

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 and 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 with Argon Gas
- Ultra Low-E Glass with 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 and Sill)	H-R35	0.12	7.52
36" x 74" (DHDP)	H-R50	0.02	7.52
108" x 74" (DHTRCHS)	H-R50	0.12	7.52
50" x 86" (PW/HR/FR/OC/SS)	F-R50	0.01	7.52
109 x 74 (Mulled Triple)	H-R50	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

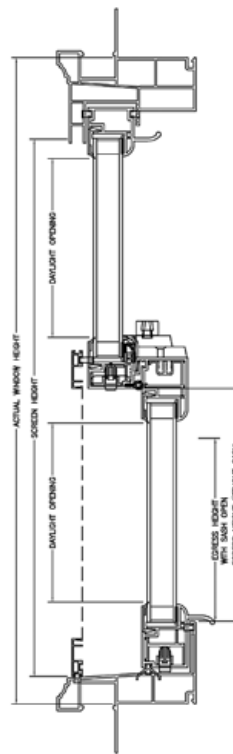
Screen Formulas:

Window Width - 4.4375" (Full Screen)

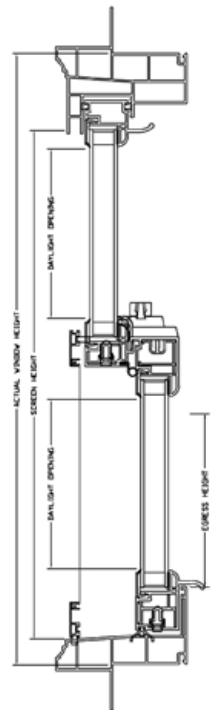
Window Height - 3.3125" (Full Screen)

Window Height/2 (1/2 Screen)

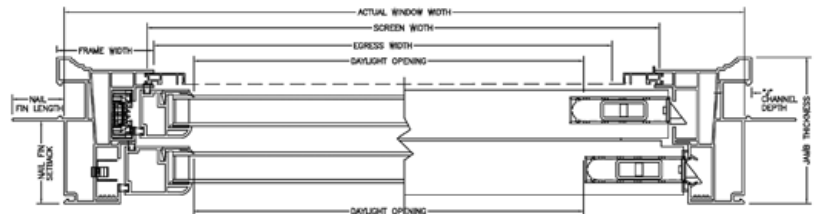
Series
450
Vertical
Diagram



Series
460
Vertical
Diagram



Series 450 Horizontal Diagram



Series 460 Horizontal Diagram



Mullion Assembly:

