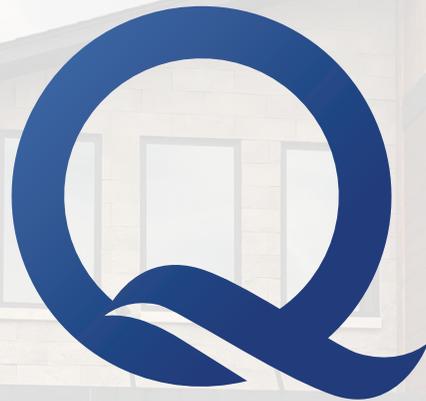


Manchester

VINYL SERIES




QUAKER
RESIDENTIAL



QUAKER
RESIDENTIAL

Warm and inviting. Solid and secure. Carefree and energy efficient.

That's the Manchester Series. Just what you'd expect from
Quaker Windows & Doors.

Over 70 Years of Right Solutions

When shopping for new windows, the choices can be daunting. So we present to you a simple promise: you will have all the tools to make the best window investment possible – courtesy of Quaker's Manchester Series of products and The Quaker Difference.

The Quaker Difference



- Our first-generation, 100% virgin vinyl, will fade less over time, and is generally stronger than typical reground vinyl.
- Vinyl framing is 20% thicker than many leading brands and contains metal inserts in critical areas, so it holds firm against Mother Nature's forces.
- Manchester glass panes are 33% thicker than many other windows on the market, offering increased thermal control and sound deflection.
- Only top-of-the-line hardware, all independently tested to assure years of use.
- Fusion-welded corners form nearly unbreakable and impenetrable joints.
- Multiple quality checks utilized throughout the manufacturing process guarantee a paramount product.
- The best screen mesh on the market, BetterVue™, comes standard with no upcharge, including within our revolutionary flexscreen. BetterVue™ offers better air flow, more optical clarity, and increased insect control than standard screen meshes.
- Unparalleled attention to detail provided by our Manufacturing Specialists, some with more than 40 years of window knowledge.
- Quaker is here for the long run, with over 70 years of proven window and door experience and customer satisfaction.

The Manchester Series by Quaker. It is the right solution for your home.



Single Hung Windows

Built to Last

- Maintenance-free vinyl resists elemental wear over long periods
- Fusion-Welded Corners on frame and sash
- Metal reinforcements in critical areas for extra support during harsh weather

Thermally Efficient

- Dual-sealed 3/4" Insulating Glass with warm-edge spacer
- Meets Energy Star® qualifications in every state
- Fin-Seal Weatherstripping in critical areas

Curb Appeal

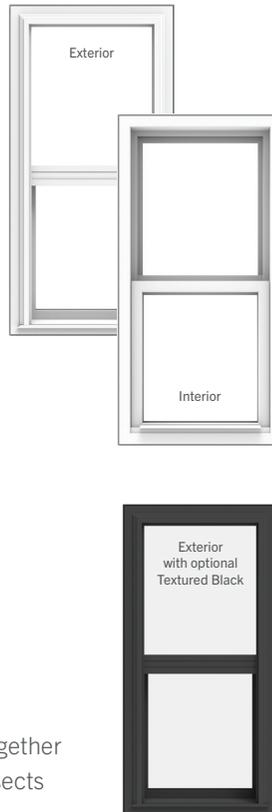
- Faux Brickmold Appearance
- Colors: See pages 12 & 13
- Arch Head and Arch Trapezoid Single Hungs mix stunning looks with functionality

Operational Benefits

- Operating Sash tilts in for easy cleaning
- Cam locking hardware is easy to operate

Multi-Step Protection

- Dual cam locks on all Single Hung windows 24" and wider
- Hidden interlock system at the meeting rail pulls the sashes tightly together
- Half Screen with BetterVue™ screen mesh limits encroachment of insects



For Your Builder

- Integral, Pre-Punched Nail Fin, and J-Channel
- Save job-site labor with optional factory-mulling (*some limitations apply*), applied jamb extensions and trim
- 88 Standard Sizes & Custom Sizing available

Glass Package	U-Value	SHGC	VT	CR	Air Filtration	Energy Star®			
						Qualifying Zones			
						N	NC	SC	S
Energy 3S	0.29	0.22	0.51	59	<0.30		Y	Y	Y
Energy Basic	0.29	0.33	0.56	58	<0.30		Y		
Energy Max	0.25	0.21	0.49	47	<0.30	Y	Y	Y	Y
Energy Plus	0.25	0.32	0.55	47	<0.30	Y	Y		
Energy North	0.26	0.49	0.61	46	<0.30	Y			
Energy TG*	0.23 to 0.26*	0.13 to 0.45*	0.27 to 0.56*	52 to 65*	<0.30	Y	Y	Y	Y

*See Page 7 For More Details

Double Hung Windows

Built to Last

- Maintenance-free vinyl resists elemental wear over long periods
- Fusion-Welded Corners on frame and sash
- Metal reinforcements in critical areas for extra support during harsh weather

Thermally Efficient

- Dual-sealed 3/4" Insulating Glass with warm-edge spacer
- Meets Energy Star® qualifications in every state
- Fin-Seal Weatherstripping in critical areas

Curb Appeal

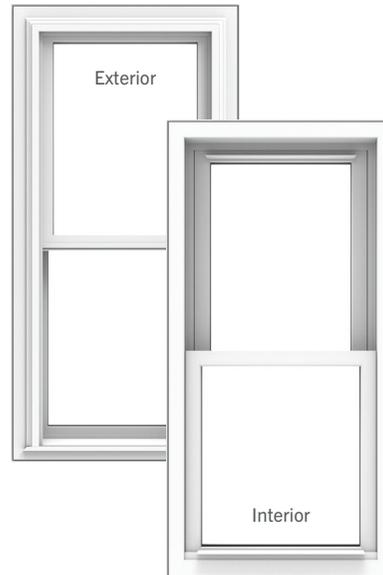
- Faux Brickmold Appearance
- Colors: See pages 12 & 13

Operational Benefits

- Both operating sashes tilt in for easy cleaning
- Cam locking hardware is easy to operate

Multi-Step Protection

- Dual cam locks on all Double Hung windows 24" and wider
- Hidden interlock system at the meeting rail pulls the sashes tightly together
- Full or Half Screen with BetterVue™ screen mesh limits encroachment of insects



For Your Builder

- Integral, Pre-Punched Nail Fin, and J-Channel
- Save job-site labor with optional factory-mulling (*some limitations apply*), applied jamb extensions and trim
- 79 Standard Sizes & Custom Sizing available

Glass Package	U-Value	SHGC	VT	CR	Air Filtration	Energy Star®			
						Qualifying Zones			
						N	NC	SC	S
Energy 3S	0.28	0.22	0.50	58	<0.30		Y	Y	Y
Energy Basic	0.29	0.32	0.56	58	<0.30		Y		
Energy Max	0.25	0.21	0.49	47	<0.30	Y	Y	Y	Y
Energy Plus	0.25	0.32	0.55	46	<0.30	Y	Y		
Energy North	0.26	0.49	0.60	45	<0.30	Y			
Energy TG*	0.23 to 0.26*	0.12 to 0.45*	0.26 to 0.55*	52 to 65*	<0.30	Y	Y	Y	Y

*See Page 7 For More Details

Casement

Built to Last

- Maintenance-free vinyl resists elemental wear over long periods
- Fusion-Welded Corners on frame and sash
- Metal reinforcements in critical areas for extra support during harsh weather

Thermally Efficient

- Dual-sealed 3/4" Insulating Glass with warm-edge spacer
- Meets Energy Star® qualifications in every state
- Bulb Weatherstripping

Curb Appeal

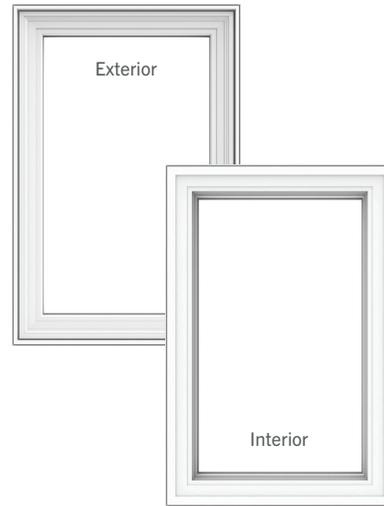
- Faux Brickmold Appearance
- Colors: See pages 12 & 13

Operational Benefits

- Fold-down hardware neatly tucks away to stay clear of window treatments and blinds
- Single latch means even the tallest of casements can be opened in one step
- Hinge left or right
- Revolutionary FlexScreen is easy to remove and reset

Multi-Step Protection

- Full Screen limits encroachment of insects
- Single latch triggers multiple catch points that pull the sash tight and secure
- Hardware that meets safety codes for emergency escape is available upon request



For Your Builder

- Integral, Pre-Punched Nail Fin
- Save job-site labor with optional factory-mulling (*some limitations apply*), applied jamb extensions and trim
- 54 Standard Sizes & Custom Sizing available

Glass Package	U-Value	SHGC	VT	CR	Air Filtration	Energy Star®			
						Qualifying Zones			
						N	NC	SC	S
Energy 3S	0.26	0.18	0.42	62	<0.30	Y	Y	Y	Y
Energy Basic	0.26	0.28	0.47	62	<0.30	Y	Y		
Energy Max	0.23	0.18	0.41	49	<0.30	Y	Y	Y	Y
Energy Plus	0.23	0.27	0.46	49	<0.30	Y	Y		
EnergyNorth	0.23	0.41	0.50	48	<0.30	Y			
Energy TG*	0.21 to 0.24*	0.11 to 0.38*	0.22 to 0.47*	53 to 67*	<0.30	Y	Y	Y	Y

*See Page 7 For More Details

Awning

Built to Last

- Maintenance-free vinyl resists elemental wear over long periods
- Fusion-Welded Corners on frame and sash
- Metal reinforcements in critical areas for extra support during harsh weather

Thermally Efficient

- Dual-sealed 3/4" Insulating Glass with warm-edge spacer
- Meets Energy Star® qualifications in every state
- Bulb Weatherstripping

Curb Appeal

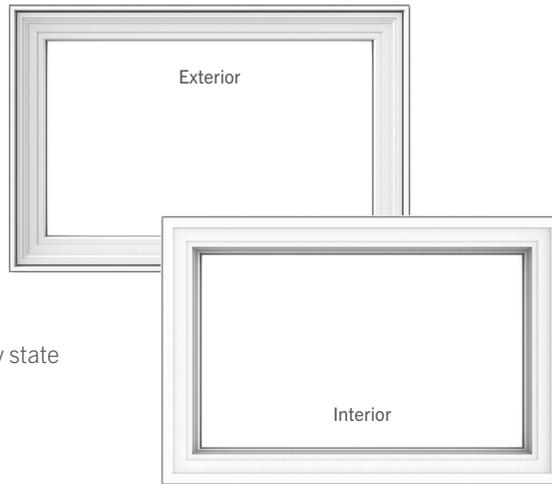
- Faux Brickmold Appearance
- Colors: See pages 12 & 13

Operational Benefits

- Fold-down hardware neatly tucks away to stay clear of window treatments and blinds
- Single flip-up latch makes operation easy
- Revolutionary FlexScreen is easy to remove and reset

Multi-Step Protection

- Single latch pulls the sash tight and secure
- Full Screen limits encroachment of insects



For Your Builder

- Integral, Pre-Punched Nail Fin
- Save job-site labor with optional factory-mulling (*some limitations apply*), applied jamb extensions and trim
- 20 Standard Sizes & Custom Sizing available

Glass Package	U-Value	SHGC	VT	CR	Air Filtration	Energy Star®			
						Qualifying Zones			
						N	NC	SC	S
Energy 3S	0.26	0.18	0.42	61	<0.30	Y	Y	Y	Y
Energy Basic	0.27	0.28	0.47	60	<0.30	Y	Y		
Energy Max	0.23	0.18	0.41	48	<0.30	Y	Y	Y	Y
Energy Plus	0.24	0.27	0.46	47	<0.30	Y	Y		
EnergyNorth	0.24	0.41	0.50	47	<0.30	Y			
Energy TG*	0.22 to 0.24*	0.11 to 0.38*	0.22 to 0.46*	53 to 67*	<0.30	Y	Y	Y	Y

*See Page 7 For More Details



Picture Windows & Geometric Picture Windows

Built to Last

- Maintenance-free vinyl resists elemental wear over long periods
- Fusion Welds at all connecting points
- Metal reinforcements in critical areas for extra support during harsh weather

Thermally Efficient

- Dual-sealed 3/4" Insulating Glass with warm-edge spacer
- Meets Energy Star® qualifications in every state

Curb Appeal

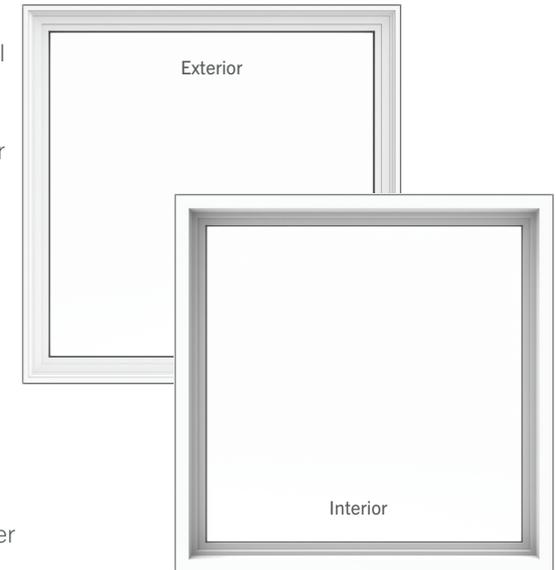
- Faux Brickmold Appearance
- Colors: See pages 12 & 13
- Geometric shapes include: Triangle, Octagon, Arch Head, Half Round, Quarter Round, Oval, Circle, Elliptical, Extended Half Round, Extended Octagon and other shapes

Various Models

- Three Picture Window models available in standard square or rectangular shape
 - Model with matching sightline for Single Hung, Double Hung, and Horizontal Slider
 - Model with matching sightline for Casement and Awning
 - Model with a narrow sightline for the most expansive view

For Your Builder

- Integral, Pre-Punched Nail Fin
- Integral J-Channel (*not available on all models*)
- Save job-site labor with optional factory-mulling (*some limitations apply*), applied jamb extensions, and trim
- 197 standard sizes (to match DH/SH/Slider)
- 182 standard sizes (to match Casement/Awning)
- Custom Sizing



Picture Windows & Geometric Picture Windows

Manchester Model	Glass Package	U-Value	SHGC	VT	CR	Air Filtration	Energy Star®			
							Qualifying Zones			
							N	NC	SC	S
Picture Window for SH, DH, Slider	Energy 3S	0.26	0.23	0.53	61	<0.30	Y	Y	Y	Y
Picture Window for SH, DH, Slider	Energy Basic	0.27	0.34	0.59	61	<0.30	Y	Y		
Picture Window for SH, DH, Slider	Energy Max	0.22	0.22	0.52	48	<0.30	Y	Y	Y	Y
Picture Window for SH, DH, Slider	Energy Plus	0.23	0.34	0.58	48	<0.30	Y	Y		
Picture Window for SH, DH, Slider	EnergyNorth	0.23	0.51	0.63	47	<0.30	Y			
Picture Window for SH, DH, Slider	Energy TG*	0.20 to 0.23*	0.13 to 0.47*	0.28 to 0.58*	53 to 67*	<0.30	Y	Y	Y	Y
Casement Picture Window	Energy 3S	0.26	0.21	0.50	62	<0.30	Y	Y	Y	Y
Casement Picture Window	Energy Basic	0.26	0.32	0.56	62	<0.30	Y	Y		
Casement Picture Window	Energy Max	0.22	0.21	0.49	49	<0.30	Y	Y	Y	Y
Casement Picture Window	Energy Plus	0.22	0.32	0.54	49	<0.30	Y	Y		
Casement Picture Window	EnergyNorth	0.23	0.48	0.60	48	<0.30	Y			
Casement Picture Window	Energy TG*	0.20 to 0.23*	0.13 to 0.45*	0.26 to 0.55*	53 to 68*	<0.30	Y	Y	Y	Y
Narrow Sightline Picture Window	Energy 3S	0.28	0.24	0.55	61	<0.30		Y	Y	Y
Narrow Sightline Picture Window	Energy Basic	0.28	0.36	0.61	61	<0.30	Y	Y		
Narrow Sightline Picture Window	Energy Max	0.23	0.23	0.54	51	<0.30	Y	Y	Y	Y
Narrow Sightline Picture Window	Energy Plus	0.23	0.35	0.60	51	<0.30	Y	Y		
Narrow Sightline Picture Window	EnergyNorth	0.24	0.54	0.66	50	<0.30	Y			

* = Energy TG values shown are ranges based on the use of, type(s) of, and coats of Low-E implemented. Necessary glass combination to achieve Energy Star® qualification will vary. All values shown are NFRC certified and based on NFRC test sizes. 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, 2021. Periodic re-testing is required, thus values shown could be different.

Horizontal Slider

Built to Last

- Maintenance-free vinyl resists elemental wear over long periods
- Fusion-Welded Corners on frame and sash
- Metal reinforcements in critical areas for extra support during harsh weather

Thermally Efficient

- Dual-sealed 3/4" Insulating Glass with warm-edge spacer
- Meets Energy Star® qualifications in every state
- Fin-Seal Weatherstripping

Curb Appeal

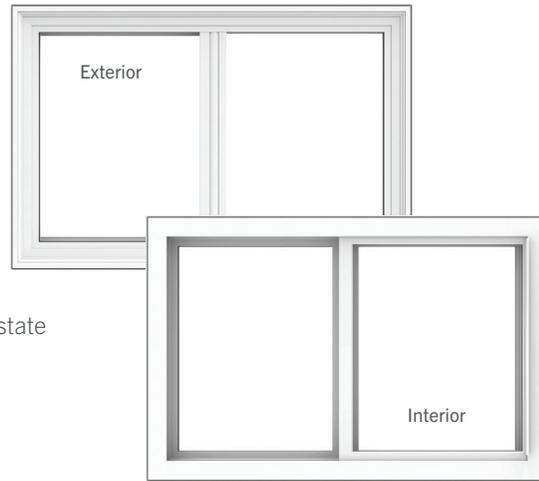
- Faux Brickmold Appearance
- Colors: See pages 12 & 13

Operational Benefits

- Cam locking hardware
- Tandem wheel brass rollers for easy side-to-side operation

Multi-Step Protection

- Dual cam locks on all Sliding windows 24" and taller
- Hidden interlock system at the meeting rail pulls the sashes tightly together
- Half Screen with BetterVue™ screen mesh limits encroachment of insects



For Your Builder

- Integral, Pre-Punched Nail Fin, and J-Channel
- Save job-site labor with optional factory-mulling (*some limitations apply*), applied jamb extensions and trim
- 30 Standard Sizes (Fixed/Glide or Glide/Fixed models)
- 24 Standard Sizes (End Vent and Center Vent models)
- Custom Sizing

Glass Package	U-Value	SHGC	VT	CR	Air Filtration	Energy Star®			
						Qualifying Zones			
						N	NC	SC	S
Energy 3S	0.28	0.22	0.50	60	<0.30		Y	Y	Y
Energy Basic	0.29	0.33	0.56	59	<0.30		Y		
Energy Max	0.24	0.21	0.49	48	<0.30	Y	Y	Y	Y
Energy Plus	0.25	0.32	0.55	47	<0.30	Y	Y		
Energy North	0.26	0.49	0.60	46	<0.30	Y			
Energy TG*	0.23 to 0.26*	0.13 to 0.45*	0.27 to 0.56*	53 to 65*	<0.30	Y	Y	Y	Y

*See Page 7 For More Details

Patio Door

Built to Last

- Maintenance-free vinyl resists elemental wear over long periods
- Fusion-Welded Corners on frame and sash
- Metal reinforcements in critical areas for extra support during harsh weather

Thermally Efficient

- Dual-sealed 1" Tempered Insulating Glass with warm-edge spacer
- Meets Energy Star® qualifications in every state

Curb Appeal

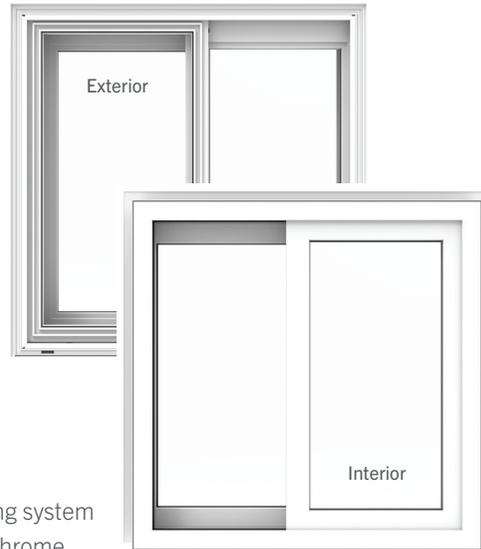
- Colors: See pages 12 & 13
- Optional Blinds between the glass

Operational Benefits

- D-Loop Pull handle with flip-latch or keyed locking system
- Matching hardware colors or optional Polished Chrome, Satin/Brushed Nickel, Black, or Faux Bronze finishes
- Tandem wheel rolling system is strong and steady for smooth and consistent opening and closing
- Heavy-duty aluminum sill easily handles plenty of in-and-out activity
- 2-panel, 3-panel and 4-panel models

Multi-Step Protection

- Tempered Safety Glass
- Rolling screen contains BetterVue™ mesh which limits encroachment of insects
- Optional Keyed Hardware



For Your Builder

- Integral, Pre-Punched Nail Fin
- 30 Standard Sizes & Custom Sizing available

Glass Package	U-Value	SHGC	VT	CR	Air Filtration	Energy Star®			
						Qualifying Zones			
						N	NC	SC	S
Energy 3S	0.28	0.22	0.51	61	<0.30		Y	Y	Y
Energy Basic	0.29	0.33	0.57	61	<0.30		Y		
Energy Max	0.24	0.21	0.50	50	<0.30	Y	Y	Y	Y
Energy Plus	0.24	0.32	0.56	49	<0.30	Y	Y		
EnergyNorth	0.25	0.50	0.61	49	<0.30	Y			
Energy TG*	0.17 to 0.19*	0.12 to 0.45*	0.27 to 0.56*	61 to 66*	<0.30	Y	Y	Y	Y

*See Page 7 For More Details

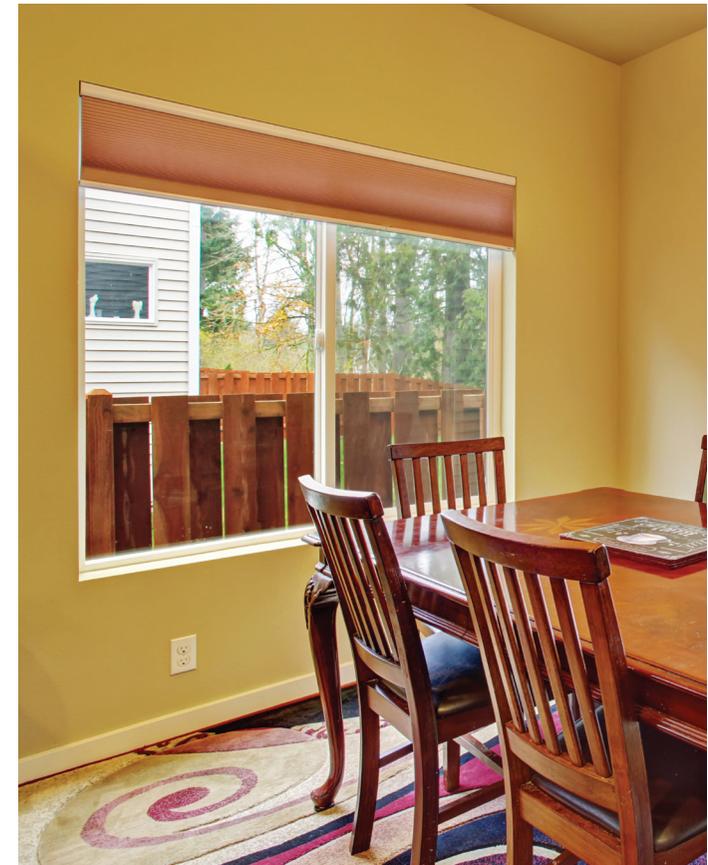
Glass Selection

Unrivaled Glass Performance

Manchester windows and doors have an energy-efficient glass package to suit any climate challenge, heightening efficiency and providing a more consistent level of comfort throughout the year. No matter where you live, Manchester windows and doors have the right solution when it comes to glass.

- EnergyBasic**
 Our basic, single-coat Low-E package furnishes good overall U-Value and SHGC (Solar Heat Gain Coefficient) coverage.
- Energy 3S**
 Our best single-coat Low-E package delivers very good U-Value and significantly better SHGC.
- EnergyPlus**
 With two coats of Low-E, you get fantastic U-Value, plus very good SHGC performance.
- EnergyMax**
 When needing both low U-Value and SHGC, this is our top dual pane glass courtesy of two coats of superior Low-E.
- EnergyNorth**
 Dual pane glass specially developed to take advantage of SHGC requirements in the Energy Star® Northern Climate Zone.
- EnergyEnhanced**
 Our hardest working glass package. Energy-efficient dual Low-E with anti-glare properties score low U-Value and SHGC. Plus Neat® low maintenance coating.
- EnergyTG (Triple Pane)**
 Up to three panes of Low-E glass¹ offer better energy saving performance - plus an extra barrier for sound deflection.

¹ Number of Low-E coats in EnergyTG Triple Pane Glazing can vary.



An Energy Star® Partner

Quaker is proud to be an Energy Star® Partner since 2001. Energy Star® is the trusted symbol of energy efficiency as it identifies highly efficient products. Choosing Energy Star® windows and doors from Quaker means you're saving energy, saving money, improving comfort, reducing condensation potential, adding protection against damaging UV rays, and helping the environment too.



Sound Reduction

Effective sound control is a standard feature for the Manchester, which boasts an STC (Sound Transmission Class) number more than 10% better than ordinary dual pane glass vinyl windows. Ask about upgrades that can achieve up to 30% better STC.

Climate Zone	U-Value	SHGC	Wind Infiltration
Northern	≤ 0.27	Any	≤ 0.30
(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

Criteria shown effective as of Jan. 1, 2016

Customizable Grid Options

Simulated Divided Lites

Truly enhance your Manchester windows with Simulated Divided Lites (SDL). SDLs, with their three-dimensional feel, simulate early window architecture, which used individual glass panes (divided lites) for a decorative and distinct impression.



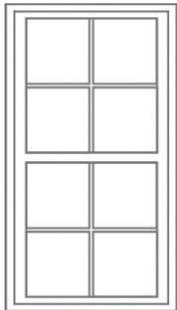
Internal

Decorative internal muntins add a touch of class to your Manchester windows. Because they are inside the glass, they are dust and maintenance free. The architecture of the grid bar can be either a traditional flat design or a more contemporary contoured design.

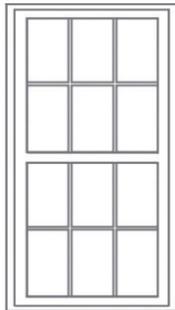


Grid Designs

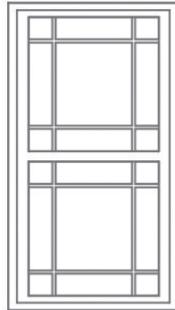
Choose one of Quaker's standard designs, or opt for a "personal" or custom look.



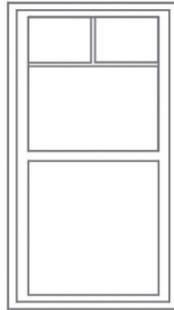
Colonial 4 over 4



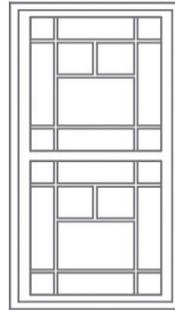
Colonial 6 over 6



Queen Anne



Bungalow



Deco



A Color for Every Space

Vinyl Colors

Three vinyl colors provide a long-standing sheen inside and out. They'll look good from the curb and from the couch. As we use 100% pure, non-recycled vinyl, your colors will remain constant. White will stay white. Sandstone will stay sandstone. Beige will stay beige. No yellowing like re-ground vinyl.



Solid Vinyl Colors



White



Sandstone

Optional Appearances

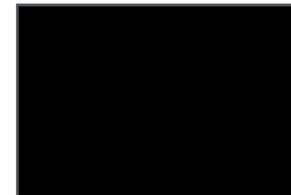


Interior Textured Black

A textured feel with a trendy black color team up for a unique window interior.

Only available with Textured Black exterior.

Not available on Manchester Sliding Door



Exterior Textured Black

A high-performance exterior laminate that combines two in vogue window fashions: Black exterior color and Textured exterior surface.

Only available with White vinyl interior or Textured Black Interior

A Color for Every Space

Painted Exterior Colors

Manchester Painted Exteriors will allow your new home to make a bold statement. Available in an array of colors, these vinyl paint choices are heat-reflective and tough, providing you years of exceptional beauty and remarkable durability. Backed by a limited 15-year warranty, our high-performing paints resist breakdown from the elements.



Toffee



Earthtone



Black



Dark Bronze



Holly Green



Redwood



Chestnut



Satin Creme



White



Sandstone



Beige



Resembles Clear
Anodized

Custom Colors

Don't see a color to your liking? Let our custom color capabilities deliver what you have in mind. Virtually any color in the rainbow is at your fingertips.

Disclaimer: Although every effort is made, the colors shown here may not perfectly reflect the actual paint color once it has been applied. For an exact color match, please contact your Quaker dealer. Quaker Windows & Doors does not assume any responsibility for any misrepresentations of our colors. Quaker Window Products Inc. reserves the right to change any information without notice.





Manchester

VINYL SERIES

See your local authorized Quaker Windows Dealer



www.quakerresidentialwindows.com



August 2021