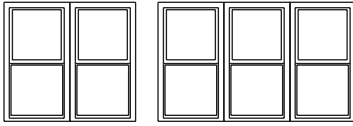


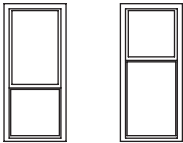
## Double Hung

### Multiple Double Hung Units



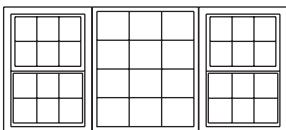
To Figure Rough Opening for multiple units, take the total R.O. width or height of the all units and subtract 7/16" for each mull.

### Double Hung Oriel and Cottage Style



Standard Oriel and Cottage style units are only produced in 66", 72" and 78" overall unit heights.

### Triple Picture Double Hung Unit



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.

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

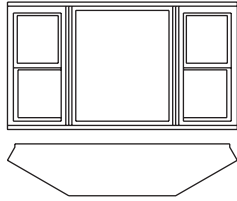
Shaded elevations meet UBC and IBC egress codes (5.7 sq. ft., 20" width, 24" height minimum) in standard 6'10" header application.

R.O.	18"	24"	30"	32"	36"	38"	40"	42"	48"
U.D.	17-1/2"	23-1/2"	29-1/2"	31-1/2"	35-1/2"	37-1/2"	39-1/2"	41-1/2"	47-1/2"
36"	35-1/2"								
42"	41-1/2"								
48"	47-1/2"								
54"	53-1/2"								
60"	59-1/2"								
63"	62-1/2"								
66"	65-1/2"								
72"	71-1/2"								
78"	77-1/2"								
84"	83-1/2"								

## Double Hung Studio

R.O.	24"	30"	36"	42"	48"	60"	70"	84"	96"
U.D.	23-1/2"	29-1/2"	35-1/2"	41-1/2"	47-1/2"	59-1/2"	69-1/2"	83-1/2"	95-1/2"
30"	29-1/2"								
36"	35-1/2"								
42"	41-1/2"								
48"	47-1/2"								
54"	53-1/2"								
60"	59-1/2"								
63"	62-1/2"								
66"	65-1/2"								
72"	71-1/2"								
78"	77-1/2"								
84"	83-1/2"								

## ***Double Hung 30° Angle Bay Units***



### **30° UNIT DIMENSION WIDTH FORMULA**

Use center frame dimension, not rough opening

**18" Flankers + Center Box(s) = Unit Dimension**  
 $17" + 17" + \text{Center} = \text{Unit Dimension}$

**24" Flankers + Center Box(s) = Unit Dimension**  
 $22\text{-}3/16" + 22\text{-}3/16" + \text{Center} = \text{Unit Dimension}$

**30" Flankers + Center Box(s) = Unit Dimension**  
 $27\text{-}3/8" + 27\text{-}3/8" + \text{Center} = \text{Unit Dimension}$

### **30° ROUGH OPENING FORMULAS**

Unit Dimension +  $1/2"$  = Rough Opening Width  
Standard R.O. Height +  $1\text{-}3/8"$  = Bay R.O. Height

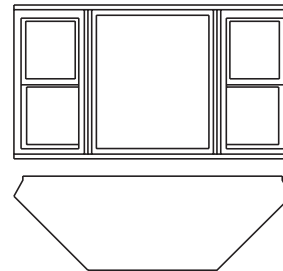
### **30° ANGLE BAY PROJECTIONS**

18" =  $10\text{-}3/4"$

24" =  $13\text{-}3/4"$

30" =  $16\text{-}3/4"$

## ***Double Hung 45° Angle Bay Units***



### **45° UNIT DIMENSION WIDTH FORMULA**

Use center frame dimension, not rough opening

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

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

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

### **45° ROUGH OPENING FORMULAS**

Unit Dimension +  $1/2"$  = Rough Opening Width  
Standard R.O. Height +  $1\text{-}3/8"$  = Bay R.O. Height

### **45° ANGLE BAY PROJECTIONS**

18" =  $14\text{-}7/16"$

24" =  $18\text{-}11/16"$

30" =  $22\text{-}7/8"$