



## Manchester Windows & Doors



### Maintenance-Free

Manchester Vinyl Windows and Doors industry leading frame and sash design offers superior structural performance, increased scratch resistance and helps prevent overall wear.



### Lower Heating & Cooling Costs

Manchester Windows and Doors offer outstanding thermal protection when measured against competitors' products and are available with a variety of energy efficient glass packages that compliment individual regions and climates.



### Immense Design Possibilities

Two Extruded Solid Frame Colors along with a Textured Black Laminate and a full palette of Painted Exterior Colors for you to chose and design from.



### Budget Friendly

The Manchester Series offers an affordable option created to improve your home's look and increase its energy efficiency.

Superior Structural Performance - Energy Efficient - Maintenance Free

## Manchester Window Highlights, Performance and Operation

- Durable Industry Leading Framing and Sash System
  - 3-1/4" Main Frame
  - 0.060" Frame and 0.070" Sash Thickness
- Mitered and Fusion Welded Corners
- Multiple Glazing Package Options Compliment Regionality and Climate
- Structural Mull Availability Offers Wider and Taller Sizing Options
- Internal or Simulated Divided Lights (SDLs) Available
- Exterior and Interior Color Finish Options
- BetterVue™ Mesh Screen with Aluminum Frame Featuring Watershed Technology

Window Sizing				
Operation	Width		Height	
	Min	Max	Min	Max
Awning	24"	52"	18"	48"
Casement	18"	40"	24"	72"
Casement Picture	16"	96"	16"	96"
Slider	23"	96"	15"	72"
Double Hung	17"	48"	24"	86"
Single Hung	17"	48"	24"	84"
Picture	12"	96"	12"	96"
Direct Set - Narrow	16"	96"	12"	96"

Window Performance						
Operation	Rating	Structural Load (P.S.F.)	Air Infiltration	Water (P.S.F.)	U-Value	SHGC
Awning	R-40	40.10	0.03	6.06	0.25 - 0.28	0.18 - 0.28
Casement	R-50	40.10	0.01	7.52	0.24 - 0.28	0.18 - 0.28
Casement Picture	R-50	50.13	0.01	7.52	0.22 - 0.27	0.21 - 0.32
Slider	R-40	40.10	0.05	6.06	0.25 - 0.30	0.21 - 0.33
Double Hung	R-40	40.10	0.16	6.06	0.24 - 0.29	0.21 - 0.32
Single Hung	R-35	35.09	0.011	5.43	0.25 - 0.30	0.21 - 0.33
Picture	R-50	50.13	0.01	7.52	0.22 - 0.27	0.22 - 0.34
Direct Set - Narrow	R-50	50.13	0.01	7.52	0.23 - 0.28	0.23 - 0.36

## Manchester Sliding Door Highlights, Performance and Operation

- Durable Industry Leading Framing and Sash System
  - 5-5/8" Main Frame
  - 4-9/16" and 6-9/16" Jamb Depths
- Fusion Welded Corners in Frame and Sash
- Aluminum Sill
- Extruded Nail Fin
- Heavy-Duty Tandem Wheel Rollers for Easy Operation
- Custom Color Matching and Heat Reflective Options
- Raised Profile and Applied Grid Capabilities
- Standard and ADA Sill Options
- Optional Blinds Between the Glass

Sliding Door Sizing				
Operation	Width		Height	
	Min	Max	Min	Max
Sliding - Two Panel	36"	96"	32"	96"
Sliding - Three Panel	54"	144"	32"	96"
Sliding - Four Panel	96"	192"	32"	96"
Sidelites	16"	96"	32"	96"
Transoms	14"	106"	12"	96"

Sliding Door Performance							
Operation	Operation	Rating	Structural Load (P.S.F.)	Air Infiltration	Water (P.S.F.)	U-Value	SHGC
Sliding - Two Panel	OX, XO	R - 50	50.13	0.09	7.52	0.24 - 0.29	0.21 - 0.33
Sliding - Three Panel	OXX, OXO, XXO	R - 40	40.36	0.10	5.56	0.24 - 0.29	0.21 - 0.33
Sliding - Four Panel	OXXO	R - 30	30.08	0.11	4.59	0.24 - 0.29	0.21 - 0.33
Sidelites	Fixed	Certifications Pending					
Transoms	Fixed						



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