

**Multi-chambered vinyl lineals**

improve thermal performance and enhance sound absorbency

**Fusion welded frame and sash**

minimizes water and air infiltration and enhances overall durability

**Brickmold frame with integral J-Channel**

provides traditional beauty and eases siding installation and brick application



**Integral tilt latch**

preserves the edge of the sash for added strength

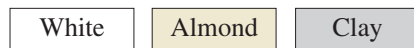
**Tilt-in operable sash**

makes glass cleaning a breeze

**Modular sized**

so that rough opening widths for multiple units are easy to calculate:  
3050 Single=36"  
3050 Twin=72"  
3050 Triple=108"

**Available colors:**



(actual colors may vary)

**Pre-punched integral nailing-fin**

targets proper nail location for quick, easy installation

A full line of companion products, including horizontal sliding windows, picture windows, architectural shapes and patio doors is also available. Contact your Champion representative for details.

**1-3/8" Nail-fin setback**

for brick veneer construction and selected stucco applications

**Multiple lock options**

Composite cam-action sweep lock  
Positive action self-latching lock

**Metal reinforced meeting rail and sash rail**

provide added durability and enhanced security

**Dual weather-stripping**

helps block air and water infiltration, keeping harsh elements outside and energy-saving comfort inside

**Versatile half screen\***

installs easily from inside

**3/4" Insulated glass**

provides energy saving thermal efficiency. A host of glass options are available, including insulating Low-E coatings

**Optional decorative grids (including 1-3/16" SDL)**

complement numerous architectural styles

**Sloped-sill**

has additional weather guard interlock and drainage system to improve water run off

**Optional factory prep for security sensors**

avoids drilling of the frame and preserves product warranty

Note: Manufacturer reserves the right to substitute components as necessary for continued product improvement.

\*Screens are not meant to restrain a child from falling through an open window.

## Series 85 Vinyl Single Hung Performance Data

### Air, Water & Structural & Forced Entry Performance

































































Structural Load*	DP 50 (44" x 72"), DP 45 (48" x 84") per ASTM E 330
Water Resistance	7.5 psf per ASTM E 547
Air Infiltration	0.03 cfm/ft <sup>2</sup> per ASTM E 283
Forced Entry	Passed at Grade 10 per ASTM F 588

\*Performance reported for a single unit configuration at sizes indicated. Ratings may vary for other sizes and configurations. Contact your Champion representative for details.

### Thermal Performance

	U-Factor			SHGC		
	Clear	Grids	SDL	Clear	Grids	SDL
Clear Glass	0.49	0.49	0.49	0.63	0.56	0.50
Low E 270	0.35	0.35	0.35	0.30	0.27	0.24
Low E366	0.34	0.34	0.34	0.22	0.20	0.18

## Series 85 Vinyl Single Hung Window Size Chart

Rough Opening	18"	24"	30"	32"	36"	42"	44"	48"
Exact Size	17.5"	23.5"	29.5"	31.5"	35.5"	41.5"	43.5"	47.5"
36"								
44"								
48"								
52"								
60"								
72"								
84"								
96"								

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**1-3/8" Nail-fin setback**

Brick veneer construction and selected stucco applications

**Versatile half screen\***

installs easily from inside

**Metal reinforced meeting rail and sash rail**

provide added durability and enhanced security

**Optional factory prep for security sensors**

avoids drilling of the frame and preserves product warranty

**Dual weather-stripping**

helps block air and water infiltration, keeping harsh elements outside and energy-saving comfort inside

**3/4" Insulated glass**

provides energy saving thermal efficiency. A host of glass options are available, including insulating Low-E coatings

**Available colors:**



(actual colors may vary)

**Multiple lock options**

Composite cam-action sweep lock  
Positive action self-latching lock

**Multi-cavity vinyl lineals**

improve thermal performance and enhance sound absorbency

**Tandem wheel and axle roller assemblies**

ensure smooth, easy operation on even the largest sizes

**Brickmold frame with integral J-Channel**

provides traditional beauty and eases siding installation and brick application



**Optional decorative grids (including 1-3/16" SDL)**

complement numerous architectural styles

**Fusion welded frame and sash**

minimizes water and air infiltration and enhances overall durability

**Modular sized**

so that rough opening widths for multiple units are easy to calculate:

3050 Single=36"

3050 Twin=72"

3050 Triple=108"

**Pre-punched integral nailing-fin**

targets proper nail location for quick, easy installation

A full line of companion products, including single hung windows, picture windows, architectural shapes and patio doors is also available. Contact your Champion representative for details.

Note: Manufacturer reserves the right to substitute components as necessary for continued product improvement.

\*Screens are not meant to restrain a child from falling through an open window.

## Series 85 Vinyl Horizontal Rolling Window Performance Data

### Air, Water & Structural & Forced Entry Performance

Structural Load*	DP xx (yy4" x yy"), DP zz (tt" x tt") per ASTM E 330
Water Resistance	x.x psf per ASTM E 547
Air Infiltration	y.yy cfm/ft <sup>2</sup> per ASTM E 283
Forced Entry	Passed at Grade 10 per ASTM F 588

\*Performance reported for a single unit configuration at sizes indicated. Ratings may vary for other sizes and configurations. Contact your Champion representative for details.
































































### Thermal Performance

	U-Factor			SHGC		
	Clear	Grids	SDL	Clear	Grids	SDL
Clear Glass	x.xx	x.xx	x.xx	x.xx	x.xx	x.xx
Low E 270	x.xx	x.xx	x.xx	0.30	0.27	0.24
Low E 270 Argon Fill	x.xx	x.xx	x.xx	0.29	0.27	0.24
Low E366	x.xx	x.xx	x.xx	0.22	0.20	0.18
Low E366 Argon Fill	x.xx	x.xx	x.xx	0.22	0.20	0.18

## Series 85 Vinyl Horizontal Rolling Window Size Chart

### 2-Lite Configuration (OX / XO)

### 3-Lite Configuration (XOX)

	Rough Opening	24"	36"	48"	60"	72"		72"	84"	96"	108"
	Exact Size	23.5"	35.5"	47.5"	59.5"	71.5"		71.5"	83.5"	95.5"	107.5"
12"											
		2010	3010	4010	5010	6010		6010	7010	8010	9010
18"											
		2016	3016	4016	5016	6016		6016	7016	8016	9016
24"											
		2020	3020	4020	5020	6020		6020	7020	8020	9020
36"											
		2030	3030	4030	5030	6030		6030	7030	8030	9030
48"											
		3040	4040	5040	6040	6040		7040	8040	9040	
60"											
		4050	5050	6050	6050	6050		7050	8050	9050	
72"											
		5060	6060	6060	6060	6060		7060	8060	9060	

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