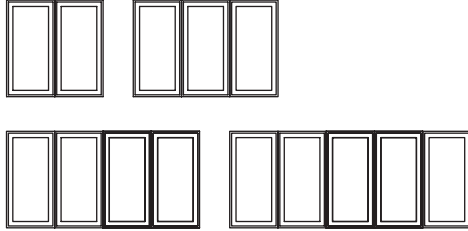


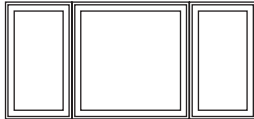
Casement

Multiple Casement Combos



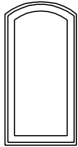
To Figure Rough Opening for multiple units, take the total R.O. width or height of the all units and subtract 7/16" for each mull.

Casement Triple Picture



To Figure Rough Opening for multiple units, take the total R.O. width or height of the all units and subtract 7/16" for each mull.

Casement Segment Head Unit



Radius equal to unit width.
Unit utilizes butt hinges and a single arm operator.
Operating units available in all casement heights and widths.

All casements meet DP-50.
































































Shaded elevations meet UBC and IBC egress codes (5.7 sq. ft., 20" width, 24" height minimum) in standard 6'10" header application.

Shaded elevations with * indicate units meeting egress with the use of egress hardware.

Transoms are available for all casement windows in 12", 18" and 24" rough opening heights.

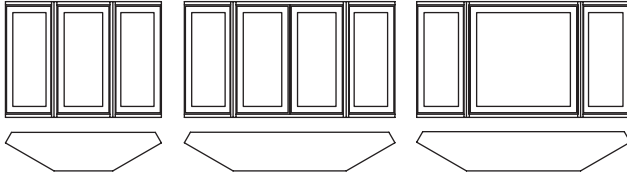
R.O.		18"	20"	24"	30"	36"
	U.D.	17-1/2"	19-1/2"	23-1/2"	29-1/2"	35-1/2"
24"	23-1/2"					
30"	29-1/2"					
36"	35-1/2"					
42"	41-1/2"					
48"	47-1/2"					
54"	53-1/2"					
60"	59-1/2"					
66"	65-1/2"					
72"	71-1/2"					

Casement- Studio

R.O.	36"	42"	48"	60"	72"	84"	96"
U.D.	35-1/2"	41-1/2"	47-1/2"	59-1/2"	71-1/2"	83-1/2"	95-1/2"
24"							
30"							
36"							
42"							
48"							
54"							
60"							
66"							
72"							

ELEVATIONS

Casement 30° Angle Bay Units



30° UNIT DIMENSION WIDTH FORMULA

Use center frame dimension, not rough opening

18" Flankers + Center Box(s) = Unit Dimension
 $16-15/16" + 16-15/16" + \text{Center} = \text{Unit Dimension}$

20" Flankers + Center Box(s) = Unit Dimension
 $18-1/16" + 18-1/16" + \text{Center} = \text{Unit Dimension}$

24" Flankers + Center Box(s) = Unit Dimension
 $22-1/8" + 22-1/8" + \text{Center} = \text{Unit Dimension}$

30" Flankers + Center Box(s) = Unit Dimension
 $26-5/16" + 26-5/16" + \text{Center} = \text{Unit Dimension}$

30° ROUGH OPENING FORMULAS

Unit Dimension + 1/2" = Rough Opening Width

Unit R.O. Height + 1-3/8" = Bay R.O. Height

30° ANGLE BAY PROJECTIONS

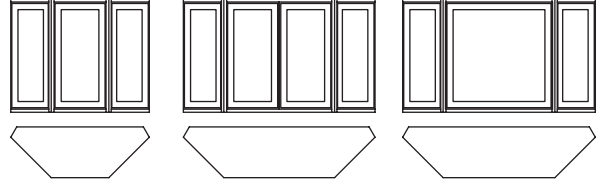
18" = 10-1/4"

20" = 11-1/4"

24" = 13-1/4"

30" = 16-1/4"

Casement 45° Angle Bay Units



45° UNIT DIMENSION WIDTH FORMULA

Use center frame dimension, not rough opening

18" Flankers + Center Box(s) = Unit Dimension
 $14-11/16" + 14-11/16" + \text{Center} = \text{Unit Dimension}$

20" Flankers + Center Box(s) = Unit Dimension
 $16-1/8" + 16-1/8" + \text{Center} = \text{Unit Dimension}$

24" Flankers + Center Box(s) = Unit Dimension
 $19" + 19" + \text{Center} = \text{Unit Dimension}$

30" Flankers + Center Box(s) = Unit Dimension
 $23-3/16" + 23-3/16" + \text{Center} = \text{Unit Dimension}$

45° ROUGH OPENING FORMULAS

Unit Dimension + 1/2" = Rough Opening Width

Standard R.O. Height + 1-3/8" = Bay R.O. Height

45° ANGLE BAY PROJECTIONS

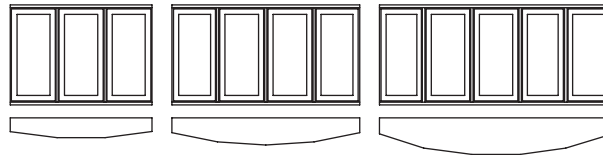
18" = 14-3/16"

20" = 15-5/8"

24" = 18-7/8"

30" = 22-11/16"

Casement Bow Units



3-WIDE ROUGH OPENINGS

18" width = $53-13/16" \cdot 20" = 59-3/4"$

24" width = $71-11/16" \cdot 30" = 89-1/2"$

4-WIDE ROUGH OPENINGS

18" width = $71-13/16" \cdot 20" = 79-3/4"$

24" width = $94-11/16" \cdot 30" = 118-1/2"$

5-WIDE ROUGH OPENINGS

18" width = $88-3/8" \cdot 20" = 98-1/8"$

24" width = 117-5/8"

*Add 1-3/8" to Standard Rough Opening Height
for Bow Rough Opening Height*