

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.

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)

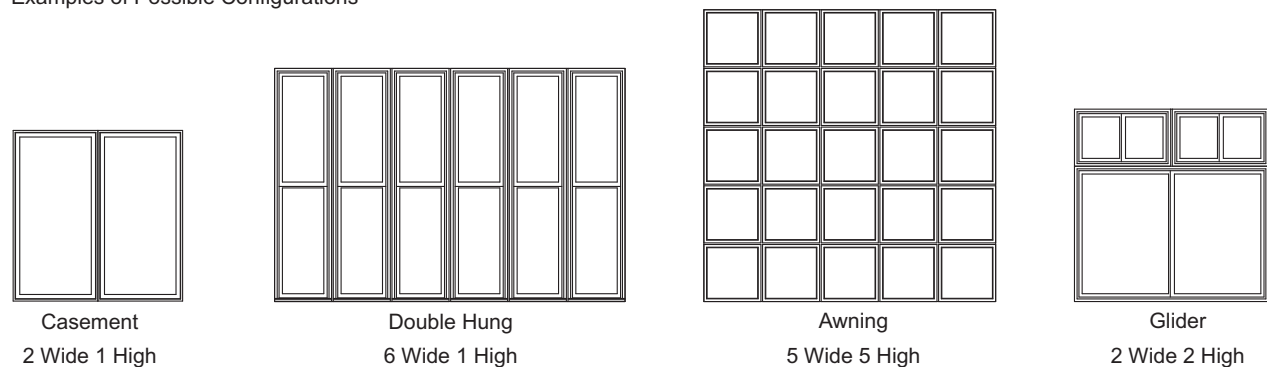


Mulling Options - A variety of standard factory mullied and reinforced factory mullied combinations are available.

Mulling Configurations	Maximum Overall Rough Opening not to exceed:	Maximum Units Wide by High
Casement / Awning Picture / Direct Glaze	114" (2896) X 78" (1981)	6 Wide X 1 High
Single Hung / Double Hung Picture / Direct Glaze		
Direct Glaze		
Casement / Awning Picture / Direct Glaze	96" (2438) X 96" (2438)	5 Wide X 5 High
Single Hung / Double Hung Picture / Direct Glaze		
Direct Glaze		
Glider Picture / Direct Glaze	114" (2896) X 60" (1524)	3 Wide X 1 High
	72" (1829) X 78" (1981)	2 Wide X 2 High
Direct Glaze Round Top over Casement, Single Hung / Double Hung, or Direct Glaze	96" (2438) X 96" (2438)	5 Wide X 2 High

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

Examples of Possible Configurations

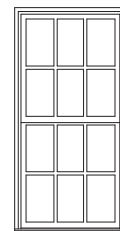


The information provided in this catalog has been gathered and assembled with every effort made to validate accuracy and consistency of the content. However, Marvin does not make any warranty or guarantee as to this information. Please verify critical product data in Marvin Order Management System (OMS)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

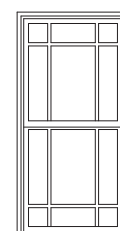
* Direct Glaze units are specified according to guidelines on page 35.

LITE CUTS

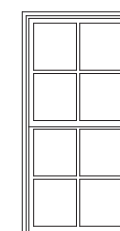
Windows



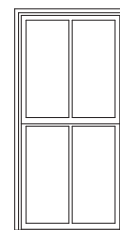
Rectangular
Available as GBG



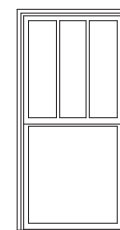
Prairie
Available as GBG



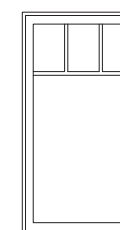
2w2h
Available as GBG



2w1h
Available as GBG

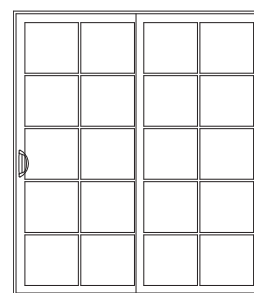


Equal Lite
Available as GBG

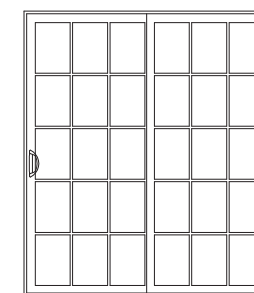


Cottage Lite
Available as GBG

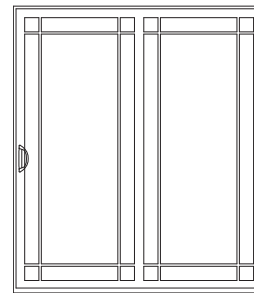
Doors



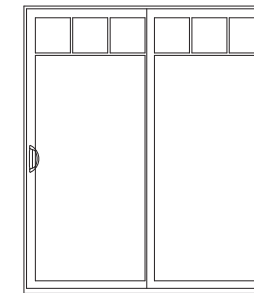
10/12 Lite
One vertical bar per panel
Available as GBG



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

MO (mm)	1' - 6" (457)	2' - 0" (610)	2' - 6" (762)	3' - 0" (914)
RO (mm)	1' - 6" (457)	2' - 0" (610)	2' - 6" (762)	3' - 0" (914)
FS (mm)	1' - 5 1/2" (445)	1' - 11 1/2" (597)	2' - 5 1/2" (749)	2' - 11 1/2" (902)
DLO (mm)	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)				

CASEMENT

2 Wide

MO (mm)	3' - 0" (914)	4' - 0" (1219)	5' - 0" (1524)	6' - 0" (1829)
RO (mm)	3' - 0" (914)	4' - 0" (1219)	5' - 0" (1524)	6' - 0" (1829)
FS (mm)	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) 1' - 11 1/2" (597)				
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.

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.

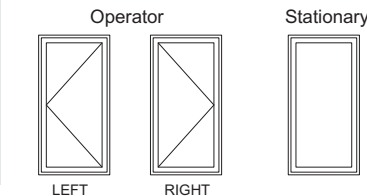
Field mull kits are available. Structural mullion reinforcement is required for some assemblies.

Please consult your local Marvin representative for more information.

Construction Details

Casements available as an operator or stationary.
























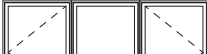












L or R handing determined from exterior.



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)

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.

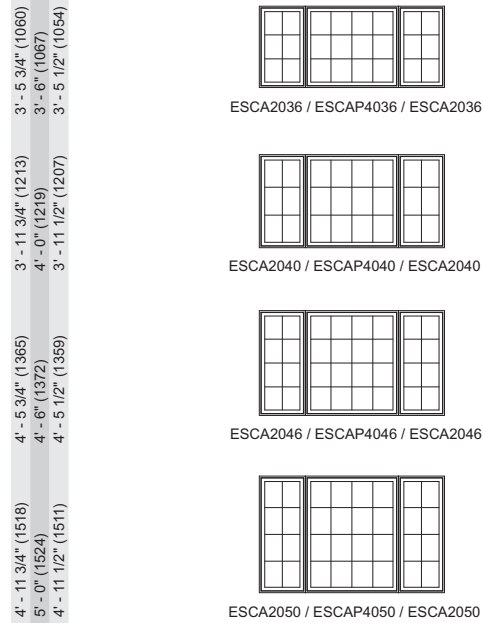
MAXIMUM ROUGH OPENING not to exceed 96" x 96". Maximum up to 5 units wide by 5 units high.

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

Please consult your local Marvin representative for more information.

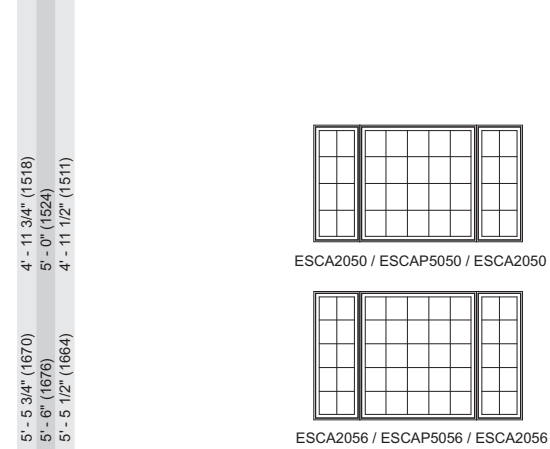
Casement Flankers with Center Picture

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

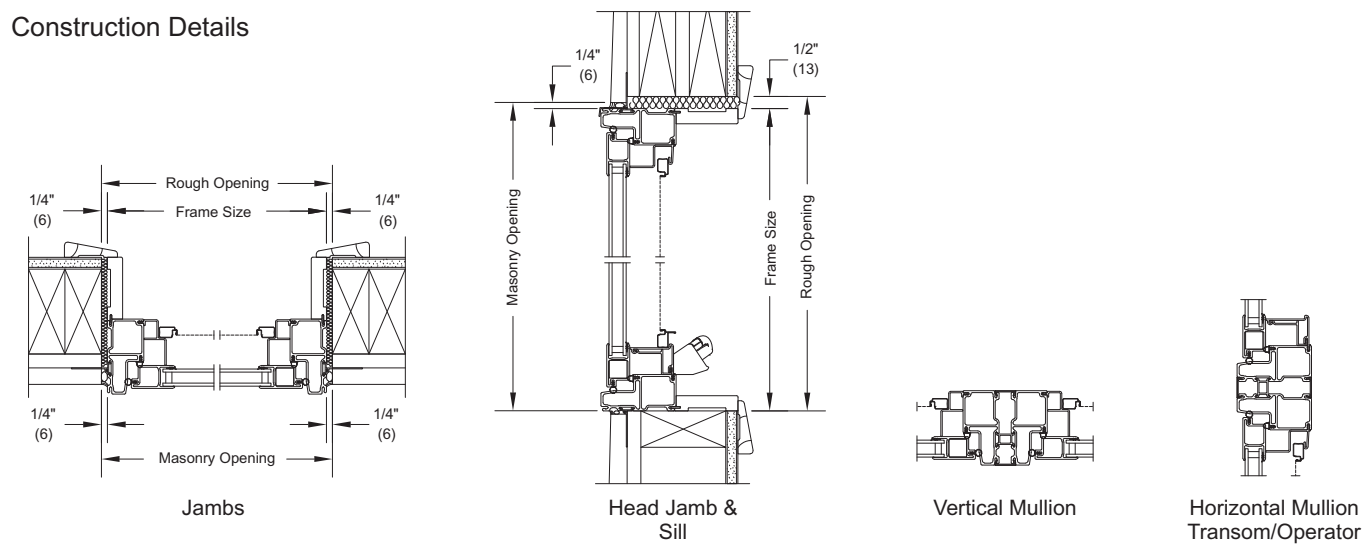


Casement Flankers with Center Picture

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".

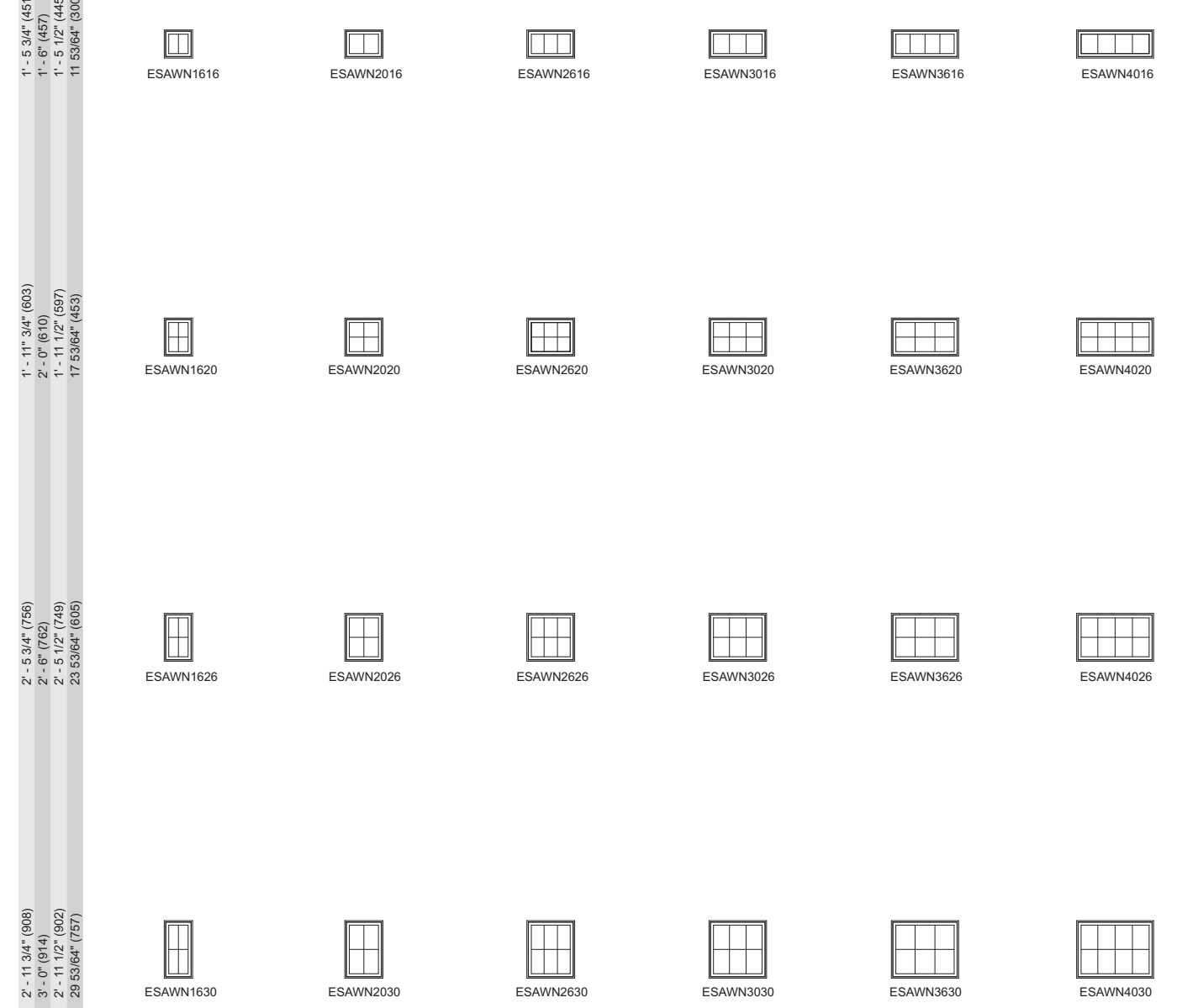
Maximum up to 5 units wide by 5 units high.

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

















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)

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

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' - 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.

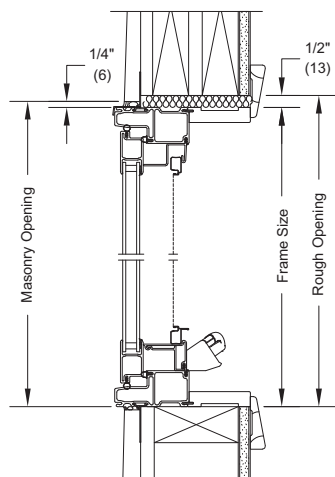
For further details and drawings visit the 'Tools and Documents' section at Marvin.com.

4 Wide

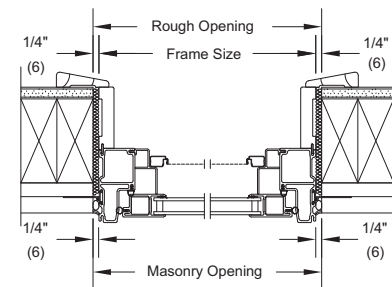
MO (mm)	6' - 0" (1829)	8' - 0" (2438)
RO (mm)	6' - 0" (1829)	8' - 0" (2438)
FS (mm)	5' - 11 1/2" (1816)	7' - 11 1/2" (2426)

1' - 5 3/4" (451)	1' - 6" (457)	1' - 5 1/2" (445)		
1' - 11 3/4" (603)	2' - 0" (610)	1' - 11 1/2" (597)		
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)		

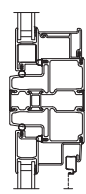
Construction Details



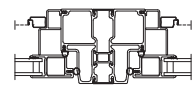
Head Jamb & Sill



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)

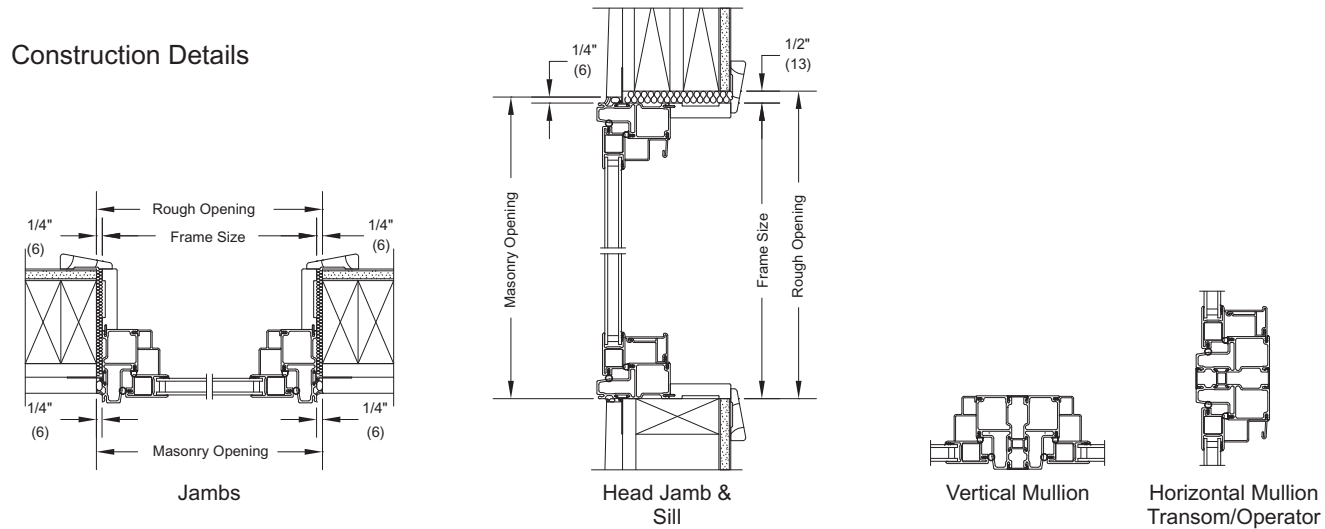
Details and Elevations not to scale.
 Special sized units available within product size matrix. See your Marvin retailer.
 T = Standard Tempered.
 Obscure Glass option available on all units.

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.

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)	ESCATR1610	ESCATR2010	ESCATR2610	ESCATR3010	ESCATR3610	ESCATR4010	ESCATR5010	ESCATR6010
2' - 0" (610)	ESCATR1616	ESCATR2016	ESCATR2616	ESCATR3016	ESCATR3616	ESCATR4016	ESCATR5016	ESCATR6016
2' - 6" (762)	ESCATR1620	ESCATR2020	ESCATR2620	ESCATR3020	ESCATR3620	ESCATR4020	ESCATR5020	ESCATR6020

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

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" (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)

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



















































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)

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

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)

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)

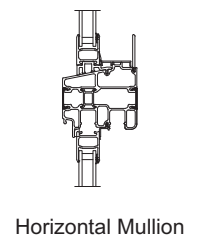
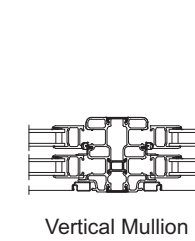
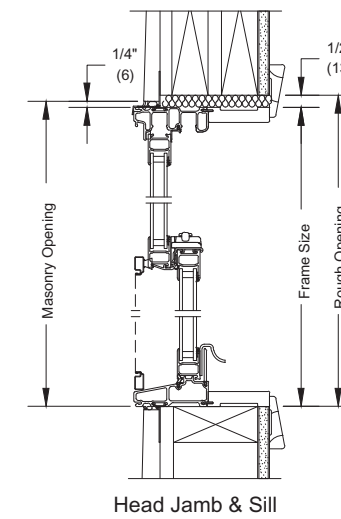
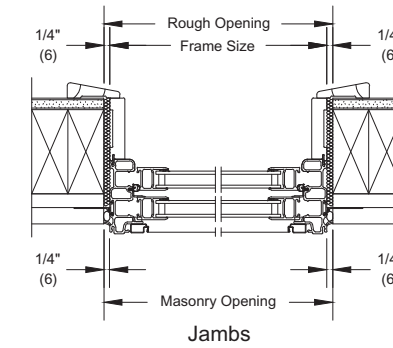
ESSH2646 / ESDHP5046 / ESSH2646

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

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)

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' - 11 3/4" (1975) 7' - 0" (2134) 7' - 5 3/4" (2121)							
8' - 0" (2438) 8' - 5 3/4" (2426)							

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' - 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)							
7' - 0" (2134) 7' - 5 3/4" (2121)							
8' - 0" (2438) 8' - 5 3/4" (2426)							

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) 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.

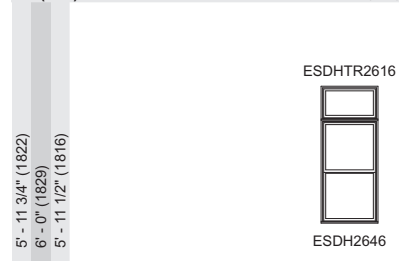
Field mull kits are available. Structural mullion reinforcement is required for some assemblies.

Please consult your local Marvin representative for more information.

DOUBLE HUNG - Transoms and Multiple Assemblies

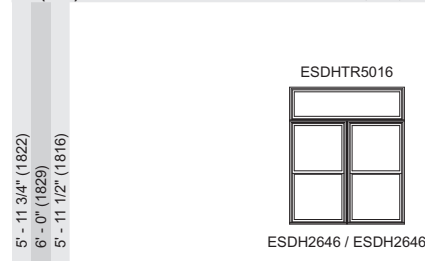
Transom Muller Over Double Hung

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



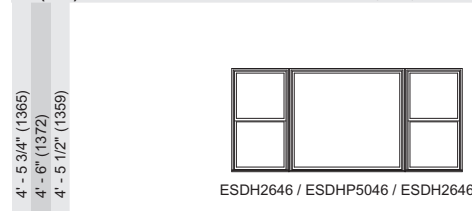
Transom Muller Over Double Hung 2 Wide

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



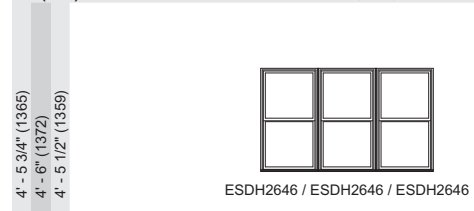
Double Hung Flankers with Center Picture*

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

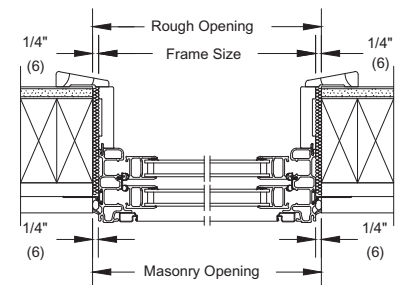


Double Hung Flankers with Center Operator

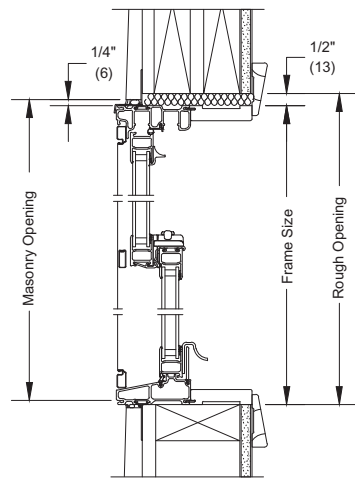
MO (mm)	7' - 6" (2286)
RO (mm)	7' - 6" (2286)
FS (mm)	7' - 5 1/2" (2273)



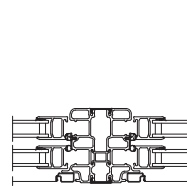
Construction Details



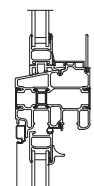
Jamb



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)

1' - 5 3/4" (451)	ESGL2616	ESGL3016	ESGL3616	ESGL4016	ESGL4616	ESGL5016	ESGL6016
1' - 5 3/4" (457)	ESGL2620	ESGL3020	ESGL3620	ESGL4020	ESGL4620	ESGL5020	ESGL6020
1' - 5 3/4" (463)	ESGL2626	ESGL30126	ESGL36126	ESGL4026	ESGL4626	ESGL5026	ESGL6026 E
1' - 5 3/4" (469)	ESGL2630	ESGL3030	ESGL3630	ESGL4030	ESGL4630	ESGL5030 E	ESGL6030 E
1' - 5 3/4" (475)	ESGL2636	ESGL3036	ESGL3636	ESGL4036	ESGL4636 E	ESGL5036 E	ESGL6036 E
1' - 5 3/4" (481)	ESGL2640	ESGL3040	ESGL3640	ESGL4040 E	ESGL4640 E	ESGL5040 E	ESGL6040 E
1' - 5 3/4" (487)	ESGL2646	ESGL3046	ESGL3646	ESGL4046 E	ESGL4646 E	ESGL5046 E	ESGL6046 E
1' - 5 3/4" (493)	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)			
2'-11 3/4" (908)			
3'-0" (914)			
3'-5 3/4" (1060)			
3'-6" (1067)			
3'-11 1/2" (1207)			
3'-11 3/4" (1213)			
4'-0" (1219)			
4'-5 3/4" (1365)			
4'-6" (1372)			
4'-11 1/2" (1359)			
4'-11 3/4" (1518)			
5'-0" (1524)			
4'-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.

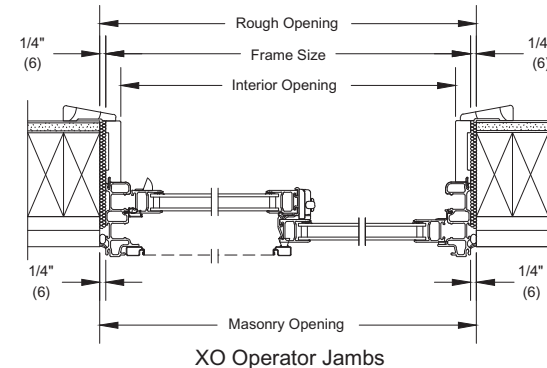
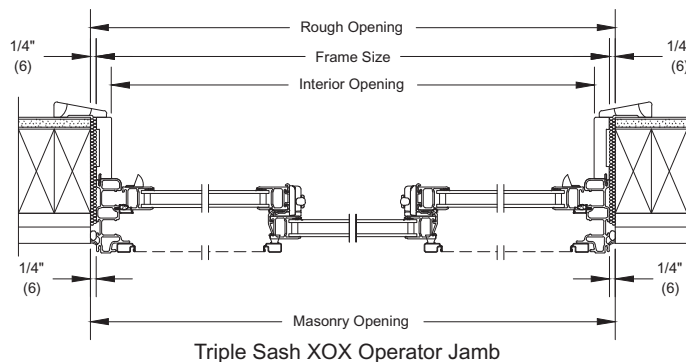
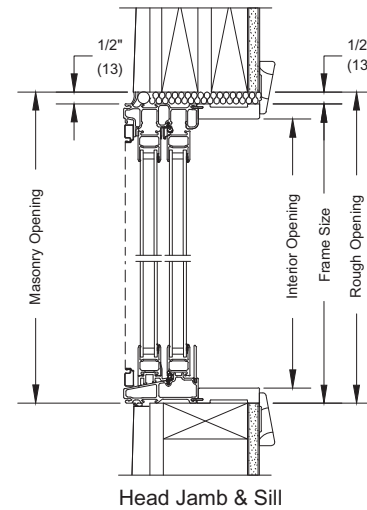
For further details and drawings visit the 'Tools and Documents' section at Marvin.com.

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



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)					
2'-11 3/4" (908)					
3'-0" (914)					
3'-5 3/4" (1060)					
3'-6" (1067)					
3'-11 1/2" (1207)					
3'-11 3/4" (1213)					
4'-0" (1219)					
4'-5 3/4" (1365)					
4'-6" (1372)					
4'-11 1/2" (1359)					
4'-11 3/4" (1518)					
5'-0" (1524)					
4'-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.

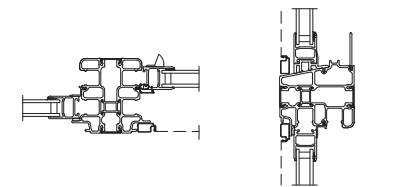
MAXIMUM ROUGH OPENING not to exceed 114" x 60". Maximum up to 3 units wide by 1 unit high.

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" (914)	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" (914)	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)

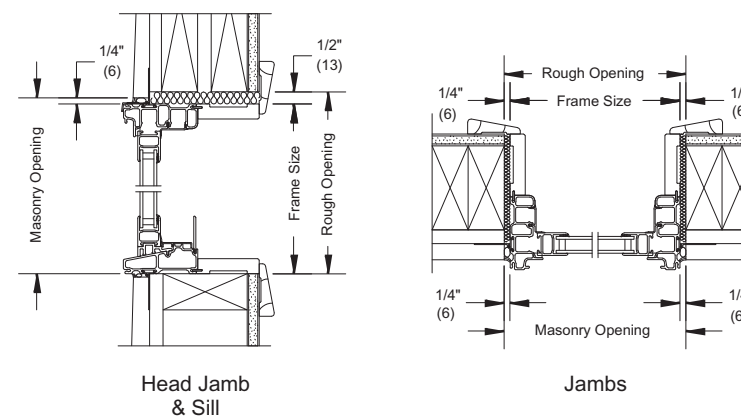
1'-11 3/4" (603) 2'-0" (610) 1'-11 1/2" (597) 18 9/16" (471)								
2'-5 3/4" (756) 2'-6" (762) 2'-5 1/2" (749) 24 9/16" (624)								
2'-11 3/4" (908) 3'-0" (914) 2'-11 1/2" (902) 30 9/16" (776)								
3'-5 3/4" (1060) 3'-6" (1067) 3'-5 1/2" (1054) 36 9/16" (929)								
3'-11 3/4" (1213) 4'-0" (1219) 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" (914)	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" (914)	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.

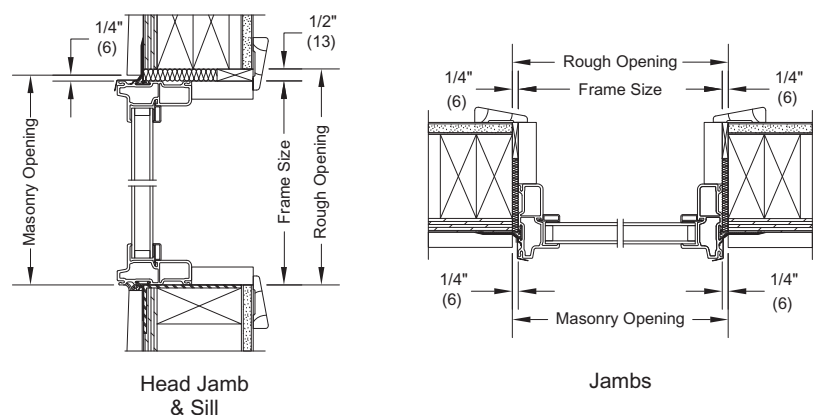
True Half Round (RT1)

MO (mm)	2'-6" (762)	MO (mm)	2'-8" (813)	MO (mm)	3'-0" (914)	MO (mm)	3'-6" (1067)
RO (mm)	2'-6" (762)	RO (mm)	2'-8" (813)	RO (mm)	3'-0" (914)	RO (mm)	3'-6" (1067)
FS (mm)	2'-5 1/2" (749)	FS (mm)	2'-7 1/2" (800)	FS (mm)	2'-11 1/2" (902)	FS (mm)	3'-5 1/2" (1054)
DLO (mm)	25 53/64" (656)	DLO (mm)	27 27/32" (707)	DLO (mm)	31 7/8" (810)	DLO (mm)	37 29/32" (963)
	1'-3" (813)		1'-4" (406)		1'-6" (457)		1'-9" (533)
	1'-3 1/4" (387)		1'-4 1/4" (413)		1'-6 1/4" (464)		1'-9 1/4" (540)
	1'-2 3/4" (451)		1'-3 3/4" (400)		1'-5 3/4" (451)		1'-8 3/4" (527)
	11 5/16" (287)		12 5/16" (313)		14 5/16" (363)		17 5/16" (440)
MO (mm)	4'-0" (1219)	MO (mm)	5'-0" (1524)	MO (mm)	5'-4" (1626)		
RO (mm)	4'-0" (1219)	RO (mm)	5'-0" (1524)	RO (mm)	5'-4" (1626)		
FS (mm)	3'-11 1/2" (1207)	FS (mm)	4'-11 1/2" (1511)	FS (mm)	5'-3 1/2" (1613)		
DLO (mm)	43 59/64" (1116)	DLO (mm)	55 61/64" (1421)	DLO (mm)	59 61/64" (1523)		
	2'-0" (610)		2'-6" (762)		2'-8" (813)		2'-8 1/2" (826)
	2'-0 1/4" (616)		2'-6 1/4" (768)		2'-8 1/4" (819)		2'-8 3/4" (832)
	1'-11 3/4" (603)		2'-5 3/4" (756)		2'-7 3/4" (806)		2'-8 1/4" (819)
	20 5/16" (516)		26 5/16" (668)		28 5/16" (719)		28 13/16" (732)
MO (mm)	6'-0" (1829)	MO (mm)	7'-0" (2134)	MO (mm)	8'-0" (2438)		
RO (mm)	6'-0" (1829)	RO (mm)	7'-0" (2134)	RO (mm)	8'-0" (2438)		
FS (mm)	5'-11 1/2" (1816)	FS (mm)	6'-11 1/2" (2121)	FS (mm)	7'-11 1/2" (2426)		
DLO (mm)	67 31/32" (1726)	DLO (mm)	79 63/64" (2032)	DLO (mm)	92 23/37" (2337)		
	3'-0" (914)		3'-6" (1067)		4'-0" (1219)		4'-2 1/2" (1308)
	3'-0 1/4" (921)		3'-6 1/4" (1073)		4'-0 1/4" (1226)		4'-2 3/4" (1289)
	2'-11 3/4" (908)		3'-5 3/4" (1060)		3'-11 3/4" (1213)		4'-2 1/4" (1276)
	32 5/16" (821)		38 5/16" (973)		44 5/16" (1125)		46 13/16" (1189)

Multiple Assemblies

MO (mm)	3'-0" (914)
RO (mm)	3'-0" (914)
FS (mm)	2'-11 1/2" (902)
	6'-6" (1981)
	6'-6 1/4" (1988)
	6'-5 3/4" (1975)
MO (mm)	5'-0" (1524)
RO (mm)	5'-0" (1524)
FS (mm)	4'-11 1/2" (1511)
	7'-0" (2134)
	7'-0 1/4" (2140)
	6'-11 3/4" (2127)

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.

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.

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)
	2'-2 1/2" (673)	2'-2 1/2" (673)	2'-5 1/2" (749)	2'-8 1/2" (826)
	2'-2 3/4" (679)	2'-2 3/4" (679)	2'-5 3/4" (756)	2'-8 3/4" (832)
	2'-2 1/4" (667)	2'-2 1/4" (667)	2'-5 1/4" (743)	2'-8 1/4" (819)
	22 13/16" (579)	22 13/16" (579)	25 13/16" (656)	28 13/16" (732)
	5'-8 1/2" (1435)	5'-9 1/2" (1461)	5'-11 1/2" (1511)	6'-2 1/2" (1892)
	4'-8 3/4" (1441)	4'-9 3/4" (1467)	4'-11 3/4" (1518)	6'-2 3/4" (1899)
	4'-8 1/4" (1429)	4'-9 1/4" (1454)	4'-11 1/4" (1505)	6'-2 1/4" (1886)
	52 13/16" (1341)	53 13/16" (1367)	55 13/16" (1418)	70 13/16" (1799)
	4'-2 1/2" (1283)	4'-3 1/2" (1308)	4'-5 1/2" (1359)	4'-8 1/2" (1435)
	4'-2 3/4" (1289)	4'-3 3/4" (1314)	4'-5 3/4" (1365)	4'-8 3/4" (1441)
	4'-2 1/4" (1276)	4'-3 1/4" (1302)	4'-5 1/4" (1353)	4'-8 1/4" (1429)
	46 13/16" (1189)	47 13/16" (1214)	49 13/16" (1265)	52 13/16" (1341)
	5'-2 1/2" (1588)	5'-3 1/2" (1613)	5'-5 1/2" (1664)	5'-8 1/2" (1740)
	5'-2 3/4" (1594)	5'-3 3/4" (1619)	5'-5 3/4" (1670)	5'-8 3/4" (1746)
	5'-2 1/4" (1581)	5'-3 1/4" (1607)	5'-5 1/4" (1657)	5'-8 1/4" (1734)
	58 13/16" (1494)	59 13/16" (1519)	61 13/16" (1570)	64 13/16" (1646)
	5'-9 1/2" (1740)	5'-9 3/4" (1765)	5'-11 1/2" (1816)	6'-2 1/2" (1892)
	5'-9 3/4" (1746)	5'-9 3/4" (1772)	5'-11 3/4" (1822)	6'-2 3/4" (1899)
	5'-8 1/4" (1734)	5'-9 1/4" (1759)	5'-11 1/4" (1810)	6'-2 1/4" (1886)
	64 13/16" (1646)	65 13/16" (1672)	67 13/16" (1722)	70 13/16" (1799)

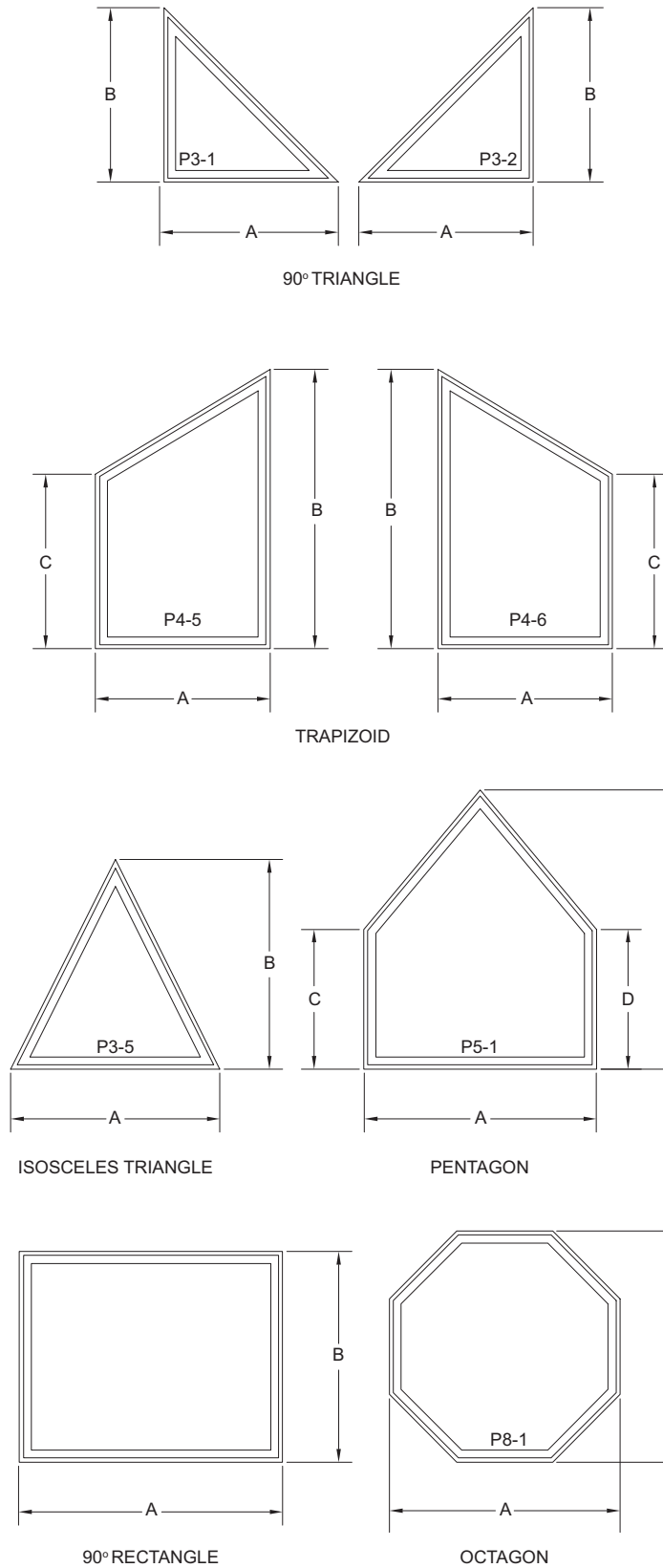
True Half Above Springline (RT2)

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'-2 15/16" (1904)				
6'-3 1/16" (1910)				
6'-3 3/16" (1915)				
6'-3 5/16" (1921)				
6'-4 1/16" (1927)				
6'-4 1/2" (1933)				
6'-4 3/4" (1939)				
6'-5 1/4" (1945)				
6'-5 3/8" (1951)				
6'-5 1/2" (1957)				
6'-5 5/8" (1963)				
6'-6 1/8" (1969)				
6'-6 3/8" (1975)				
6'-6 1/2" (1981)				
6'-6 5/8" (1987)				
6'-7 1/8" (1993)				
6'-7 1/4" (1999)				
6'-7 3/8" (2005)				
6'-7 1/2" (2011)				
6'-7 5/8" (2017)				
6'-8 1/8" (2023)				
6'-8 3/8" (2029)				
6'-8 1/2" (2035)				
6'-8 5/8" (2041)				
6'-9 1/8" (2047)				
6'-9 3/8" (2053)				
6'-9 1/2" (2059)				
6'-9 5/8" (2065)				
6'-10 1/8" (2071)				
6'-10 3/8" (2077)				
6'-10 1/2" (2083)				
6'-10 5/8" (2089)				
6'-11 1/8" (2095)				
6'-11 3/8" (2101)				
6'-11 1/2" (2107)				
6'-11 5/8" (2113)				
6'-12 1/8" (2119)				
6'-12 3/8" (2125)				
6'-12 1/2" (2131)				
6'-12 5/8" (2137)				
6'-13 1/8" (2143)				
6'-13 3/8" (2149)				
6'-13 1/2" (2155)				
6'-13 5/8" (2161)				
6'-14 1/8" (2167)				
6'-14 3/8" (2173)				
6'-14 1/2" (2179)				
6'-14 5/8" (2185)				
6'-15 1/8" (2191)				
6'-15 3/8" (2197)				
6'-15 1/2" (2203)				
6'-15 5/8" (2209)				
6'-16 1/8" (2215)				
6'-16 3/8" (2221)				
6'-16 1/2" (2227)				
6'-16 5/8" (2233)				
6'-17 1/8" (2239)				
6'-17 3/8" (2245)				
6'-17 1/2" (2251)				
6'-17 5/8" (2257)				
6'-18 1/8" (2263)				
6'-18 3/8" (2269)				
6'-18 1/2" (2275)				
6'-18 5/8" (2281)				
6'-19 1/8" (2287)				
6'-19 3/8" (2293)				
6'-19 1/2" (2299)				
6'-19 5/8" (2305)				
6'-20 1/8" (2311)				
6'-20 3/8" (2317)				
6'-20 1/2" (2323)				
6'-20 5/8" (2329)				
6'-21 1/8" (2335)				
6'-21 3/8" (2341)				
6'-21 1/2" (2347)				
6'-21 5/8" (2353)				
6'-22 1/8" (2359)				
6'-22 3/8" (2365)				
6'-22 1/2" (2371)				
6'-22 5/8" (2377)				
6'-23 1/8" (2383)				
6'-23 3/8" (2389)				
6'-23 1/2" (2395)				
6'-23 5/8" (2401)				
6'-24 1/8" (2407)				
6'-24 3/8" (2413)				
6'-24 1/2" (2419)				
6'-24 5/8" (2425)				
6'-25 1/8" (2431)				
6'-25 3/8" (2437)				
6'-25 1/2" (2443)				
6'-25 5/8" (2449)				
6'-26 1/8" (2455)				
6'-26 3/8" (2461)				
6'-26 1/2" (2467)				
6'-26 5/8" (2473)				
6'-27 1/8" (2479)				
6'-27 3/8" (2485)				
6'-27 1/2" (2491)				
6'-27 5/8" (2497)				
6'-28 1/8" (2503)				
6'-28 3/8" (2509)				
6'-28 1/2" (2515)				
6'-28 5/8" (2521)				
6'-29 1/8" (2527)				
6'-29 3/8" (2533)				
6'-29 1/2" (2539)				
6'-29 5/8" (2545)				
6'-30 1/8" (2551)				
6'-30 3/8" (2557)				
6'-30 1/2" (2563)				
6'-30 5/8" (2569)				
6'-31 1/8" (2575)				
6'-31 3/8" (2581)				
6'-31 1/2" (2587)				
6'-31 5/8" (2593)				
6'-32 1/8" (2599)				
6'-32 3/8" (2605)				
6'-32 1/2" (2611)				
6'-32 5/8" (2617)				
6'-33 1/8" (2623)				
6'-33 3/8" (2629)				
6'-33 1/2" (2635)				
6'-33 5/8" (2641)				
6'-34 1/8" (2647)				
6'-34 3/8" (2653)				
6'-34 1/2" (2659)				
6'-34 5/8" (2665)				
6'-35 1/8" (2671)				
6'-35 3/8" (2677)				
6'-35 1/2" (2683)				
6'-35 5/8" (2689)				
6'-36 1/8" (2695)				
6'-36 3/8" (2701)				
6'-36 1/2" (2707)				
6'-36 5/8" (2713)				
6'-37 1/8" (2719)				
6'-37 3/8" (2725)				
6'-37 1/2" (2731)				
6'-37 5/8" (2737)				
6'-38 1/8" (2743)				
6'-38 3/8" (2749)				
6'-38 1/2" (2755)				
6'-38 5/8" (2761)				
6'-39 1/8" (2767)				
6'-39 3/8" (2773)				
6'-39 1/2" (2779)				
6'-39 5/8" (2785)				
6'-40 1/8" (2791)				
6'-40 3/8" (2797)				
6'-40 1/2" (2803)				
6'-40 5/8" (2809)				
6'-41 1/8" (2815)				
6'-41 3/8" (2821)				
6'-41 1/2" (2827)				
6'-41 5/8" (2833)				
6'-42 1/8" (2839)				
6'-42 3/8" (2845)				
6'-42 1/2" (2851)				
6'-42 5/8" (2857)				
6'-43 1/8" (2863)				
6'-43 3/8" (2869)				
6'-43 1/2" (2875)				
6'-43 5/8" (2881)				
6'-44 1/8" (2887)				
6'-44 3/8" (2893)				
6'-44 1/2" (2899)				
6'-44 5/8" (2905)				
6'-45 1/8" (2911)				
6'-45 3/8" (2917)				
6'-45 1/2" (2923)				
6'-45 5/8" (2929)				
6'-46 1/8" (2935)				
6'-46 3/8" (2941)				
6'-46 1/2" (2947)				
6'-46 5/8" (2953)				
6'-47 1/8" (2959)				
6'-47 3/8" (2965)				
6'-47 1/2" (2971)				
6'-47 5/8" (2977)				
6'-48 1/8" (2983)				
6'-48 3/8" (2989)				
6'-48 1/2" (2995)				
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6'-49 1/8" (3007)				
6'-49 3/8" (3013)				
6'-49 1/2" (3019)				
6'-49 5/8" (3025)				
6'-50 1/8" (3031)				
6'-50 3/8" (3037)				
6'-50 1/2" (3043)				
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6'-52 1/8" (3079)				
6'-52 3/8" (3085)				
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6'-67 1/2" (3451)				
6'-67 5/8" (3457)				
6'-68 1/8" (3463)				
6'-68 3/8" (3469)				
6'-68 1/2" (3475)				
6'-68 5/8" (3481)				
6'-69 1/8" (3487)				
6'-69 3/8" (3493)				
6'-69 1/2" (3499)				
6'-69 5/8" (3505)				
6'-70 1/8" (3511)				
6'-70 3/8" (3517)				
6'-70 1/2" (3523)				
6'-70 5/8" (3529)				
6'-71 1/8" (3535)				
6'-71 3/8" (3541)				
6'-71 1/2" (3547)				
6'-71 5/8" (3553)				
6'-72 1/8" (3559)				
6'-72 3/8" (3565)				
6'-72 1/2" (3571)				
6'-72 5/8" (3577)				
6'-73 1/8" (3583)				
6'-73 3/8" (3589)				
6'-73 1/2" (3595)				
6'-73 5/8" (3601)				
6'-74 1/8" (3607)				
6'-74 3/8" (3613)				
6'-74 1/2" (3619)				
6'-74 5/8" (3625)				
6'-75 1/8" (3631)				
6'-75 3/8" (3637)				
6'-75 1/2" (3643)				
6'-75 5/8" (3649)				
6'-76 1/8" (3655)				
6'-76 3/8" (3661)				
6'-76 1/2" (3667)				
6'-76 5/8" (3673)				
6'-77 1/8" (3679)				
6'-77 3/8" (3685)				
6'-7				

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' - 7 1/2" (495)	ESDGR5020	ESDGR5420	ESDGR6020	ESDGR7020	ESDGR8020
1' - 7 1/2" (495)	ESDGR5026	ESDGR5426	ESDGR6026	ESDGR7026	ESDGR8026
1' - 7 1/2" (495)	ESDGR5030	ESDGR5430	ESDGR6030	ESDGR7030	ESDGR8030
1' - 7 1/2" (495)	ESDGR5036	ESDGR5436	ESDGR6036	ESDGR7036	ESDGR8036
1' - 7 1/2" (495)	ESDGR5040	ESDGR5440	ESDGR6040	ESDGR7040	ESDGR8040
1' - 7 1/2" (495)	ESDGR5046	ESDGR5446	ESDGR6046	ESDGR7046	ESDGR8046
1' - 7 1/2" (495)	ESDGR5050	ESDGR5450	ESDGR6050	ESDGR7050	ESDGR8050
1' - 7 1/2" (495)	ESDGR5056	ESDGR5456	ESDGR6056	ESDGR7056	ESDGR8056
1' - 7 1/2" (495)	ESDGR5060	ESDGR5460	ESDGR6060	ESDGR7060	ESDGR8060

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.

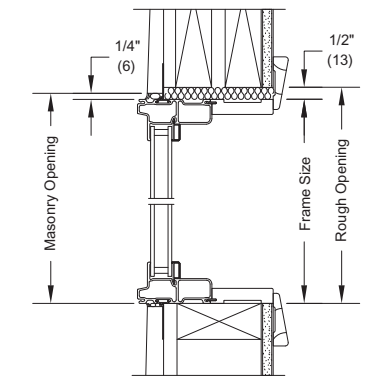
SPECIFICATION NOTES

- 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

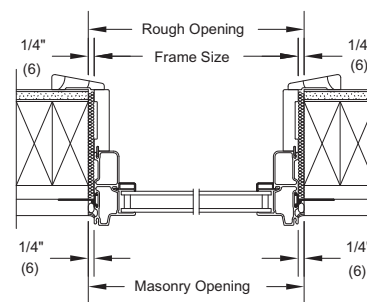
MULTIPLE ASSEMBLIES

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

Construction Details



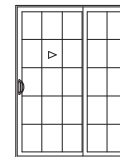
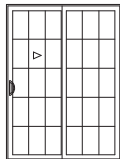
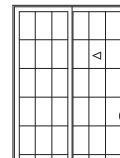
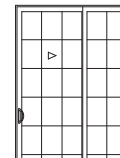
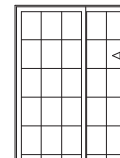
Head Jamb & Sill



Jamb

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)

<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".

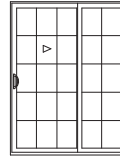
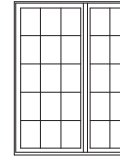
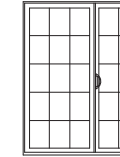
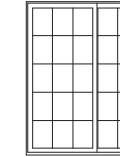
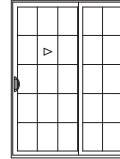
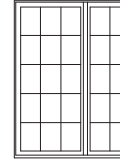
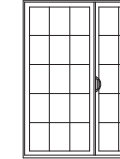
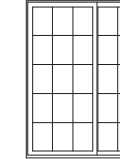
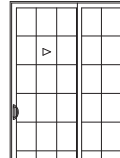
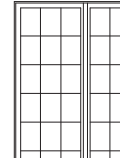
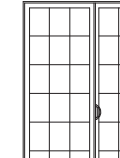
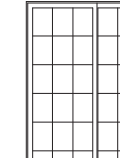
Field mull kits available for up to 3 units wide by 2 units high not to exceed 110" x 112". Structural mullion reinforcement is required for some assemblies.

Please consult your local Marvin representative for more information.

SLIDING PATIO DOOR

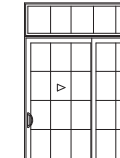
3 Panel

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)

<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

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

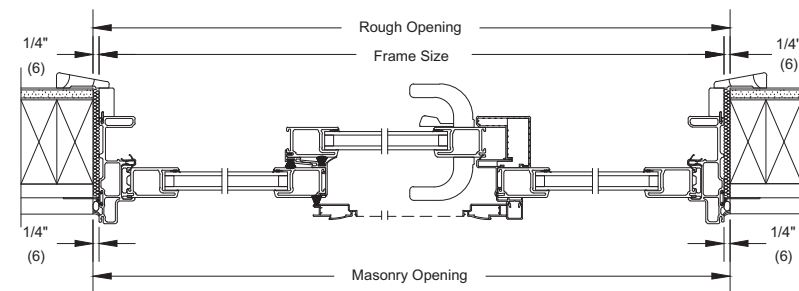
<p>8' - 3 3/4" (2534) 8' - 4" (2540) 8' - 3 1/2" (2527)</p>	
	ESDG6016/ESSPD60610

Direct Glaze Over Sliding Patio Door

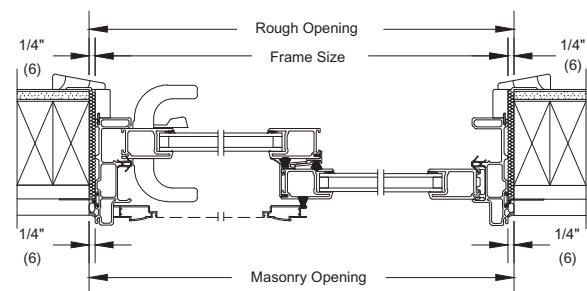
MO (mm)	5' - 0" (1524)	5' - 10 1/2" (1791)	6' - 0" (1829)	9' - 0" (2743)
RO (mm)	5' - 0" (1524)	5' - 10 1/2" (1791)	6' - 0" (1829)	9' - 0" (2743)
FS (mm)	4' - 11 1/2" (1511)	5' - 10" (1778)	5' - 11 1/2" (1816)	8' - 11 1/2" (2731)
DLO (mm)	57 1/4" (1454)	67 1/4" (1708)	69 1/4" (1759)	105 1/4" (2673)

<p>0' - 11 3/4" (298) 1' - 0" (305) 0' - 11 1/2" (292) 8 1/16" (205)</p>				
	ESDG5010	ESDG51010	ESDG6010	ESDG9010
<p>1' - 5 3/4" (451) 1' - 6" (457) 1' - 5 1/2" (445) 14 1/16" (357)</p>				
	ESDG5016	ESDG51016	ESDG6016	ESDG9016

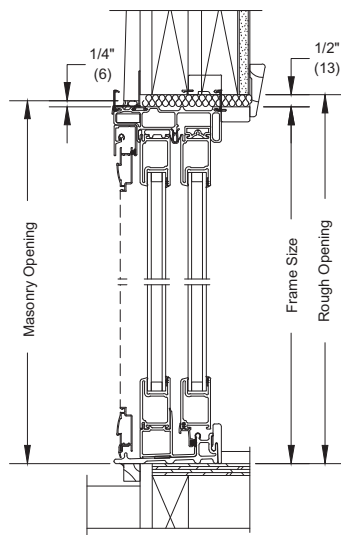
Construction Details



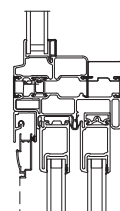
3 Panel OXO Operator Jamb



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.

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 ²)	Sq. Ft.	(cm ²)	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)	
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 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)
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.

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.

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

EGRESS OPENING												
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)	2.83	(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)	7.98	(7399)
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 'Tools and Documents' section at Marvin.com.

EGRESS OPENINGS

Single Hung Cottage

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

Single Hung Reverse Cottage

EGRESS OPENING														
Unit #	Egress Width		Egress Height		Egress Clear Opening		Floor To Clear Opening*		Vent		DLO		Check Rail Height	
	Inches	(mm)	Inches	(mm)	Sq. Ft.	(cm ²)	Inches	(mm)	Sq. Ft.	(cm ²)	Sq. Ft.	(cm ²)	Inches	(mm)
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 'Tools and Documents' section at Marvin.com.

EGRESS OPENINGS

Double Hung Equal Sash

EGRESS OPENING														
Unit #	Egress Width		Egress Height		Egress Clear Opening		Floor To Clear Opening*		Vent		DLO		Check Rail Height	
	Inches	(mm)	Inches	(mm)	Sq. Ft.	(cm ²)	Sq. Ft.	(cm ²)	Sq. Ft.	(cm ²)	Sq. Ft.	(cm ²)	Inches	(mm)
1620	14 9/16	(370)	7 13/64	(183)	0.73	(677)	60 41/64	(1540)	0.73	(677)	1.45	(1347)	12 45/64	(323)
1626	14 9/16	(370)	10 13/64	(259)	1.03	(959)	54 41/64	(1388)	1.03	(959)	1.97	(1833)	15 7/64	(384)
1630	14 9/16	(370)	13 13/64	(336)	1.34	(1241)	48 41/64	(1236)	1.34	(1241)	2.50	(2319)	17 33/64	(445)
1636	14 9/16	(370)	16 13/64	(412)	1.64	(1523)	42 41/64	(1083)	1.64	(1523)	3.02	(2805)	19 29/32	(506)
1640	14 9/16	(370)	19 13/64	(488)	1.94	(1804)	36 41/64	(931)	1.94	(1804)	3.54	(3292)	22 5/16	(567)
1646	14 9/16	(370)	22 13/64	(564)	2.25	(2086)	30 41/64	(778)	2.25	(2086)	4.07	(3778)	24 45/64	(628)
1650	14 9/16	(370)	25 13/64	(640)	2.55	(2368)	24 41/64	(626)	2.55	(2368)	4.59	(4264)	27 3/16	(691)
1656	14 9/16	(370)	28 13/64	(717)	2.85	(2650)	18 41/64	(474)	2.85	(2650)	5.11	(4750)	29 33/64	(750)
1660	14 9/16	(370)	31 13/64	(793)	3.16	(2932)	12 41/64	(321)	3.16	(2932)	5.64	(5236)	31 29/32	(810)
1666	14 9/16	(370)	34 13/64	(869)	3.46	(3214)	6 41/64	(169)	3.46	(3214)	6.16	(5722)	31 29/32	(810)
2020	20 9/16	(522)	7 13/64	(183)	1.03	(956)	60 41/64	(1540)	1.03	(956)	2.14	(1990)	12 45/64	(323)
2026	20 9/16	(522)	10 13/64	(259)	1.46									

Double Hung Cottage

EGRESS OPENING														
Unit #	Egress Width		Egress Height		Egress Clear Opening		Floor To Clear Opening*		Vent		DLO		Check Rail Height	
	Inches	(mm)	Inches	(mm)	Sq. Ft.	(cm ²)	Inches	(mm)	Sq. Ft.	(cm ²)	Sq. Ft.	(cm ²)	Inches	(mm)
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 'Tools and Documents' 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 Reverse Cottage

EGRESS OPENING														
Unit #	Egress Width		Egress Height		Egress Clear Opening		Floor To Clear Opening*		Vent		DLO		Check Rail Height	
	Inches	(mm)	Inches	(mm)	Sq. Ft.	(cm ²)	Inches	(mm)	Sq. Ft.	(cm ²)	Sq. Ft.	(cm ²)	Inches	(mm)
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	(7												

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

THERMAL PERFORMANCE

CASEMENT

GLASS DESCRIPTION	DIVIDER	U FACTOR	SHGC	VT	CR	ENERGY STAR	CANADA ENERGY STAR
11/16" IG Low E3/ERS Arg	GBG	0.25	0.19	0.43	47	N, NC, SC, S	1
		0.25	0.18	0.39	47	N, NC, SC, S	1
11/16" IG Low E3/ERS Air	GBG	0.27	0.19	0.43	43	N, NC, SC, S	1
		0.27	0.18	0.39	43	N, NC, SC, S	1
11/16" IG Low E3 Arg	GBG	0.28	0.20	0.44	59	NC, SC, S	1
		0.28	0.18	0.40	59	NC, SC, S	
11/16" IG Low E3 Air	GBG	0.32	0.20	0.44	56	S	
		0.32	0.18	0.40	56	S	
11/16" IG Low E2 Arg	GBG	0.29	0.29	0.49	59	NC	
		0.29	0.27	0.45	59	NC	
11/16" IG Low E2 Air	GBG	0.32	0.29	0.49	55		
		0.32	0.27	0.45	55		
11/16" IG Low E1 Arg	GBG	0.29	0.48	0.54	58	N	1,2
		0.29	0.44	0.49	58	N	1
11/16" IG Low E1 Air	GBG	0.33	0.48	0.54	55		1
		0.33	0.43	0.49	55		
11/16" IG Arg	GBG	0.42	0.54	0.57	45		
		0.42	0.49	0.51	45		
11/16" IG Air	GBG	0.44	0.54	0.57	43		
		0.44	0.49	0.51	43		

AWNING

GLASS DESCRIPTION	DIVIDER	U FACTOR	SHGC	VT	CR	ENERGY STAR	CANADA ENERGY STAR
11/16" IG Low E3/ERS Arg	GBG	0.25	0.19	0.43	46	N, NC, SC, S	1,2
		0.25	0.18	0.39	46	N, NC, SC, S	1
11/16" IG Low E3/ERS Air	GBG	0.28	0.19	0.43	42	NC, SC, S	1
		0.28	0.18	0.39	42	NC, SC, S	
11/16" IG Low E3 Arg	GBG	0.28	0.20	0.44	58	NC, SC, S	1
		0.28	0.18	0.40	58	NC, SC, S	
11/16" IG Low E3 Air	GBG	0.32	0.20	0.44	54	S	
		0.32	0.18	0.40	54	S	
11/16" IG Low E2 Arg	GBG	0.29	0.29	0.49	57	NC	
		0.29	0.27	0.45	57	NC	
11/16" IG Low E2 Air	GBG	0.32	0.30	0.49	54		
		0.32	0.27	0.45	54		
11/16" IG Low E1 Arg	GBG	0.29	0.48	0.54	57	N	1,2
		0.29	0.44	0.49	57	N	1,2
11/16" IG Low E1 Air	GBG	0.33	0.48	0.54	54		1
		0.33	0.43	0.49	54		
11/16" IG Arg	GBG	0.43	0.54	0.57	45		
		0.43	0.49	0.51	45		
11/16" IG Air	GBG	0.45	0.54	0.57	43		
		0.45	0.49	0.51	43		

CASEMENT PICTURE-TRANSOM

GLASS DESCRIPTION	DIVIDER	U FACTOR	SHGC	VT	CR	ENERGY STAR	CANADA ENERGY STAR
11/16" IG Low E3/ERS Arg		0.23	0.22	0.50	46	N, NC, SC, S	1, 2
	GBG	0.23	0.20	0.45	46	N, NC, SC, S	1, 2
11/16" IG Low E3/ERS Air		0.26	0.22	0.50	43	N, NC, SC, S	1
	GBG	0.26	0.20	0.45	43	N, NC, SC, S	1
11/16" IG Low E3 Arg		0.27	0.22	0.52	59	N, NC, SC, S	1
	GBG	0.27	0.20	0.46	59	N, NC, SC, S	1
11/16" IG Low E3 Air		0.31	0.23	0.52	55	S	
	GBG	0.31	0.21	0.46	55	S	
11/16" IG Low E2 Arg		0.27	0.33	0.57	58	N, NC	1
	GBG	0.27	0.30	0.51	58	N, NC	1
11/16" IG Low E2 Air		0.31	0.34	0.57	55		
	GBG	0.31	0.30	0.51	55		
11/16" IG Low E1 Arg		0.28	0.55	0.63	58	N	1, 2, 3
	GBG	0.28	0.49	0.56	58	N	1, 2
11/16" IG Low E1 Air		0.32	0.55	0.63	54		1, 2
	GBG	0.32	0.49	0.56	54		1
11/16" IG Arg		0.43	0.62	0.65	45		
	GBG	0.43	0.56	0.58	45		
11/16" IG Air		0.45	0.62	0.65	43		
	GBG	0.45	0.56	0.58	43		

GLIDER

GLASS DESCRIPTION	DIVIDER	U FACTOR	SHGC	VT	CR	ENERGY STAR	CANADA ENERGY STAR
11/16" IG Low E3/ERS Arg		0.25	0.22	0.50	46	N, NC, SC, S	1, 2
	GBG	0.25	0.20	0.45	46	N, NC, SC, S	1, 2
11/16" IG Low E3/ERS Air		0.28	0.22	0.50	43	NC, SC, S	1
	GBG	0.28	0.20	0.45	43	NC, SC, S	1
11/16" IG Low E3 Arg		0.29	0.22	0.51	59	NC, SC, S	
	GBG	0.29	0.20	0.46	59	NC, SC, S	
11/16" IG Low E3 Air		0.33	0.23	0.51	55	S	
	GBG	0.33	0.20	0.46	55	S	
11/16" IG Low E2 Arg		0.30	0.33	0.57	58	NC	
	GBG	0.30	0.30	0.51	58	NC	
11/16" IG Low E2 Air		0.34	0.34	0.57	55		
	GBG	0.34	0.30	0.51	55		
11/16" IG Low E1 Arg		0.31	0.55	0.63	58		1, 2
	GBG	0.31	0.49	0.56	58		1, 2
11/16" IG Low E1 Air		0.34	0.54	0.63	54		1, 2
	GBG	0.34	0.49	0.56	54		1
11/16" IG Arg		0.46	0.62	0.65	45		
	GBG	0.46	0.56	0.58	45		
11/16" IG Air		0.48	0.62	0.65	44		
	GBG	0.48	0.56	0.58	44		

THERMAL PERFORMANCE

DOUBLE HUNG

GLASS DESCRIPTION	DIVIDER	U FACTOR	SHGC	VT	CR	ENERGY STAR	CANADA ENERGY STAR
11/16" IG Low E3/ERS Arg		0.25	0.22	0.50	46	N, NC, SC, S	1, 2
	GBG	0.25	0.20	0.45	46	N, NC, SC, S	1, 2
11/16" IG Low E3/ERS Air		0.28	0.22	0.50	42	NC, SC, S	1
	GBG	0.28	0.20	0.45	42	NC, SC, S	1
11/16" IG Low E3 Arg		0.29	0.22	0.51	58	NC, SC, S	
	GBG	0.29	0.20	0.46	58	NC, SC, S	
11/16" IG Low E3 Air		0.33	0.23	0.51	54	S	
	GBG	0.33	0.20	0.46	54	S	
11/16" IG Low E2 Arg		0.30	0.33	0.57	57	NC	
	GBG	0.30	0.30	0.51	57	NC	
11/16" IG Low E2 Air		0.34	0.34	0.57	54		
	GBG	0.34	0.30	0.51	54		
11/16" IG Low E1 Arg		0.31	0.55	0.63	57		1, 2
	GBG	0.31	0.49	0.56	57		1, 2
11/16" IG Low E1 Air		0.34	0.54	0.63	54		1, 2
	GBG	0.34	0.49	0.56	54		1
11/16" IG Arg		0.46	0.62	0.65	45		
	GBG	0.46	0.56	0.58	45		
11/16" IG Air		0.48	0.62	0.65	43		
	GBG	0.48	0.56	0.58	43		

SINGLE HUNG

GLASS DESCRIPTION	DIVIDER	U FACTOR	SHGC	VT	CR	ENERGY STAR	CANADA ENERGY STAR
11/16" IG Low E3/ERS Arg		0.25	0.22	0.50	46	N, NC, SC, S	1, 2
	GBG	0.25	0.20	0.45	46	N, NC, SC, S	1, 2
11/16" IG Low E3/ERS Air		0.28	0.22	0.50	42	NC, SC, S	1
	GBG	0.28	0.20	0.45	42	NC, SC, S	1
11/16" IG Low E3 Arg		0.29	0.22	0.51	58	NC, SC, S	
	GBG	0.29	0.20	0.46	58	NC, SC, S	
11/16" IG Low E3 Air		0.33	0.23	0.51	54	S	
	GBG	0.33	0.20	0.46	54	S	
11/16" IG Low E2 Arg		0.30	0.33	0.57	57	NC	
	GBG	0.30	0.30	0.51	57	NC	
11/16" IG Low E2 Air		0.34	0.34	0.57	54		
	GBG	0.34	0.30	0.51	54		
11/16" IG Low E1 Arg		0.31	0.55	0.63	57		1, 2
	GBG	0.31	0.49	0.56	57		1, 2
11/16" IG Low E1 Air		0.34	0.54	0.63	54		1, 2
	GBG	0.34	0.49	0.56	54		1
11/16" IG Arg		0.46	0.62	0.65	45		
	GBG	0.46	0.56	0.58	45		
11/16" IG Air		0.48	0.62	0.65	43		
	GBG	0.48	0.56	0.58	43		

DOUBLE HUNG PICTURE-TRANSOM

GLASS DESCRIPTION	DIVIDER	U FACTOR	SHGC	VT	CR	ENERGY STAR	CANADA ENERGY STAR
11/16" IG Low E3/ERS Arg		0.23	0.22	0.52	47	N, NC, SC, S	1, 2
	GBG	0.23	0.20	0.46	47	N, NC, SC, S	1, 2
11/16" IG Low E3/ERS Air		0.26	0.23	0.52	43	N, NC, SC, S	1
	GBG	0.26	0.21	0.46	43	N, NC, SC, S	1
11/16" IG Low E3 Arg		0.27	0.23	0.53	60	N, NC, SC, S	1
	GBG	0.27	0.21	0.48	60	N, NC, SC, S	1
11/16" IG Low E3 Air		0.31	0.23	0.53	57	S	
	GBG	0.31	0.21	0.48	57	S	
11/16" IG Low E2 Arg		0.28	0.34	0.59	60	N, NC	1
	GBG	0.28	0.31	0.53	60	NC	1
11/16" IG Low E2 Air		0.32	0.35	0.59	56		
	GBG	0.32	0.31	0.53	56		
11/16" IG Low E1 Arg		0.29	0.57	0.65	60	N	1, 2, 3
	GBG	0.29	0.51	0.58	60	N	1, 2
11/16" IG Low E1 Air		0.33	0.56	0.65	56		1, 2
	GBG	0.33	0.51	0.58	56		1
11/16" IG Arg		0.44	0.64	0.68	46		
	GBG	0.44	0.58	0.60	46		
11/16" IG Air		0.47	0.64	0.68	44		
	GBG	0.47	0.58	0.60	44		

DIRECT GLAZE

GLASS DESCRIPTION	DIVIDER	U FACTOR	SHGC	VT	CR	ENERGY STAR	CANADA ENERGY STAR
7/8" IG Low E3/ERS Arg		0.23	0.24	0.55	47	N, NC, SC, S	1, 2
	GBG	0.23	0.22	0.50	47	N, NC, SC, S	1, 2
7/8" IG Low E3/ERS Air		0.26	0.24	0.55	44	N, NC, SC, S	1
	GBG	0.26	0.22	0.50	44	N, NC, SC, S	1
7/8" IG Low E3 Arg		0.28	0.24	0.57	60	NC, SC, S	1
	GBG	0.28	0.22	0.51	60	NC, SC, S	1
7/8" IG Low E3 Air		0.32	0.24	0.57	56	S	
	GBG	0.32	0.22	0.51	56	S	
7/8" IG Low E2 Arg		0.28	0.36	0.63	59	N, NC	1
	GBG	0.28	0.33	0.56	59	N, NC	1
7/8" IG Low E2 Air		0.32	0.37	0.63	56		
	GBG	0.32	0.33	0.56	56		
7/8" IG Low E1 Arg		0.29	0.60	0.69	59	N	1, 2, 3
	GBG	0.29	0.54	0.62	59	N	1, 2, 3
7/8" IG Low E1 Air		0.33	0.60	0.69	56		1, 2, 3
	GBG	0.33	0.54	0.62	56		1, 2
7/8" IG Arg		0.45	0.68	0.72	46		
	GBG	0.45	0.62	0.65	46		
7/8" IG Air		0.47	0.68	0.72	44		
	GBG	0.47	0.62	0.65	44		

THERMAL PERFORMANCE

DIRECT GLAZE ROUND TOP

GLASS DESCRIPTION	DIVIDER	U FACTOR	SHGC	VT	CR	ENERGY STAR	CANADA ENERGY STAR
7/8" IG Low E3/ERS Arg		0.24	0.24	0.55	44	N, NC, SC, S	1, 2
	GBG	0.24	0.22	0.50	44	N, NC, SC, S	1, 2
7/8" IG Low E3/ERS Air		0.26	0.24	0.55	41	N, NC, SC, S	1
	GBG	0.26	0.22	0.50	41	N, NC, SC, S	1
7/8" IG Low E3 Arg		0.29	0.24	0.57	56	NC, SC, S	
	GBG	0.29	0.22	0.51	56	NC, SC, S	
7/8" IG Low E3 Air		0.33	0.24	0.57	53	S	
	GBG	0.33	0.22	0.51	53	S	
7/8" IG Low E2 Arg		0.29	0.36	0.63	56	NC	1
	GBG	0.29	0.33	0.56	56	NC	
7/8" IG Low E2 Air		0.33	0.37	0.63	53		
	GBG	0.33	0.33	0.56	53		
7/8" IG Low E1 Arg		0.30	0.60	0.69	55	N	1, 2, 3
	GBG	0.30	0.54	0.62	55	N	1, 2, 3
7/8" IG Low E1 Air		0.34	0.60	0.69	52		1, 2
	GBG	0.34	0.54	0.62	52		1, 2
7/8" IG Arg		0.46	0.68	0.72	44		
	GBG	0.46	0.62	0.65	44		
7/8" IG Air		0.48	0.68	0.72	42		
	GBG	0.48	0.62	0.65	42		

SLIDING PATIO DOOR

GLASS DESCRIPTION	DIVIDER	U FACTOR	SHGC	VT	CR	ENERGY STAR	CANADA ENERGY STAR
3/4" IG Low E3/ERS Arg		0.24	0.22	0.51	48	N, NC, SC, S	1, 2
	GBG	0.24	0.19	0.44	48	N, NC, SC, S	1, 2
3/4" IG Low E3/ERS Air		0.27	0.22	0.51	44	N, NC, SC, S	1
	GBG	0.27	0.20	0.44	44	N, NC, SC, S	1
3/4" IG Low E3 Arg		0.29	0.22	0.52	60	N, NC, SC, S	
	GBG	0.29	0.20	0.45	60	N, NC, SC, S	
3/4" IG Low E3 Air		0.32	0.23	0.52	56		
	GBG	0.32	0.20	0.45	56		
3/4" IG Low E2 Arg		0.29	0.34	0.58	59	N, NC	
	GBG	0.29	0.30	0.51	59	N, NC	
3/4" IG Low E2 Air		0.33	0.34	0.58	56		
	GBG	0.33	0.30	0.51	56		
3/4" IG Low E1 Arg		0.30	0.55	0.63	59		1, 2
	GBG	0.30	0.49	0.56	59		1, 2
3/4" IG Low E1 Air		0.33	0.55	0.63	56		1, 2
	GBG	0.33	0.49	0.56	56		1
3/4" IG Arg		0.45	0.63	0.66	46		
	GBG	0.45	0.55	0.58	46		
3/4" IG Air		0.47	0.63	0.66	45		
	GBG	0.47	0.55	0.58	45		



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Part #19981903. November 2019.

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