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Style, beauty and design flexibility – the best choice for your new home. Your windows should reflect your own distinct style whether looking inside or out on the world.

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∞ Windows On The World ∞

Your Manchester Series windows are designed and built to beautify your home inside and out. There should be no barriers to keep you from the sheer comfort of looking outdoors on a bright, sunny morning or peering through streetlit darkness at a blinding snowstorm. Your Manchester windows by Quaker will make your world the best place to be no matter what Mother Nature decides to deliver. You will no doubt appreciate the unequalled beauty and design of your Manchester Series making your windows on the world the best available.



∞ Our Company ∞

More than 65 years of the same quality, commitment and dedication are guaranteed to you with your purchase of Quaker windows and doors. Founded in 1949 and based in Freeburg, Missouri, the Quaker family-owned corporation was built on a business philosophy of quality and customer satisfaction that continues today. Marge and Harold "Bud" Knoll dedicated themselves to building a business destined to be a leader in the window and door industry.

Their vision continues at Quaker today with the same high level of detailed workmanship, responsive service and extreme commitment to quality and value.

No shortcuts are ever taken in our manufacturing process. State-of-the-art equipment demands the highest standards of operation. Our commitment to you is a window and door product of unmatched quality and exceptional value.

We constantly strive to build on our reputation for quality along with our history and passion for continual improvement and product development. Quaker's committed to making your new windows on the world the finest possible product available.

∞ Our Warranty ∞

Along with promising you the finest products available with quality workmanship and commitment to value, our warranty assures you of our willingness to stand behind all that we build. Manchester Series windows have one of the finest warranties available today. Ask your dealer for full warranty details or go to www.quakerwindows.com.

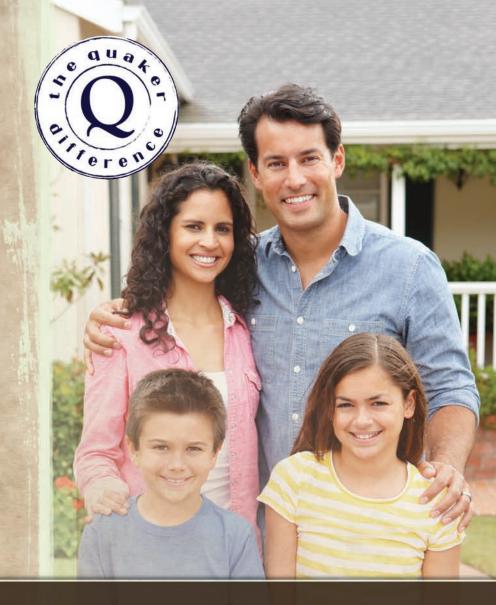


Manchester SERIES 3/4" INSULATED GLASS	Double Hung	Single Hung	Casement	Awning	Horizontal Slider	Picture Window	S = STANDARD O = OPTIONAL *Not standard for all Manchester picture windows. See dealer for more information. Quaker Window Products reserves the right to change any or all designs, features, or options without notice.	Double Hung	Single Hung	ıent	б	Horizontal Slider	Picture Window
Clear	S	S	S	S	S	S	SIZING		ingle	Casement	Awning	lorizo	ictur
EnergyBasic Low-E	0	0	0	0	0	0							
Energy 3S Low-E	0	0	0	0	0	0	Standard Sizes (see pages 12-15)	S O	S	S	S	S	S
Energy Plus™ Low-E	0	0	0	0	0	0	Custom Sizing		0	0	0	0	0
EnergyMax Low-E	0	0	0	0	0	0	HARDWARE						
EnergyTG (Triple Pane Glazing)	0	0	0	0	0	0	Cam Locks (white finish)	S	S			S	
Obscure (privacy)	0	0	0	0	0	0	Cam Locks (beige finish)		0			0	
Tempered (safety)	0	0	0	0	0	0	Cam Locks (sandstone finish)		0			0	
Inquire about the dozens of other glass options available.							Truth Encore® Crank Hardware (white finish)	0		S	S		
COLOR							Truth Encore® Crank Hardware (beige finish)			0	0		
White Vinyl	_ ا	_	_	_	_	_	Truth Encore® Crank Hardware (sandstone finish)			0	0		
Beige Vinyl	S	S	S	S	S	S	Block & Tackle Balancers	S	S				
Sandstone Vinyl	0	0	0	0	0	0	Brass Rollers					S	
Dark Oak Wood Grain (interior only)	0	0	0	0	0	0	Limited Travel Device	0	0	0	0	0	
Painted Exterior (see page 9)							Egress Hardware			0			
Painted Exterior (see page 9)	0	0	0	0	0	0	WEATHERSTRIPPING						
MAIN FRAME													
31/4" Frame Depth	S	S	S	S	S	S	Fin-Seal Weatherstripping	S	S			S	
Wood Extension Jamb (stain grade)	0	0	0	0	0	0	Bulb Weatherstripping			S	S		
Wood Extension Jamb (pre-finished white)	0	0	0	0	0	0	SCREEN						
Fusion Welded Corners	S	S	S	S	S	S	Screen Frame & Window Vinyl Color Match	S	S	S	S	S	
Pre-Punched Nail Fin Extruded J-Channel	S	S	S	S	S S	S S*	BetterVue™ Fiberglass Mesh		S	S	S	S	\dashv
		3				<u> </u>	Aluminum Mesh	S O	0	0	0	0	-
SASH FRAME							Full Screen	S		S	S		-
Fusion Welded Corners	S	S	S	S	S	S	Half Screen	0	S			S	
Metal Reinforcements	S	S	S	S	S								
Full Interlock at Meeting Rail	S	S			S		FACTORY ASSEMBLED						
GRILLES							COMBINATION UNITS						
Internal (between-the-glass)							Combination Units	0	0	0	0	0	0
Flat or Contoured, Single Color or Two-Tone	0	0	0	0	0	0	Bay Units	0	0	0			0
Applied (simulated divided lite)	0	0	0	0	0	0	Bow Units	0	0	0			0
,							20 YEAR WARRANTY	S	S	S	S	S	s
GRILLE PATTERNS							(Certain Limitations may apply)	,		3	,		٦
Colonial, Queen Anne, Bungalow, Deco, and others	0	0	0	0	0	0							
7				_									

YOU will find your Manchester Series windows can be functional on many fronts. Year round efficiency and Energy Star® performance levels are yours by adding one of Quaker's optionalglasspackages (see page 10 fortest data). Further enhance your glass' expression with the addition of bronze or grey tint. Fin-sealed weatherstripping adds an extra shield against air infiltration. Immediately, you'll appreciate all of the Manchester's incredible utility features which make smooth operation and easy cleaning the norm. Sashes tilt in on hung units. Venting units use Truth® Encore™ hardware, which neatly tucks away to stay clear of blinds. All sliding units operate smoothly thanks to tandem-wheel brass rollers.

YOUR FAMILY will quickly come to appreciate your Manchester Series windows for the extra protection factor essentially allowing safety and security concerns to become a thing of the past. Dual locks are standard on all of our larger hung and sliding sizes. Limited travel devices can be added too. You may also wish to choose tempered glass to add safety from dangerous glass breakage. For added privacy in personal areas, Quaker offers obscure glass packages. Metal reinforcements provide extra strength and rigidity to prevent any concern of frame failure when Mother Nature erupts.

YOUR BUILDER will thank you for the time and money savings that Manchester Series windows afford. Every Manchester window comes standard with an extruded nailing fin. An extruded J-Channel is standard on almost every style, including arched windows. Inside, pre-applied wood jamb extensions (stainable/paintable/pre-finished) can be prepped for 4 9/16", 6 9/16" or custom depths. Outside, embolden your home's appearance by adding 3 1/2" or 5" vinyl casing around the circumference of your Manchester windows. For window combination units, avoid job-site hassle with Quaker's factory mulling option.



∞ Want the Essential Upgrade? ∞

Quaker's Crusader Series vinyl window is the definitive choice for strength, security, performance and beauty. Crusader Series windows meet DP-50 structural requirements, meaning they're designed for high wind areas such as the Great Lakes Region and Plains States. They still contain the same good looks and craftsmanship of our Manchester line, plus all options are still available. Crusader Series windows are available in Single Hung, Double Hung, Casement, Horizontal Slider and Picture Windows.



The Features You Want Most In A Window...

Standard Features

- 1. Integral nail fin with warm edge spacer
- 2. ¾″ Insulated glass
- 3. Block and tackle balance system for all hung models
- 4. Operating sashes on all hung units tilt in for convenient cleaning
- 5. Fin-sealed weatherstripping
- 6. Fusion welded corners on frame and sash
- 7. Attractive exterior with simulated brickmold appearance
- 8. Easy screen removal
- 9. Single-lever locking system on venting units
- 10. Truth[™] Encore[®] hardware on venting styles

Available colors: (see page 8) Hardware colors: (see page 4) Glass options (see page 4)

Grids (see page 9)

Painted exterior colors (see page 8)

- Metal reinforcements inside all vital sash rails
- Highest quality, pure vinyl
- Warranty is one of the industry's best See your dealer for full warranty information or go to www.quakerwindows.com
- *Extruded J-Channel not available on venting units



MANCHESTERSeries



Specialty Looks - Two-Tone Painted Vinyl and Wood Grain Interior



Bay & Bow Windows and Customizable Grid Options



Bay and Bow units open up any room, offering the perfect combination of timeless beauty and solid, longlasting construction.

Available In Different Variations

- 13°, 30° or 45°
- 3, 4 or 5 unit configurations
- Hung or venting combinations
- Available with almost every option offered

Flat muntin ~ single color $\frac{5}{8}$ " (standard) ~ $\frac{3}{4}$ " & 1" available Flat muntin ~ two-tone 5/8" Contoured muntin ~ single color & two-tone 3/4"

Simulated Divided Lites

Truly enhance your Manchester windows with Simulated Divided Lites (SDL). SDL's, with their 3-dimensional feel, simulate early window architecture, which used individual glass panes (divided lites) for a decorative and distinct impression. By combining SDL's with the Manchester's exterior brickmold appearance, you'll create a wood window look without the painting and staining associated with wood windows.

Internal

Decorative internal muntins add a touch of class to your Manchester windows. Because they are inside the glass, they are dust and maintenance free.



Grid Designs

Choose one of Quaker's standard designs, or opt for a "personal" or specific look.



Custom Colonial



Queen Anne



Custom





⁷/₈" Available

An ENERGY STAR® Partner



Climate Zone	U-Value	SHGC	Wind Infiltration ≤ 0.30		
Northern	≤ 0.27	Any			
(accepted Alternate #1)	= 0.28	≥ 0.32	≤ 0.30		
(accepted Alternate #2)	= 0.29	≥ 0.37	≤ 0.30		
(accepted Alternate #3)	= 0.30	≥ 0.42	≤ 0.30		
North Central	≤ 0.30	≤ 0.40	≤ 0.30		
South Central	≤ 0.30	≤ 0.25	≤ 0.30		
Southern	≤ 0.40	≤ 0.25	≤ 0.30		

Quaker Window Products And The NFRC





Quaker Window Products Co.

Mnchestr/Advtedge Casement CPD #QWP-M-039-00081-00001 Vinyl Frame * Double Glazed * Argon Filled * LowE DSB + Clear DSB

ENERGY PERFORMANCE RATINGS

0.28

U-Factor (U.S./I-P) Solar Heat Gain Coefficient 0.24

ADDITIONAL PERFORMANCE RATINGS

0.45

62

Manufacturer stipulates that these ratings conform to applicable NFRC procedures for determining whole product performance. NFRC ratings are determined for a fixed set or tal conditions and a specific product size. NFRC does not reco product and does not warrant the suitability of any product for any specific use. Consul www.nfrc.org 644417 001 B & B LUMBER COMPANY

The NFRC Label Rates

The NFRC Does Not

- Ratings may vary depending upon styles and
- Periodic recertification is required, thus results may vary slightly.
- Quaker Window Products reserves the right to



Thermal Performance Data

*ENERGY STAR® performance is based on Residential NFRC sizes: Glazing variations may cause values to vary slightly. For higher efficiencies, see your dealer for glazing options. Periodic re-testing is required. Test data may differ slightly.

Product	Glass Package	U-Value	SHGC	ENERGY STAR (January 1, 2016)				
Tioudot	ENERGYBASIC	0.27	0.28	N, NC				
	ENERGYPLUS	0.24	0.27	N, NC				
	ENERGY 3S	0.27	0.18	N, NC, SC, S				
Manchester Awning	ENERGYMAX	0.24	0.18	N, NC, SC, S				
	ENERGY TG (TRIPLE PANE)			cation will vary deper				
	ENERGY TO (TRIPLE PAINE)			and coats of Low-E				
	ENERGYBASIC	0.27	0.28	N. NC				
	ENERGYPLUS	0.23	0.27	N. NC				
	ENERGY 3S	0.26	0.18	N, NC, SC, S				
Manchester Casement	ENERGYMAX	0.23	0.18	N, NC, SC, S				
	ENERGY TG (TRIPLE PANE)							
	ENERGY TO (TRIPLE PAINE)	Values and Energy Star qualification will vary depend upon the use of, type of and coats of Low-E						
	ENERGYBASIC	0.27	0.32	N, NC				
	ENERGYPLUS	0.22	0.32	N, NC				
Manchester Casement	ENERGY 3S	0.26	0.18	N, NC, SC, S				
Picture Window	ENERGYMAX	0.22	0.21	N, NC, SC, S				
	ENERGY TG (TRIPLE PANE)	Values and Ener	rgy Star qualifi	cation will vary depend				
	,	upon the use of, type of and coats of Low-E						
	ENERGYBASIC	0.30	0.32	NC				
Manchester Double Hung		0.25	0.32	N, NC				
	ENERGYPLUS		0.32					
	ENERGY 3S	0.29		NC, SC, S				
	ENERGYMAX	0.25	0.21	N, NC, SC, S				
	ENERGY TG (TRIPLE PANE)		Values and Energy Star qualification will vary depen upon the use of, type of and coats of Low-E					
	ENERGYBASIC	0.27	0.34	N, NC				
	ENERGYPLUS	0.23	0.34	N. NC				
	ENERGY 3S	0.26	0.23	N, NC, SC, S				
Manchester Picture Window	ENERGYMAX	0.22	0.22	N, NC, SC, S				
	ENERGY TG (TRIPLE PANE)		Values and Energy Star qualification will vary depe					
	ENERGY TO (THIS EE TANE)	upon the use of, type of and coats of Low-E						
	LEUEDOVDAGIO			la.				
	ENERGYBASIC	0.30	0.33	N				
	ENERGYPLUS	0.26	0.32	N, NC				
Manchester Single Hung	ENERGY 3S	0.29	0.22	NC, SC, S				
manufester strigte riung	ENERGYMAX	0.25	0.21	N, NC, SC, S				
	ENERGY TG (TRIPLE PANE)		Values and Energy Star qualification will vary depend upon the use of, type of and coats of Low-E					
			2., 1,00 01	3, 2011 2				
	ENERGYBASIC	0.30	0.33	N				
	ENERGYPLUS	0.26	0.32	N. NC				
	ENERGY 3S	0.29	0.22	NC, SC, S				
Manchester Horizontal Slider	ENERGYMAX	0.25	0.21	N, NC, SC, S				
	ENERGY TG (TRIPLE PANE)							
	ENERGY TO (TRIPLE PANE)	Values and Energy Star qualification will vary dependi upon the use of, type of and coats of Low-E						
	LEMEDOND A OLO	0.00	0.00	lu no				
	ENERGYBASIC	0.29	0.33	N, NC				
	ENERGYPLUS	0.24	0.32	N, NC				
Manchester Patio Door	ENERGY 3S	0.28	0.22	N, NC, SC, S N, NC, SC, S				
Manchester Fally Dudi	ENERGYMAX							
	ENERGY TG (TRIPLE PANE)			cation will vary depend and coats of Low-E				

All testing done without grilles between the glass. The inclusion of grilles may cause the values to vary slightly. Values shown are current as of January 1, 2016. Periodic re-testing is required thus values shown could be different. For the most up-to-date thermal values, ask your dealer. Contact your dealer or Quaker for more information.

All products shown easily pass Energy Star's Wind infiltration criteria of <0.30 psf @ 25 mph. Contact your dealer or go to www.quakerwindows.com for exact air test data.



Size Limitations (Minimum & Maximum) For Manchester Series Windows

PRODUCT	MAX. WIDTH	MAX. HEIGHT	MIN. WIDTH	MIN. HEIGHT
Manchester DH (max. u.i. = 124")	51"	86"	15"	23"
Manchester SH (max. u.i. = 124")	51"	86"	15"	23"
Manchester Picture Window (max. u.i. = 170")	96"	96"	23"	23"
Manchester Casement	36"	72"	18"	24"
Manchester Awning	52"	48"	23"	16"
Manchester Horizontal Slider (max. u.i. = 138")	96"	72"	22"	13"
Manchester Center Vent &				
Manchester End Vent Sliders (max u.i. = 168")	110"	72"	40"	20"

More information on vinyl patio doors and geometrics are available upon request. Other parameters concerning size limitations, united inch (u.i.) limitations, and hardware restrictions may apply. Quaker Window Products reserves the right to change information without notice.

Due to u.i. and structural limitations, maximum width and height may not always be used together.

