

# MIKRON R1-100™ SERIES: IDEAL FOR NEW CONSTRUCTION AND REPLACEMENT APPLICATIONS

Innovative Technologies.  
Superior Performance.



## QUICK-TO-MARKET WINDOW SOLUTION

The Mikron R1-100™ is offered as a quick-to-market window solution, available in a variety of configurations for both new construction, light commercial, and replacement projects, including single hung, horizontal slider, casement, awning and picture window. The series is optimized for value, ease of manufacture, transportation, and installation. Superior MikronBlend® vinyl compound ensures optimal weathering and durability, even in the most intense UV, temperature, and coastal environments – making the 100 series an ideal choice for projects in high heat areas. The system incorporates innovative patent-pending SuperCapSR™ solar-reflective color technology on exterior profile surfaces.

**Quanex**  
building products

## SINGLE HUNG (SIDE LOAD)

**OPERABLE SASH** seals tight to frame to effectively mitigate air, dust and water infiltration when sash is closed and locked

**SHARES FRAME AND SASH PROFILES** with horizontal slider; reduces inventory

**INTEGRATED LIFT RAIL** provides easy open and close operation

**FILLER BAR ACCESSORY** for equal vertical sight lines

**T-BAR AVAILABLE** for single perimeter frame with multiple units

**POCKET SILL** for enhanced structural integrity



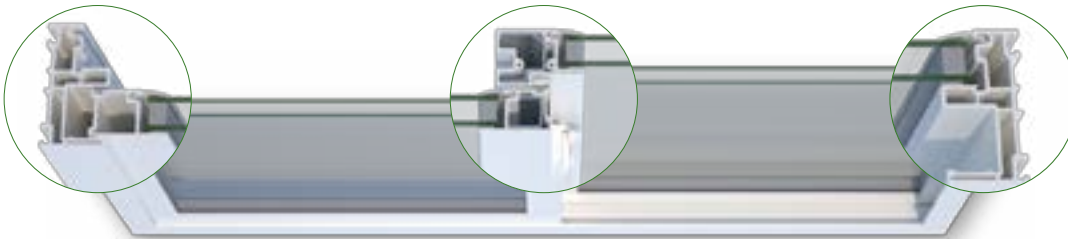
## PICTURE WINDOW

**COMMON FRAME** on all four sides

**DEDICATED, LOW PROFILE FRAME** for ease of bending

**OVER FOURTEEN SQUARE FEET** of daylight opening on a 4' x 4' window

**T-BAR AVAILABLE** for single perimeter frame with multiple units



## HORIZONTAL SLIDER

**COMMON FRAME** on all four sides

**HOLLOW INTERLOCK SASH POCKETS** allow for optimal reinforcement and increased thermal performance

**SHARES FRAME AND SASH PROFILES** with single hung

**FILLER BAR ACCESSORY** for equal horizontal sight lines

**WEATHERSTRIP ROW** at interlock minimizes air infiltration

**CONTINUOUS WEATHERSTRIP PATH** between sash and frame

**EASY OPERATING SASH** with integral pull rail, glides on a raised vinyl track

## CASEMENT/AWNING

**BEVELED FRAME DESIGN** for pleasing aesthetics

**THREE WEATHERSTRIP** contact points for superior air and water performance

**PERIMETER MULL GROOVE** accepts a wide variety of available accessory options

**DIRECT SET CASEMENT** picture window glazing bead option

**T-BAR AVAILABLE** for multiple unit combinations in a single frame



## MIKRON R1-100™ SERIES

### DISTINCT ADVANTAGES

- 2-3/4" frame depth is ideal for new construction and replacement applications.
- Maximum glazing capacity of 3/4"; exterior glazed.
- The series is optimized for value, ease of manufacture, transportation, and installation.
- Block frame or with integral nail fin at 1" and 1-3/8" setbacks.
- Same frame profiles used in single hung and horizontal slider.
- Hollow interlock sash pockets allow for optimal reinforcement.
- Features innovative SuperCapSR™ exterior colors.
- Perimeter accessory groove for ease of mulling and accessory installation.
- Transition bar for single continuous head and sill in numerous unit configurations.
- Integrated pull rail and lift rail provide easy open and close operation.

### VINYL ADVANTAGES

- Vinyl offers 40% better insulating properties than aluminum frame windows and is non-corrosive to last in coastal environments.
- Energy-efficiency contributes to USGBC/LEED potential.
- MikronBlend™ vinyl extrusions are impervious to weather conditions—won't corrode, pit, warp, rot, peel or crack.

**MIKRONBLEND VINYL** stands up to trade industry test standards, and then has to withstand Quanex's additional stringent testing protocol to make the grade. MikronBlend is about peace-of-mind – that your vinyl window and doors will perform year after year – without undue risk of failure in any climate, anywhere. Is it worth the risk to provide anything less?

## STRONGEST WARRANTY IN THE INDUSTRY

**QUANEX EXTENDS TO ITS MANUFACTURERS A 20-YEAR WARRANTY** that Quanex Window & Door profiles will be free from manufacturing defects under normal use and service conditions.

In addition, we'll also help cover labor and incidental material costs associated with removal and replacement of a defective window unit. **NOW THAT IS PEACE-OF-MIND.**

## MIKRONBLEND® – HIGHEST QUALITY VINYL

### NOT ALL VINYL IS CREATED EQUAL.

All Quanex vinyl extrusions feature our proprietary MikronBlend® vinyl compound. MikronBlend is formulated to withstand the toughest conditions and standards. It is tested tough and real world proven for over 30 years. We use it exclusively across all of our manufacturing facilities and it is engineered to be extremely consistent – batch after batch.

### INDUSTRY STANDARD AAMA\* TESTS:



#### AAMA-QUANEX HEAT RESISTANCE TEST

The "AAMA-Quanex" Heat Resistance Test exposes vinyl profiles to extreme heat—300°F—then inspected for stress-related surface changes.



#### AAMA-QUANEX WEATHERABILITY TEST

The "AAMA-Quanex" Weatherability Test confirms the vinyl's performance (color change or retention, plus impact resistance) for various climates.



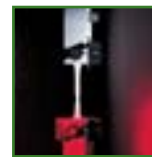
#### AAMA-QUANEX DIMENSIONAL STABILITY TEST

The "AAMA-Quanex" Dimensional Stability Test measures a profile's linear shrinkage at an elevated temperature.



#### AAMA-QUANEX IMPACT RESISTANCE TEST

The "AAMA-Quanex" Impact Resistance Test measures profile resistance to cracking or breaking during the fabrication process.



#### AAMA-QUANEX TENSILE STRENGTH TEST

The "AAMA-Quanex" Tensile Strength Test pulls apart the vinyl sample to determine its strength.



#### AAMA-QUANEX WEIGHT TOLERANCE TEST

The "AAMA-Quanex" Weight Tolerance Test checks that finished profiles conform to the original design's weight.



#### AAMA-QUANEX CORNER WELD TEST

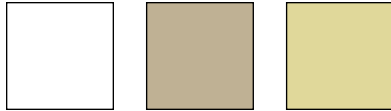
The "AAMA-Quanex" Corner Weld Test applies a weight load—using no set limit—to test the strength of the weld seam as compared to the body of the profile.

\*The American Architectural Manufacturers Association (AAMA) establishes industry standards for strict performance criteria.

## MIKRON R1-100™ SERIES FINISH OPTIONS

### MIKRONBLEND® SOLID VINYL COLORS

Mikron R1-100™ Series is available in three standard colors which provide a permanent finished surface that will never need re-painting.



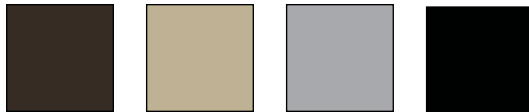
White

Adobe

Almond

### SUPERCAPSR™ EXTERIOR COLORS

Profiles in this system feature Quanex's innovative patent-pending SuperCapSR™ exterior color technology. Drawing upon military infrared reflective technology, which absorbs less solar heat, SuperCapSR actually prevents heat-related profile distortion, even with darker colors. Additionally, the integral color layer provides superior durability.



architectural  
bronze

adobe

silver

black

### OUR EXPERTISE, YOUR BRAND

Choosing Quanex can help your brand and position your company as a manufacturer of high quality vinyl windows. The Mikron R1-100™ Series is specifically offered as a quick-to-market, fast return on investment solution that can help you build market share. Visit [Quanex.com](http://Quanex.com) for additional information or contact a Quanex representative.

### INDUSTRY ASSOCIATIONS



[www.Quanex.com](http://www.Quanex.com)

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building products

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