

Established in 1848, Hancock Lumber Company is a 6th generation, family-owned business operating a timberland company, a sawmill division, a network of retail lumberyards & home design showrooms, and a truss manufacturing facility.

Led by their 530 employees, Hancock has four times been selected as a 'Best Places to Work in Maine', and was recognized as the 2017 national ProSales 'Dealer of the Year'. Four of their locations have received OSHA's highest safety level, earning SHARP certifications at their Casco, Bethel and Pittsfield sawmills, as well as the Bridgton lumberyard. The company is also a past recipient of the Maine Family Business of the Year Award, the Governor's Award for Business Excellence, and the MITC 'Exporter of the Year' award. To learn more, please visit www. HancockLumber.com.

Mathews Brothers Company, founded in 1854, is America's Oldest Window

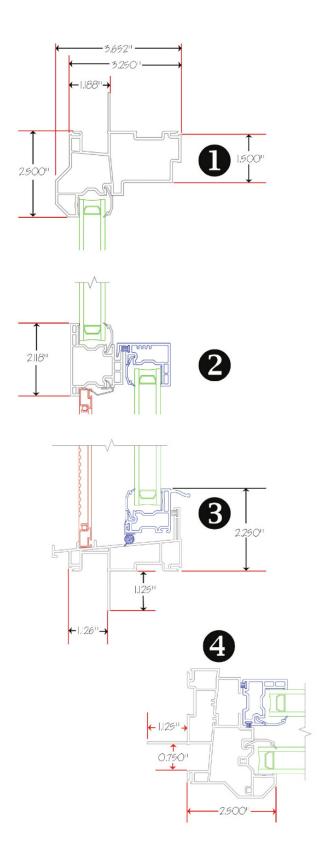
Manufacturer. Together, these two Maine-based companies have been in business over

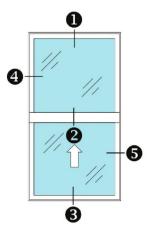
230 years, employing Maine people, and manufacturing Maine-made products, all

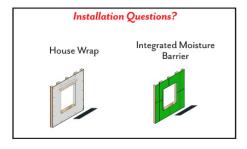
with a commitment to quality and service with will remain for generations to come.

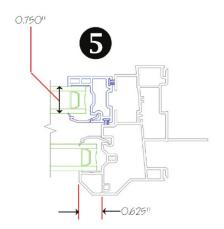
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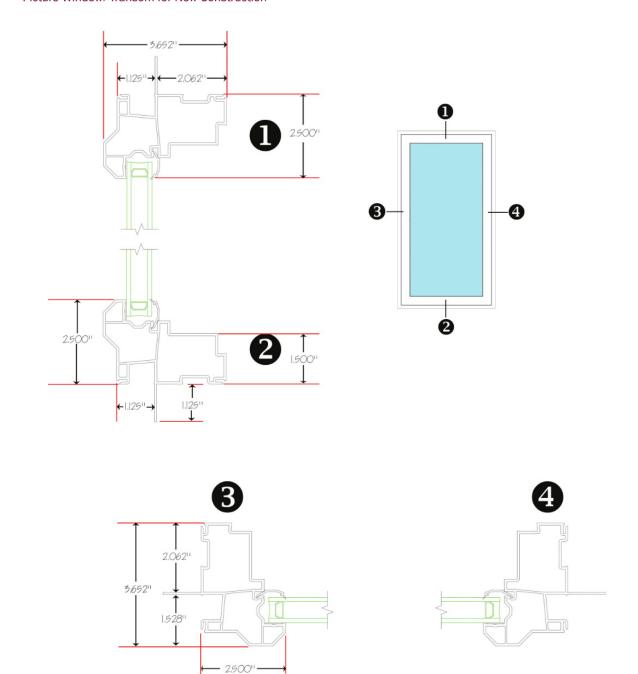


Single Hung Details hancocklumber.com 21

Replacement Windows

Each window is custom built to your specifications.

Picture Window/Transom for New Construction

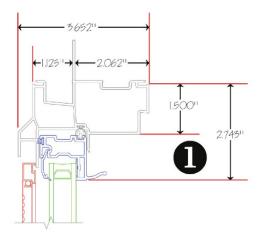


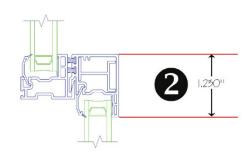
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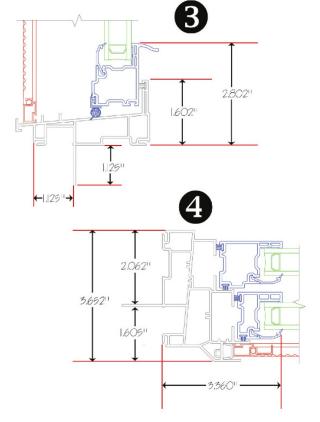
Fixed Unit Details

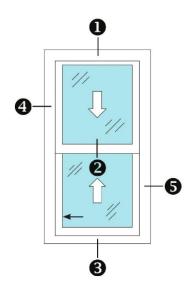
Double-Hung Windows for New Construction Low profile sill shown

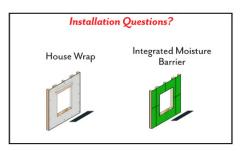
Double-Hung Windows for Replacement

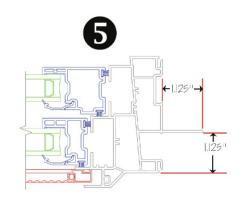


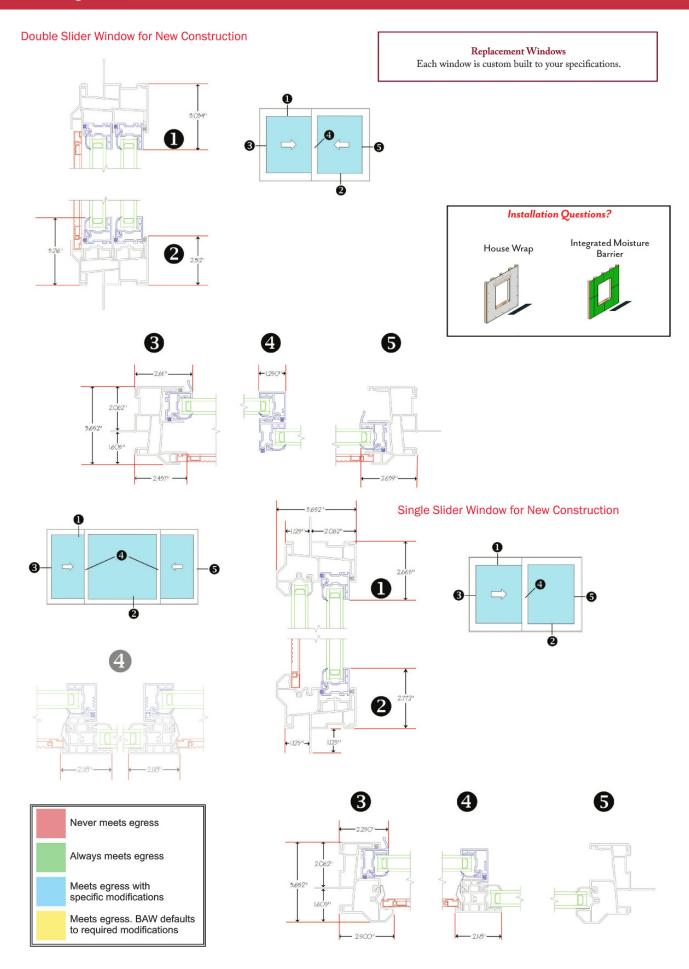




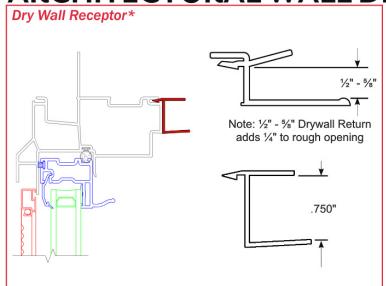


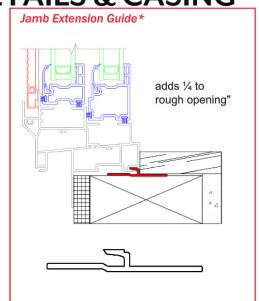


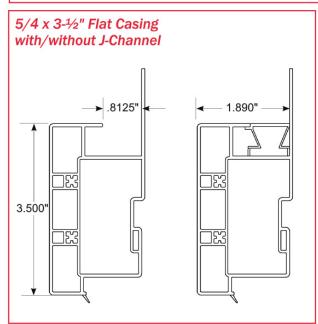


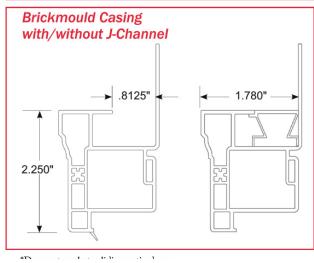


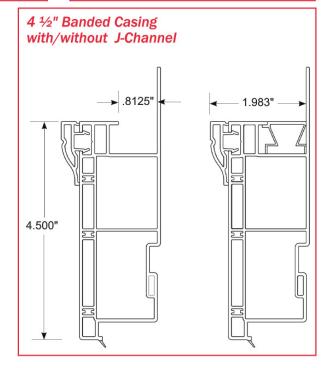
ARCHITECTURAL WALL DETAILS & CASING

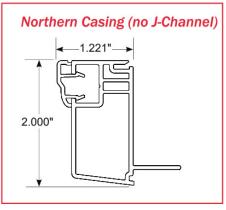




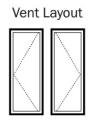




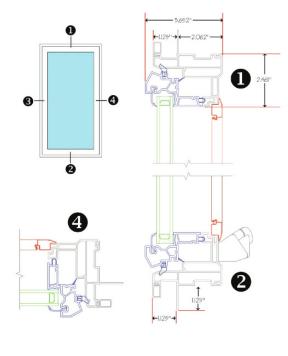




59 %" 24 1/2" 30 1/2 CA3624-2 CA3024-2 CA3036-2 CA3636-2 41 ½" 41 ½" 36 ½" CA3042-2 CA3642-2 53 ½" 48 ½" CA3054-2 CA3654-2 59 ½" 59 ½" 54 ½" CA3060-2 CA3660-2 65 1/2 65 1/2 60 1/2 CA3066-2 CA3666-2







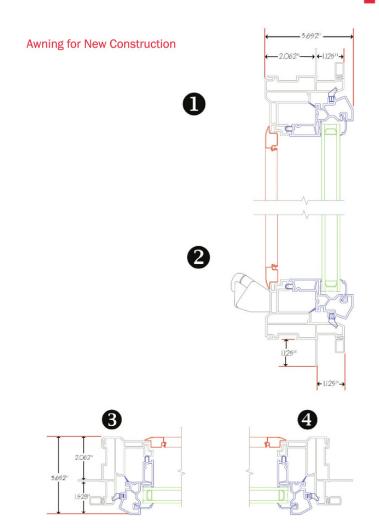
Replacement Windows

Each window is custom built to your specifications.

AWNING WINDOWS STANDARD SIZES & ARCHITECTURAL DETAILS

Awning Window Standard Sizes Custom sizes available

24"	36" 35.1%"	42"	48" 47.1%"	54" 53.1%"	60" 59.1/4"	
18 ½"	30 ½"	36 ½"	42 ½"	48 ½"	54 ½"	
AW2418	AW3618	AW4218	AW4818	AW5418	AW6018	18" 17 ½" 12 °/ ₁₆ "
AW2420	AW3620	AW4220	AW4818	AW5420	AW6020	20" 19 ½" 14 ⁹ / ₁₆ "
AW2424	AW3624	AW4224	AW4824	AW5424	AW6024	24" 23 ½" 18 ⁹ /16"
AW2428	AW3628	AW4228	AW4828	AW5428	AW6028	28" 27 ½" 22 ⁹ / ₁₆ "
AW2436	AW3636	AW4236	AW4836	AW5436	AW6036	36" 35 ½" 30 %
	23 ½" 18 ½" AW2418 AW2420 AW2424	23 ½" 35 ½" 18 ½" 30 ½" AW2418 AW3618 AW2420 AW3620 AW2424 AW3624 AW2428 AW3628	23 ½" 35 ½" 41 ½" 18 ½" 30 ½" 36 ½" AW2418 AW3618 AW4218 AW2420 AW3620 AW4220 AW2424 AW3624 AW4224 AW2428 AW3628 AW4228	23 ½" 35 ½" 41 ½" 47 ½" 18 ½" 30 ½" 36 ½" 42 ½" AW2418 AW3618 AW4218 AW4818 AW2420 AW3620 AW4220 AW4818 AW2424 AW3624 AW4224 AW4824 AW2428 AW3628 AW4228 AW4828	23 ½" 35 ½" 41 ½" 47 ½" 53 ½" 18 ½" 30 ½" 36 ½" 42 ½" 48 ½" AW2418 AW3618 AW4218 AW4818 AW5418 AW2420 AW3620 AW4220 AW4818 AW5420 AW2424 AW3624 AW4224 AW4824 AW5424 AW2428 AW3628 AW4228 AW4828 AW5428	23 ½" 35 ½" 41 ½" 47 ½" 53 ½" 59 ½" 18 ½" 30 ½" 36 ½" 42 ½" 48 ½" 54 ½" AW2418 AW3618 AW4218 AW4818 AW5418 AW6018 AW2420 AW3620 AW4220 AW4818 AW5420 AW6020 AW2424 AW3624 AW4224 AW4824 AW5424 AW6024 AW2428 AW3628 AW4228 AW4828 AW5428 AW6028



FIXED UNIT STANDARD SIZES & ARCHITECTURAL DETAILS

Picture (Fixed) Windows Standard Sizes *Custom sizes available*

Rough Opening Unit Size	40" 39 ½"	42" 41 ½"	44" 43 ½"	48" 47 ½"	60" 59 ½"	72 " 71½"	
Exposed Glass	34 ½" PW4036	36 ½" PW4236	38 ½" PW4436	42 ½" PW4836	54 ½" PW6036	65 ½" PW7236	36" 35 ½" 30 ½"
	PW4042	PW4242	PW4442	PW4842	PW6042	PW7242	42" 41 ½ 36 ½"
	PW4048	PW4248	PW4448	PW4848	PW6048	PW7248	48" 47 ½" 42 ½"
	PW4054	PW4254	PW4454	PW4854	PW6054	PW7254	54" 53 ½" 48 ½"
	PW4060	PW4260	PW4460	PW4860	PW6060	PW7260	60" 59 ½" 54 ½"
	PW4066	PW4266	PW4466	PW4866	PW6066		66" 65 ½" 60 ½"
	PW4072	PW4272	PW4472	PW4872	PW6072		72" 71 ½" 66 ½"

- Grille patterns for 60-inch and 66-inch picture windows will vary:
 - " Casement picture windows are 5 lites high.
 - " Single-hung and double-hung picture windows are 4 lites high.
 - Grille patterns in picture units will match single-hung or double-hung when ordered in that combination.

Transom Window Standard Sizes

Custom sizes available

*	Rough Opening	28"	32"	36"	40"	44"	48"	56"	64"	72"	96 "	108"	110"	
	Unit Size	27 1/2"	31 1/2"	35 1/2"	39 1/2"	43 1/2"	47 1/2"	55 1/2"	63 1/2"	71 1/2"	95 1/2"	107 1/2"	109 1/2"	
	Exposed Glass	22 1/2"	26 1/2"	30 1/2"	34 1/3"	38 1/2"	42 1/2"	50 1/2"	58 1/2"	66 1/2"	90 1/2"	102 1/3"	104 1/2"	16
		TR2814	TR3214	TR3614	TR4014	TR4414	TR4814	TR5614	TR6414	TR7214	TR9614	TR10814	TR11014	13½" 8½"
		TR2818	TR3218	TR3618	TR4018	TR4418	TR4818	TR5618	TR6418	TR7218				18" 17 ½" 12 ½"
		TR2824	TR3224	TR3624	TR4024	TR4424	TR4824	TR5624	TR6424	TR7224				24" 23 %" 18 %"

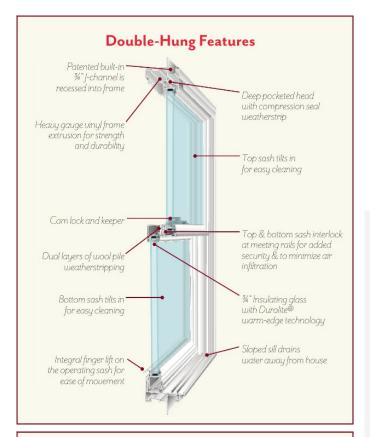
Notes:

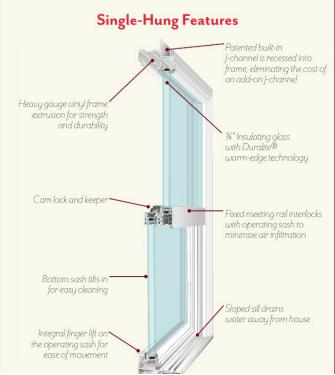
Both Picture Windows and Transom call out sizes are calculated in inches.

Grilles are optional and shown in colonial pattern as viewed from outside.

*Check with fabricator for rough opening when mulling.

VERTICAL SLIDE -SINGLE/DOUBLE HUNG







Standard features

- " 34" insulating glass with Duralite® warm-edge technology/Low-E glass^[1]/Argon gas fill.
- "Integral nailing fin [new construction only] provides air and water seal around frame. (Frames come with integral nailing fin that can be easily removed for insert application.)
- " Equal glass size on sash emulate traditional wood appearance.
- " Jamb covers for a neater interior appearance.
- " Integral 3/4" J-channel speeds installation.
- "Fusion-welded frame and sash for added strength.
- " Constant force balance system ensures easy sash operation.
- " White interior and exterior frame and sash with color-matched hardware.
- " Pre-sloped sills for water runoff.
- " BetterVue® insect screen.

Additional features

- "Non-corrosive hardware includes a lifetime of trouble-free performance, no matter what the environment.
- "Cam-action lock action draws sashes closer for a tighter positive lock.
- " Integral interlocking meeting rail provides additional security

Optional features^[2]

- " Desert Sand interior and exterior color with colored matched hardware
- "Grilles available as Grilles Between Glass or Simulated Divided Lites
- " |-channel cover
- " ¾" Drywall return
- " Extension Jambs
- " Window Opening Control Device[3]
- " Exterior trim/casing
- " Pediment Head (Rectangles only; not available for radius or polygon)
- " Custom exterior color finishes

¹ One pane Low-E glass and one pane clear glass.

² See pages 14-15 for additional options.

SHAPE UNITS STANDARD SIZES & ARCHITECTURAL DETAILS

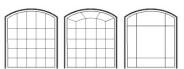
Extended Arch (Fixed) & Eyebrow Standard Sizes

Custom sizes available

Gustom sizes avi	ailable						640000		
Chord Height (approx) Radius	4 %" 18"	5 1/s" 21"	5 1/8" 24"	6 5/8" 27"	7 ½6" 30"	8 ½" 32"	9" 36"	11 ½" 45"	13 ½" 54"
Rough Opening Unit Width	24" 23 ½"	28" 27 ½"	32" 31 ½"	36" 35 ½"	40" 39 ½"	44"	48" 47 ½"	60" 59 ½"	72" 71 ½"
Shoulder Height: 7,1/2* Shoulder RO: 0. Unit Height: Unit RO:	EA 24 8 11 ½" 12 ½"	EA 28 8 12 %" 13 %"	EA 32 8 13 %" 13 %"	EA 36 8 14 ½" 14 ½"	EA 40 8 14 *5%;" 15 %;"	EA 44 8 16 -" 16 ½"	EA 48 8 16 ½" 17 -"	EA 60 8 18 %" 19 %"	EA 72 8 21 -" 21 ½"
Shoulder Height: 17 ½" Shoulder RO? Unit Height: Unit RO:	EA 24 18 21 %" 22 %"	EA 28 18 22 %" 23 %"	EA 32 18 23 %" 23 %"	EA 36 18 24 ½" 24 ½"	EA 40 18 24 ¹⁵ / ₅₆ " 25 ⁷ / ₅₆ "	EA 44 18 26 -" 26 ½"	EA 48 18 26 ½" 27 -"	EA 60 18 28 %" 29 %"	EA 72 18 31 -" 31 ½"
Shoulder Height: 23,½" Shoulder RO: 24"/2" Unit Height: Unit RO:	EA 24 24 27 %" 28 3%"	EA 28 24 28 %" 29 %"	EA 32 24 29 %" 29 %"	EA 36 24 30 %" 30 %"	EA 40 24 30 ¹⁵ / ₆ " 31 ⁷ / ₅ s"	EA 44 24 32 -" 32 ½"	EA 48 24 32 ½" 33 -"	EA 60 24 34 %" 35 %"	EA72 24 37 -" 37 ½"
Shoulder Height: 35,½" Shoulder RO: 36,2" Unit Height:	EA 24 36 39 %" 40 %"	EA 28 36 40 %" 41 %"	EA 32 36 41 %"	EA 36 36 42 %"	EA 40 36 42 ¹⁵ / ₅ s" 43 ⁷ / ₅ s"	EA 44 36 44 -" 44 ½"	EA 48 36 44 ½"	EA 60 36 46 %" 47 %"	EA72 36 49 -" 49 ½"
Unit RO: Shoulder Height: 41 1/2* Shoulder RO: 42" Unit Height:	EA 24 42 45 %"	EA 28 42 46 %"	41 %" EA 32 42 47 %"	42 %" EA 36 42 48 %"	EA 40 42 48 ¹⁵ / ₅ s"	EA 44 42 50 -"	45 -" EA 48 42 50 ½"	EA 60 42 52 %"	EA 72 42 55 - "
Unit Height: Unit RO: Shoulder Height: 47.1/4" Shoulder RO: 48" Unit Height:	46 ½" EA 24 48 51 ½"	47 %" EA 28 48 52 %"	47 %" EA 32 48 53 %"	48 %" EA 36 48 54 %"	49 %s" EA 40 48 54 ¹⁵ / ₅₅ "	50 ½" EA 44 48 56 -"	51 -" EA 48 48 56 ½"	53 ¼" EA 60 48 58 ¾"	55 ½" EA 72 48 61 - "
Unit RO: Shoulder Height: 53,1/3" Shoulder RO: 54,1/3"	52 ¾" EA 24 54	53 %" EA 28 54	53 %" EA 32 54	54 %" EA 36 54	55 %s" EA 40 54	56 ½"	57 -" EA 48 54	59 ¼"	6 <u>1</u> %"
Unit Height: Unit RO: Shoulder Height: 59 1/2" Shoulder RO: 60"	57 %" 58 %"	58 %" 59 %"	59 %" 59 %"	60 %"	60 ¹⁵ %6" 61 ⁷ %8"	62 -"	62 ½"	64 %" 65 %"	
Unit Height: Unit RO:	EA 24 60 63 ½" 64 ½"	EA 28 60 64 %" 65 %"	EA 32 60 65 %" 65 %"	EA 36 60 66 ½" 66 ½"	EA 40 60 66 15/s." 67 7/s."	EA 44 60 68 -" 68 ½"	EA 48 60 68 ½" 69 -"	EA 60 60 70 %" 71 %"	
Shoulder Height: 65,½" Shoulder RO: 65,½" Unit Height: Unit RO:	EA 24 66 69 ½" 70 ¾"	EA 28 66 70 %" 71 %"	EA 32 66 71 1/4" 71 1/4"	EA 36 66 72 ½" 72 ½"	EA 40 66 72 *5/s" 73 %s"	EA 44 66 74 -" 74 ½"	EA 48 86 74 ½" 75 -"		

Call out indicates width expressed in inches and shoulder height (series code). Custom sizes available.





Prairie grilles are not available in A series.

Circle



Sunburst



Colonial Four Lite



Colonial Nine Lite

Size	Dimensions
Cl3030	29 ½" x 29 ½"
Cl3636	35 ½" x 35 ½"

Half-Round



Sunburst



Sunstar



Double Sunburst[^]



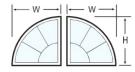
Starburst

ı	Size	Dimensions	
	HRD3819	37 ½" x 18 ¾"	
	HRD4020	39 ½" x 19 ¾"	
	HRD6834	67 ½" x 33 ¾"	
	HRD7236	71 ½" x 35 ¾"	

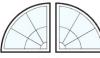
[^]This pattern is available in widths larger than 56 inches.



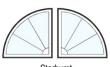
Quarter-Round



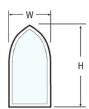
Sunburst



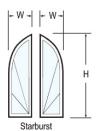
Sunstar



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Starburst					

Size	Dimensions
Left	
QRDL2424	23 ½" x 23 ½"
QRDL2828	27 ½" x 27 ½"
QRDL3030	29 ½" x 29 ½"
QRDL3232	31 ½" x 31 ½"
QRDL3636	35 1/2" X 35 1/2"
Right	
QRDR2424	23 ½" x 23 ½"
QRDR2828	27 ½" x 27 ½"
QRDR3030	29 1/2" x 29 1/2"
QRDR3232	31 ½" x 31 ½"
QRDR3636	35 1/2" X 35 1/2"

Choose left-hand or right-hand size as viewed from the outside looking in.

Size	Dimensions
GC1836	17 ¾" x 35 ¾"
GC2040	19 3/4" x 39 3/4"
GC2244	21 3/4" x 43 3/4"
GC2448	23 ¾" x 47 ¾"
GC2856	27 3/4" x 55 3/4"
GC3060	29 3/4" x 59 3/4"
GC3672	35 ¾" x 71 ¾"

HGCL2872	27 ½" x 71 ½"
Right HGCL1854 HGCL2260 HGCL2666 HGCL2872	17 ½" x 53 ½" 21 ½" x 59 ½" 25 ½" x 65 ½" 27 ½" x 71 ½"

Dimensions

17 ½" x 53 ½" 21 ½" x 59 ½" 25 ½" x 65 ½"

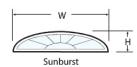
Size

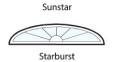
Left

HGCL1854

HGCL2260 HGCL2666

Elliptical





Octagon



Colonial Nine Lite

Oval	
— w →	
	 H
Colonial Four Lite	

Size	Dimensions
EL7220	71 1/2" x 19 1/2"

	Size	Dimensions
"	OTG2424	23 ½" x 23 ½"
	OTG3232	31 ½" x 31 ½"
	OTG3636	35 1/2" x 35 1/2"
	OTC4040	47 1/" v 47 1/"

Size	Dimensions
OV3046	29 ½" x 45 ½"
OV3656	35 ½" x 55 ½"

Available for new construction and replacement applications

WINDOW CUSTOMIZATION

Distinctive Window Design

Further that design with a custom or standard grille pattern, either with Grilles Between Glass (GBG) or Simulated Divided Lites (SDL). By placing a variety of design patterns within the glass, GBGs offer an attractive and low maintenance artistic option. Traditional window grilles can be replicated by means of SDL muntin bars, which are permanently attached to both the interior and exterior glass.

Continue the traditional look with horizontal Pediment Heads (also known as Crossheads) added to the outer casings of windows. Pediments are often used to provide outstanding visual improvement without breaking the bank.

With the many optional exterior paint colors available, you can truly make a unique statement to your home or office.

Common Grille Configurations













Grille Options



34" Contoured GBG (Grilles Between Glass)



%" Contoured SDL (Simulated Divided Lite)



%" Flat GBG (Grilles Between Glass)



%" Contoured SDL (Simulated Divided Lite)

Exterior Sill Nose Options







Exterior Trim Options







Brickmould (908) Casing



5/4 x 31/2" Flat Casing



Northern Casing (showing install channel)

Exterior Paint Options

Our in-house palette consists of 8 pre-finished exterior colors, with many other colors available.











Black









Earth Brown

Pearl White

Adobe

Gray Spruce Green

Bronze

Dark Brown

Barn Red

COMMITTED TO PERFORMANCE

American Architectural Manufacturing Association

Since 1936, the American Architectural Manufacturers Association (AAMA) has stood as a strong advocate for manufacturers and professionals in the fenestration industry. Today AAMA, stands as a representative of both the residential and commercial sectors.



National Fenestration Rating Council

The National Fenestration Rating Council (NFRC) is a nonprofit, public/private organization created by the window, door, and skylight industry. It is composed of manufacturers, suppliers, builders, architects and designers, specifiers, code officials, utilities, and government agencies. The NFRC has developed a window energy rating system based on whole product performance.

The NFRC label provides the *only* reliable way to determine the window energy properties and to compare products. The NFRC label appears on all products certified to the NFRC standards and on all window, door, and skylight products which are part of the ENERGY STAR® program. At this time, NFRC labels on window units give ratings for U-Factor, Solar Heat Gain Coefficient (SHGC), and Visible Light Transmittance (VT).

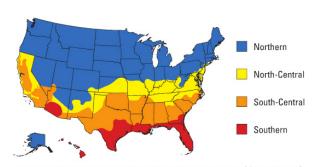


ENERGY STAR®

Mathews Brothers is proud to offer our customers products that have earned the government's ENERGY STAR® label.

ENERGY STAR is a government-backed program that helps consumers identify the most energy-efficient products. Learn more at www.energystar.gov.





Residential Windows, Doors, and Skylights: Version 6.0 (April 7, 2009)

ENERGY STAR® Qualification Criteria for Residential Windows

Climate Zone	U-Factor ¹	SHGC ²	
Northern	≤0.27	Any	Prescriptive
	=0.28	≥0.32	Equivalent
	=0.29	≥0.37	Energy
	=0.30	≥0.42	Performance
North-Central	≤0.30	≤0.40	
	≤0.30	≤0.25	
Southern	≤0.40	≤0.25	¹ Btu/h-ft²-°F

Useful Links

Hancock Classics Performance Ratings Hancock Classics Warranty

ENERGY STAR® Qualification Criteria for Residential Doors

Glazing Level	U-Factor ¹	SHGC ²		
Opaque	≤0.17	No Rating		
≤ ½-Lite	≤0.25	≤0.17		
- 16 Line	<0.30	Northern North-Central ≤0.40		
> ½-Lite	≥0.30	Southern ≤0.25		

1 Rtu/h.ft².°F

HORIZONTAL SLIDER STANDARD SIZES & ARCHITECTURAL DETAILS

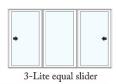
Horizontal Slider Standard Sizes (Single Shown and Double Available) *Custom sizes available*

Rough Opening	24"	36"	48"	60"	72"	84"	
Unit Size	23 ½"	35 ½"	47 ½"	59 ½"	71 ½"	83 ½"	
Exp. Glass Fixed	8 7/6"	14 1/16"	20 1/16"	26 ⁷ / ₁₆ "	32 1/16"	38 7/16"	
Exposed Glass Sash	8 7/16"	14 7/16"	20 1/16"	26 7/16"	32 7/16"	38 7/16"	
	HS2424	HS3624	HS4824	HS6024	HS7224	HS8424	23 ½" 18 ½" 18 ½"
	HS2436	HS3636	HS4836	HS6036	HS7236†	HS8436 [†]	35 ½" 30 ½" 30 ½"
	HS2442	HS3642	HS4842	HS6042 [†]	HS7242 [†]	HS8442 [†]	41 ½" 36 ½" 36 ½"
	HS2448	HS3648	HS4848 [†]	HS6048 [†]	HS7248 [†]	HS8448 [†]	47 ½" 42 ½" 42 ½"
	HS2460	HS3660	HS4860 [†]	HS6060†	HS7260 [†]	HS8460 [†]	59 ½" 54 ½" 54 ½"

Sliders with rough opening of 84" are available as single only.

3-Lite End-Vent Horizontal Slider Standard Sizes (Other Configurations Available) Custom sizes available

iustom sizes a	current					
Rough Opening	72"	84"	96"	108"	120"	
Unit Size	71 ½"	83 1/2"	95 1/2"	107 1/2"	119 ½"	50
Exp. Glass Fixed	32 1/8"	39 1/6"	45 1/6"	51 1/6"	57 1/4"	
xposed Glass Sash	15 %,,"	17 %"	20 %,,"	23 %,6"	26 %"	
	HP7236	HP8436	HP9636	HP10836	HP12036 [†]	35 ½" 30 ½" 30 ½"
	HP7248	HP8448	HP9648†	HP10848†	HP12048†	47 ½" 42 ½" 42 ½"
	HP7260	HP8460	HP9660†	HP10860†	HP12060†	59 ½" 54 ½"



Notes:

New construction series standard sizes shown. Custom sizes are available.

Call out sizes are calculated in inches.

¹Sizes shown applicable for single operating slider.

³Check with fabricator for rough opening when mulling

[†]Meets single egress of: clear openable area 5.7 sq. ft.; clear openable width 20 inches; clear openable height 24 inches.

Grilles are optional and shown in colonial pattern as viewed from outside.

Pediment Head Options







Shown w/Standard Frame (no exterior casing)

Flat Casing shown

Banded Casing shown

Pediment head not available with Brickmould or Northern casing

Hardware Options







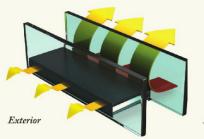


Duralite® warm-edge spacers = Improved Efficiency

Hancock Classics windows use this superior warm-edge insulating glass sealant system for improved energy efficiency and resistance to condensation, greater comfort, and lower heating and cooling costs.

The Duralite spacer inside your window's insulating glass unit can reduce heat transfer and improve the temperature of your inside window glass. The warmer the glass edge, the less energy lost and the more comfortable you feel near your window. That leads to saving energy, which reduces how much you spend to heat and cool your home. Duralite can also reduce condensation on the glass, keeping off moisture for a clearer view to the outside. Less condensation and reduced energy costs mean a healthy, more comfortable home.

The Duralite spacer is a component laminate design that optimizes the use of a number of spacer components. All spacers need adhesives, sealants, structural elements and desiccant to perform. They also need to last a long time under adverse conditions inside your window frame. Duralite is designed to seal your window better and longer, while increasing energy savings compared to other types of spacers.



Interior

When Duralite® non-metallic insulating glass spacers are used, glass edge is better insulated against energy loss, creating a higher performance thermal barrier.



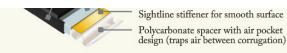
Encapsulated desiccated topcoat Moisture-resistant bond line adhesive 3-sided non-metallic continuous moisture barrier 1. Interior latch (standard white)

Window Customization

- 2. Exterior non-keyed (opt. desert sand)
- 3. Exterior keyed (opt. brushed nickle)

Bright Antique Oil Brushed Brass Rubbed Nickle Bronze

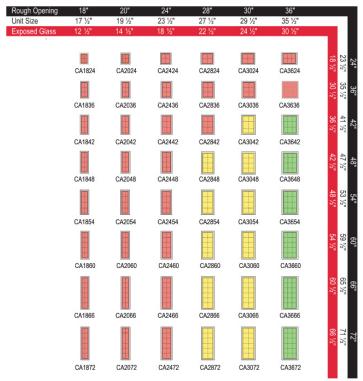
Please note that the material colors are not necessarily precise representations due to variance in the printing process.



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CASEMENT WINDOWS STANDARD SIZES & ARCHITECTURAL DETAILS

Casement Window Standard Sizes Custom sizes available

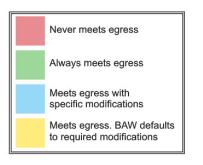


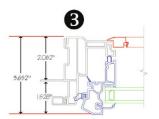
Casement | Picture | Casement Window Standard Sizes Custom sizes available

Rough Opening Total Unit Size	53%" 52%"	591/4" 58%"	71%" 70%"	83½" 82½"	891/4" 88%"	107½" 106%"	
Individual Unit Size	17½"	191/2"	23½"	27½"	29½"	351/2"	
Exposed Glass	12½*	141/2"	18½"	221/2"	241/2*	30½"	
	CA1836-3	CA2036-3	CA2436-3	CA2836-3	CA3036-3	CA3636-3	36 * 35 ½* 35 ½* 30 ½*
	CA1842-3	CA2042-3	CA2442-3	CA2842-3	CA3042-3	CA3642-3	42" 41 %" 41 %" 36 %"
	CA1848-3	CA2048-3	CA2448-3	CA2848-3	CA3048-3	CA3648-3	48 47 ½" 47 ½" 42 ½"
	CA1860-3	CA2060-3	CA2460-3	CA2860-3	CA3060-3	CA3660-3	60 * 59 ½* 59 ½*
	CA1866-3	CA2066-3	CA2466-3	CA2866-3	CA3066-3	CA3666-3	66 * 65 ½* 65 ½*

Twin Casement Window Standard Sizes Custom sizes available

35 %"	39 %"	47 %"	55 %"
35 1/16"	39 1/16"	47 1/16"	55 1/16"
	19 1/2"	23 1/2"	27 ½"
12 ½"	14 ½"	18 ½"	22 ½"
CA1824-2	CA2024-2	CA2424-2	CA2824-2
CA1836-2	CA2036-2	CA2436-2	CA2836-2
CA1842-2	CA2042-2	CA2442-2	CA2842-2
CA1848-2	CA2048-2	CA2448-2	CA2848-2
CA1854-2	CA2054-2	CA2454-2	CA2854-2
CA1860-2	CA2060-2	CA2460-2	CA2860-2
CA1866-2	CA2066-2	CA2466-2	CA2866-2
	35 1/4" 17 1/2 12 1/2" 12 1/2" 12 1/2" 12 1/2" 13 1/2 14 1/2 15 1/2 16 1/2 16 1/2 17 1	35 1/4" 39 1/4" 12 1/2" 19 1/4" 12 1/2" 14 1/2" 14 1/2" 14 1/2" 14 1/2" 15 1/2" 16 1/2	35 1/4" 39 1/4" 47 1/4" 19 1/2" 23 1/4" 12 1/2" 14 1/4" 18 1/4" 18 1/4" CA1824-2 CA2024-2 CA2424-2 CA2436-2 CA2436-2 CA2448-2 CA2448-2 CA2448-2 CA2648-2 CA2454-2 CA266-2 CA266-2 CA2660-2 CA2660-2 CA2660-2





Call out sizes are calculated in inches.

^{††}Requires egress hardware.

Grilles are optional and snown in colonial pattern as viewed from outside.

Banded and Northern casings, add 1/4" to width and height of rough opening.

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TECHNICAL INFORMATION

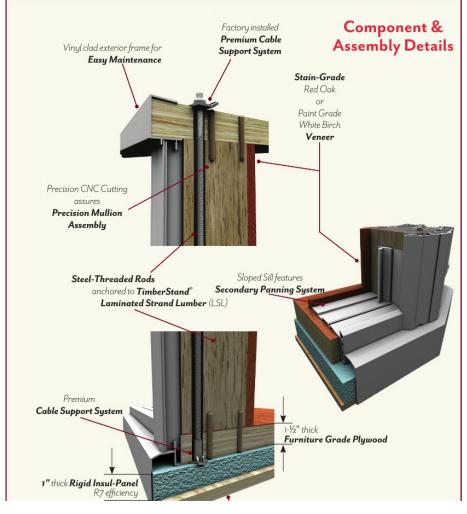
PROJECTED *UNITS*Available for new construction only



In order to provide you with a worry-free system, the framing around your Hancock Classics windows has to be as good as the windows themselves.

That's why you'll appreciate the structural strength that is designed into every one of our beautiful projected bows and bays.







10

WINDOW AND DOOR STYLES



The insulated glazing^[1] in our vinyl sliding patio door is constructed using warm-edge technology, as well as Low- E tempered safety glass with argon gas fill, so it holds up to the weather while allowing you to experience the beauty of the great outdoors.

Constructed from low-maintenance vinyl, the frame and panels are welded at the corners during assembly to provide a product superior in strength, performance, and appearance. Reinforcement is used at the meeting stiles, and at the lock points of the frame and panel for added rigidity and strength. The sliding door operates smoothly on heavy duty steel tandem rollers.

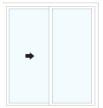
Our sliding patio doors come with Truth's Signature[™] Series premier handle set, with its contoured shape it is both elegant and easy to grasp, available as keyed or non-keyed. Handle sets come in eight finishes, which helps you customize the look of your door.

The glide screen is made from heavy extruded aluminum framing, fiberglass mesh screening and operates easily on steel rollers.

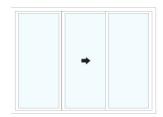
Hancock Classics vinyl sliding patio doors are available as two-, three-, or four-panel, in standard and custom sizes; with either left

Common Configurations

As viewed from exterior



Two Panel Door



Three Panel Door



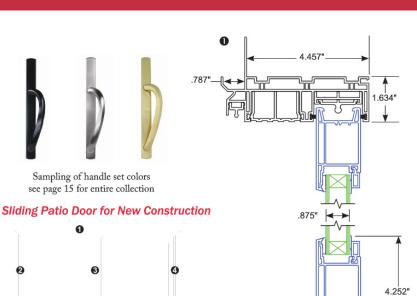
1 Qualifies for the ENERGY STAR® label

12



Four Panel Door

WINDOW AND DOOR STYLES





2 Panel

Sliding Patio Door Standard Sizes

Custom sizes available

4 Panel

6

Standard Door features

- " 7/8" Tempered Low-E/Clear insulating glass with argon gas fill
- " White interior and exterior color, with matching handle sets
- " Integral nailing flange and integral J-channel
- " 4 9/16" jamb
- " Fusion-welded joints
- "Heavy-duty extruded insect screen

Optional features[]

- "Grilles: Colonial or Prairie Style, available in matching White or Desert Sand
- " Transoms and sidelites
- " Stainless steel rollers for door panel
- " Desert Sand color with matching handle sets (as keyed or non-keyed)
- " Handle sets in eight colors; keyed or non keyed handle
- " Custom exterior color finishes
- " Monarch exterior casing
- " Pediment Head

1 See pages 14-16 for additional options.

TWO PANEL DOORS			THREE PANEL DOORS			FOUR PANEL DOORS		
ITEM	R.O.	U.S.	ITEM	R.O.	U.S.	ITEM	R.O.	U.S.
DDE060	60 4 00 0	E0 E v 70 E	DD7660	00 4 00 0	00 E v 70 E	DD40060	110 4 90 0	110 E v 70 E

FD3000	00 X 00.0	0.81 X 0.80	FD1000	90 X 00.0	09.0 X 79.0	FD 10000	U.UO X 611	110.0 X 18.0
PD6068	72 x 80.0	71.5 x 79.5	PD9068	108 x 80.0	107.5 x 79.5	PD12068-4	143 x 80.0	142.5 x 79.5
PD8068	96 x 80.0	95.5 x 79.5	PD12068-3	144 x 80.0	143.5 x 79.5	PD120611-4	143 x 82.5	142.5 x 82.0
PD60611	72 x 82.5	71.5 x 82.0	PD90611	108 x 82.5	107.5 x 82.0			
PD80611	96 x 82.5	95.5 x 82.0	PD120611-3	144 x 82.5	143.5 x 82.0			

R.O. = Rough Opening; U.S. = Unit Size

Sliding Patio Door

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SINGLE-HUNG WINDOW STANDARD SIZES & ARCHITECTURAL DETAILS

Single-Hung Window Standard Sizes / Custom sizes available

Replacement Windows

Each window is custom built to your specifications.





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You'll find the horizontal sliders are the best value in our impressive line of new construction or replacement products. Because they don't open into outdoor activities, our easy-glide sliders are especially recommended for high traffic areas, such as over a deck or walkway.

Horizontal slider windows are available in two lite (left, right, or dual venting) and three lite configurations $(\frac{1}{4} - \frac{1}{2} - \frac{1}{4})$ and $\frac{1}{3} - \frac{1}{3}$.



Standard features " ³/₄" insulating glass with Duralite[®] warm-edge technology Low-E glass^[1] and argon gas fill

TECHNICAL INFORMATION

- " Integral nailing fin [new construction only] (Frames come with integral nailing fin that can be easily removed for replacement purposes)
- " Integral 34" J-channel
- " Fusion-welded frame and sash for added strength
- " White interior and exterior color with color matched hardware
- "BetterVue® insect screen

Additional features

- "Two sets of Nylon glides evenly disperse the weight of the sash
- "Glides travel on intergral track system allowing for effortless fingertip operation
- " Independent weep chambers on frame ensure effective water runoff
- " Dual Sliders, both sashes lift out for easy cleaning

Optional features^[2]

- " Desert Sand interior and exterior color with color matched hardware
- " Grilles available as Grilles Between Glass or Simulated Divided Lites
- " J-channel cover
- Exterior trim/casing
- " Pediment Head
- " Custom exterior color finishes
- " 34" Drywall return
- " Extension Jambs
- " Window Opening Control Device [3]

1 One pane Low-E glass and one pane clear glass. 2 See pages 14-16 for additional options.

3 Not available on Double Horizontal Slide or Awning.







DOUBLE-HUNG WINDOW STANDARD SIZES & ARCHITECTURAL DETAILS

37"

Never meets earess

Notes

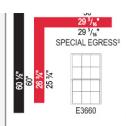
New construction series standard sizes shown. Custom sizes are available.

Call out sizes are calculated in inches.

Check with fabricator for rough opening sizes when mulling.

Grilles are optional and shown in colonial pattern as viewed from outside.

Banded and Northern casings, add %" to width and height of rough opening.





Always meets egress

Meets egress with specific modifications

Meets egress. BAW defaults to required modifications

33

TECHNICAL INFORMATION



Standard features

- ^{**} 34" insulating glass with Duralite[®] warm-edge technology Low-E glass^[1] and argon gas fill
- " Integral nailing fin [new construction only]
 (Frames come with integral nailing fin
 that can be easily removed for replacement
 purposes)
- " Available with or without 3/4" J-channel
- " Fusion-welded frame for added strength and durability
- " White interior and exterior color with color matched hardware
- " Pre-sloped sills for water runoff
- " BetterVue® insect screen (on operating units)

Additional features

- "Casement sash opens completely^[2], so windows can be cleaned easily from inside your home
- " All components are corrosion resistant, providing years of trouble-free performance
- " Multi-Point Locking System for the utmost security
- "Three layers of weather-stripping



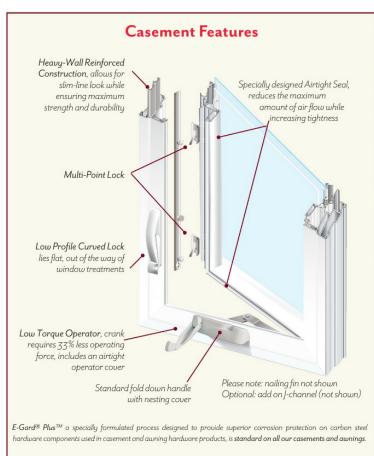
Optional features[1]

- Desert Sand interior and exterior color
- " Add-on |-channel
- " Grilles available as Grilles Between Glass or Simulated Divided Lites
- " Exterior trim/casing

- ensure effective barrier to air and water penetration
- Top rated hardware system allows even the largest casements to be effortlessly and smoothly operated
- 1 One pane Low-E glass and one pane clear glass.
- 2 Unless egress hinge is used.

- Pediment Head
- Custom exterior color finishes
- " ¾" Drywall return
- Extension Jambs
- " Window Opening Control Device^[2]
- 1 See pages 14-16 for additional options. 2 Not available on Double Horizontal Slide or Awning.

WINDOW AND DOOR STYLES





Casement Windows

With clean, contemporary architectural lines, casement windows offer 100% opening for maximum ventilation. By extending beyond the plane of the wall, casements catch passing breezes and channel them into the home.

Casement & Awnings are our most energy-efficient operating product unit, featuring 3/4" insulating glass and a single lever multi-point locking system that keeps the sash tightly sealed in multiple locations. You'll be able to open and close your windows with ease, thanks to our smooth low gear operator. And, our sashes open completely (non-egress), so windows can be cleaned easily from inside your home. Our top rated hardware system allows even the largest casement to be effortlessly and smoothly operated.

A unique feature of our Casement units is the 1-3/8" False Meeting Rail, that emulates the lines of a Double Hung, while giving you the



opening and egress of a Casement.

Awning Windows

An awning window is hinged at the top and opens out from the bottom allowing in fresh air, while keeping out the rain. Use alone or in combination with casement, picture, or other awnings.



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Casement/Awning

BECOMES THE PROBLEM

QUESTIONABLE SOLUTION - When looking at the NFRC label, it's important to remember that a window's overall thermal performance is the result of all its contributing factors, and that frequently an adjustment to one area can have undesirable effects in another. For example, it's easy to reduce the unit's U-Factor by applying additional layers of Low-e glass. However, this would also have the undesirable effect of reducing both VT and SHGC, so it's important to maintain a balance in all areas.

One particular measurement of importance to people in the cold Northern climate zones is the unit's Condensation Resistance Factor (CRF), since the accumulation of excessive condensation can be particularly detrimental not only to the building's structure, but to the indoor air quality as well. Since this number (which ranges from 1 - 100) is not required to be reported, most architects, building professionals and homeowners are unaware of its existence, much less its importance.

Unfortunately, in order to meet Energy Star* 6.0, some manufacturers have chosen to resort to so-called "Surface 4" or "roomside" Low-e glazing. Under this technique, an additional layer of low-E coating is placed on Surface 4 (S4) of the glass of a traditional improved IG (generally, low-E and argon fill).

According to industry experts, the science behind S4 results in a higher risk of condensation in cold weather because the Low-e coating reduces radiant heat transfer from the room to the glass surface. While this does improve the window U-factor by about 0.03, ultimately the room-side glass is cooler, which increases the chance of an excess of water vapor condensing on the glass surface, which can result in sheetrock damage, peeling paint or mold growth.

This is the unintended, yet potentially dangerous consequence of S4 glazing: a dramatic reduction in the CRF, with a resulting increase in condensation on interior glass surfaces, and the subsequent damage that results.



Mathews Brothers Company

CLASSICS DOUBLE HUNG MBC-M-21-08776-00001 HOLLOW VINYL FRAME

ENERGY PERFORMANCE RATINGS

U-Factor (U.S./I-P)

Solar Heat Gain Coefficient

0.27

0.31

ADDITIONAL PERFORMANCE RATINGS

Visible Transmittance

Air Leakage (U.S./I-P)

0.56

≤0.30

Condensation Resistance

62

Manufacturer stipulates that these ratings conform to applicable NFRC procedures for determining whole product performance. NFRC ratings are determined for a fixed set of environmental conditions and a specific product size. NFRC does not recommend any product and does not warrant the suitability of any product for any specific use. Consult manufacturer's literature for other product performance information. www.nfrc.org

PROTECT YOUR HOME, PROTECT YOUR FAMILY - How can you be sure the window you are specifying or installing has the recommended CRF for your climate zone? What is the recommended CRF for your climate zone?

According to both the American Architectural Manufacturers Association (AAMA) and NFRC, for the cold Northern climate zone, windows should have a CRF of <u>at least</u> 50. This will provide a sufficiently warm roomside glass surface to resist moisture. Even with a CRF above 50, windows in highly humid areas of the home (kitchens and bathrooms) may show some occasional condensation, as may other windows in the home during the seasonal transition from Summer to Autumn. This type of condensation should not be a cause for alarm. What should be a cause for alarm would be continuous, daily, uncontrollable condensation.

But how can you find the CRF it's not on the NRFC label? First: ask the manufacturer, as they are able to provide this information to you. Or you can find our for yourself by visiting www.NFRC.org, hover over "Consumers" in the top menu bar, then click on "Search for a Fenestration Product". This will pull up a search tool, with which you can search by manufacturer, window type, as well as by minimum U-Factors, SCGC and VT. Included in all reports is the weit's CDF.



Better yet: ask them if they use S4 glazing in order to meet Energy Star* 6.0. If they are, then chances are the CRF for that unit may not be the best choice to protect your home, and protect your family.

We've all seen it: interior window condensation forming on cold days. Under Energy Star® 6.0 performance standards, many window manufacturers are making choices that will actually <u>increase</u> interior condensation to levels that may prove to be costly to homeowners.

For this reason, Mathews Brothers advocates the display of the CRF on the NFRC Window Label.



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BECOMES THE PROBLEM

WHEN THE SOLUTION

BACKGROUND - Since its introduction in 1992, Energy Star® certification has been the 'Holy Grail' for



Four climate zones define the country

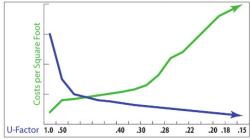
manufacturers of electronics, lighting, appliances, and building materials, especially windows. The certification is the consumer's assurance that the product bearing the **Energy Star*** label is among the most energy efficient in its class. And because the designation is given only to the top performers within their class, achieving **Energy Star*** certification has prompted window designers and manufacturers to continually produce better and more energy-efficient products.



When first adopted, **Energy Star*** certification was fairly easy to achieve. Usually, a thermally improved frame with an Insulating Glass Unit would qualify. However, over the subsequent decades, the Environmental Protection Agency has required gradually improved performance in order to qualify.

THE QUANDARY - Keeping pace with these demands for improved performance has taken the combined efforts of the entire industry, including manufacturers and their suppliers of framing, glass, sealants, hardware and other components. Ultimately, every incremental performance improvement comes with an exponentially higher price tag.

Under **Energy Star*** 6.0, the stringent U-Factor required in the Northern zone (U=0.27 or better) has proven to be an extremely difficult performance level for many manufacturers to achieve. As frequently happens, government regulations and mandates require solutions that are beyond the performance limits of a product's design. When this occurs, manufacturers either replace the old product, or they explore alternate methods of meeting performance criteria, some of which may have unintended consequences.



Every incremental improvement costs exponentially more

CHASING THE NUMBERS - In thermal testing, administered by the National Fenestration Rating Council (NFRC), windows are measured for various performance attributes – average **Air Infiltration** (AI), overall **Thermal Conductivity** (U-Factor), potential for **Solar Heat Gain** (SHGC), the percentage of **Visible Light Transmittance** (VT), and its overall **Condensation Resistance** (CRF). Each one of these attributes are measured and reported, as they all influence energy consumption and are excellent indicators of how the window will perform when compared to other windows.

U-Factor is the measurement of the rate of Heat Loss through the window, so the lower the number, the better. U-Factor takes into consideration framing, glazing and spacer conductivity, therefore it is a rating of the entire window unit.

In order to qualify for Energy Star® 6.0, some window manufacturers have had to resort to providing so-called 'S4' Glazing, wherein the interior surface of the window contains an exposed Low-e (low emmissive) surface.

While this option will result in a lower U-Factor, it also increases interior levels of condensation to potentially damaging and unhealthy levels, particularly in the Northern climate zone.

Know Your Values

National Fenestration Rating Council®

Mathews Brothers Company

Classics NC / Repl DOUBLE HUNG MBC-M-21-08776-00001 HOLLOW VINYL FRAME LOWE ARGON MNTNS Dual Pane (405301 - 31

ENERGY PERFORMANCE RATINGS

U-Factor (U.S./I-P) **0.27**

Solar Heat Gain Coefficien

ADDITIONAL PERFORMANCE RATINGS

Visible Transmittance

Air Leakage (U.S. / I-P

SHGC is the Solar Heat Gain Coefficient of the glass unit. Since the SHGC typically drops with the U-Factor, any potential passive solar heating will also be reduced. This can be an important consideration in the Northern climate zone, where in the winter the days are shorter, and the sun has a lower azimuth.

Introducing additional layers of Low-e glass will also reduce the potential for solar heat gain.

Mathews Brothers offers Low-e coatings that provide very low U-Factor values, while still permitting solar heat gain.

 $\label{lem:alpha} \mbox{Air Infiltration is a measurement of the cubic volume of air that}$

because of the risk of sneetrock damage, the potential for dangerous mold growth, and other reasons, Mathews Brothers will not offer S4 Glazing on any of our window

VT is the Visible Light Transmittance of the glass unit. This is an important rating to consider when specifying glazing packages that include Low-e glass. Low-E glass reduces radiated heat loss, but also reduces visible light.

Since 'S4' Glazing typically involves the introduction of at least one additional layer of Low-e, VT is reduced dramatically, resulting in a condition many consumers find unsatisfactory.

as cubic feet per minute, per square foot of window.

This number is typically posted as 'less than or equal to 0.3', since air infiltration is a pass/fail at that number.

Of all the information appearing on the NFRC label, this is perhaps the least important, from a performance standpoint.

16 WHEN THE SOLUTION

Double-Hung Windows

Traditional, classic, durable — double-hungs give you all of that plus energy efficiency and peace of mind. Top and bottom sash operate smoothly allowing you to control air flow, and they both tilt-in for easy cleaning and care. Grilles

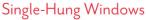


can be added to further enhance the traditional look of your home.

The Hancock Classics feature equal-width daylight opening, which provide a traditional wood-window appearance. Additionally,

balance covers in the jamb tracks improve interior aesthetics of the windows.

Used singly, or factory mulled with transoms or other fixed or hung units to add a dramatic accent to your home's appearance, while providing a brighter, more open interior.



Our single-hung windows are built with a fixed top sash, while the lower sash moves



In addition, the bottom sash conveniently tilts-in for easy cleaning.

Structural interlock at meeting rails provides an additional layer of protection and weather resistance.



Installation Questions?



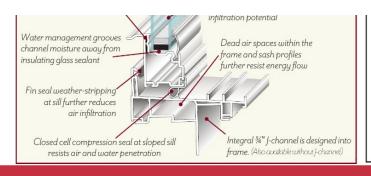






Dual hollows at lift rail add strength and insulation

Direct set back bedding bonds glass to sash, reducing air and water







Single Hung/Double Hung

hancocklumber.com 5

Available for new construction and replacement applications

PICTURE • TRANSOM • RADIUS • GEOMETRIC



Whether used alone or in combination with other window styles, picture windows add dramatic styling while bringing light into your home.

Transom units can be used alone, over another straight window or door, or under a shape.

Architectural Shapes

Shapes are available in two styles — straight and radius.

- · Trapezoid
- Triangle
- · Half-Round
- · Quarter-Round
- Eyebrow
- Elliptical
- Extended Arch
- Oval
- Circle
- Octagon









Standard features

- 3/4" insulating glass with Duralite warm-edge technology
- Low-E glass^[1]and argon gas fill
- "Integral nailing fin [new construction only] (Frames come with integral nailing fin that can be easily removed for replacement purposes)
- " Integral 3/4" |-channel
- " White interior and exterior color

Additional features

Independent weep chambers on frame ensure effective water runoff

Optional features[2]

- Desert Sand interior and exterior
- Grilles available as Grilles Between Glass or Simulated Divided Lites
- |-channel cover
- " Exterior trim/casing^[3]
- 2-½" Interior Colonial casing (arch/





- radius units only)
- Pediment Head
- Custom exterior color finishes
- . 34" Drywall return
- " Extension Jambs

1 One pane Low-E glass and one pane clear glass. 2 See pages 14-16 for additional options. 3 Exterior casing not available for all radius units.

Horizontal Slide/Fixed/Geometric

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Hancock Classics Vinyl Windows Limited Lifetime Manufacturer's Warranty*

The Hancock Lumber/Mathews Brothers Company Promise

Hancock Lumber Company, and Mathews Brothers Company, the manufacturer, warrant that every Hancock Classics window we make, including Sealed Insulating Glass Units, will be free from covered manufacturing defects during the lifetime of the original consumer purchaser so long as the purchaser retains ownership of the residence in which the windows were installed. Period.

In the event the original purchaser sells the property in which the windows are installed, the coverage provided by this warranty will be transferred to the first subsequent owner and will be limited in duration to twenty years for the window and its non-glass components and twenty years for insulating glass units from date of original product sale.

Rest Assured Labor Protection

Experience shows that the vast majority of window warranty claims are made within the first three years of installation. Hancock Classics windows are covered by an exclusive "Rest Assured Labor" warranty feature assuring you the maximum protection for a period of five years following the date of original product sale.

Simply put, during the five-year Rest Assured period, Hancock Lumber and Mathews Brothers will cover up to 100% of the direct cost of the components and labor required to repair or replace the defective component or product.

Click here for

*Please refer to full written warranty for complete warranty details

We have the right to change specifications and products without notice. Please note that the material colors are not necessarily precise representations due to variance in the printing process

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Think Outside the Box

Windows don't have to be two dimensional. Projected units dramatically impact the look and feel of a home. Whether it's a classic bay or a subtle bow, projected units add depth and dimension to the inside, and a distinctive accent to the outside.

Like all our products, our bay and bow windows are made by skilled craftsmen, from the highest quality materials.

We start with the foundation: the framework, which

engineeried lumber with 1-½" furniture grade head and seat boards, anchored together by solid steel rods.



The rugged and sturdy framing is tastefully finished on the inside with the rich beauty of a 1-½" furniture grade, hardwood veneer plywood. Choose from stain-grade Red Oak or paint-

grade Birch.

Angle bays are available in a 30° or 45° version, while Bows are available in three-. four-, and five-lite versions. Combine fixed, casement or double-hung windows to match your existing decor.

No matter what you

has been cut to exact specifications using precision CNC technology.

In order to provide strength and structural integrity to the critical mull points, we use a combination of structural The seat board boasts an additional 1" thick insulating panel. This additional layer reduces energy bills by protecting against conductive heat transfer, and also reduces condensation.

choose, every detail in the design has been considered; nothing has been overlooked, ensuring years of trouble-free performance... and beauty.

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