
3030	XO, OX	14 13/16	(376)	31 41/64	(804)	3.24	(3008)	48 41/64	(1236)	3.24	(3008)	6.07	(5643)
3036	XO, OX	14 13/16	(376)	37 41/64	(956)	3.85	(3581)	42 41/64	(1083)	3.85	(3581)	7.27	(6751)
3040	XO, OX	14 13/16	(376)	43 41/64	(1108)	4.47	(4154)	36 41/64	(931)	4.47	(4154)	8.46	(7858)
3046	XO, OX	14 13/16	(376)	49 41/64	(1261)	5.09	(4728)	30 41/64	(778)	5.09	(4728)	9.65	(8966)
3050	XO, OX	14 13/16	(376)	55 41/64	(1413)	5.71	(5301)	24 41/64	(626)	5.71	(5301)	10.84	(10074)
3616	XO, OX	17 13/16	(452)	13 41/64	(346)	1.67	(1552)	66 41/64	(1693)	1.67	(1552)	3.02	(2805)
3620	XO, OX	17 13/16	(452)	19 41/64	(499)	2.41	(2242)	60 41/64	(1540)	2.41	(2242)	4.46	(4145)
3626	XO, OX	17 13/16	(452)	25 41/64	(651)	3.15	(2931)	54 41/64	(1388)	3.15	(2931)	5.90	(5486)
3630	XO, OX	17 13/16	(452)	31 41/64	(804)	3.90	(3620)	48 41/64	(1236)	3.90	(3620)	7.35	(6826)
3636	XO, OX	17 13/16	(452)	37 41/64	(956)	4.64	(4310)	42 41/64	(1083)	4.64	(4310)	8.79	(8166)
3640	XO, OX	17 13/16	(452)	43 41/64	(1108)	5.38	(4999)	36 41/64	(931)	5.38	(4999)	10.23	(9506)
3646	XO, OX	17 13/16	(452)	49 41/64	(1261)	6.12	(5688)	30 41/64	(778)	6.12	(5688)	11.67	(10846)
3650	XO, OX	17 13/16	(452)	55 41/64	(1413)	6.86	(6378)	24 41/64	(626)	6.86	(6378)	13.12	(12186)
4016	XO, OX	20 13/16	(529)	13 41/64	(346)	1.95	(1816)	66 41/64	(1693)	1.95	(1816)	3.54	(3292)
4020	XO, OX	20 13/16	(529)	19 41/64	(499)	2.82	(2622)	60 41/64	(1540)	2.82	(2622)	5.24	(4864)
4026	XO, OX	20 13/16	(529)	25 41/64	(651)	3.69	(3427)	54 41/64	(1388)	3.69	(3427)	6.93	(6436)
4030	XO, OX	20 13/16	(529)	31 41/64	(804)	4.56	(4232)	48 41/64	(1236)	4.56	(4232)	8.62	(8009)
4036	XO, OX	20 13/16	(529)	37 41/64	(956)	5.42	(5038)	42 41/64	(1083)	5.42	(5038)	10.31	(9581)
4040	XO, OX	E 20 13/16	(529)	43 41/64	(1108)	6.29	(5843)	36 41/64	(931)	6.29	(5843)	12.01	(11153)
4046	XO, OX	E 20 13/16	(529)	49 41/64	(1261)	7.16	(6649)	30 41/64	(778)	7.16	(6649)	13.70	(12726)
4050	XO, OX	E 20 13/16	(529)	55 41/64	(1413)	8.02	(7454)	24 41/64	(626)	8.02	(7454)	15.39	(14298)
4616	XO, OX	23 13/16	(605)	13 41/64	(346)	2.24	(2080)	66 41/64	(1693)	2.24	(2080)	4.07	(3778)
4620	XO, OX	23 13/16	(605)	19 41/64	(499)	3.23	(3002)	60 41/64	(1540)	3.23	(3002)	6.01	(5582)
4626	XO, OX	23 13/16	(605)	25 41/64	(651)	4.22	(3923)	54 41/64	(1388)	4.22	(3923)	7.95	(7387)
4630	XO, OX	23 13/16	(605)	31 41/64	(804)	5.21	(4845)	48 41/64	(1236)	5.21	(4845)	9.89	(9192)
4636	XO, OX	E 23 13/16	(605)	37 41/64	(956)	6.21	(5766)	42 41/64	(1083)	6.21	(5766)	11.84	(10996)
4640	XO, OX	E 23 13/16	(605)	43 41/64	(1108)	7.20	(6688)	36 41/64	(931)	7.20	(6688)	13.78	(12801)
4646	XO, OX	E 23 13/16	(605)	49 41/64	(1261)	8.19	(7610)	30 41/64	(778)	8.19	(7610)	15.72	(14606)
4650	XO, OX	E 23 13/16	(605)	55 41/64	(1413)	9.18	(8531)	24 41/64	(626)	9.18	(8531)	17.66	(16410)
5016	XO, OX	26 13/16	(681)	13 41/64	(346)	2.52	(2344)	66 41/64	(1693)	2.52	(2344)	4.59	(4264)
5020	XO, OX	26 13/16	(681)	19 41/64	(499)	3.64	(3382)	60 41/64	(1540)	3.64	(3382)	6.78	(6301)
5026	XO, OX	26 13/16	(681)	25 41/64	(651)	4.76	(4419)	54 41/64	(1388)	4.76	(4419)	8.97	(8338)
5030	XO, OX	E 26 13/16	(681)	31 41/64	(804)	5.87	(5457)	48 41/64	(1236)	5.87	(5457)	11.17	(10375)
5036	XO, OX	E 26 13/16	(681)	37 41/64	(956)	6.99	(6495)	42 41/64	(1083)	6.99	(6495)	13.36	(12412)
5040	XO, OX	E 26 13/16	(681)	43 41/64	(1108)	8.11	(7532)	36 41/64	(931)	8.11	(7532)	15.55	(14448)
5046	XO, OX	E 26 13/16	(681)	49 41/64	(1261)	9.22	(8570)	30 41/64	(778)	9.22	(8570)	17.74	(16485)
5050	XO, OX	E 26 13/16	(681)	55 41/64	(1413)	10.34	(9608)	24 41/64	(626)	10.34	(9608)	19.94	(18522)
6016	XO, OX	32 13/16	(833)	13 41/64	(346)	3.09	(2872)	66 41/64	(1693)	3.09	(2872)	5.64	(5236)
6020	XO, OX	32 13/16	(833)	19 41/64	(499)	4.46	(4142)	60 41/64	(1540)	4.46	(4142)	8.33	(7738)
6026	XO, OX	E 32 13/16	(833)	25 41/64	(651)	5.82	(5412)	54 41/64	(1388)	5.82	(5412)	11.02	(10239)
6030	XO, OX	E 32 13/16	(833)	31 41/64	(804)	7.19	(6682)	48 41/64	(1236)	7.19	(6682)	13.71	(12741)
6036	XO, OX	E 32 13/16	(833)	37 41/64	(956)	8.56	(7952)	42 41/64	(1083)	8.56	(7952)	16.41	(15242)
6040	XO, OX	E 32 13/16	(833)	43 41/64	(1108)	9.93	(9222)	36 41/64	(931)	9.93	(9222)	19.10	(17743)
6046	XO, OX	E 32 13/16	(833)	49 41/64	(1261)	11.29	(10492)	30 41/64	(778)	11.29	(10492)	21.79	(20245)
6050	XO, OX	E 32 13/16	(833)	55 41/64	(1413)	12.66	(11762)	24 41/64	(626)	12.66	(11762)	24.48	(22746)
6016	XOX	14 13/16	(376)	13 41/64	(346)	1.39	(1289)	66 41/64	(1693)	2.77	(2578)	5.47	(5086)
6020	XOX	14 13/16	(376)	19 41/64	(499)	2.00	(1862)	60 41/64	(1540)	4.01	(3725)	8.09	(7516)
6026	XOX	14 13/16	(376)	25 41/64	(651)	2.62	(2436)	54 41/64	(1388)	5.24	(4872)	10.71	(9946)
6030	XOX	14 13/16	(376)	31 41/64	(804)	3.24	(3009)	48 41/64	(1236)	6.48	(6019)	13.32	(12375)
6036	XOX	14 13/16	(376)	37 41/64	(956)	3.86	(3583)	42 41/64	(1083)	7.71	(7166)	15.94	(14805)
6040	XOX	14 13/16	(376)	43 41/64	(1108)	4.47	(4156)	36 41/64	(931)	8.95	(8313)	18.55	(17235)
6046	XOX	14 13/16	(376)	49 41/64	(1261)	5.09	(4730)	30 41/64	(778)	10.18	(9460)	21.17	(19665)
6050	XOX	14 13/16	(376)	55 41/64	(1413)	5.71	(5303)	24 41/64	(626)	11.42	(10607)	23.78	(22094)
7016	XOX	17 13/16	(453)	13 41/64	(346)	1.67	(1553)	66 41/64	(1693)	3.34	(3106)	6.52	(6059)
7020	XOX	17 13/16	(453)	19 41/64	(499)	2.41	(2242)	60 41/64	(1540)	4.83	(4485)	9.64	(8953)
7026	XOX	17 13/16	(453)	25 41/64	(651)	3.16	(2932)	54 41/64	(1388)	6.31	(5864)	12.75	(11847)
7030	XOX	17 13/16	(453)	31 41/64	(804)	3.90	(3622)	48 41/64	(1236)	7.80	(7243)	15.87	(14741)
7036	XOX	17 13/16	(453)	37 41/64	(956)	4.64	(4311)	42 41/64	(1083)	9.28	(8623)	18.98	(17636)
7040	XOX	17 13/16	(453)	43 41/64	(1108)	5.38	(5001)	36 41/64	(931)	10.77	(10002)	22.10	(20530)
7046	XOX	17 13/16	(453)	49 41/64	(1261)	6.13	(5690)	30 41/64	(778)	12.25	(11381)	25.21	(23424)
7050	XOX	17 13/16	(453)	55 41/64	(1413)	6.87	(6380)	24 41/64	(626)	13.73	(12760)	28.33	(26318)
8016	XOX	20 13/16	(529)	13 41/64	(346)	1.96	(1817)	66 41/64	(1693)	3.91	(3633)	7.57	(7031)
8020	XOX	20 13/16	(529)	19 41/64	(499)	2.82	(2622)	60 41/64	(1540)	5.65	(5245)	11.18	(10390)
8026	XOX	20 13/16	(529)	25 41/64	(651)	3.69	(3428)	54 41/64	(1388)	7.38	(6856)	14.80	(13749)
8030	XOX	20 13/16	(529)	31 41/64	(804)	4.56	(4234)	48 41/64	(1236)	9.11	(8468)	18.41	(17107)
8036	XOX	20 13/16	(529)	37 41/64	(956)	5.42	(5040)	42 41/64	(1083)	10.85	(10079)	22.03	(20466)
8040	XOX	E 20 13/16	(529)	43 41/64	(1108)	6.29	(5845)	36 41/64	(931)	12.58	(11691)	25.64	(23825)
8046	XOX	E 20 13/16	(529)	49 41/64	(1261)	7.16	(6651)	30 41/64	(778)	14.32	(13302)	29.26	(27184)
8050	XOX	E 20 13/16	(529)	55 41/64	(1413)	8.03	(7457)	24 41/64	(626)	16.05	(14914)	32.88	(30542)

Altitude Guidelines

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

Casement

ALTITUDE LIMITS (FEET)					
UNIT SIZE		16	20	26	30
20	Annealed	4000	5000	5500	5500
	Tempered	5500	8000	9000	9000
26	Annealed	4000	5500	7000	7000
	Tempered	7000	9000	10000	10000
30	Annealed	4000	5500	7000	9000
	Tempered	7000	9000	10000	10000
36	Annealed	4000	6000	7500	9000
	Tempered	7000	10000	10000	10000
40	Annealed	4000	6000	7500	9500
	Tempered	7000	10000	10000	10000
46	Annealed	4000	6000	8000	9500
	Tempered	7000	10000	10000	10000
50	Annealed	4000	6000	8000	10000
	Tempered	7000	10000	10000	10000
56	Annealed	4000	6000	8000	10000
	Tempered	7000	10000	10000	10000
60	Annealed	4000	6000	8000	10000
	Tempered	7000	10000	10000	10000
66	Annealed	4000	6000	8000	10000
	Tempered	7000	10000	10000	10000
70	Annealed	4000	6000	8000	10000
	Tempered	7000	10000	10000	10000

Casement STC/OITC

ALTITUDE LIMITS (FEET)					
UNIT SIZE		16	20	26	30
20	Annealed	3000	4000	4000	4000
	Tempered	4500	6000	8000	8000
26	Annealed	3000	4000	6000	6000
	Tempered	5000	8000	10000	10000
30	Annealed	3000	4000	6000	7000
	Tempered	5000	8000	10000	10000
36	Annealed	3000	4000	6500	7000
	Tempered	5000	10000	10000	10000
40	Annealed	3000	4000	6500	8000
	Tempered	5000	10000	10000	10000
46	Annealed	3000	4000	7000	8000
	Tempered	5000	10000	10000	10000
50	Annealed	3000	4000	7000	9000
	Tempered	5000	10000	10000	10000
56	Annealed	3000	4000	7000	9000
	Tempered	5000	10000	10000	10000
60	Annealed	3000	4000	7000	9000
	Tempered	5000	10000	10000	10000
66	Annealed	3000	5000	7000	N/A
	Tempered	6000	10000	10000	N/A
70	Annealed	3000	5000	N/A	N/A
	Tempered	6000	10000	N/A	N/A

Awning

ALTITUDE LIMITS (FEET)									
	UNIT SIZE	16	20	26	30	36	40	46	50
16	Annealed	4000	4000	4000	4000	4000	4000	4000	4000
	Tempered	4000	5500	7000	7000	7000	7000	7000	7000
20	Annealed	4000	5000	5500	5500	6000	6000	5000	6000
	Tempered	5500	8000	9000	9000	10000	10000	8000	10000
26	Annealed	4000	5500	7000	7000	7500	7500	7000	8000
	Tempered	7000	9000	10000	10000	10000	10000	10000	10000
30	Annealed	4000	5500	7000	9000	9000	9500	9000	10000
	Tempered	7000	9000	10000	10000	10000	10000	10000	10000
36	Annealed	4000	6000	7500	9000	10000	10000	10000	10000
	Tempered	7000	10000	10000	10000	10000	10000	10000	10000
40	Annealed	4000	6000	7500	9500	10000	10000	10000	10000
	Tempered	7000	10000	10000	10000	10000	10000	10000	10000

Awning STC/OITC

ALTITUDE LIMITS (FEET)									
	UNIT SIZE	16	20	26	30	36	40	46	50
16	Annealed	3000	3000	3000	3000	3000	3000	3000	3000
	Tempered	4000	4500	5000	5000	5000	6000	6000	6000
20	Annealed	3000	4000	4000	4000	4000	4000	5000	4000
	Tempered	4500	6000	8000	8000	10000	10000	10000	10000
26	Annealed	3000	4000	6000	6000	6500	6500	6000	7000
	Tempered	5000	8000	10000	10000	10000	10000	10000	10000
30	Annealed	3000	4000	6000	7000	7000	8000	8000	9000
	Tempered	5000	8000	10000	10000	10000	10000	10000	10000
36	Annealed	3000	4000	6500	7000	9000	9000	10000	9500
	Tempered	5000	10000	10000	10000	10000	10000	10000	10000
40	Annealed	3000	4000	6500	8000	9000	10000	10000	10000
	Tempered	5000	10000	10000	10000	10000	10000	10000	10000

Altitude Guidelines

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

Casement Picture

ALTITUDE LIMITS (FEET)										
UNIT SIZE		16	20	26	30	36	40	46	50	60
20	Annealed	4000	5000	5500	5500	6000	6000	5000	5000	6000
	Tempered	5500	8000	9000	9000	10000	10000	8000	10000	10000
26	Annealed	4000	5500	7000	7000	7500	7500	7000	8000	8000
	Tempered	7000	9000	10000	10000	10000	10000	10000	10000	10000
30	Annealed	4000	5500	7000	9000	9000	9500	9000	10000	10000
	Tempered	7000	9000	10000	10000	10000	10000	10000	10000	10000
36	Annealed	4000	6000	7500	9000	10000	10000	10000	10000	10000
	Tempered	7000	10000	10000	10000	10000	10000	10000	10000	10000
40	Annealed	4000	6000	7500	9500	10000	10000	10000	10000	10000
	Tempered	7000	10000	10000	10000	10000	10000	10000	10000	10000
46	Annealed	4000	6000	8000	9500	10000	10000	10000	10000	10000
	Tempered	7000	10000	10000	10000	10000	10000	10000	10000	10000
50	Annealed	4000	6000	8000	10000	10000	10000	10000	10000	10000
	Tempered	7000	10000	10000	10000	10000	10000	10000	10000	10000
56	Annealed	4000	6000	8000	10000	10000	10000	10000	10000	10000
	Tempered	7000	10000	10000	10000	10000	10000	10000	10000	10000
60	Annealed	4000	6000	8000	10000	10000	10000	10000	10000	10000
	Tempered	7000	10000	10000	10000	10000	10000	10000	10000	10000
66	Annealed	4000	6000	8000	10000	N/A	N/A	N/A	N/A	N/A
	Tempered	7000	10000	10000	10000	N/A	N/A	N/A	N/A	N/A
70	Annealed	4000	6000	8000	10000	10000	N/A	N/A	N/A	N/A
	Tempered	7000	10000	10000	10000	10000	N/A	N/A	N/A	N/A

Casement Picture STC/OITC

ALTITUDE LIMITS (FEET)										
UNIT SIZE		16	20	26	30	36	40	46	50	60
20	Annealed	3000	4000	4000	4000	4000	4000	5000	4000	4000
	Tempered	4500	6000	8000	8000	10000	10000	10000	10000	10000
26	Annealed	3000	4000	6000	6000	6500	6500	6000	7000	7000
	Tempered	5000	8000	10000	10000	10000	10000	10000	10000	10000
30	Annealed	3000	4000	6000	7000	7000	8000	8000	9000	9000
	Tempered	5000	8000	10000	10000	10000	10000	10000	10000	10000
36	Annealed	3000	4000	6500	7000	9000	9000	10000	9500	10000
	Tempered	5000	10000	10000	10000	10000	10000	10000	10000	10000
40	Annealed	3000	4000	6500	8000	9000	10000	10000	10000	N/A
	Tempered	5000	10000	10000	10000	10000	10000	10000	10000	N/A
46	Annealed	3000	4000	7000	8000	9500	10000	10000	10000	N/A
	Tempered	5000	10000	10000	10000	10000	10000	10000	10000	N/A
50	Annealed	3000	4000	7000	9000	9500	10000	N/A	N/A	N/A
	Tempered	5000	10000	10000	10000	10000	10000	10000	N/A	N/A
56	Annealed	3000	4000	7000	9000	9500	10000	N/A	N/A	N/A
	Tempered	5000	10000	10000	10000	10000	10000	10000	N/A	N/A
60	Annealed	3000	4000	7000	9000	10000	N/A	N/A	N/A	N/A
	Tempered	5000	10000	10000	10000	10000	N/A	N/A	N/A	N/A
66	Annealed	3000	5000	7000	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	6000	10000	10000	N/A	N/A	N/A	N/A	N/A	N/A
70	Annealed	3000	5000	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	6000	10000	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Casement Transom

ALTITUDE LIMITS (FEET)										
UNIT SIZE		16	20	26	30	36	40	46	50	60
10	Annealed	4000	4000	4000	4000	4000	4000	4000	N/A	N/A
	Tempered	7000	7000	7000	7000	7000	7000	7000	N/A	N/A
16	Annealed	4000	4000	4000	4000	4000	4000	4000	N/A	N/A
	Tempered	4000	5500	7000	7000	7000	7000	7000	N/A	N/A
20	Annealed	4000	5000	5500	5500	6000	6000	5000	6000	6000
	Tempered	5500	8000	9000	9000	10000	10000	8000	10000	10000

Casement Transom STC/OITC

ALTITUDE LIMITS (FEET)	
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Altitude Guidelines

Single Hung/Double Hung

ALTITUDE LIMITS (FEET)								
UNIT SIZE		16	20	26	28	30	36	40
20	Annealed	4000	4000	4000	4000	4000	4000	4000
	Tempered	4000	5000	5000	6000	6000	6000	6000
26	Annealed	4000	4000	4000	4000	4000	4000	4000
	Tempered	5000	6000	7000	7000	8000	8000	9000
30	Annealed	4000	5000	5000	5000	5000	5000	5000
	Tempered	6000	7000	9000	9000	10000	10000	10000
36	Annealed	4000	5000	5000	6000	6000	6000	6000
	Tempered	6000	8000	10000	10000	10000	10000	10000
40	Annealed	4000	6000	6000	6000	7000	7000	7000
	Tempered	7000	9000	10000	10000	10000	10000	10000
46	Annealed	4000	6000	7000	7000	7000	8000	8000
	Tempered	7000	10000	10000	10000	10000	10000	10000
50	Annealed	4000	6000	8000	8000	8000	9000	9000
	Tempered	8000	10000	10000	10000	10000	10000	10000
56	Annealed	4000	6000	8000	8000	9000	9000	10000
	Tempered	8000	10000	10000	10000	10000	10000	10000
60	Annealed	4000	6000	8000	8000	9000	10000	10000
	Tempered	9000	10000	10000	10000	10000	10000	10000
66	Annealed	4000	6000	8000	9000	10000	10000	10000
	Tempered	9000	10000	10000	10000	10000	10000	10000

Double Hung Picture

ALTITUDE LIMITS (FEET)									
UNIT SIZE		16	20	26	28	30	36	40	50
20	Annealed	4000	5000	6000	6000	6000	6000	6000	6000
	Tempered	7000	9000	10000	10000	10000	10000	10000	10000
26	Annealed	4000	6000	7000	8000	8000	8000	8000	9000
	Tempered	8000	10000	10000	10000	10000	10000	10000	10000
30	Annealed	4000	6000	8000	8000	9000	10000	10000	10000
	Tempered	8000	10000	10000	10000	10000	10000	10000	10000
36	Annealed	4000	6000	8000	9000	10000	10000	10000	10000
	Tempered	9000	10000	10000	10000	10000	10000	10000	10000
40	Annealed	4000	6000	8000	9000	10000	10000	10000	10000
	Tempered	10000	10000	10000	10000	10000	10000	10000	10000
46	Annealed	4000	6000	8000	9000	10000	10000	10000	10000
	Tempered	10000	10000	10000	10000	10000	10000	10000	10000
50	Annealed	4000	6000	9000	9000	10000	10000	10000	10000
	Tempered	10000	10000	10000	10000	10000	10000	10000	10000
56	Annealed	4000	6000	8000	9000	10000	10000	10000	10000
	Tempered	10000	10000	10000	10000	10000	10000	10000	10000
60	Annealed	4000	6000	8000	9000	10000	10000	10000	10000
	Tempered	10000	10000	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's 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's general warranty; capillary tubes may minimize these effects. Essential 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 that a specific level of thermal efficiency will be achieved by inert gas, low emissivity coatings, or other product features. Determining the suitability and compliance with local or other applicable building codes or standards, of all building components, including the use of any Marvin product, and the design and installation of any flashing or sealing system, is the responsibility of the buyer, user, architect, contractor, installer, and/or other construction professional. Marvin will not be liable for any problem or damage relating to inappropriate or faulty building design or construction, maintenance, installation, or selection of products. Marvin does not warrant any product's compliance with local or other applicable building codes or standards, or its suitability for use in connection with a project seeking third party certification to any standard.

Altitude Guidelines

Glider

ALTITUDE LIMITS (FEET)								
UNIT SIZE		26	30	36	40	46	50	60
16	Annealed	4000	4000	4000	4000	4000	4000	4000
	Tempered	5000	6000	6000	7000	7000	8000	9000
20	Annealed	4000	5000	5000	6000	6000	6000	6000
	Tempered	6000	7000	8000	9000	10000	10000	10000
26	Annealed	4000	5000	5000	6000	7000	8000	8000
	Tempered	7000	9000	10000	10000	10000	10000	10000
30	Annealed	4000	5000	6000	7000	7000	8000	9000
	Tempered	8000	10000	10000	10000	10000	10000	10000
36	Annealed	4000	5000	6000	7000	8000	9000	10000
	Tempered	8000	10000	10000	10000	10000	10000	10000
40	Annealed	4000	5000	6000	7000	8000	9000	10000
	Tempered	9000	10000	10000	10000	10000	10000	10000
46	Annealed	4000	5000	6000	7000	8000	9000	10000
	Tempered	9000	10000	10000	10000	10000	10000	10000
50	Annealed	4000	5000	6000	7000	8000	9000	10000
	Tempered	9000	10000	10000	10000	10000	10000	10000

Glider Triple Sash Operating Sash

ALTITUDE LIMITS (FEET)				
UNIT SIZE		60	70	80
16	Annealed	4000	4000	4000
	Tempered	6000	6000	7000
20	Annealed	5000	5000	6000
	Tempered	7000	8000	9000
26	Annealed	5000	5000	6000
	Tempered	9000	10000	10000
30	Annealed	5000	6000	7000
	Tempered	10000	10000	10000
36	Annealed	5000	6000	7000
	Tempered	10000	10000	10000
40	Annealed	5000	6000	7000
	Tempered	10000	10000	10000
46	Annealed	5000	6000	7000
	Tempered	10000	10000	10000
50	Annealed	5000	6000	7000
	Tempered	10000	10000	10000

Glider Triple Sash Stationary Sash

ALTITUDE LIMITS (FEET)				
UNIT SIZE		60	70	80
16	Annealed	4000	4000	4000
	Tempered	9000	10000	10000
20	Annealed	6000	6000	6000
	Tempered	10000	10000	10000
26	Annealed	8000	8000	8000
	Tempered	10000	10000	10000
30	Annealed	10000	10000	10000
	Tempered	10000	10000	10000
36	Annealed	10000	10000	10000
	Tempered	10000	10000	10000
40	Annealed	10000	10000	10000
	Tempered	10000	10000	10000
46	Annealed	10000	10000	10000
	Tempered	10000	10000	10000
50	Annealed	10000	10000	10000
	Tempered	10000	10000	10000

Glider STC/OITC

ALTITUDE LIMITS (FEET)									
UNIT SIZE		26	30	36	40	46	50	60	
16	Annealed	3000	3000	3000	3000	3000	3000	3000	
	Tempered	4000	5000	5000	6000	6000	7000	7000	
20	Annealed	3000	4000	4000	4000	5000	5000	5000	
	Tempered	5000	6000	7000	8000	9000	9000	10000	
26	Annealed	3000	4000	4000	5000	6000	6000	7000	
	Tempered	6000	7000	8000	10000	10000	10000	10000	
30	Annealed	3000	4000	5000	5000	6000	7000	8000	
	Tempered	6000	8000	10000	10000	10000	10000	10000	
36	Annealed	3000	4000	5000	5000	6000	7000	9000	
	Tempered	7000	9000	10000	10000	10000	10000	10000	
40	Annealed	3000	4000	5000	6000	7000	7000	9000	
	Tempered	7000	10000	10000	10000	10000	10000	10000	
46	Annealed	3000	4000	5000	6000	7000	8000	9000	
	Tempered	8000	10000	10000	10000	10000	10000	10000	
50	Annealed	3000	4000	5000	6000	7000	8000	10000	
	Tempered	8000	10000	10000	10000	10000	10000	10000	

Glider Triple Sash Operating Sash STC/OITC

ALTITUDE LIMITS (FEET)				
UNIT SIZE		60	70	80
16	Annealed	3000	3000	3000
	Tempered	5000	5000	5000
20	Annealed	4000	4000	4000
	Tempered	6000	6000	7000
26	Annealed	4000	4000	5000
	Tempered	7000	8000	9000
30	Annealed	4000	5000	5000
	Tempered	8000	10000	10000
36	Annealed	4000	5000	5000
	Tempered	9000	10000	10000
40	Annealed	4000	5000	6000
	Tempered	10000	10000	10000
46	Annealed	4000	5000	6000
	Tempered	10000	10000	10000
50	Annealed	4000	5000	6000
	Tempered	10000	10000	10000

Glider Triple Sash Stationary Sash STC/OITC

ALTITUDE LIMITS (FEET)				
UNIT SIZE		60	70	80
16	Annealed	3000	3000	3000
	Tempered	7000	7000	8000
20	Annealed	5000	4000	4000
	Tempered	10000	10000	10000
26	Annealed	7000	6000	6000
	Tempered	10000	10000	10000
30	Annealed	8000	9000	9000
	Tempered	10000	10000	10000
36	Annealed	9000	10000	10000
	Tempered	10000	10000	10000
40	Annealed	10000	10000	10000
	Tempered	10000	10000	10000
46	Annealed	10000	10000	N/A
	Tempered	10000	10000	N/A
50	Annealed	10000	N/A	N/A
	Tempered	10000	N/A	N/A

Altitude Guidelines

Double Hung Transom

ALTITUDE LIMITS (FEET)									
UNIT SIZE		16	20	26	28	30	36	40	50
10	Annealed	4000	4000	4000	4000	4000	4000	4000	4000
	Tempered	4000	5000	5000	5000	5000	5000	5000	5000
16	Annealed	4000	4000	4000	4000	4000	4000	4000	4000
	Tempered	5000	7000	8000	8000	8000	9000	10000	10000
20	Annealed	N/A	5000	6000	6000	6000	6000	6000	6000
	Tempered	N/A	9000	10000	10000	10000	10000	10000	10000

Sliding Patio Door

ALTITUDE LIMITS (FEET)						
UNIT SIZE		50	510	60	80	90
68	Annealed	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000
610	Annealed	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	N/A	10000	10000	10000
80	Annealed	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	N/A	10000	10000	10000

Direct Glaze over Sliding Patio Door

ALTITUDE LIMITS (FEET)						
UNIT SIZE		50	510	60	80	90
10	Annealed	3000	3000	3000	3000	3000
	Tempered	N/A	N/A	N/A	N/A	N/A
16	Annealed	4000	4000	4000	4000	3000
	Tempered	N/A	N/A	N/A	N/A	N/A

Direct Glaze Round Top - RT1

ALTITUDE LIMITS (FEET)											
UNIT SIZE		2613	2814	3016	3619	4020	5026	5428	6030	7036	8040
	Annealed	3000	3000	4000	5000	5000	7000	8000	9000	10000	N/A
	Tempered	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10000

Direct Glaze Round Top - RT2

ALTITUDE LIMITS (FEET)									
UNIT SIZE		26	28	30	36	40	50	54	60
10	Annealed	5000	6000	6000	7500	8500	10000	9500	10000
	Tempered	9000	10000	10000	10000	10000	10000	10000	10000
16	Annealed	6000	7000	8000	9000	9000	10000	9500	10000
	Tempered	10000	10000	10000	10000	10000	10000	10000	10000
20	Annealed	6500	7500	8000	9000	10000	10000	10000	10000
	Tempered	10000	10000	10000	10000	10000	10000	10000	10000
26	Annealed	6500	7500	8500	9000	10000	9000	10000	10000
	Tempered	10000	10000	10000	10000	10000	10000	10000	10000
30	Annealed	7000	7500	8500	9500	10000	9000	10000	N/A
	Tempered	10000	10000	10000	10000	10000	10000	10000	N/A
36	Annealed	7000	8000	8500	9500	10000	10000	10000	N/A
	Tempered	10000	10000	10000	10000	10000	10000	10000	N/A
40	Annealed	6000	7000	9000	9500	10000	10000	10000	N/A
	Tempered	10000	10000	10000	10000	10000	10000	10000	N/A
46	Annealed	6000	7000	10000	10000	10000	10000	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000	N/A	N/A
50	Annealed	6000	7000	10000	10000	10000	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	N/A	N/A	N/A

Double Hung Transom STC/OITC

ALTITUDE LIMITS (FEET)									
UNIT SIZE		16	20	26	28	30	36	40	50
10	Annealed	3000	3000	3000	3000	3000	3000	3000	3000
	Tempered	4000	4000	4000	4000	4000	5000	5000	5000
16	Annealed	3000	3000	3000	3000	3000	3000	3000	3000
	Tempered	4000	5000	6000	7000	7000	8000	8000	9000
20	Annealed	N/A	4000	5000	5000	5000	5000	5000	5000
	Tempered	N/A	7000	9000	9000	10000	10000	10000	10000

Sliding Patio Door STC/OITC

ALTITUDE LIMITS (FEET)						
	UNIT SIZE	50	510	60	80	90
68	Annealed	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	N/A	10000
610	Annealed	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	N/A	10000	N/A	10000
80	Annealed	N/A	N/A	N/A	N/A	N/A
	Tempered	N/A	N/A	N/A	N/A	N/A

Direct Glaze over Sliding Patio Door STC/OITC

ALTITUDE LIMITS (FEET)					
UNIT SIZE		50	510	60	80
10	Annealed	3000	3000	3000	3000
	Tempered	N/A	N/A	N/A	N/A
16	Annealed	4000	4000	4000	3000
	Tempered	N/A	N/A	N/A	N/A

Direct Glaze Round Top - RT1 STC/OITC

ALTITUDE LIMITS (FEET)						
UNIT SIZE		2613	2814	3016	3619	4020
	Annealed	3000	3000	3000	3000	4000
	Tempered	NA	NA	NA	NA	NA

Direct Glaze Round Top - RT2 STC/OITC

ALTITUDE LIMITS (FEET)						
	UNIT SIZE	26	28	30	36	40
10	Annealed	4000	4000	5000	6500	6500
	Tempered	8000	8000	9000	10000	10000
16	Annealed	5000	5000	6000	7000	8000
	Tempered	9000	10000	10000	N/A	N/A
20	Annealed	5500	5500	6000	8000	9000
	Tempered	9500	10000	10000	N/A	N/A
26	Annealed	5500	5500	6500	8000	N/A
	Tempered	9500	10000	10000	N/A	N/A
30	Annealed	6000	5500	6500	8500	N/A
	Tempered	10000	10000	10000	N/A	N/A
36	Annealed	6000	6000	6500	N/A	N/A
	Tempered	10000	10000	10000	N/A	N/A
40	Annealed	N/A	N/A	7000	N/A	N/A
	Tempered	10000	10000	10000	N/A	N/A
46	Annealed	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	N/A	N/A
50	Annealed	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	N/A	N/A

Direct Glaze Round Top - RT6

ALTITUDE LIMITS (FEET)											
UNIT SIZE		26	28	30	36	40	50	54	60	70	80
10	Annealed	4000	4000	4000	4000	4000	4000	4000	4000	4000	5000
	Tempered	5000	5000	7000	7000	7000	9000	8000	10000	7000	8000
16	Annealed	4000	4000	4500	5000	5000	6000	6000	6000	6000	7000
	Tempered	8000	8000	8500	10000	10000	10000	10000	10000	10000	10000
20	Annealed	5000	5000	6500	6500	6500	8000	7000	7000	7000	8000
	Tempered	9000	9000	10000	10000	10000	10000	10000	10000	10000	10000
26	Annealed	6000	7000	8000	8000	8500	9000	10000	9000	9000	9000
	Tempered	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
30	Annealed	6500	7500	8000	9000	9000	9500	9500	9500	10000	N/A
	Tempered	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
36	Annealed	6500	7500	8500	9000	10000	10000	10000	10000	10000	N/A
	Tempered	10000	10000	10000	10000	10000	10000	10000	10000	10000	N/A
40	Annealed	7000	7500	8500	9500	10000	10000	10000	10000	10000	N/A
	Tempered	10000	10000	10000	10000	10000	10000	10000	10000	10000	N/A
46	Annealed	7000	8000	8500	9500	10000	10000	10000	10000	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000	10000	10000	N/A	N/A
50	Annealed	6000	7000	9000	9500	10000	10000	10000	10000	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000	10000	10000	N/A	N/A
56	Annealed	6000	7000	8000	9500	10000	10000	10000	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000	10000	N/A	N/A	N/A
60	Annealed	6000	7000	8000	10000	10000	10000	10000	N/A	N/A	N/A
	Tempered	10000	10000	10000	10000	10000	10000	10000	N/A	N/A	N/A

Direct Glaze Round Top - RT6 STC/OITC

ALTITUDE LIMITS (FEET)									
	UNIT SIZE	26	28	30	36	40	50	54	60
10	Annealed	3000	3000	3000	3000	3000	3000	3000	3000
	Tempered	4000	4000	5000	5000	6000	7000	7000	8000
16	Annealed	3000	3000	3000	4000	4000	4000	4000	N/A
	Tempered	6500	8000	6500	9000	10000	10000	10000	10000
20	Annealed	4000	4000	5000	5000	6000	6000	N/A	N/A
	Tempered	8000	8000	9500	9500	10000	10000	10000	10000
26	Annealed	5000	5000	6000	6000	6500	7500	8000	N/A
	Tempered	9000	10000	10000	10000	10000	10000	10000	N/A
30	Annealed	5500	5500	6000	8000	8000	N/A	N/A	N/A
	Tempered	9500	10000	10000	N/A	N/A	N/A	N/A	N/A
36	Annealed	5500	5500	6500	8000	9000	N/A	N/A	N/A
	Tempered	9500	10000	10000	N/A	N/A	N/A	N/A	N/A
40	Annealed	6000	5500	6500	8000	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	N/A	N/A	N/A	N/A	N/A
46	Annealed	6000	6000	6500	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	N/A	N/A	N/A	N/A	N/A
50	Annealed	N/A	N/A	7000	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	N/A	N/A	N/A	N/A	N/A
56	Annealed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	N/A	N/A	N/A	N/A	N/A
60	Annealed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tempered	10000	10000	10000	N/A	N/A	N/A	N/A	N/A

WDMA Standards and Performance Grade (PG)

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). Essential 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.

Single Hung/Double Hung Equal Sash

[illegible]

Casement

CN	16	20	26	30
20	LC-PG40-C	LC-PG40-C	LC-PG40-C	LC-PG40-C
26	LC-PG40-C	LC-PG40-C	LC-PG40-C	LC-PG40-C
30	LC-PG40-C	LC-PG40-C	LC-PG40-C	LC-PG40-C
36	LC-PG40-C	LC-PG40-C	LC-PG40-C	LC-PG40-C
40	LC-PG40-C	LC-PG40-C	LC-PG40-C	LC-PG40-C
46	LC-PG40-C	LC-PG40-C	LC-PG40-C	LC-PG40-C
50	LC-PG40-C	LC-PG40-C	LC-PG40-C	LC-PG40-C
56	LC-PG40-C	LC-PG40-C	LC-PG40-C	LC-PG40-C
60	LC-PG40-C	LC-PG40-C	LC-PG40-C	LC-PG40-C
66	R-PG40-C	R-PG40-C	LC-PG40-C	LC-PG40-C
70	R-PG40-C	R-PG40-C	LC-PG40-C	LC-PG40-C

Single Hung Cottage/Reverse Cottage

[illegible]

Sliding Patio Door

CN	50	510	60	80	90
68	LC-PG30-SD	LC-PG30-SD	LC-PG30-SD	LC-PG30-SD	LC-PG30-SD
610	LC-PG30-SD	Not Available	LC-PG30-SD	LC-PG30-SD	LC-PG30-SD
80	LC-PG30-SD	Not Available	LC-PG30-SD	LC-PG25-SD	LC-PG30-SD

Double Hung Cottage/Reverse Cottage

[illegible]

Glider

CN	26	40	36	40	46	50	60
16	LC-PG40-HS	LC-PG40-HS	LC-PG40-HS	LC-PG40-HS	LC-PG40-HS	LC-PG40-HS	LC-PG40-HS
20	LC-PG40-HS	LC-PG40-HS	LC-PG40-HS	LC-PG40-HS	LC-PG40-HS	LC-PG40-HS	LC-PG40-HS
26	LC-PG40-HS	LC-PG40-HS	LC-PG40-HS	LC-PG40-HS	LC-PG40-HS	LC-PG40-HS	LC-PG40-HS
30	LC-PG40-HS	LC-PG40-HS	LC-PG40-HS	LC-PG40-HS	LC-PG40-HS	LC-PG40-HS	LC-PG40-HS
36	LC-PG40-HS	LC-PG40-HS	LC-PG40-HS	LC-PG40-HS	LC-PG40-HS	LC-PG40-HS	LC-PG40-HS
40	LC-PG40-HS	LC-PG40-HS	LC-PG40-HS	LC-PG40-HS	LC-PG40-HS	LC-PG30-HS	LC-PG30-HS
46	LC-PG40-HS	LC-PG40-HS	LC-PG40-HS	LC-PG40-HS	LC-PG40-HS	LC-PG30-HS	LC-PG30-HS
50	LC-PG40-HS	LC-PG40-HS	LC-PG40-HS	LC-PG40-HS	LC-PG40-HS	LC-PG30-HS	LC-PG30-HS

Glider - Triple Sash

CN	60	70	80
16	LC-PG25-HS	LC-PG25-HS	LC-PG25-HS
20	LC-PG25-HS	LC-PG25-HS	LC-PG25-HS
26	LC-PG25-HS	LC-PG25-HS	LC-PG25-HS
30	LC-PG25-HS	LC-PG25-HS	LC-PG25-HS
36	LC-PG25-HS	LC-PG25-HS	LC-PG25-HS
40	LC-PG25-HS	LC-PG25-HS	LC-PG25-HS
46	LC-PG25-HS	LC-PG25-HS	LC-PG25-HS
50	LC-PG25-HS	LC-PG25-HS	LC-PG25-HS

Product Type	WDMA Certification
Awning	LC-PG40-AP
Direct Glaze Round Top	CW-PG50-FW
Direct Glaze	LC-PG50-FW
Double Hung Picture/Transom	LC-PG50-FW
Casement Picture/Transom	LC-PG40-FW



Mullion PG Rating may be determined by the lowest PG rating of the overall assembly.

The Standard Mull has been certified to a PG25. The MRF Mull has been certified to a PG40.

Notes

[illegible]



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

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Information regarding status of patent applications, as well as product features and specifications, is subject to change without notice.

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