



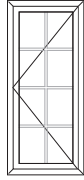
CASEMENT

SPECIAL SIZE FRAME DIMENSIONS

Miscellaneous Formulas



1-WIDE VENT UNIT



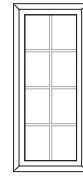
MINIMUM

14-1/2" W x 17-1/2" H
(368 x 445)

MAXIMUM

35-1/2" W x 71-1/2" H
(889 x 1 803)

1-WIDE FIXED UNIT



MINIMUM

14-1/2" W x 14-1/2" H
(368 x 368)

MAXIMUM

71-1/2" W x 71-1/2" H
(1 803 x 1 803)
36 sq. ft. Max.

General Notes:

- To convert areas to square meters (m²), multiply square feet by 0.0929.
- Rough Opening = Frame Dimension + 1/2".
- Unit Height must be > Unit Width
- Keep frame dimensions to the nearest 1/8" increment.
- Tempered glass must measure ≥ 18-1/2" diagonally.
- If glass width to height ratio is > 5 to 1, then unit must be tempered.

Miscellaneous Formulas

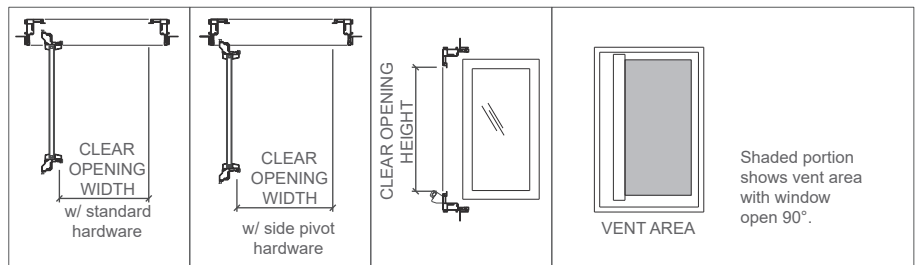
	1-WIDE-VENT
VISIBLE GLASS	VGW = FW - 6.188" VGH = FH - 6.188"
ACTUAL GLASS	AGW = FW - 5-7/8" AGH = FH - 5-7/8"

KEY:

- AGW = Actual Glass Width
- AGH = Actual Glass Height
- FW = Frame Width
- FH = Frame Height
- VGW = Visible Glass Width
- VGH = Visible Glass Height
- COW = Clear opening width
- COH = Clear opening height

Clear Opening Formulas

	1-WIDE-VENT
VENT AREA	VA = (COH X COW) / 144
COH	COH = FH - 5.124"
COW	Standard Performance COW = FW - 11.631" Side Pivot COW = FW - 7.443"



Side pivot hardware only available on frame widths of 28" to 32"
The clear opening formulas do not apply to units with FW < 16.25"



CASEMENT

SIZE TABLES

Vent Units



	(381) (368)	(457) (445)	(610) (597)	(711) (699)	(762) (749)	(813) (800)	(914) (902)
Opening	1' 3"	1' 6"	2' 0"	2' 4"	2' 6"	2' 8"	3' 0"
Frame	14 1/2"	17 1/2"	23 1/2"	27 1/2"	29 1/2"	31 1/2"	35 1/2"
(457) (445)	1-3/1-6	1-6/1-6					
(610) (597)	1-3/2-0	1-6/2-0	2-0/2-0				
(711) (699)	1-3/2-4	1-6/2-4	2-0/2-4	2-4/2-4			
(762) (749)	1-3/2-6	1-6/2-6	2-0/2-6	2-4/2-6	2-6/2-6		
(813) (800)	1-3/2-8	1-6/2-8	2-0/2-8	2-4/2-8	2-6/2-8	2-8/2-8	
(914) (902)	1-3/3-0	1-6/3-0	2-0/3-0	2-4/3-0	2-6/3-0	2-8/3-0 E ₃	3-0/3-0 E ₁
(1067) (1054)	1-3/3-6	1-6/3-6	2-0/3-6	2-4/3-6	2-6/3-6 E ₃	2-8/3-6 E ₂	3-0/3-6 E
(1118) (1105)	1-3/3-8	1-6/3-8	2-0/3-8	2-4/3-8	2-6/3-8 E ₂	2-8/3-8 E ₂	3-0/3-8 E
(1219) (1207)	1-3/4-0	1-6/4-0	2-0/4-0	2-4/4-0	2-6/4-0 E ₂	2-8/4-0 E ₂	3-0/4-0 E
(1372) (1359)	1-3/4-6	1-6/4-6	2-0/4-6	2-4/4-6	2-6/4-6 E ₂	2-8/4-6 E ₂	3-0/4-6 E
(1524) (1511)	1-3/5-0	1-6/5-0	2-0/5-0	2-4/5-0	2-6/5-0 E ₂	2-8/5-0 E ₂	3-0/5-0 E
(1676) (1664)	1-3/5-6	1-6/5-6	2-0/5-6	2-4/5-6	2-6/5-6 E ₂	2-8/5-6 E ₂	3-0/5-6 E
(1829) (1816)	1-3/6-0	1-6/6-0	2-0/6-0	2-4/6-0	2-6/6-0 E ₂	2-8/6-0 E ₂	3-0/6-0 E

Egress Notes:
 Check all applicable local codes for emergency egress requirements.

- E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².
- E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².
- E2 = With optional side pivot hardware, window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².
- E3 = With optional side pivot hardware, window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

Not to scale.



CASEMENT

SIZE TABLES

Fixed Units



	(457) (445)	(457) (445)	(610) (597)	(711) (699)	(762) (749)	(813) (800)	(914) (902)	(1 219) (1 207)	(1 372) (1 359)	(1 524) (1 511)	(1 829) (1 816)
Opening	1' 4 1/2"	1' 6"	2' 0"	2' 4"	2' 6"	2' 8"	3' 0"	4' 0"	4' 6"	5' 0"	6' 0"
Frame	16"	17 1/2"	23 1/2"	27 1/2"	29 1/2"	31 1/2"	35 1/2"	47 1/2"	53 1/2"	59 1/2"	71 1/2"
1' 3"	1-4/1-3	1-6/1-3	2-0/1-3	2-4/1-3	2-6/1-3	2-8/1-3	3-0/1-3	4-0/1-3	4-6/1-3	5-0/1-3	6-0/1-3
1' 6"	1-4/1-6	1-6/1-6	2-0/1-6	2-4/1-6	2-6/1-6	2-8/1-6	3-0/1-6	4-0/1-6	4-6/1-6	5-0/1-6	6-0/1-6
2' 0"	1-4/2-0	1-6/2-0	2-0/2-0	2-4/2-0	2-6/2-0	2-8/2-0	3-0/2-0	4-0/2-0	4-6/2-0	5-0/2-0	6-0/2-0
2' 4"	1-4/2-4	1-6/2-4	2-0/2-4	2-4/2-4	2-6/2-4	2-8/2-4	3-0/2-4	4-0/2-4	4-6/2-4	5-0/2-4	6-0/2-4
2' 6"	1-4/2-6	1-6/2-6	2-0/2-6	2-4/2-6	2-6/2-6	2-8/2-6	3-0/2-6	4-0/2-6	4-6/2-6	5-0/2-6	6-0/2-6
2' 8"	1-4/2-8	1-6/2-8	2-0/2-8	2-4/2-8	2-6/2-8	2-8/2-8	3-0/2-8	4-0/2-8	4-6/2-8	5-0/2-8	6-0/2-8
3' 0"	1-4/3-0	1-6/3-0	2-0/3-0	2-4/3-0	2-6/3-0	2-8/3-0	3-0/3-0	4-0/3-0	4-6/3-0	5-0/3-0	6-0/3-0
3' 6"	1-4/3-6	1-6/3-6	2-0/3-6	2-4/3-6	2-6/3-6	2-8/3-6	3-0/3-6	4-0/3-6	4-6/3-6	5-0/3-6	6-0/3-6
3' 8"	1-4/3-8	1-6/3-8	2-0/3-8	2-4/3-8	2-6/3-8	2-8/3-8	3-0/3-8	4-0/3-8	4-6/3-8	5-0/3-8	6-0/3-8
4' 0"	1-4/4-0	1-6/4-0	2-0/4-0	2-4/4-0	2-6/4-0	2-8/4-0	3-0/4-0	4-0/4-0	4-6/4-0	5-0/4-0	6-0/4-0
4' 6"	1-4/4-6	1-6/4-6	2-0/4-6	2-4/4-6	2-6/4-6	2-8/4-6	3-0/4-6	4-0/4-6	4-6/4-6	5-0/4-6	6-0/4-6
5' 0"	1-4/5-0	1-6/5-0	2-0/5-0	2-4/5-0	2-6/5-0	2-8/5-0	3-0/5-0	4-0/5-0	4-6/5-0	5-0/5-0	6-0/5-0
5' 6"	1-4/5-6	1-6/5-6	2-0/5-6	2-4/5-6	2-6/5-6	2-8/5-6	3-0/5-6	4-0/5-6	4-6/5-6	5-0/5-6	6-0/5-6
6' 0"	1-4/6-0	1-6/6-0	2-0/6-0	2-4/6-0	2-6/6-0	2-8/6-0	3-0/6-0	4-0/6-0	4-6/6-0	5-0/6-0	6-0/6-0

Not to scale.