

451/461 2 and 3-Lite Sliding Window

Features:

- Beautiful, true brick mould exterior frame perimeter
- Aluminum-reinforced lock rail and meeting rails add strength
- Integrated glide rail allows easy sash opening and closing
- Available in XO or OX configurations
- Tandem rollers ride easily along friction free glide channel
- Integrated J-channel (Series 461 available without J-channel)
- Insulated glass panels featuring warm-edge spacer system
- Half screen comes standard
- Charcoal fiberglass mesh screen
- Jamb depth: 3.868"
- Limited lifetime warranty

Custom Options:

- Low-E Glass
- Low-E Glass with Argon Gas
- Ultra Low-E Glass with Argon Gas
- 5/8" or 3/4" flat, 5/8" or 1" contoured, 1 1/8" simulated divided lite (SDL), 5/8" contoured valance grids available
- Paintable or stainable wood jamb extensions (4 9/16" and 6 9/16")
- Brass or brushed nickel locks
- Charcoal aluminum mesh screen
- Nine exterior painted colors (white interior only)
- Custom sizes available

Product Performance:

AAMA 101 Results:

| Window Size | AAMA Rating (psf) | Air (cfm/ft ²) | Water (psf) |
|-------------|-------------------|----------------------------|-------------|
| 70" x 49" | HS-R25 | 0.14 | 3.76 |

Product Dimensions:

| | |
|-----------------------|---------|
| Vinyl Wall Thickness: | 0.065" |
| Glass Thickness: | 0.750" |
| Jamb Depth: | 3.250" |
| Nail Fin Setback: | 2.1875" |

Rough Opening:

Window Width + 1/2"
 Window Height + 1/2"

2-Lite Slider Size Restrictions:

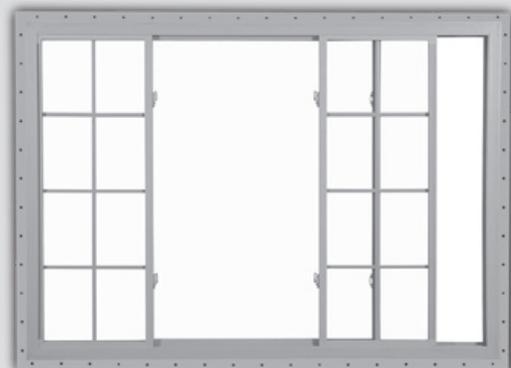
| | Min: | Max: |
|--------|---------|---------|
| Width | 23 1/8" | 83 1/8" |
| Height | 17 3/4" | 73 1/4" |

(Max. United Inches 132")

3-Lite Slider Size Restrictions:

| | Min: | Max: |
|--------|---------|---------|
| Width | 60" | 120" |
| Height | 17 3/4" | 73 1/4" |

Width restrictions for 1/3, 1/3, 1/3 configuration:
 54" 90"
 (Max. United Inches 158")



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Egress Formulas:

Egress Width $\geq 20"$ and Egress Height $\geq 24"$ and Egress Area ≥ 5.7 ft² required to meet egress.

Egress Width Formula = (Window Width/2) – 5.5625" (XX)
 (Window Width/3) – 5.6875" (XOX 1/3 1/3 1/3)
 (Window Width/4) – 2.5625" (XOX 1/4 1/2 1/4)

Egress Height Formula = Window Height – 5.375"

Egress Area Formula = (Egress Width x Egress Height)/144

Screen Formulas:

(Window Width/2) – 2.125" (1/3,1/3,1/3)
 (Window Width .3333) – 1.5" (1/4,1/2,1/4)
 (Window Width/4) – 1.375"
 Window Height – 4.25"

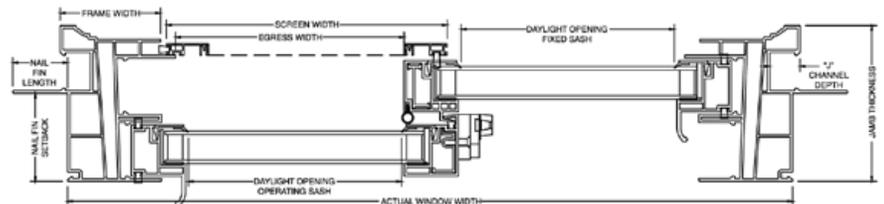
Series
451
Vertical
Diagram



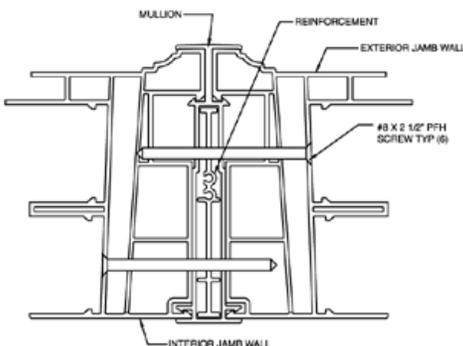
Series
461
Vertical
Diagram



Series 451 Horizontal Diagram



Mullion Assembly:



Series 461 Horizontal Diagram

