

450/460 Double Hung Window

Features:

- Beautiful, true brick mould exterior frame perimeter
- Both sashes tilt in for easy cleaning
- Insulated glass panels with optimum thermal air space featuring warm-edge spacer system
- DP 35 rating (available with DP 50 option)
(window size tested 36 x 74)
- Series 455/465 DP 50 rating (window size tested 36 x 74)
- Integrated J-channel
(Series 460 available without J-channel)
- Pre-punched nail fin makes installation simple
- Block & tackle balance system
- Half screen comes standard
- Low profile lock (two standard at 27 1/4")
- Charcoal fiberglass mesh screen
- Jamb depth: 3.868"
- Limited lifetime warranty

Custom Options:

- Low-E Glass
- Low-E Glass + Argon Gas
- Ultra Low-E Glass + Argon Gas
- Dual push-button night vents for secure ventilation
- 5/8" or 3/4" flat, 5/8" or 1" contoured, 1 1/8" simulated divided lite (SDL), 5/8" contoured valance grids available
- 3 1/4" flat casing with bull nose
- Paintable or stainable wood jamb extensions
(4 9/16" and 6 9/16")
- Brass or brushed nickel locks
- Charcoal aluminum mesh screen
- Window Opening Control Device (for fall prevention)
- 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) |
|--------------------------------|-------------------|----------------------------|-------------|
| 36" x 74" (DH) | H-R35 | 0.02 | 7.52 |
| 48" x 78" (DH) | H-R30 | 0.02 | 7.52 |
| 108" x 74" (Cont. Head & Sill) | H-R35 | 0.16 | 7.52 |
| 36" x 74" (DHDP) | H-R50 | 0.02 | 7.52 |
| 108" x 74" (DHTRCHS) | H-R50 | 0.16 | 7.52 |
| 50" x 86" (PW/HR/FR/OC/SS) | F-R50 | 0.01 | 7.52 |
| 109 x 74 (Mulled Triple) | H-R45 | 0.16 | 7.52 |

Product Dimensions:

Vinyl Wall Thickness:

Sash: 0.070"

Frame: 0.065"

Glass Thickness: 0.750"

Jamb Depth: 3.868"

Nail Fin Setback: 2.1875"

Rough Opening:

Window Width + 1/2"

Window Height + 1/2"

Size Restrictions:

| | Min: | Max: |
|--------|---------|---------|
| Width | 17 3/4" | 53 1/4" |
| Height | 26" | 90 5/8" |

(Max. United Inches 126")



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Egress Formulas:

Egress Width $\geq 20"$ and Egress Height $\geq 24"$ and Egress Area $\geq 5.7 \text{ ft}^2$ required to meet egress.

Egress Width Formula = Window Width - 4.75"

Egress Height Formula = (Window Height/2) - 5.5625"

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

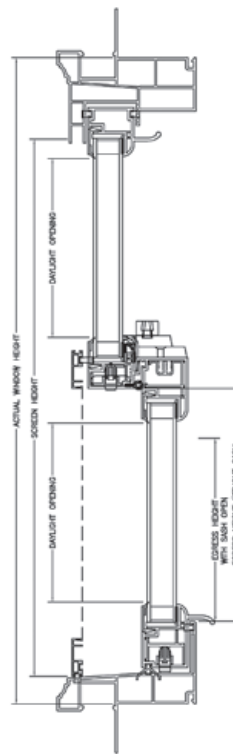
Screen Formulas:

Window Width - 4.4375" (Full Screen)

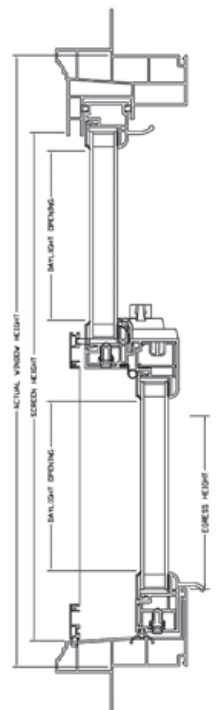
Window Height - 3.3125" (Full Screen)

Window Height/2 (1/2 Screen)

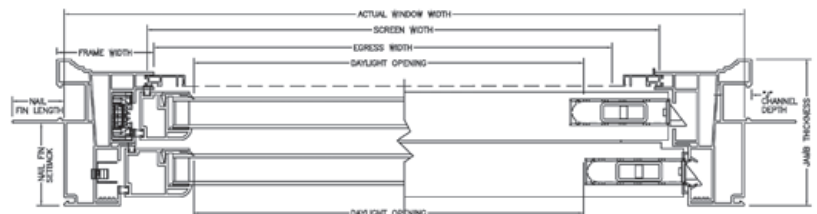
Series
450
Vertical
Diagram



Series
460
Vertical
Diagram



Series 450 Horizontal Diagram



Series 460 Horizontal Diagram



Mullion Assembly:

