

# ESSENTIAL

MARVIN ESSENTIAL™ COLLECTION



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# 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 is for a home built with brick or stone; rough openings are for houses with wood, vinyl or metal siding. Frame size measures from edge to edge of the unit; daylight opening indicates the dimension of total visible glass in a single sash.

<b>MO (mm)</b>	1' - 6" (457)	2' - 0" (610)	2' - 6" (762)	2' - 8" (914)	3' - 0" (914)	3' - 6" (1067)	4' - 0" (1219)
<b>RO (mm)</b>	1' - 6" (457)	2' - 0" (610)	2' - 6" (762)	2' - 8" (914)	3' - 0" (914)	3' - 6" (1067)	4' - 0" (1219)
<b>FS (mm)</b>	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)
<b>DLO (mm)</b>	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)



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

Product Type	Mull Kit	Maximum Overall Rough Opening not to exceed:	Maximum Units Wide by High
<b>Casement / Awning</b> Picture / Direct Glaze (Rectangle only)	1/2" MRF	114" x 78"	6 Wide x 1 High
		96" x 96"	5 Wide x 5 High
<b>Single Hung / Double Hung *</b> Picture / Direct Glaze (Rectangle Only)	1/2" MRF	114" x 78"	6 Wide x 1 High
		96" x 96"	5 Wide x 5 High
<b>Glider</b> Picture / Direct Glaze (Rectangle Only)	1/2" MRF	114" x 60"	3 Wide x 1 High
		72" x 78"	2 Wide x 2 High
<b>Sliding Patio Door</b> Direct Glaze (Rectangle Only)	1/2" MRF	72" x 100-1/2"	1 Wide x 2 High
<b>Direct Glaze Round Top</b> over Casement / Awning, Single Hung / Double Hung, or Direct Glaze (Rectangle Only)	1/2" MRF	96" x 96"	5 Wide x 2 High
<b>Direct Glaze Round Top</b> over ESGL	1/2" MRF	72" x 78"	2 Wide x 2 High

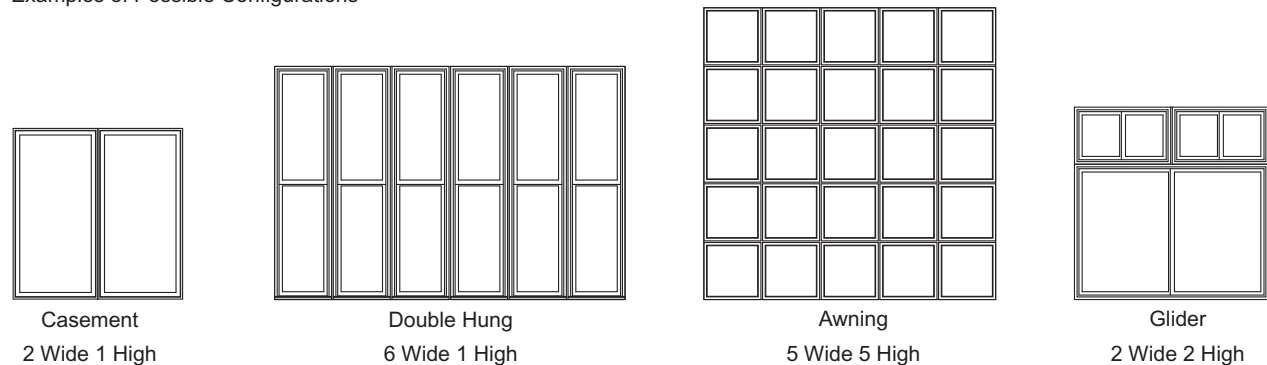
Field mulling kits are available to create your own unique multiple assemblies. Field applied Essential 1/2" MRF mull kits are not WDMA certified.

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

\*\*Mullion PG Rating will be determined by the lowest PG rating of the overall assembly

Please contact your local Marvin representative for more information.

Examples of Possible Configurations

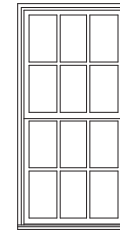


The information provided in this catalog has been gathered and assembled with every effort made to validate accuracy and consistency of the content. However, Marvin does not make any warranty or guarantee as to this information. Please verify critical product data in Marvin Order Management System (OMS)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

\* Direct Glaze units are specified according to guidelines on page 35.

# LITE CUTS

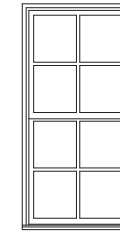
## Windows



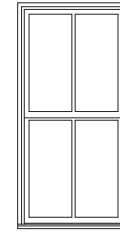
Rectangular  
Available as GBG



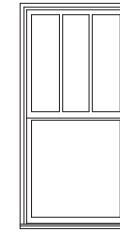
Prairie  
Available as GBG



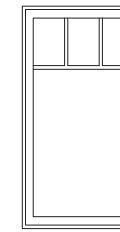
2w2h  
Available as GBG



2w1h  
Available as GBG

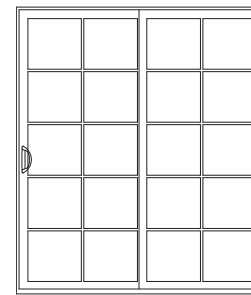


Equal Lite  
Available as GBG

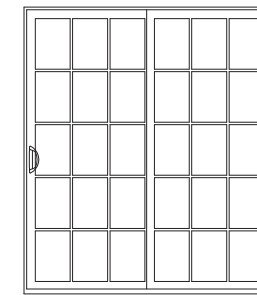


Cottage Lite  
Available as GBG

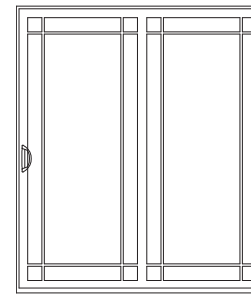
## Doors



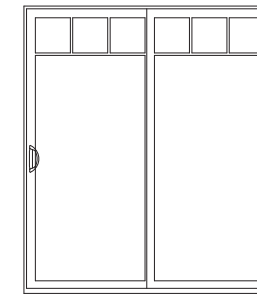
10/12 Lite  
One vertical bar per panel  
Available as GBG



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 'Tools and Documents' section at Marvin.com.

**CASEMENT**

<b>MO (mm)</b>	1' - 6" (457)	2' - 0" (610)	2' - 6" (762)	3' - 0" (914)
<b>RO (mm)</b>	1' - 6" (457)	2' - 0" (610)	2' - 6" (762)	3' - 0" (914)
<b>FS (mm)</b>	1' - 5 1/2" (445)	1' - 11 1/2" (597)	2' - 5 1/2" (749)	2' - 11 1/2" (902)
<b>DLO (mm)</b>	11 53/64" (300)	17 53/64" (453)	23 53/64" (605)	29 53/64" (757)

1' - 11 3/4" (603) 1' - 0" (610) 2' - 5 3/4" (756) 2' - 6" (762) 2' - 5 1/2" (749) 23 53/64" (605)				
2' - 11 3/4" (908) 3' - 0" (914) 2' - 11 1/2" (902) 29 53/64" (757)				
3' - 5 3/4" (1060) 3' - 6" (1067) 3' - 5 1/2" (1054) 35 53/64" (910)				
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)				

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 3.

See page 52 for specific PG Ratings.

\* 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.

For further details and drawings visit the 'Tools and Documents' section at Marvin.com.

**CASEMENT**

2 Wide

<b>MO (mm)</b>	3' - 0" (914)	4' - 0" (1219)	5' - 0" (1524)	6' - 0" (1829)
<b>RO (mm)</b>	3' - 0" (914)	4' - 0" (1219)	5' - 0" (1524)	6' - 0" (1829)
<b>FS (mm)</b>	2' - 11 1/2" (902)	3' - 11 1/2" (1207)	4' - 11 1/2" (1511)	5' - 11 1/2" (1816)

1' - 11 3/4" (603) 1' - 0" (610) 2' - 5 3/4" (756) 2' - 6" (762) 2' - 5 1/2" (749) 23 53/64" (605)				
2' - 11 3/4" (908) 3' - 0" (914) 2' - 11 1/2" (902) 29 53/64" (757)				
3' - 5 3/4" (1060) 3' - 6" (1067) 3' - 5 1/2" (1054) 35 53/64" (910)				
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)				

**MULTIPLE ASSEMBLIES**

Multiple assemblies can be factory mullied.

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 96" x 96". Maximum up to 5 units wide by 5 units high.

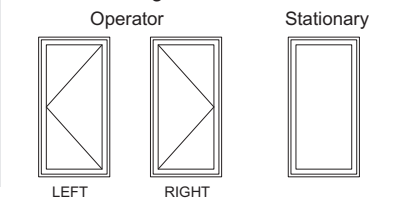
Field mull kits are available. Structural mullion reinforcement is required for some assemblies.

Please consult your local Marvin representative for more information.

**Construction Details**

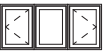
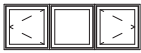
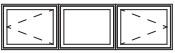





















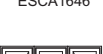
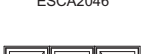

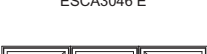



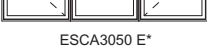




Casements available as an operator or stationary.

L or R handing determined from exterior.



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)

1' - 11 3/4" (603) 2' - 0" (610) 1' - 11 1/2" (597)	 ESCA1620	 ESCA2020	 ESCA2620*	 ESCA3020*
2' - 5 3/4" (756) 2' - 6" (762) 2' - 5 1/2" (749)	 ESCA1626	 ESCA2026	 ESCA2626*	 ESCA3026*
2' - 11 3/4" (908) 3' - 0" (914) 2' - 11 1/2" (902)	 ESCA1630	 ESCA2030	 ESCA2630*	 ESCA3030*
3' - 5 3/4" (1060) 3' - 6" (1067) 3' - 5 1/2" (1054)	 ESCA1636	 ESCA2036	 ESCA2636*	 ESCA3036 E*
3' - 11 3/4" (1213) 4' - 0" (1219) 3' - 11 1/2" (1207)	 ESCA1640	 ESCA2040	 ESCA2640 E*	 ESCA3040 E*
4' - 5 3/4" (1365) 4' - 6" (1372) 4' - 5 1/2" (1359)	 ESCA1646	 ESCA2046	 ESCA2646 E*	 ESCA3046 E*
4' - 11 3/4" (1518) 5' - 0" (1524) 4' - 11 1/2" (1511)	 ESCA1650	 ESCA2050	 ESCA2650 E*	 ESCA3050 E*
5' - 5 3/4" (1670) 5' - 6" (1676) 5' - 5 1/2" (1664)	 ESCA1656	 ESCA2056	 ESCA2656 E*	 ESCA3056 E*
5' - 11 3/4" (1822) 6' - 0" (1829) 5' - 11 1/2" (1816)	 ESCA1660 T	 ESCA2060 T	 ESCA2660 ET*	 ESCA3060 ET*

Details and Elevations not to scale.

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

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

T = Standard Tempered

Obscure Glass option available on all units.

GBG available in standard Rectangular lite cut, shown above. Other GBG lite cuts shown on page 3.

See page 52 for specific PG Ratings.





\* 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.

For further details and drawings visit the 'Tools and Documents' section at Marvin.com.

CASEMENT

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)	 ESCA1620	 ESCA2020
2' - 5 3/4" (756) 2' - 6" (762) 2' - 5 1/2" (749)	 ESCA1626	 ESCA2026
2' - 11 3/4" (908) 3' - 0" (914) 2' - 11 1/2" (902)	 ESCA1630	 ESCA2030
3' - 5 3/4" (1060) 3' - 6" (1067) 3' - 5 1/2" (1054)	 ESCA1636	 ESCA2036
3' - 11 3/4" (1213) 4' - 0" (1219) 3' - 11 1/2" (1207)	 ESCA1640	 ESCA2040
4' - 5 3/4" (1365) 4' - 6" (1372) 4' - 5 1/2" (1359)	 ESCA1646	 ESCA2046
4' - 11 3/4" (1518) 5' - 0" (1524) 4' - 11 1/2" (1511)	 ESCA1650	 ESCA2050
5' - 5 3/4" (1670) 5' - 6" (1676) 5' - 5 1/2" (1664)	 ESCA1656	 ESCA2056
5' - 11 3/4" (1822) 6' - 0" (1829) 5' - 11 1/2" (1816)	 ESCA1660 T	 ESCA2060 T

**MULTIPLE ASSEMBLIES**

Multiple assemblies can be factory mullled.

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

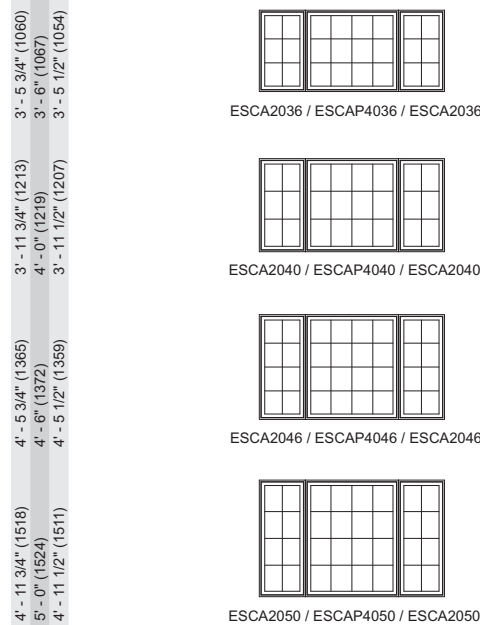
MAXIMUM ROUGH OPENING not to exceed 96" x 96". Maximum up to 5 units wide by 5 units high.

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

Please consult your local Marvin representative for more information.

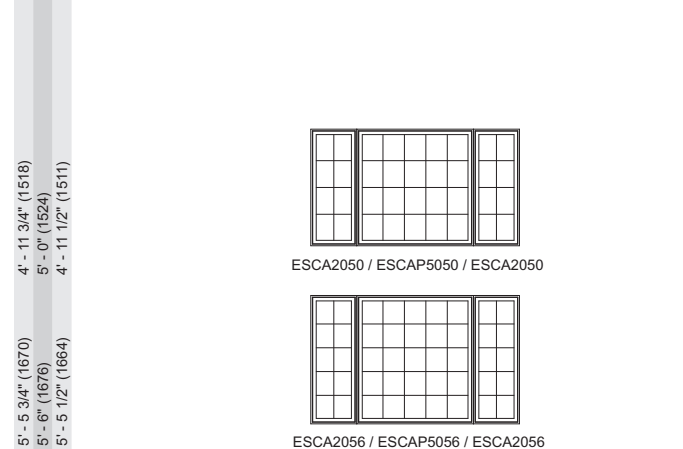
Casement Flankers with Center Picture

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

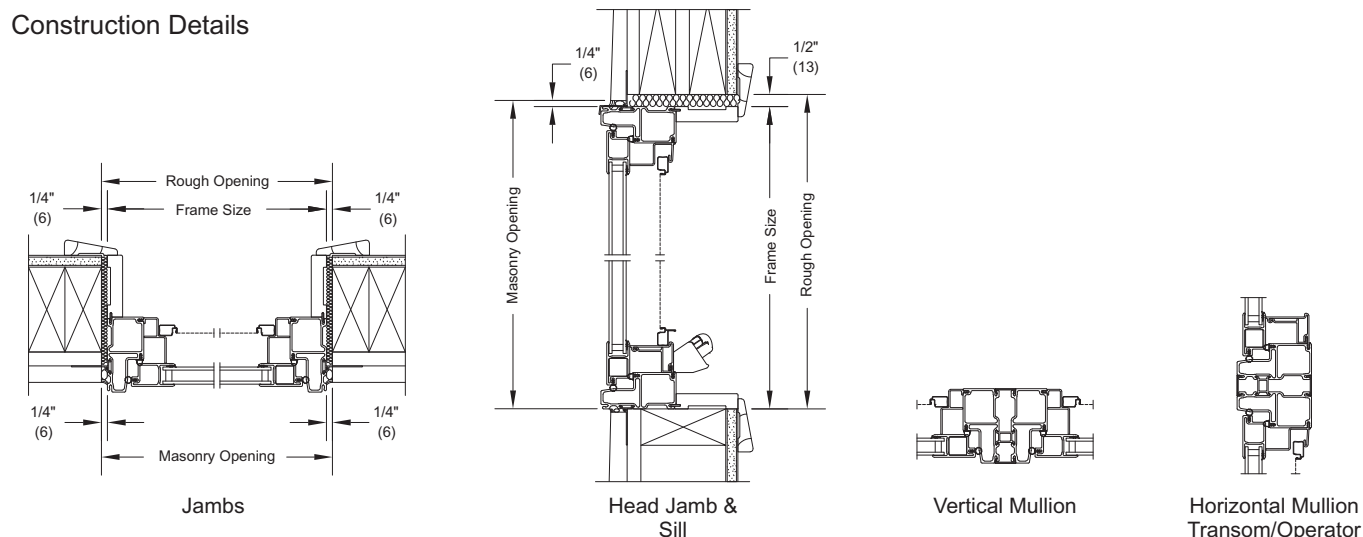


Casement Flankers with Center Picture

MO (mm)	9' - 0" (2743)
RO (mm)	9' - 0" (2743)
FS (mm)	8' - 11 1/2" (2731)



Construction Details

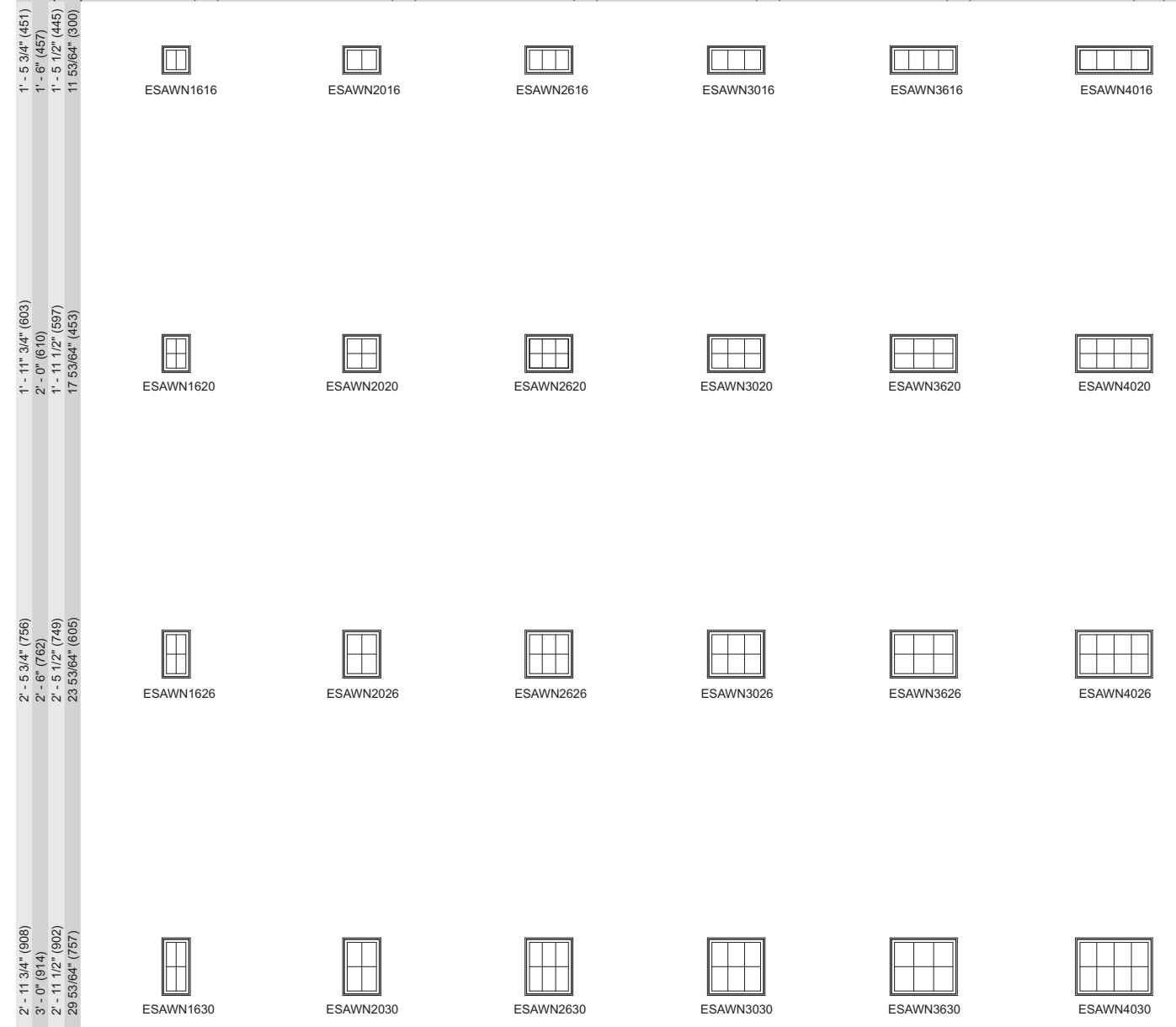


Details and Elevations not to scale.  
 Special sized units available within product size matrix. See your Marvin retailer.  
 Obscure Glass option available on all units.  
 GBG available in standard Rectangular lite cut, shown above.  
 Other GBG lite cuts shown on page 3.  
 See page 52 for specific PG Ratings.  
 For further details and drawings visit the 'Tools and Documents' section at Marvin.com.

**MULTIPLE ASSEMBLIES**  
 Multiple assemblies can be factory mullied.  
 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 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.




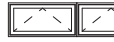












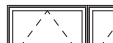
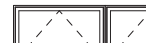





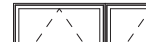
**AWNING**

MO (mm)	1' - 6" (457)	2' - 0" (610)	2' - 6" (762)	3' - 0" (914)	3' - 6" (1067)	4' - 0" (1219)
RO (mm)	1' - 6" (457)	2' - 0" (610)	2' - 6" (762)	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' - 11 1/2" (902)	3' - 5 1/2" (1054)	3' - 11 1/2" (1207)
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)



2 Wide

















<b>MO (mm)</b>	3' - 0" (914)	4' - 0" (1219)	5' - 0" (1524)	6' - 0" (1829)	7' - 0" (2134)	8' - 0" (2438)
<b>RO (mm)</b>	3' - 0" (914)	4' - 0" (1219)	5' - 0" (1524)	6' - 0" (1829)	7' - 0" (2134)	8' - 0" (2438)
<b>FS (mm)</b>	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)

1' - 5 3/4" (451) 1' - 6" (457) 1' - 5 1/2" (445)	 ESAWN1616	 ESAWN2016	 ESAWN2616	 ESAWN3016	 ESAWN3616	 ESAWN4016
1' - 11" 3/4" (603) 2' - 0" (610) 1' - 11 1/2" (597)	 ESAWN1620	 ESAWN2020	 ESAWN2620	 ESAWN3020	 ESAWN3620	 ESAWN4020
2' - 5 3/4" (756) 2' - 6" (762) 2' - 5 1/2" (749)	 ESAWN1626	 ESAWN2026	 ESAWN2626	 ESAWN3026	 ESAWN3626	 ESAWN4026
2' - 11 3/4" (908) 3' - 0" (914) 2' - 11 1/2" (902)	 ESAWN1630	 ESAWN2030	 ESAWN2630	 ESAWN3030	 ESAWN3630	 ESAWN4030

AWNING

3 Wide

<b>MO (mm)</b>	4' - 6" (1372)	6' - 0" (1829)	7' - 6" (2286)	9' - 0" (2743)
<b>RO (mm)</b>	4' - 6" (1372)	6' - 0" (1829)	7' - 6" (2286)	9' - 0" (2743)
<b>FS (mm)</b>	4' - 5 1/2" (1359)	5' - 11 1/2" (1816)	7' - 5 1/2" (2273)	8' - 11 1/2" (2731)

1' - 5 3/4" (451) 1' - 6" (457) 1' - 5 1/2" (445)	 ESAWN1616	 ESAWN2016	 ESAWN2616	 ESAWN3016
1' - 11" 3/4" (603) 2' - 0" (610) 1' - 11 1/2" (597)	 ESAWN1620	 ESAWN2020	 ESAWN2620	 ESAWN3020
2' - 5 3/4" (756) 2' - 6" (762) 2' - 5 1/2" (749)	 ESAWN1626	 ESAWN2026	 ESAWN2626	 ESAWN3026
2' - 11 3/4" (908) 3' - 0" (914) 2' - 11 1/2" (902)	 ESAWN1630	 ESAWN2030	 ESAWN2630	 ESAWN3030

**MULTIPLE ASSEMBLIES**

Multiple assemblies can be factory mullied.  
**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 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.

Obscure Glass option available on all units.

See page 52 for specific PG Ratings.

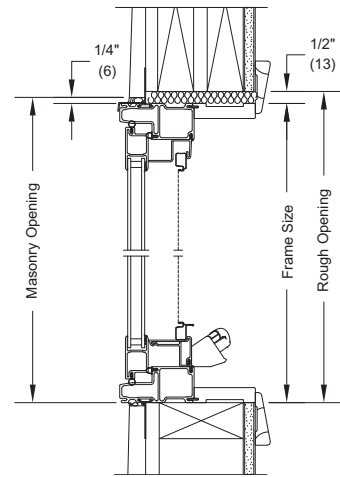
For further details and drawings visit the 'Tools and Documents' section at Marvin.com.

4 Wide

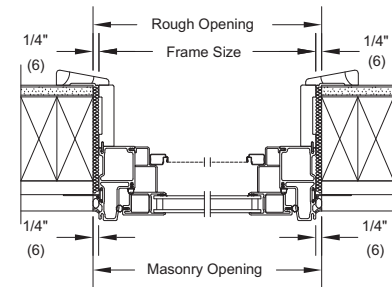
MO (mm)	6' - 0" (1829)	8' - 0" (2438)
RO (mm)	6' - 0" (1829)	8' - 0" (2438)
FS (mm)	5' - 11 1/2" (1816)	7' - 11 1/2" (2426)

1' - 5 3/4" (451)	1' - 6" (457)	1' - 5 1/2" (445)	ESAWN1616	ESAWN2016
1' - 11 3/4" (603)	2' - 0" (610)	1' - 11 1/2" (597)	ESAWN1620	ESAWN2020
2' - 5 3/4" (756)	2' - 6" (762)	2' - 5 1/2" (749)	ESAWN1626	ESAWN2026
2' - 11 3/4" (908)	3' - 0" (914)	2' - 11 1/2" (902)	ESAWN1630	ESAWN2030

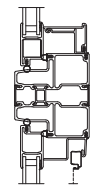
Construction Details



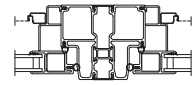
Head Jamb & Sill



Jamb



Vertical Mullion



Horizontal Mullion Transom/Operator

**MULTIPLE ASSEMBLIES**

Multiple assemblies can be factory mullied.  
 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 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.

CASEMENT PICTURE

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)

1' - 11 3/4" (603)	1' - 11 3/4" (603)	2' - 0" (610)	2' - 6" (762)	3' - 0" (914)	3' - 6" (1067)	4' - 0" (1219)	5' - 0" (1524)	6' - 0" (1829)
2' - 5 3/4" (756)	2' - 5 3/4" (756)	2' - 6" (762)	2' - 6" (762)	2' - 6" (762)	2' - 6" (762)	2' - 6" (762)	2' - 6" (762)	2' - 6" (762)
2' - 11 3/4" (908)	2' - 11 3/4" (908)	2' - 11 3/4" (908)	2' - 11 3/4" (908)	2' - 11 3/4" (908)	2' - 11 3/4" (908)	2' - 11 3/4" (908)	2' - 11 3/4" (908)	2' - 11 3/4" (908)
3' - 5 3/4" (1060)	3' - 5 3/4" (1060)	3' - 5 3/4" (1060)	3' - 5 3/4" (1060)	3' - 5 3/4" (1060)	3' - 5 3/4" (1060)	3' - 5 3/4" (1060)	3' - 5 3/4" (1060)	3' - 5 3/4" (1060)
3' - 11 3/4" (1213)	3' - 11 3/4" (1213)	3' - 11 3/4" (1213)	3' - 11 3/4" (1213)	3' - 11 3/4" (1213)	3' - 11 3/4" (1213)	3' - 11 3/4" (1213)	3' - 11 3/4" (1213)	3' - 11 3/4" (1213)
4' - 5 3/4" (1365)	4' - 5 3/4" (1365)	4' - 5 3/4" (1365)	4' - 5 3/4" (1365)	4' - 5 3/4" (1365)	4' - 5 3/4" (1365)	4' - 5 3/4" (1365)	4' - 5 3/4" (1365)	4' - 5 3/4" (1365)
4' - 11 3/4" (1518)	4' - 11 3/4" (1518)	4' - 11 3/4" (1518)	4' - 11 3/4" (1518)	4' - 11 3/4" (1518)	4' - 11 3/4" (1518)	4' - 11 3/4" (1518)	4' - 11 3/4" (1518)	4' - 11 3/4" (1518)
5' - 5 3/4" (1670)	5' - 5 3/4" (1670)	5' - 5 3/4" (1670)	5' - 5 3/4" (1670)	5' - 5 3/4" (1670)	5' - 5 3/4" (1670)	5' - 5 3/4" (1670)	5' - 5 3/4" (1670)	5' - 5 3/4" (1670)
5' - 11 3/4" (1822)	5' - 11 3/4" (1822)	5' - 11 3/4" (1822)	5' - 11 3/4" (1822)	5' - 11 3/4" (1822)	5' - 11 3/4" (1822)	5' - 11 3/4" (1822)	5' - 11 3/4" (1822)	5' - 11 3/4" (1822)
ESCAP1620	ESCAP2020	ESCAP2620	ESCAP3020	ESCAP3620	ESCAP4020	ESCAP5020	ESCAP6020	
ESCAP1626	ESCAP2026	ESCAP2626	ESCAP3026	ESCAP3626	ESCAP4026	ESCAP5026	ESCAP6026	
ESCAP1630	ESCAP2030	ESCAP2630	ESCAP3030	ESCAP3630	ESCAP4030	ESCAP5030	ESCAP6030	
ESCAP1636	ESCAP2036	ESCAP2636	ESCAP3036	ESCAP3636	ESCAP4036	ESCAP5036	ESCAP6036	
ESCAP1640	ESCAP2040	ESCAP2640	ESCAP3040	ESCAP3640	ESCAP4040	ESCAP5040	ESCAP6040	
ESCAP1646	ESCAP2046	ESCAP2646	ESCAP3046	ESCAP3646	ESCAP4046	ESCAP5046	ESCAP6046	
ESCAP1650	ESCAP2050	ESCAP2650	ESCAP3050	ESCAP3650	ESCAP4050	ESCAP5050	ESCAP6050	
ESCAP1656	ESCAP2056	ESCAP2656	ESCAP3056	ESCAP3656	ESCAP4056	ESCAP5056	ESCAP6056	
ESCAP1660 T	ESCAP2060 T	ESCAP2660 T	ESCAP3060 T	ESCAP3660 T	ESCAP4060 T	ESCAP5060 T	ESCAP6060 T	

Details and Elevations not to scale.  
 Special sized units available within product size matrix. See your Marvin retailer.  
 T = Standard Tempered.  
 Obscure Glass option available on all units.

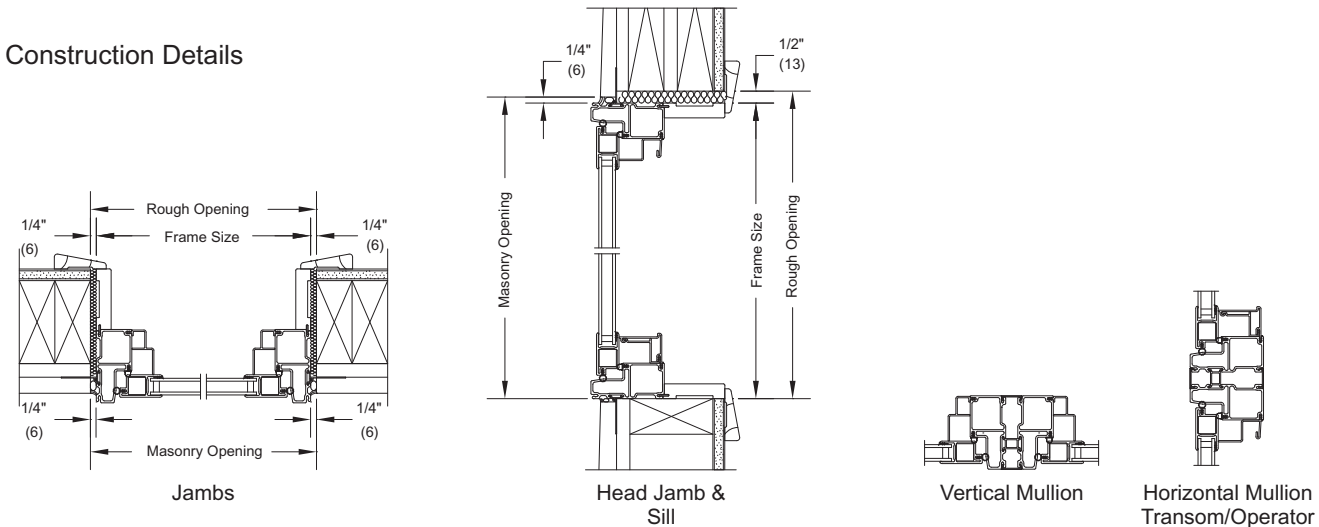
GBG available in standard Rectangular lite cut, shown above. Other GBG lite cuts shown on page 3.  
 See page 52 for specific PG Ratings.  
 For further details and drawings visit the 'Tools and Documents' section at Marvin.com.



<b>MO (mm)</b>	1' - 6" (457)	2' - 0" (610)	2' - 6" (762)	3' - 0" (914)	3' - 6" (1067)	4' - 0" (1219)	5' - 0" (1524)	6' - 0" (1829)
<b>RO (mm)</b>	1' - 6" (457)	2' - 0" (610)	2' - 6" (762)	3' - 0" (914)	3' - 6" (1067)	4' - 0" (1219)	5' - 0" (1524)	6' - 0" (1829)
<b>FS (mm)</b>	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)
<b>DLO (mm)</b>	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)

1' - 11 3/4" (603)	ESCATR1620	ESCATR2020	ESCATR2620	ESCATR3020	ESCATR3620	ESCATR4020	ESCATR5020	ESCATR6020
2' - 0" (610)	ESCATR1616	ESCATR2016	ESCATR2616	ESCATR3016	ESCATR3616	ESCATR4016	ESCATR5016	ESCATR6016
1' - 5 3/4" (451)	ESCATR1610	ESCATR2010	ESCATR2610	ESCATR3010	ESCATR3610	ESCATR4010	ESCATR5010	ESCATR6010
0' - 11 3/4" (298)								

**Construction Details**



**MULTIPLE ASSEMBLIES**

Multiple assemblies can be factory mullied.  
 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 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.







































































**SINGLE HUNG**

<b>MO (mm)</b>	1' - 6" (457)	2' - 0" (610)	2' - 6" (762)	2' - 8" (813)	3' - 0" (914)	3' - 6" (1067)	4' - 0" (1219)
<b>RO (mm)</b>	1' - 6" (457)	2' - 0" (610)	2' - 6" (762)	2' - 8" (813)	3' - 0" (914)	3' - 6" (1067)	4' - 0" (1219)
<b>FS (mm)</b>	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)
<b>DLO (mm)</b>	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)

1' - 11 3/4" (603)	ESSH1620	ESSH2020	ESSH2620	ESSH2820	ESSH3020	ESSH3620	ESSH4020
2' - 5 3/4" (756)	ESSH1626	ESSH2026	ESSH2626	ESSH2826	ESSH3026	ESSH3626	ESSH4026
2' - 11 3/4" (908)	ESSH1630	ESSH2030	ESSH2630	ESSH2830	ESSH3030	ESSH3630	ESSH4030
3' - 5 3/4" (1060)	ESSH1636	ESSH2036	ESSH2636	ESSH2836	ESSH3036	ESSH3636	ESSH4036
3' - 11 3/4" (1213)	ESSH1640	ESSH2040	ESSH2640	ESSH2840	ESSH3040	ESSH3640	ESSH4040
4' - 5 3/4" (1365)	ESSH1646	ESSH2046	ESSH2646	ESSH2846	ESSH3046	ESSH3646	ESSH4046
4' - 11 3/4" (1518)	ESSH1650	ESSH2050	ESSH2650	ESSH2850	ESSH3050 E	ESSH3650 E	ESSH4050 E
5' - 5 3/4" (1670)	ESSH1656	ESSH2056	ESSH2656	ESSH2856	ESSH3056 E	ESSH3656 E	ESSH4056 E
5' - 11 3/4" (1822)	ESSH1660	ESSH2060	ESSH2660 E	ESSH2860 E	ESSH3060 E	ESSH3660 E	ESSH4060 E
6' - 5 3/4" (1975)	ESSH1666	ESSH2066	ESSH2666 E	ESSH2866 E	ESSH3066 E	ESSH3666 E	ESSH4066 E

2 Wide



















































<b>MO (mm)</b>	3' - 0" (914)	4' - 0" (1219)	5' - 0" (1524)	5' - 4" (1626)	6' - 0" (1829)	7' - 0" (2134)	8' - 0" (2438)
<b>RO (mm)</b>	3' - 0" (914)	4' - 0" (1219)	5' - 0" (1524)	5' - 4" (1626)	6' - 0" (1829)	7' - 0" (2134)	8' - 0" (2438)
<b>FS (mm)</b>	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)

1' - 11 3/4" (603) 2' - 0" (610) 2' - 11 1/2" (697)	 ESSH1620	 ESSH2020	 ESSH2620	 ESSH2820	 ESSH3020	 ESSH3620	 ESSH4020
2' - 5 3/4" (756) 2' - 6" (762) 2' - 5 1/2" (749)	 ESSH1626	 ESSH2026	 ESSH2626	 ESSH2826	 ESSH3026	 ESSH3626	 ESSH4026
2' - 11 3/4" (908) 3' - 0" (914) 2' - 11 1/2" (902)	 ESSH1630	 ESSH2030	 ESSH2630	 ESSH2830	 ESSH3030	 ESSH3630	 ESSH4030
3' - 5 3/4" (1060) 3' - 6" (1067) 3' - 5 1/2" (1054)	 ESSH1636	 ESSH2036	 ESSH2636	 ESSH2836	 ESSH3036	 ESSH3636	 ESSH4036
3' - 11 3/4" (1213) 4' - 0" (1219) 3' - 11 1/2" (1207)	 ESSH1640	 ESSH2040	 ESSH2640	 ESSH2840	 ESSH3040	 ESSH3640	 ESSH4040
4' - 5 3/4" (1365) 4' - 6" (1372) 4' - 5 1/2" (1359)	 ESSH1646	 ESSH2046	 ESSH2646	 ESSH2846	 ESSH3046	 ESSH3646	 ESSH4046
4' - 11 3/4" (1518) 5' - 0" (1524) 4' - 11 1/2" (1511)	 ESSH1650	 ESSH2050	 ESSH2650	 ESSH2850	 ESSH3050 E	 ESSH3650 E	 ESSH4050 E
5' - 5 3/4" (1670) 5' - 6" (1676) 5' - 5 1/2" (1664)	 ESSH1656	 ESSH2056	 ESSH2656	 ESSH2856	 ESSH3056 E	 ESSH3656 E	 ESSH4056 E
5' - 11 3/4" (1822) 6' - 0" (1829) 5' - 11 1/2" (1816)	 ESSH1660	 ESSH2060	 ESSH2660 E	 ESSH2860 E	 ESSH3060 E	 ESSH3660 E	 ESSH4060 E
6' - 5 3/4" (1975) 6' - 6" (1981) 6' - 5 1/2" (1969)	 ESSH1666	 ESSH2066	 ESSH2666 E	 ESSH2866 E	 ESSH3066 E	 ESSH3666 E	 ESSH4066 E

SINGLE HUNG

3 Wide

<b>MO (mm)</b>	4' - 6" (1372)	6' - 0" (1829)	7' - 6" (2286)	8' - 0" (2438)	9' - 0" (2743)
<b>RO (mm)</b>	4' - 6" (1372)	6' - 0" (1829)	7' - 6" (2286)	8' - 0" (2438)	9' - 0" (2743)
<b>FS (mm)</b>	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)

1' - 11 3/4" (603) 2' - 0" (610) 2' - 11 1/2" (697)	 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
6' - 5 3/4" (1975) 6' - 6" (1981) 6' - 5 1/2" (1969)	 ESSH1666	 ESSH2066	 ESSH2666 E	 ESSH2866 E	 ESSH3066 E

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' - 5 3/4" (766)		
2' - 11 3/4" (908)		
3' - 5 3/4" (1060)		
3' - 11 3/4" (1213)		
4' - 5 3/4" (1365)		
4' - 11 3/4" (1518)		
5' - 5 3/4" (1670)		
5' - 11 3/4" (1822)		
6' - 5 3/4" (1975)		

GBG available in standard Rectangular lite cut, shown. Other GBG lite cuts shown on page 3.

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.

Obscure Glass option available on all units.

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 52 for specific PG Ratings.

For further details and drawings visit the 'Tools and Documents' section at Marvin.com.

**MULTIPLE ASSEMBLIES**

Multiple assemblies can be factory mullied.  
 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 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.

**SINGLE HUNG - TRANSOMS AND MULTIPLE ASSEMBLIES**

Transom Mullied Over Single Hung

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

ESDHTR2616

ESSH2646

Transom Mullied Over Single Hung 2 Wide

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

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)

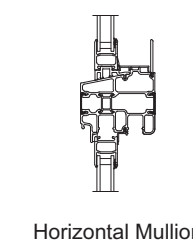
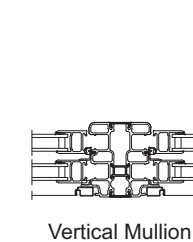
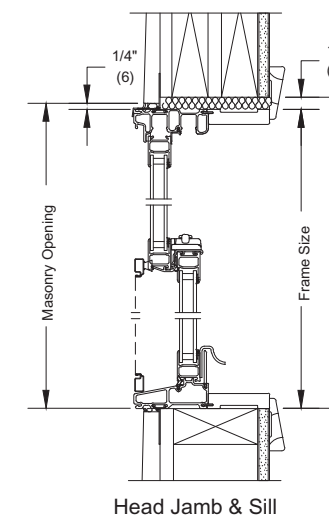
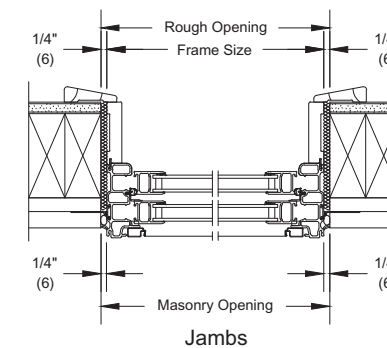
ESSH2646 / ESDHP5046 / ESSH2646

Single Hung Flankers with Center Operator

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

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 mullied.

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.

Obscure Glass option available on all units.

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 52 for specific PG Ratings.

**MULTIPLE ASSEMBLIES**

Multiple assemblies can be factory mullied.  
 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 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**

<b>MO (mm)</b>	1' - 6" (457)	2' - 0" (610)	2' - 6" (762)	2' - 8" (813)	3' - 0" (914)	3' - 6" (1067)	4' - 0" (1219)
<b>RO (mm)</b>	1' - 6" (457)	2' - 0" (610)	2' - 6" (762)	2' - 8" (813)	3' - 0" (914)	3' - 6" (1067)	4' - 0" (1219)
<b>FS (mm)</b>	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)
<b>DLO (mm)</b>	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)

1' - 11 3/4" (603) 2' - 0" (610) 2' - 5 3/4" (756) 2' - 6" (762) 2' - 5 1/2" (749) 1' - 11 1/2" (597) 8 5/16" (211)							
2' - 11 3/4" (908) 3' - 0" (914) 3' - 5 3/4" (1060) 3' - 6" (1067) 3' - 5 1/2" (1054) 17 5/16" (440)							
3' - 11 3/4" (1213) 4' - 0" (1219) 4' - 5 3/4" (1365) 4' - 6" (1372) 4' - 5 1/2" (1359) 23 5/16" (592)							
4' - 11 3/4" (1518) 5' - 0" (1524) 5' - 5 3/4" (1670) 5' - 6" (1676) 5' - 5 1/2" (1664) 29 5/16" (744)							
5' - 11 3/4" (1822) 6' - 0" (1829) 6' - 5 3/4" (1975) 6' - 6" (1981) 6' - 5 1/2" (1969) 35 5/16" (897)							
6' - 5 3/4" (1670) 6' - 6" (1676) 6' - 5 1/2" (1664) 29 5/16" (744)							
7' - 11 3/4" (2127) 8' - 0" (2134) 8' - 5 3/4" (2280) 8' - 6" (2286) 8' - 5 1/2" (2274) 41 5/16" (1067)							
8' - 11 3/4" (2432) 9' - 0" (2439) 9' - 5 3/4" (2585) 9' - 6" (2591) 9' - 5 1/2" (2579) 45 5/16" (1167)							
9' - 11 3/4" (2737) 10' - 0" (2744) 10' - 5 3/4" (2890) 10' - 6" (2896) 10' - 5 1/2" (2884) 49 5/16" (1267)							
10' - 5 3/4" (2682) 10' - 6" (2688) 10' - 5 1/2" (2676) 48 5/16" (1244)							

**DOUBLE HUNG**



















































**2 Wide**

<b>MO (mm)</b>	3' - 0" (914)	4' - 0" (1219)	5' - 0" (1524)	5' - 4" (1626)	6' - 0" (1829)	7' - 0" (2134)	8' - 0" (2438)
<b>RO (mm)</b>	3' - 0" (914)	4' - 0" (1219)	5' - 0" (1524)	5' - 4" (1626)	6' - 0" (1829)	7' - 0" (2134)	8' - 0" (2438)
<b>FS (mm)</b>	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' - 5 1/2" (749) 1' - 11 1/2" (597)							
2' - 11 3/4" (908) 3' - 0" (914) 3' - 5 3/4" (1060) 3' - 6" (1067) 3' - 5 1/2" (1054) 17 5/16" (440)							
3' - 11 3/4" (1213) 4' - 0" (1219) 4' - 5 3/4" (1365) 4' - 6" (1372) 4' - 5 1/2" (1359) 23 5/16" (592)							
4' - 11 3/4" (1518) 5' - 0" (1524) 5' - 5 3/4" (1670) 5' - 6" (1676) 5' - 5 1/2" (1664) 29 5/16" (744)							
5' - 11 3/4" (1822) 6' - 0" (1829) 6' - 5 3/4" (1975) 6' - 6" (1981) 6' - 5 1/2" (1969) 35 5/16" (897)							
6' - 5 3/4" (1670) 6' - 6" (1676) 6' - 5 1/2" (1664) 29 5/16" (744)							
7' - 11 3/4" (2127) 8' - 0" (2134) 8' - 5 3/4" (2280) 8' - 6" (2286) 8' - 5 1/2" (2274) 41 5/16" (1067)							
8' - 11 3/4" (2432) 9' - 0" (2439) 9' - 5 3/4" (2585) 9' - 6" (2591) 9' - 5 1/2" (2579) 45 5/16" (1167)							
9' - 11 3/4" (2737) 10' - 0" (2744) 10' - 5 3/4" (2890) 10' - 6" (2896) 10' - 5 1/2" (2884) 49 5/16" (1267)							
10' - 5 3/4" (2682) 10' - 6" (2688) 10' - 5 1/2" (2676) 48 5/16" (1244)							

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) 1' - 11 1/2" (697)					
2' - 5 3/4" (756) 2' - 6" (762) 2' - 5 1/2" (749)					
2' - 11 3/4" (908) 3' - 0" (914) 2' - 11 1/2" (902)					
3' - 5 3/4" (1060) 3' - 6" (1067) 3' - 5 1/2" (1054)					
3' - 11 3/4" (1213) 4' - 0" (1219) 3' - 11 1/2" (1207)					
4' - 5 3/4" (1365) 4' - 6" (1372) 4' - 5 1/2" (1359)					
4' - 11 3/4" (1518) 5' - 0" (1524) 4' - 11 1/2" (1511)					
5' - 5 3/4" (1670) 5' - 6" (1676) 5' - 5 1/2" (1664)					
5' - 11 3/4" (1822) 6' - 0" (1829) 5' - 11 1/2" (1816)					
6' - 5 3/4" (1975) 6' - 6" (1981) 6' - 5 1/2" (1969)					

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)

1' - 11 3/4" (603) 2' - 0" (610) 1' - 11 1/2" (697)		
2' - 5 3/4" (756) 2' - 6" (762) 2' - 5 1/2" (749)		
2' - 11 3/4" (908) 3' - 0" (914) 2' - 11 1/2" (902)		
3' - 5 3/4" (1060) 3' - 6" (1067) 3' - 5 1/2" (1054)		
3' - 11 3/4" (1213) 4' - 0" (1219) 3' - 11 1/2" (1207)		
4' - 5 3/4" (1365) 4' - 6" (1372) 4' - 5 1/2" (1359)		
4' - 11 3/4" (1518) 5' - 0" (1524) 4' - 11 1/2" (1511)		
5' - 5 3/4" (1670) 5' - 6" (1676) 5' - 5 1/2" (1664)		
5' - 11 3/4" (1822) 6' - 0" (1829) 5' - 11 1/2" (1816)		
6' - 5 3/4" (1975) 6' - 6" (1981) 6' - 5 1/2" (1969)		

GBG available in standard Rectangular lite cut, shown. Other GBG lite cuts shown on page 3.

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.

Obscure Glass option available on all units.

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 52 for specific PG Ratings.

For further details and drawings visit the "Tools and Documents" section at Marvin.com.

**MULTIPLE ASSEMBLIES**

Multiple assemblies can be factory mullied.

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 96" x 96".

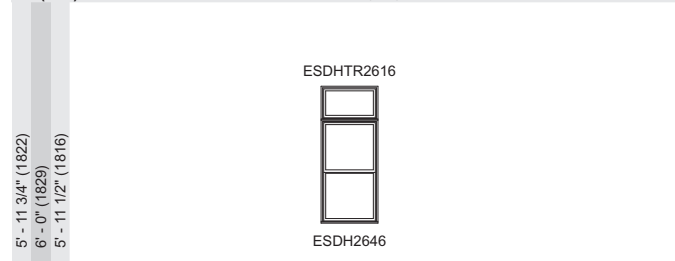
Maximum up to 5 units wide by 5 units high.

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

Please consult your local Marvin representative for more information.

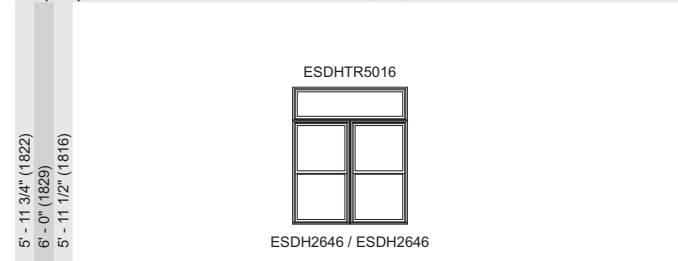
**Transom Muller Over Double Hung**

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



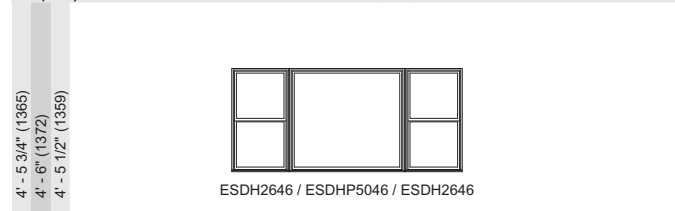
**Transom Muller Over Double Hung 2 Wide**

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



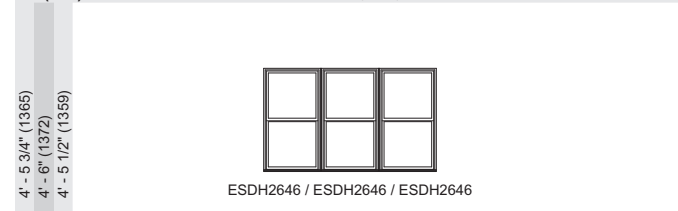
**Double Hung Flankers with Center Picture\***

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

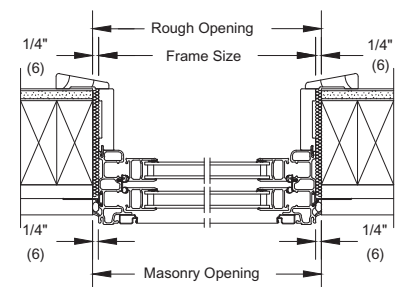


**Double Hung Flankers with Center Operator**

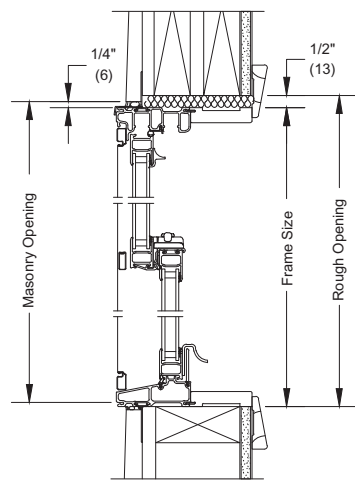
MO (mm)	7' - 6" (2286)
RO (mm)	7' - 6" (2286)
FS (mm)	7' - 5 1/2" (2273)



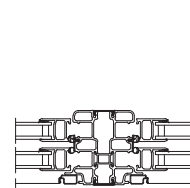
**Construction Details**



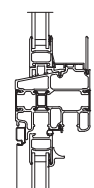
Jamb



Head Jamb & Sill



Vertical Mullion



Horizontal Mullion Transom/Operator

\* This product is only available field muller.

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.

Obscure Glass option available on all units.

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 52 for specific PG Ratings.

For further details and drawings visit the 'Tools and Documents' section at Marvin.com.

**MULTIPLE ASSEMBLIES**

Multiple assemblies can be factory muller.

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 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)

5'-11 3/4" (1822) 6'-0" (1829) 5'-11 1/2" (1816)	ESGL2616	ESGL3016	ESGL3616	ESGL4016	ESGL4616	ESGL5016	ESGL6016
1'-5 3/4" (451) 1'-6" (457) 1'-5 1/2" (445) 12 9/16" (319)	ESGL2620	ESGL3020	ESGL3620	ESGL4020	ESGL4620	ESGL5020	ESGL6020
1'-11 3/4" (603) 2'-0" (610) 1'-11 1/2" (597) 18 9/16" (471)	ESGL2626	ESGL3026	ESGL3626	ESGL4026	ESGL4626	ESGL5026	ESGL6026 E
2'-5 3/4" (766) 2'-6" (762) 2'-5 1/2" (749) 24 9/16" (624)	ESGL2630	ESGL3030	ESGL3630	ESGL4030	ESGL4630	ESGL5030 E	ESGL6030 E
2'-11 3/4" (908) 3'-0" (914) 2'-11 1/2" (902) 30 9/16" (776)	ESGL2636	ESGL3036	ESGL3636	ESGL4036	ESGL4636 E	ESGL5036 E	ESGL6036 E
3'-5 3/4" (1060) 3'-6" (1067) 3'-5 1/2" (1054) 36 9/16" (929)	ESGL2640	ESGL3040	ESGL3640	ESGL4040 E	ESGL4640 E	ESGL5040 E	ESGL6040 E
4'-5 3/4" (1365) 4'-6" (1372) 4'-5 1/2" (1359) 48 9/16" (1233)	ESGL2646	ESGL3046	ESGL3646	ESGL4046 E	ESGL4646 E	ESGL5046 E	ESGL6046 E
4'-11 3/4" (1518) 5'-0" (1524) 4'-11 1/2" (1511) 54 9/16" (1386)	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 3.

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.

Obscure Glass option available on all units.

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 52 for specific PG Ratings.

For further details and drawings visit the 'Tools and Documents' section at Marvin.com.

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)			
2'-5 3/4" (756)			
2'-6" (762)			
2'-11 1/2" (749)			
3'-0" (914)			
3'-5 3/4" (1060)			
3'-6" (1067)			
3'-11 1/2" (1054)			
4'-0" (1219)			
4'-5 3/4" (1365)			
4'-6" (1372)			
4'-11 1/2" (1359)			
5'-0" (1524)			
5'-11 1/2" (1511)			

GBG available in standard Rectangular lite cut, shown. Other GBG lite cuts shown on page 3.

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

Details and Elevations not to scale.

Obscure Glass option available on all units.

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 52 for specific PG Ratings.

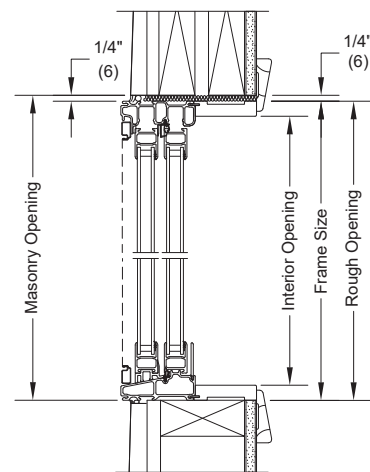
For further details and drawings visit the 'Tools and Documents' section at Marvin.com.

**MULTIPLE ASSEMBLIES**

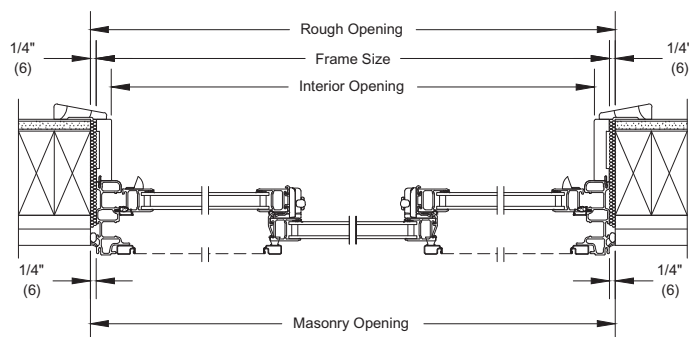
Field mull kits are available. Structural mullion reinforcement is required for some assemblies.

Please consult your local Marvin representative for more information.

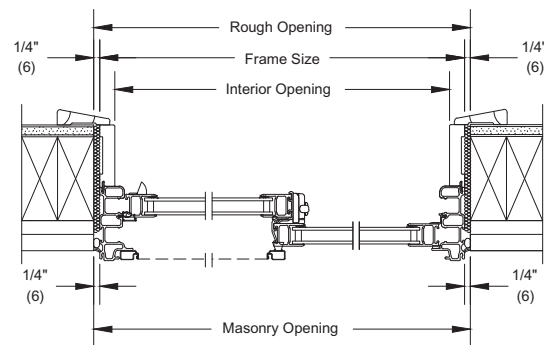
**Construction Details**



Head Jamb & Sill



Triple Sash XO Operator Jamb



XO Operator Jambs

**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'-11 3/4" (603)					
2'-0" (610)					
2'-5 3/4" (756)					
2'-6" (762)					
2'-11 1/2" (749)					
3'-0" (914)					
3'-5 3/4" (1060)					
3'-6" (1067)					
3'-11 1/2" (1054)					
4'-0" (1219)					
4'-5 3/4" (1365)					
4'-6" (1372)					
4'-11 1/2" (1359)					
5'-0" (1524)					
5'-11 1/2" (1511)					

GBG available in standard Rectangular lite cut, shown above. Other GBG lite cuts shown on page 3.

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. Obscure Glass option available on all units.

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

See page 52 for specific PG Ratings.

For further details and drawings visit the 'Tools and Documents' section at Marvin.com.

**MULTIPLE ASSEMBLIES**

Multiple assemblies can be factory mullied.

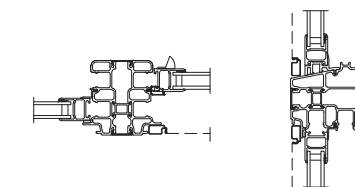
MAXIMUM ROUGH OPENING not to exceed 114" x 60". Maximum up to 3 units wide by 1 unit high.

MAXIMUM ROUGH OPENING not to exceed 72" x 78". 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 Mullion

Horizontal Mullion

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)

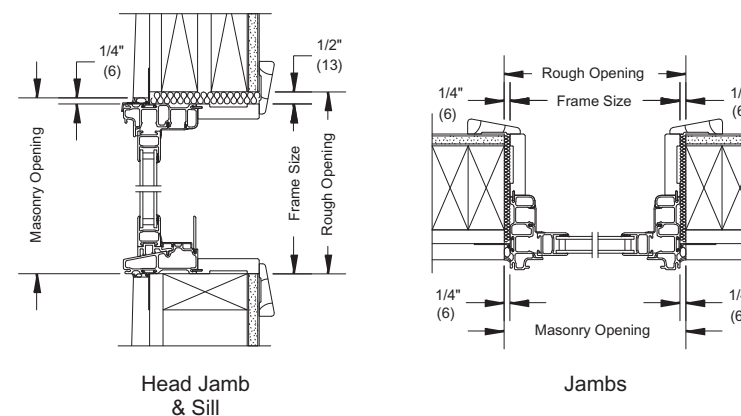
1'-11 3/4" (603) 2'-0" (610) 1'-11 1/2" (597) 18 9/16" (471)								
2'-5 3/4" (756) 2'-6" (762) 2'-5 1/2" (749) 24 9/16" (624)								
2'-11 3/4" (908) 3'-0" (914) 2'-11 1/2" (902) 30 9/16" (776)								
3'-5 3/4" (1060) 3'-6" (1067) 3'-5 1/2" (1054) 36 9/16" (929)								
3'-11 3/4" (1213) 4'-0" (1219) 3'-11 1/2" (1207) 42 9/16" (1081)								
4'-5 3/4" (1365) 4'-6" (1372) 4'-5 1/2" (1359) 48 9/16" (1233)								
4'-11 3/4" (1518) 5'-0" (1524) 4'-11 1/2" (1511) 54 9/16" (1386)								
5'-5 3/4" (1670) 5'-6" (1676) 5'-5 1/2" (1664) 60 9/16" (1538)								
5'-11 3/4" (1822) 6'-0" (1829) 5'-11 1/2" (1816) 66 9/16" (1691)								

**DOUBLE HUNG TRANSOM**

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)

0'-11 3/4" (298) 1'-0" (305) 1'-6" (457) 1'-5 1/2" (445) 12 9/16" (319) 6 9/16" (167)								
1'-5 3/4" (451) 1'-6" (457) 1'-5 1/2" (445) 12 9/16" (319)								
1'-11 3/4" (603) 2'-0" (610) 1'-11 1/2" (597) 18 9/16" (471)								

**Construction Details**



GBG available in standard Rectangular lite cut, shown above. Other GBG lite cuts shown on page 3. (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 52 for specific PG Ratings.

For further details and drawings visit the 'Tools and Documents' section at Marvin.com.

**MULTIPLE ASSEMBLIES**

Multiple assemblies can be factory mullled.

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 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.



True Half Round (RT1)

<b>MO (mm)</b>	2' - 6" (762)	<b>MO (mm)</b>	2' - 8" (813)	<b>MO (mm)</b>	3' - 0" (914)	<b>MO (mm)</b>	3' - 6" (1067)
<b>RO (mm)</b>	2' - 6" (762)	<b>RO (mm)</b>	2' - 8" (813)	<b>RO (mm)</b>	3' - 0" (914)	<b>RO (mm)</b>	3' - 6" (1067)
<b>FS (mm)</b>	2' - 5 1/2" (749)	<b>FS (mm)</b>	2' - 7 1/2" (800)	<b>FS (mm)</b>	2' - 11 1/2" (902)	<b>FS (mm)</b>	3' - 5 1/2" (1054)
<b>DLO (mm)</b>	25 53/64" (656)	<b>DLO (mm)</b>	27 27/32" (707)	<b>DLO (mm)</b>	31 7/8" (810)	<b>DLO (mm)</b>	37 29/32" (963)

1' - 3" (381) 1' - 3 1/4" (387) 1' - 2 3/4" (451) 11 5/16" (287)		ESDGRT2613	1' - 4" (406) 1' - 4 1/4" (413) 1' - 3 3/4" (400) 12 5/16" (313)		ESDGRT2814	1' - 6" (457) 1' - 6 1/4" (464) 1' - 5 3/4" (451) 14 5/16" (363)		ESDGRT3016	1' - 9" (533) 1' - 9 1/4" (540) 1' - 8 3/4" (527) 17 5/16" (440)		ESDGRT3619
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<b>MO (mm)</b>	4' - 0" (1219)	<b>MO (mm)</b>	5' - 0" (1524)	<b>MO (mm)</b>	5' - 4" (1626)
<b>RO (mm)</b>	4' - 0" (1219)	<b>RO (mm)</b>	5' - 0" (1524)	<b>RO (mm)</b>	5' - 4" (1626)
<b>FS (mm)</b>	3' - 11 1/2" (1207)	<b>FS (mm)</b>	4' - 11 1/2" (1511)	<b>FS (mm)</b>	5' - 3 1/2" (1613)
<b>DLO (mm)</b>	43 59/64" (1116)	<b>DLO (mm)</b>	55 61/64" (1421)	<b>DLO (mm)</b>	59 61/64" (1523)

2' - 0" (610) 2' - 0 1/4" (616) 1' - 11 3/4" (603) 20 5/16" (516)		ESDGRT4020	2' - 6" (762) 2' - 6 1/4" (768) 2' - 5 3/4" (756) 26 5/16" (668)		ESDGRT5026	2' - 8" (813) 2' - 8 1/4" (819) 2' - 7 3/4" (806) 28 5/16" (719)		ESDGRT5428
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<b>MO (mm)</b>	6' - 0" (1829)	<b>MO (mm)</b>	7' - 0" (2134)	<b>MO (mm)</b>	8' - 0" (2438)
<b>RO (mm)</b>	6' - 0" (1829)	<b>RO (mm)</b>	7' - 0" (2134)	<b>RO (mm)</b>	8' - 0" (2438)
<b>FS (mm)</b>	5' - 11 1/2" (1816)	<b>FS (mm)</b>	6' - 11 1/2" (2121)	<b>FS (mm)</b>	7' - 11 1/2" (2426)
<b>DLO (mm)</b>	67 31/32" (1726)	<b>DLO (mm)</b>	79 63/64" (2032)	<b>DLO (mm)</b>	92" (2337)

3' - 0" (914) 3' - 0 1/4" (921) 2' - 11 3/4" (908) 32 5/16" (821)		ESDGRT6030	3' - 6" (1067) 3' - 6 1/4" (1073) 3' - 5 3/4" (1060) 38 5/16" (973)		ESDGRT7036	4' - 0" (1219) 4' - 0 1/4" (1226) 3' - 11 3/4" (1213) 44 5/16" (1125)		ESDGRT8040
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Multiple Assemblies

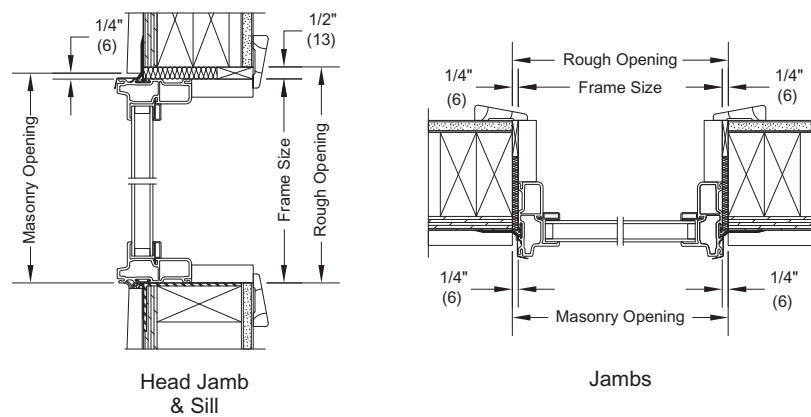
<b>MO (mm)</b>	3' - 0" (914)
<b>RO (mm)</b>	3' - 0" (914)
<b>FS (mm)</b>	2' - 11 1/2" (902)

6' - 6" (1981) 6' - 6 1/4" (1988) 6' - 5 3/4" (1975)		ESDGRT3016 Over ESDH3050
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<b>MO (mm)</b>	5' - 0" (1524)
<b>RO (mm)</b>	5' - 0" (1524)
<b>FS (mm)</b>	4' - 11 1/2" (1511)

7' - 0" (2134) 7' - 0 1/4" (2140) 6' - 11 3/4" (2127)		ESDGRT5026 Over ESCA2646
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Construction Details



**MULTIPLE ASSEMBLIES**

MAXIMUM ROUGH OPENING - ESDG RT to ESCA, ESAWN, ESCA P, ESSH, ESDH, ESDH P, ESDG (Rectangle), ESDH TR, ESCA TR not to exceed 96" x 96" up to 5W2H.

MAXIMUM ROUGH OPENING - ESDG RT to ESGL not to exceed 72" x 78" up to 2 wide 2 high.

Both horizontal and vertical field mull kits are available. Structural mullion reinforcement is required for some assemblies.

Please consult your local Marvin representative for more information.

DIRECT GLAZE ROUND TOPS

True Half Above Springline (RT2)

<b>MO (mm)</b>	2' - 6" (762)	<b>MO (mm)</b>	2' - 8" (813)	<b>MO (mm)</b>	3' - 0" (914)	<b>MO (mm)</b>	3' - 6" (1067)
<b>RO (mm)</b>	2' - 6" (762)	<b>RO (mm)</b>	2' - 8" (813)	<b>RO (mm)</b>	3' - 0" (914)	<b>RO (mm)</b>	3' - 6" (1067)
<b>FS (mm)</b>	2' - 5 1/2" (749)	<b>FS (mm)</b>	2' - 7 1/2" (800)	<b>FS (mm)</b>	2' - 11 1/2" (902)	<b>FS (mm)</b>	3' - 5 1/2" (1054)
<b>DLO (mm)</b>	26 1/16" (662)	<b>DLO (mm)</b>	28 1/16" (713)	<b>DLO (mm)</b>	32 1/16" (814)	<b>DLO (mm)</b>	38 1/16" (967)

2' - 2 1/2" (673) 2' - 2 3/4" (679) 2' - 2 1/4" (667) 22 13/16" (579)		ESDGRT2610	2' - 8 1/2" (826) 2' - 8 3/4" (832) 2' - 8 1/4" (819) 28 13/16" (732)		ESDGRT2616	3' - 2 1/2" (978) 3' - 2 3/4" (984) 3' - 2 1/4" (972) 34 13/16" (884)		ESDGRT2620	3' - 9 1/2" (1003) 3' - 9 3/4" (1010) 3' - 3 1/4" (997) 35 13/16" (910)		ESDGRT2820	3' - 9 1/2" (1156) 3' - 9 3/4" (1162) 3' - 9 1/4" (1149) 41 13/16" (1062)		ESDGRT2826	3' - 11 1/2" (1207) 3' - 11 3/4" (1213) 3' - 11 1/4" (1200) 43 13/16" (1113)		ESDGRT3020	3' - 11 1/2" (1277) 3' - 11 3/4" (1283) 3' - 11 1/4" (1270) 49 13/16" (1265)		ESDGRT3026	3' - 11 1/2" (1389) 3' - 11 3/4" (1395) 3' - 11 1/4" (1382) 53 13/16" (1367)		ESDGRT2830	4' - 9 1/2" (1461) 4' - 9 3/4" (1467) 4' - 9 1/4" (1454) 53 13/16" (1367)		ESDGRT2836	4' - 11 1/2" (1511) 4' - 11 3/4" (1518) 4' - 11 1/4" (1505) 55 13/16" (1418)		ESDGRT3030	4' - 11 1/2" (1588) 4' - 11 3/4" (1594) 4' - 11 1/4" (1581) 58 13/16" (1494)		ESDGRT3036	5' - 2 1/2" (1664) 5' - 2 3/4" (1670) 5' - 2 1/4" (1657) 61 13/16" (1570)		ESDGRT3040	5' - 5 1/2" (1699) 5' - 5 3/4" (1705) 5' - 5 1/4" (1692) 67 13/16" (1875)		ESDGRT3046	5' - 8 1/2" (1740) 5' - 8 3/4" (1746) 5' - 8 1/4" (1733) 64 13/16" (1646)		ESDGRT3640	6' - 2 1/2" (1824) 6' - 2 3/4" (1830) 6' - 2 1/4" (1817) 70 13/16" (1799)		ESDGRT3646	6' - 2 1/2" (1892) 6' - 2 3/4" (1898) 6' - 2 1/4" (1885) 76 13/16" (1975)		ESDGRT3650	6' - 8 1/2" (2045) 6' - 8 3/4" (2051) 6' - 8 1/4" (2038) 76 13/16" (1951)		ESDGRT3656
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GBG only available in standard Round Top pattern, shown above.

Details and Elevations not to scale.

Sample multiples assemblies shown. Contact your Marvin representative for more information.

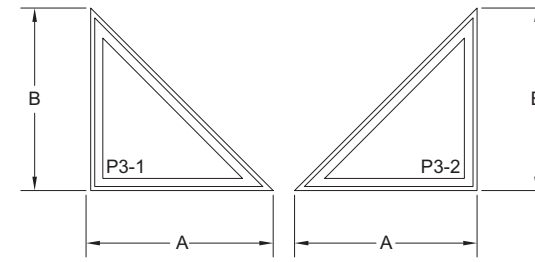
For further details and drawings visit the 'Tools and Documents' section at Marvin.com.



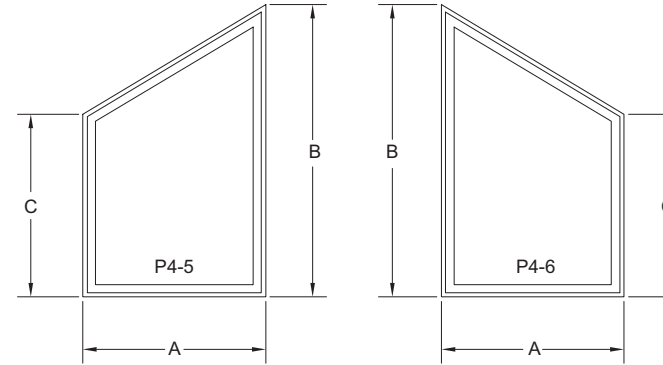
Eyebrow Above Springline (RT6)

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)
1'-7 3/4" (501)	ESDGR5010	ESDGR5410	ESDGR6010	ESDGR7010	ESDGR8010
1'-8" (507)	ESDGR5016	ESDGR5416	ESDGR6016	ESDGR7016	ESDGR8016
1'-9 1/16" (517)	ESDGR5020	ESDGR5420	ESDGR6020	ESDGR7020	ESDGR8020
1'-9 3/8" (523)	ESDGR5026	ESDGR5426	ESDGR6026	ESDGR7026	ESDGR8026
1'-9 1/2" (528)	ESDGR5030	ESDGR5430	ESDGR6030	ESDGR7030	ESDGR8030
1'-9 5/8" (534)	ESDGR5036	ESDGR5436	ESDGR6036	ESDGR7036	
1'-10" (540)	ESDGR5040	ESDGR5440	ESDGR6040	ESDGR7040	
1'-10 1/8" (546)	ESDGR5046	ESDGR5446	ESDGR6046		
1'-10 1/4" (552)	ESDGR5050	ESDGR5450	ESDGR6050		
1'-10 1/2" (558)	ESDGR5056	ESDGR5456			
1'-10 3/4" (564)	ESDGR5060	ESDGR5460			

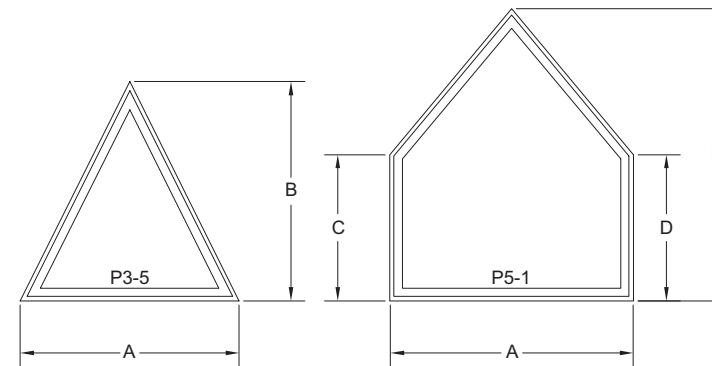
DIRECT GLAZE SPECIALTY SHAPES - POLYGONS



90° TRIANGLE

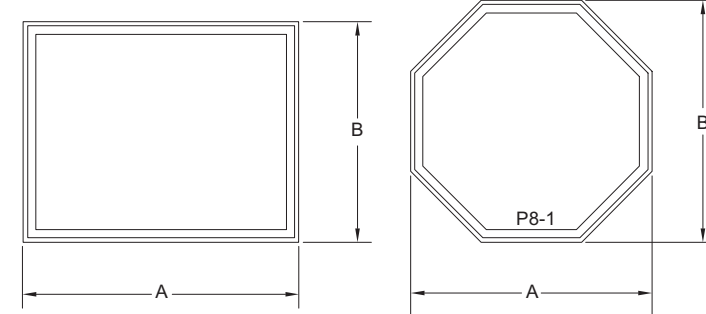


TRAPEZOID



ISOSCELES TRIANGLE

PENTAGON



90° RECTANGLE

OCTAGON

HOW TO SPECIFY

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

EXAMPLE

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

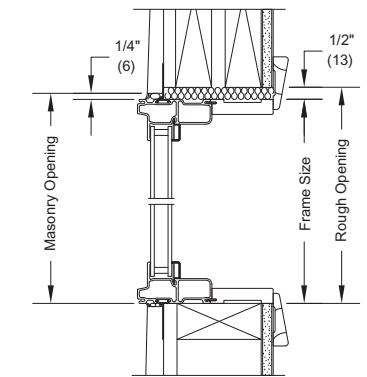
SPECIFICATION NOTES

- All units are subject to validation.
- Maximum/Minimum Guidelines
- Maximum Square Footage: 49 ft<sup>2</sup> 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

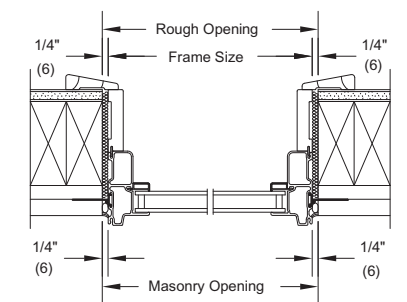
MULTIPLE ASSEMBLIES

- Multiple assemblies can be factory mullled. (Rectangle Only)
- 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 96" x 96". Maximum up to 5 units wide by 5 units high.
- NOTE: Units with Rough Opening larger than 37.75 ft<sup>2</sup> will be standard tempered.

Construction Details



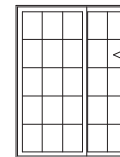
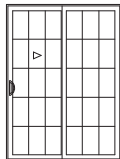
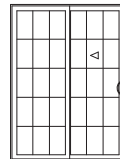
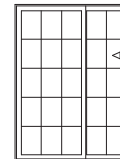
Head Jamb & Sill



Jambs

2 Panel

<b>MO (mm)</b>	5' - 0" (1524)	5' - 0" (1524)	5' - 10 1/2" (1791)	5' - 10 1/2" (1791)	6' - 0" (1829)	6' - 0" (1829)
<b>RO (mm)</b>	5' - 0" (1524)	5' - 0" (1524)	5' - 10 1/2" (1791)	5' - 10 1/2" (1791)	6' - 0" (1829)	6' - 0" (1829)
<b>FS (mm)</b>	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)
<b>DLO (mm)</b>	24 63/64" (635)	24 63/64" (635)	30 15/64" (768)	30 15/64" (768)	30 63/64" (787)	30 63/64" (787)

<p>6' - 7 3/4" (2026)          6' - 8" (2032)          6' - 7 1/2" (2019)          72 1/2" (1841)</p>	 ESSPD5068 - XO	 ESSPD5068 - OX	 ESSPD51068 - XO	 ESSPD51068 - OX	 ESSPD6068 - XO	 ESSPD6068 - OX
<p>6' - 9 3/4" (2076)          6' - 10" (2083)          6' - 9 1/2" (2070)          74 1/2" (1892)</p>	 ESSPD50610 - XO	 ESSPD50610 - OX			 ESSPD60610 - XO	 ESSPD60610 - OX
<p>7' - 11 3/4" (2432)          8' - 0" (2438)          7' - 11 1/2" (2426)          88 1/2" (2248)</p>	 ESSPD5080 - XO	 ESSPD5080 - OX			 ESSPD6080 - XO	 ESSPD6080 - OX

GBG available in standard Rectangular lite cut, shown above. Other GBG lite cuts shown on page 3. (Not available on In-Sash Transom units.)

Details and Elevations not to scale.

Special sized units available within two panel product size matrix. See your Marvin representative for more information.

See page 52 for specific PG Ratings.

For further details and drawings visit the 'Tools and Documents' section at Marvin.com.

**MULTIPLE ASSEMBLIES**

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

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

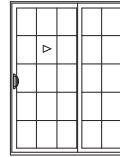
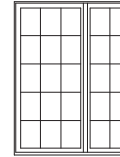
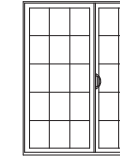
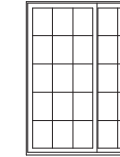
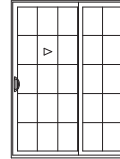
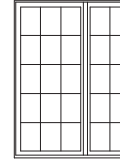
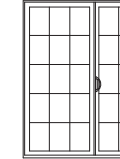
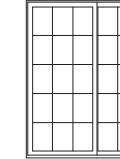
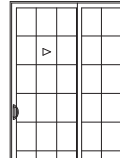
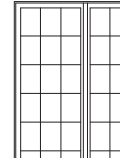
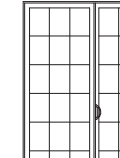
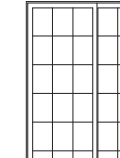
Field mull kits available for up to 3 units wide by 2 units high not to exceed 110" x 112". Structural mullion reinforcement is required for some assemblies.

Please consult your local Marvin representative for more information.

SLIDING PATIO DOOR

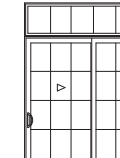
3 Panel

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

<p>6' - 7 3/4" (2026)          6' - 8" (2032)          6' - 7 1/2" (2019)          72 1/2" (1841)</p>	 ESSPD9068 - XO	 ESSPD9068 - OOX	 ESSPD9068 - OXO RH	 ESSPD9068 - OXO LH
<p>6' - 9 3/4" (2076)          6' - 10" (2083)          6' - 9 1/2" (2070)          74 1/2" (1892)</p>	 ESSPD90610 - XO	 ESSPD90610 - OOX	 ESSPD90610 - OXO RH	 ESSPD90610 - OXO LH
<p>7' - 11 3/4" (2432)          8' - 0" (2438)          7' - 11 1/2" (2426)          88 1/2" (2248)</p>	 ESSPD9080 - XO	 ESSPD9080 - OOX	 ESSPD9080 - OXO RH	 ESSPD9080 - OXO LH









Direct Glaze Over  
 Sliding Patio Door

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

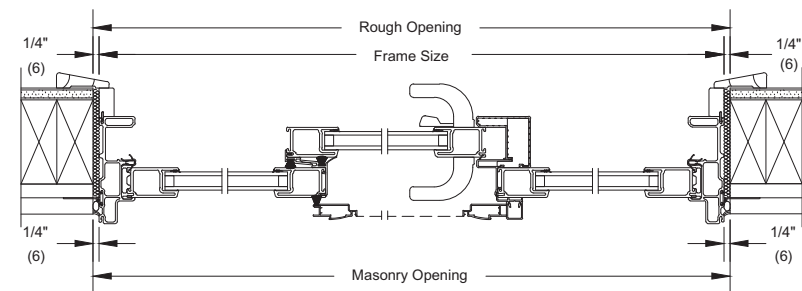
<p>8' - 3 3/4" (2534)          8' - 4" (2540)          8' - 3 1/2" (2527)</p>	 ESGD6016/ESSPD60610
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Direct Glaze Over  
 Sliding Patio Door

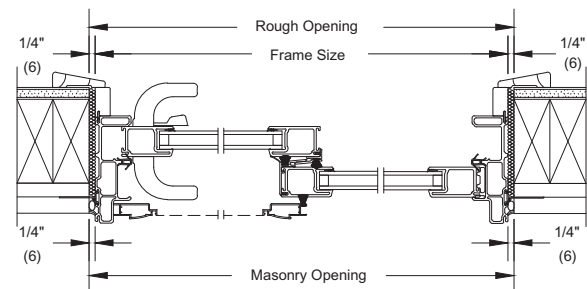
<b>MO (mm)</b>	5' - 0" (1524)	5' - 10 1/2" (1791)	6' - 0" (1829)	9' - 0" (2743)
<b>RO (mm)</b>	5' - 0" (1524)	5' - 10 1/2" (1791)	6' - 0" (1829)	9' - 0" (2743)
<b>FS (mm)</b>	4' - 11 1/2" (1511)	5' - 10" (1778)	5' - 11 1/2" (1816)	8' - 11 1/2" (2731)
<b>DLO (mm)</b>	57 1/4" (1454)	67 1/4" (1708)	69 1/4"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

<p>0' - 11 3/4" (298)          1' - 0" (305)          0' - 11 1/2" (292)          8 1/16" (205)</p>	 ESGD5010	 ESGD51010	 ESGD6010	 ESGD9010
<p>1' - 5 3/4" (451)          1' - 6" (457)          1' - 5 1/2" (445)          14 1/16" (357)</p>	 ESGD5016	 ESGD51016	 ESGD6016	 ESGD9016

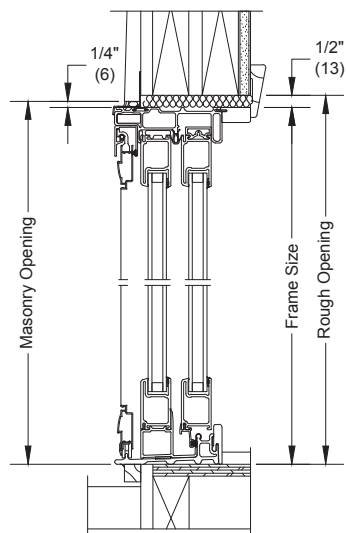
Construction Details



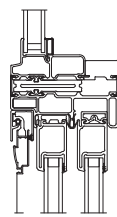
3 Panel OXO Operator Jamb



2 Panel XO Operator Jamb



Head Jamb & Sill



Direct Glaze Over Sliding Patio Door

GBG available in standard Rectangular lite cut, shown above. Other GBG lite cuts shown on page 3. (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 52 for specific PG Ratings.

XO operation shown, OX operation optional.

For further details and drawings visit the 'Tools and Documents' section at Marvin.com.

**MULTIPLE ASSEMBLIES**

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

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

Field mull kits available for up to 3 units wide by 2 units high not to exceed 110" x 112". Structural mullion reinforcement is required for some assemblies.

Please consult your local Marvin representative for more information.

**EGRESS OPENINGS**

Casement

EGRESS OPENING													
Unit #	Egress Width		Egress Height		Egress Clear Opening		Floor To Clear Opening*		Vent		DLO		
	Inches	(mm)	Inches	(mm)	Sq. Ft.	(cm <sup>2</sup> )	Sq. Ft.	(cm <sup>2</sup> )	Sq. Ft.	(cm <sup>2</sup> )	Sq. Ft.	(cm <sup>2</sup> )	
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)	
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)	
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)
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)

Awning

VENT OPENING				
Unit #	Vent		DLO	
	Sq. Ft.	(cm <sup>2</sup> )	Sq. Ft.	(cm <sup>2</sup> )
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)
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)
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)
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)
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)
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)

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.

\*\* 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.















## PERFORMANCE GRADE (PG)

A performance grade rating, as created by AAMA/WDMA/CSA Standards, is a measure of the overall tested performance of a window or door that addresses all of the applicable requirements of the Standards. A product receives a PG rating if it meets all performance requirements, including: air infiltration resistance, water penetration resistance, structural performance, ease of operation, durability, weatherability, and resistance to forced entry. The higher a PG number a product has, the better the performance. As a frame of reference: PG 40 means that a product is tested structurally to a minimum 60 pounds per square foot (psf) and must withstand water penetration under conditions equal to 8 inches of rain per hour driven by a minimum of 50 mph winds.

### Single Hung/Double Hung Equal Sash

CN	16	20	26	28	30	36	40
20	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG50-H
26	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG50-H
30	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG50-H
36	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG50-H
40	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG50-H
46	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG40-H	LC-PG40-H
50	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG40-H	LC-PG40-H
56	LC-PG40-H	LC-PG40-H	LC-PG40-H	LC-PG40-H	LC-PG40-H	LC-PG40-H	LC-PG30-H
60	LC-PG40-H	LC-PG40-H	LC-PG40-H	LC-PG40-H	LC-PG40-H	LC-PG30-H	LC-PG30-H
66	LC-PG40-H	LC-PG40-H	LC-PG40-H	LC-PG40-H	LC-PG40-H	LC-PG30-H	LC-PG30-H

### Single Hung Cottage/Reverse Cottage

CN	16	20	26	28	30	36	40
26	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG50-H
30	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG50-H
36	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG40-H	LC-PG40-H
40	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG40-H	LC-PG40-H
46	LC-PG40-H	LC-PG40-H	LC-PG40-H	LC-PG40-H	LC-PG40-H	LC-PG40-H	LC-PG30-H
50	LC-PG40-H	LC-PG40-H	LC-PG40-H	LC-PG40-H	LC-PG40-H	LC-PG30-H	LC-PG30-H
56	LC-PG40-H	LC-PG40-H	LC-PG40-H	LC-PG40-H	LC-PG40-H	LC-PG30-H	LC-PG30-H
60	LC-PG30-H	LC-PG30-H	LC-PG30-H	LC-PG30-H	LC-PG30-H	LC-PG25-H	LC-PG25-H
66	LC-PG25-H	LC-PG25-H	LC-PG25-H	LC-PG25-H	LC-PG25-H	LC-PG25-H	LC-PG25-H

### Double Hung Cottage/Reverse Cottage

CN	16	20	26	28	30	36	40
26	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG50-H
30	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG50-H
36	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG40-H	LC-PG40-H
40	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG50-H	LC-PG40-H	LC-PG40-H
46	LC-PG40-H	LC-PG40-H	LC-PG40-H	LC-PG40-H	LC-PG40-H	LC-PG40-H	LC-PG30-H
50	LC-PG40-H	LC-PG40-H	LC-PG40-H	LC-PG40-H	LC-PG40-H	LC-PG30-H	LC-PG30-H
56	LC-PG40-H	LC-PG40-H	LC-PG40-H	LC-PG40-H	LC-PG40-H	LC-PG30-H	LC-PG30-H

### Glider

CN	26	30	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

Awning	LC-PG40-AP
Casement	LC-PG40-C
Direct Glaze Round Top	CW-PG50-FW
Direct Glaze	LC-PG50-FW
Sliding Patio Doors	R-PG30-SD
Double Hung Picture/Transom	LC-PG50-FW
Casement Picture/Transom	LC-PG40-FW



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

**MARVIN.COM**

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Part #19981903. September. [REG]

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