

Commercial Aluminum Windows and Doors | Commercial Vinyl Windows and Doors



Products and Project References

www.QuakerCommercialWindows.com

Higher Education projects are anything but academic.

There are almost 6,000 colleges and universities in the United States. Each campus has its own history...its own appearance...its own ambience. So when a learning institution has a building project, you can bet the building design will be unique. This is where Quaker excels.

While each learning establishment differentiates itself in many ways, almost every university/college construction project contains many of the same traits:

- shorter time frames to complete the job
- an acute attentiveness to delivery schedules
- maximum safety features with full-functionality
- the ability to withstand everyday wear and tear
- high energy-efficiency where needed
- And just as, if not most important, a keen eye kept on allotted budgets

At Quaker, we fully understand all of these aspects and that's why we're so effective when working with colleges and universities. Whether it's constructing a new dormitory or revitalizing an historic campus centerpiece, we have the products and the experience to make your next project pass with flying colors.





www.QuakerCommercialWindows.com

The Quaker Difference: More than meets the eye.

What distinguishes Quaker from all other window companies isn't always in plain sight. It's The Quaker Difference -- tangible and intangible assets working together to form the most sought-after windows in the market.

- It's a standard of craftsmanship and engineering excellence that we build into every product, distinguishing us from all other window companies in America.
- It's shying away from testing at entry-level, gateway sizes. Instead, we test using • exaggerated and even maximum sizing. This ensures the entire scope of a product's sizing will meet the advertised rating.
- It's our "can-do" attitude toward custom projects. Never is a job too custom for Quaker. • Our options and accessory choices allow us to do what others can't.
- It's multiple quality checks implemented throughout the manufacturing process to • guarantee a paramount product.
- It's our state-of-the-art powder paint facility, one of the largest in the U.S., which allows us to control the quality • and consistency of our finish, unlike manufacturers that outsource their painting. As well, it supports our "green" initiatives by employing environmentally-friendly coatings that emit nearly zero VOCs into the air.
- It's employing thicker glass panes which will both lower the amount of stress cracks and raise your ability to • control sound intrusion.
- It's professional manufacturing specialists, some with more than 40 years of window experience, providing • unparalleled attention to detail from start to finish.
- It's a sales team fully-dedicated to the commercial building sector, working hard to ensure that the product you • need is the product you order.
- It's doing more than just selling windows and doors. It's finding the right product solution for your project. •

That's The Quaker Difference.

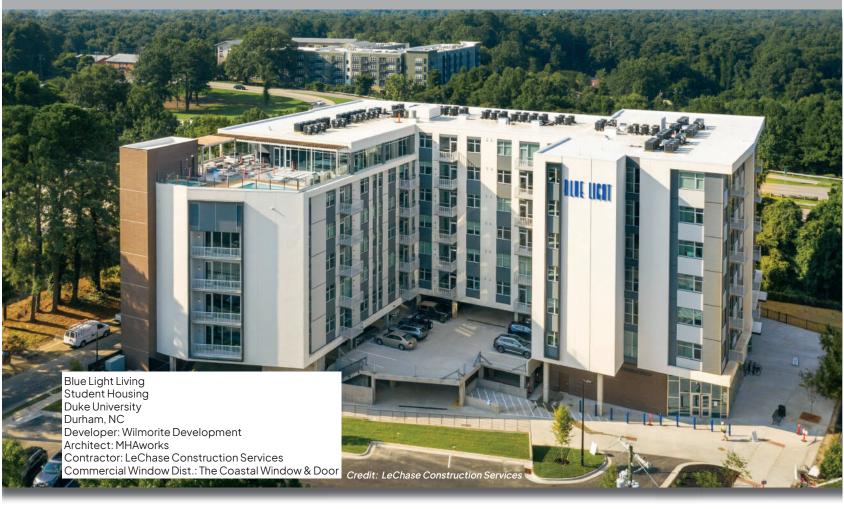




800-347-0438

Aluminum Windows and Doors

Hung | Casement | Project-Out | Slider | Fixed | Doors



FEATURES:

- CW to AW ratings
- Architecturally extruded aluminum
- All products include a thermally-broken design
- Patented OptiCore[™] technology for enhanced thermal efficiency (C600/C605 only)
- Modern, squared sash frame or Traditional/Historic sash frame (availability varies based on series and model)
- ³/₄" to 1 ³/₈" I.G. with warm-edge spacer
- Commercial-grade hardware
- Full line of operating and fixed window models
- Sliding and Terrace Door models
- Product lines perfect for both New Construction and Replacement applications

BENEFITS:

- Industry-leading thermal efficiencies
- Green initiatives built into every product
- In-house powder coat facility means no lengthy lead times
- Custom color capabilities
- Split color option i.e. separate colors on exterior and interior (C600/C605 only)
- Great STC/OITC performance
- Blinds/Panel option (C600/C605 and E600 only)
- Standard and custom sizing for all models
- Impact and Florida Building approved products

Model	Series	Frame Depth	Structural Test Rating	Test Size	Air Infiltration	Water Resistance	U-Value Range [#]	SHGC Range [#]	STC Range ^X	OITC Range ^X
Casement	C600/C605	4 1⁄8"	Up to AW100	48" x 84"	<.10	15.04	.19–.48	.11–.44	28-41	23-34
	E600	3¼"	Up to AW100	36" x 72"	<.10	15.04	.32–.48	.12–.26	31–44	25-34
	H450	3 ¼"	CW90	36" x 60"	<.10	12.11	.39–.48	.14–.48	34–37	29-32
	M600	3 ¼"	AW-PG70	36" x 60"	<.10	15.04	.39–.48	.19–.29	29-43	23-31
Project-Out	C600/C605	4 ¼"	AW100	60" x 36"	<.10	15.04	.19–.44	.11–.44	34	27
	E600	3¼"	AW100	60" x 36"	<.10	15.04	.32–.48	.10–.41		
	H450	3¼"	CW70	60" x 36"	<.10	12.11	.4060	.14–.59		
	M600	3 ¼"	AW-PG70	60" x 36"	<.10	15.04	.33–.45	.19–.29	41–43	33-34
Project-In	E600	3 ¼"	AW100	60" x 36"	<.10	15.04	.32–.48	.12–.26		
	E300	3 ¼"	CW-PG50	56" x 91"	<.30	7.52	.35–.40	.13–.30		
Single	E500	3 ¼"	AW-PG40	60" x 99"	<.30	8.15	.37–.42	.13–.46		
Hung	H650/H655	4 1⁄8"	AW-PG60	60" x 99"	<.30	12			31–32	24–26
	T500	3 ¼"	AW-PG50	60" x 99"	<.30	12	.37–.42	.14–.33		
Double	E300	3¼"	CW-PG50	47" x 59"	<.30	7.52	.35–.40	.13–.30	34-36	28-31
Hung	E500	3 ¼"	AW-PG40	60" x 99"	<.30	8.15	.37–.42	.13–.46		
	E300	3¼"	CW-PG50	72" x 60"	<.30	7.52	.35–.40	.14–.31		
Horizontal Slider	E500	3¼"	AW-PG50	99" x 79"	<.30	10.03	.36–.41	.13–.48	33	28
	K200	2 ³⁄8"	CW-PG40	72" x 60"	<.30	6.06	.38–.44	.14–.33	47-51	35-39
	C600/C605	4 1⁄8"	AW-PG100	60" x 99"	<.10	15.04	.14–.44	.13–.57	30-40	30
Fixed	E300	3¼"	AW-PG50/CW70	60" x 99"	<.10	10	.25–.48	.16–.37		
	E500	3 ¼"	AW-PG50/CW70	60" x 99"	<.10	10	.25–.48	.16–.37		
	E600	3 ¼"	AW-PG100	60" x 99"	<.10	15.04	.25–.44	.16–.37		
	H450	3¼"	AW-PG110	72" x 120"	<.10	15.04	.26–.50	.16–.69		
	H650	4 ¼"	AW-PG90	60" x 99"	<.10	15.04				
	K200	2 ³⁄8"	CW50	64" x 71"	<.30	7.52	.27–.32	.16–.37		
	M600	3¼"	AW-PG50	60" x 99"	<.10	12.11	.18–.32	.23–.36	32-41	26-33
Terrace Door (inswing)	M600/M605	4 1⁄2"	AW50	48" x 96"	<.30	10.03	.35–.39	.13–.43		
Terrace Door (outswing)	M600/M605	4 1⁄2"	AW70	48" x 96"	<.30	12.11	.37–.42	.13–.43	34-43	30-33
Terrace Door (outswing)	M600/M605 (w/ADA threshold)	4 1⁄2"	AW50	48" x 96"	<.30	10.03	.3742	.13–.43		

*-Ranges based on multiple Low-E/Argon I.G. combinations

^x-Ranges based on multiple I.G. combinations

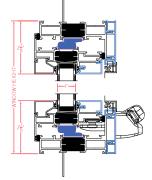
All ratings listed are NAFS certified. Periodic re-certification testing is required thus data shown may vary slightly.

Aluminum Products Series and Models

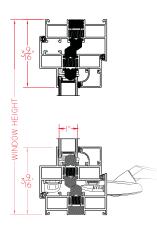
Casement

C600 Series

Shown with nailing fin, roto hardware, and modern, square exterior glazing



E600 Series Shown with roto hardware

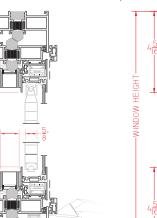


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Shown with nailing fin, roto hardware, and and traditional, sloped exterior glazing

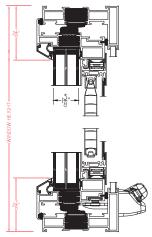
C605 Series

E600 Series with blinds/panel Outswing model Inswing Model shown without nail fin, with roto hardware

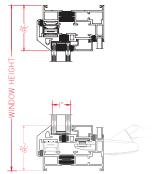


C605 Series with blinds/panel

Shown without nailing fin, with optional triple-pane I.G., roto hardware, & beveled exterior glazing



H450 Series Shown with roto hardware



M600 Series Shown with roto hardware and optional nailing fin

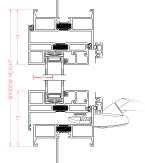


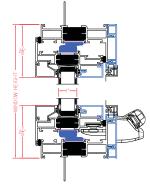
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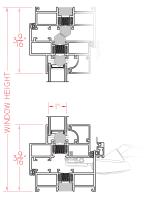
Project-Out

C600 Series

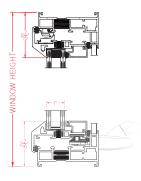
Shown with nailing fin, roto hardware, and modern, square exterior glazing



E600 Series Shown with 4-bar roto hardware

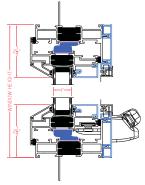


H450 Series Shown with roto hardware

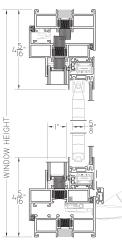


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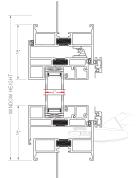
C605 Series Shown with nailing fin, roto hardware, and beveled exterior glazing



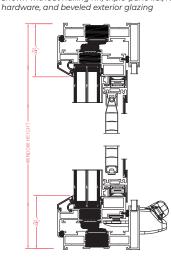
E600 Series with blinds/panel Shown with roto hardware



M600 Series Shown with 4-bar roto hardware and nail fin



C605 Series with blinds/panel Shown without nailing fin, triple-pane I.G., roto



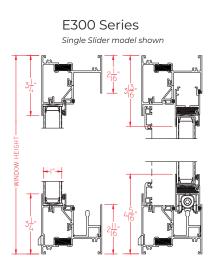




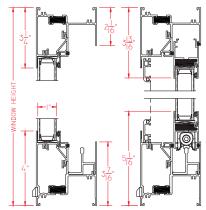
Project-In



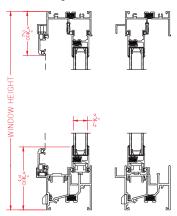
Horizontal Slider



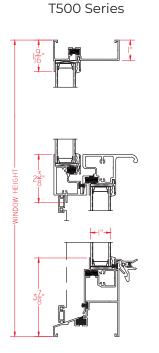


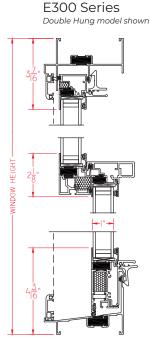


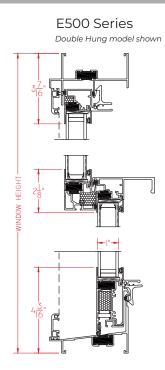
K200 Series Single Slider model shown

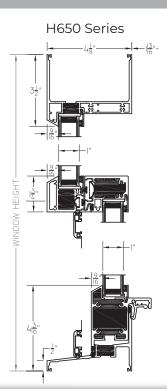


Single Hung/Double Hung









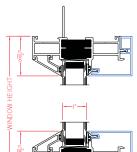


Fixed

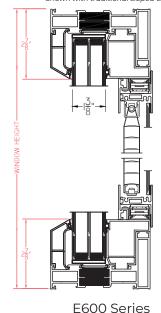
Shown with nailing fin and modern, square exterior glazing

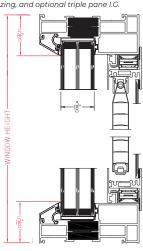
C600 Series

C605 Series Shown with nailing fin and traditional, sloped exterior glazing

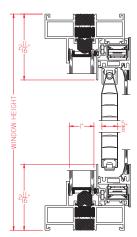


C605 Series with blinds/panel Wide Rail Narrow Rail Shown with traditional sloped exterior glazing, and optional triple pane I.G.

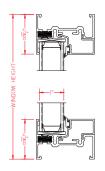




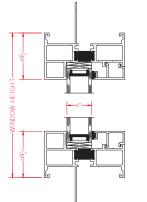
E600 Series with blinds/panel



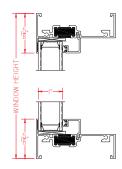
K200 Series



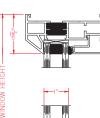
M600 Series Shown with optional nailing fin



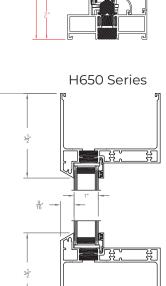
E300 Series



H450 Series







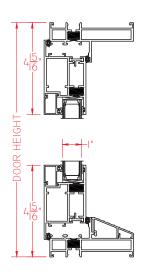
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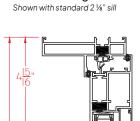


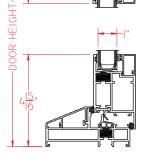
Terrace Doors (Standard Sill)

M600 Inswing Series

M600 Outswing Series Shown with standard 21/6" sill







Shown with ADA threshold, 10" bottom rail, and optional nail fin $4\frac{15}{16}$ DOOR HEIGHT $10\frac{1}{L}$

M600 Outswing Series



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Vinyl Windows and Doors

Hung | Casement | Project-Out | Slider | Fixed | Doors



FEATURES:

- LC to CW Ratings
- 100% pure uPVC vinyl
- Fusion welded corners
- .060 Vinyl thickness
- Metal reinforcements in critical areas
- Amesbury/Truth[®] operating hardware
- Block & Tackle balancers on all hung units
- ³/₄" to 1³/₈" I.G. with warm-edge spacer
- Full line of operating and fixed window models
- Sliding and Terrace Door models
- Product lines perfect for both New Construction and Replacement application

BENEFITS:

- Value added alternative to traditional aluminum windows
- Industry-leading thermal efficiencies
- Green initiatives built into every product
- Impact and Florida Building approved products
- Great STC/OITC performance
- Custom painted exterior color capabilities*
- Standard and custom sizing for all models

*-Availability may vary



Viny Product Selection Guide

Model	Series	Frame Depth	Structural Test Rating	Test Size	Air Infiltration	Water Resistance	U-Value Range [#]	SHGC Range [#]	STC Range ^X	OITC Range ^X
Casement	V250	3¼"	LC30	32" x 60"	<.30	5.43	.21–.32	.11–.43		
	V300	3 ¼"	CW50	36" x 78"	<.30	7.5	.17–.28	.11–.27	34-41	29-34
Project-Out	V250	3 ¼"	LC35	48" x 32"	<.30	5.43	.22–.47	.12–.28		
	V300	3 ¼"	CW50	60" x 32"	<.30	7.5	.24–.47	.11–.41	35	29
Single Hung	V250	3 ¼"	LC35	36" x 84"	<.30	7.5	.25–.48	.14–.51	29-35	24-29
	V300	3 ¼"	CW50	56" x 91"	<.30	7.5	as low as 0.25	as low as 0.25	32-34	26-29
Double Hung	V250	3 ¼"	R50	36" x 84"	<.30	7.5	.23–.33	.14–.50		
Horizontal Slider	V250	3¼"	R40	63" x 44"	<.30	7.5	.23–.51	.14–.50	29-31	24–28
	V300	3¼"	CW50	71" x 60"	<.30	7.5	as low as 0.25	as low as 0.25	32-34	26–29
Fixed	V250	3¼"	LC35	56" x 56"	<.30	5.43	.21–.32	.15–.53		
	V300 (wide rail)	3¼"	CW50	72" x 84"	<.30	7.5	.14–.46	.13–.49	35	29
	V300 (narrow rail)	3¼"	CW50	78" x 78"	<.30	7.5	.21–.46	.11–.55		
Sliding Door	V250	5 ⁵ ∕8"	R50	72" x 82"	<.30	7.5	.17–.30	.12–.51		
Swing Door	3 ¼"	3 ¼"	CW50	40" x 84"	<.30	7.5	as low as 0.24			

*-Ranges based on multiple Low-E/Argon I.G. combinations

^x-Ranges based on multiple I.G. combinations

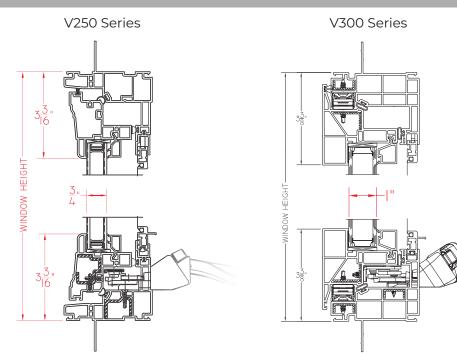
All ratings listed are NAFS certified. Periodic re-certification testing is required thus data shown may vary slightly.



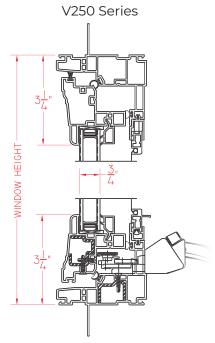


Viny Products Selection Guide

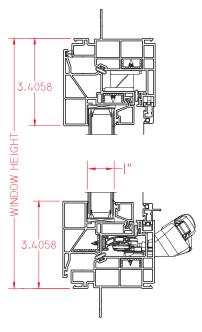
Casement



Project-Out



V300 Series



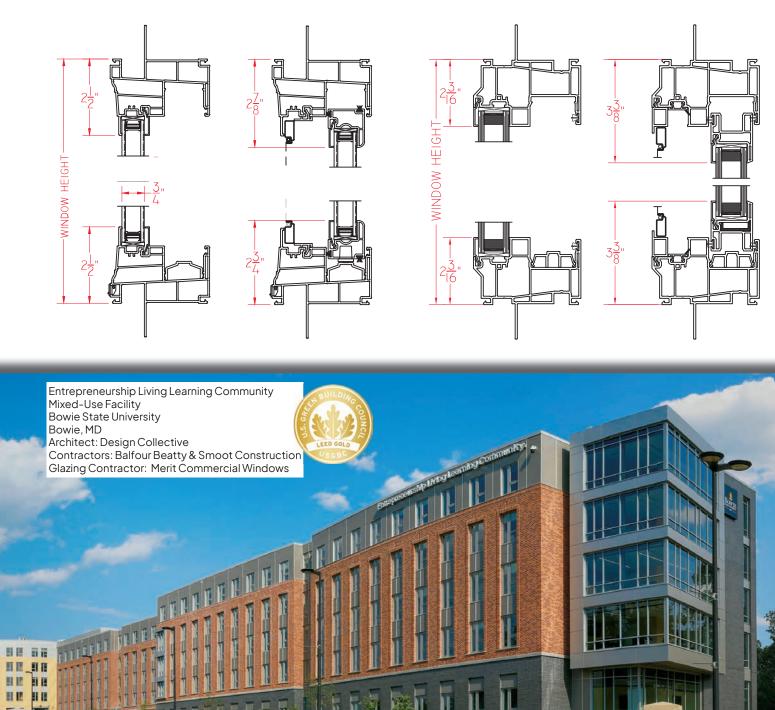


VinylProducts Selection Guide

Horizontal Slider

V250 Series

V300 Series



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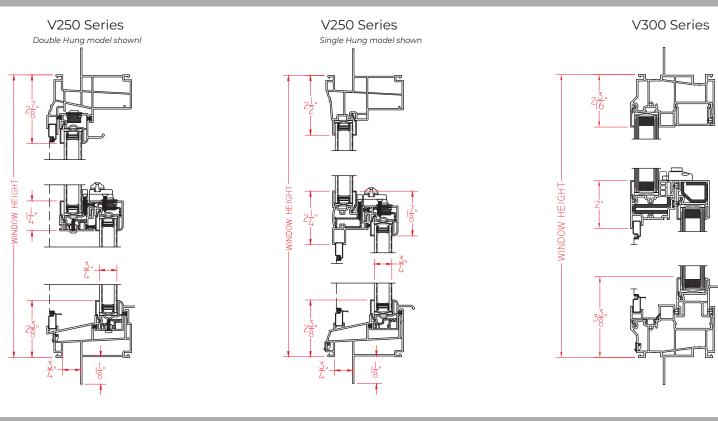
Credit: Prince George's Suite Magazine & Media

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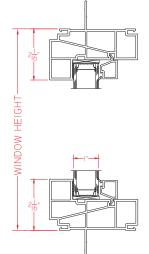
Viny Products Selection Guide

Single Hung/Double Hung

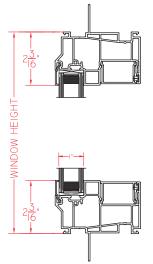


Fixed

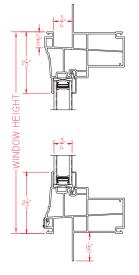
V300 Series Sash set model to match all



V300 Series Sash set model to match all hung and horizontal sliding units

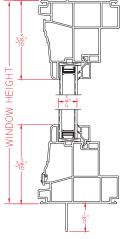


V250 Series Sash set model to match all hung and horizontal sliding units



V250 Series

Sash set model to match all casement and project-out units



casement and project-out units

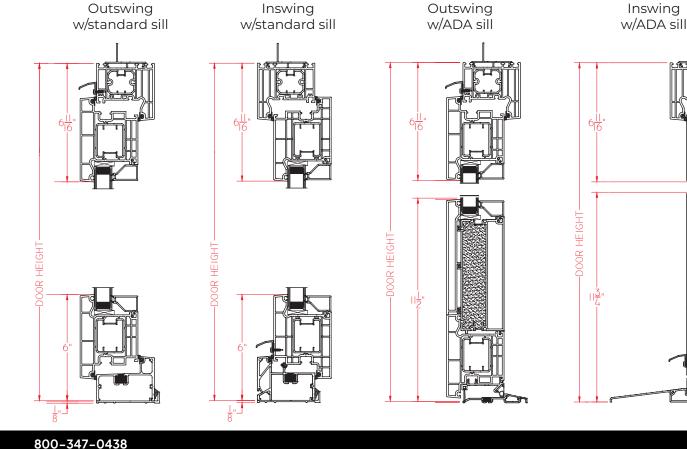


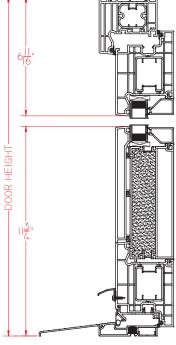
Viny Products Selection Guide

Sliding Door



V300 Series





INIT DIMENSIO

Options Mulls and Accessories

Quaker mull systems deliver ultimate confidence, whether you're stacking units or pairing them side-by-side. Or both. In addition, Quaker has a multitude of accessories for both aluminum and vinyl products to provide a smooth and thorough install.

Aluminum

- Vertical and Horizontal Mull Systems. Factory-mulled* or sent loose for jobsite installation
- Receptors and Subsills
- Panning and break metal
- Anchor straps
- Interior and exterior trim
- Custom, job-specific accessory dies and more.

Vinyl

- Vertical and Horizontal Mull Systems. Factory mulled* or sent loose for jobsite installation
- Receptors
- Panning
- Casing
- Trim and jamb extensions
- and more.

Other factory-applied* options and accessories include: Louver systems to accomodate HVAC, WOCDs (Window Operating Control Devices), Trickle Vent, and more.

*Size limitations may apply for factory-mulling and factory-applied options.

Other limitations may apply to mulls/accessories (listed or not listed above) based upon several variables including, but not limited to, the window/door series chosen, and requested/required specifications.





Options Colors & Finishes

From white to black and everything in between, Quaker has the right color for your project. Add architectural flair through textured coatings. Deliver longevity with upgraded finishes.

For Quaker Aluminum Windows:

- Choose from nearly 40 "Quick-Pick" colors
- Custom Colors: Need a special look? That's one of our specialties. Quaker's custom color capabilities put any color at your fingertips.
- Finishes:
 - Standard Finish: FGIA 2604 Finish
 - Optional Upgrade: 2605 Finish is available for most colors*
 - Heat Reflective finishes*
- Class | Anodized is available upon request

*2605 and Heat Reflective finishes not available with all colors

Aluminum Paint Warranty

- 10-year limited warranty on 2604 paint finish
- 15-year limited warranty on 2605 paint finish
- 5-year limited warranty on Anodized finishes

For Quaker Vinyl Windows:

- Pure uPVC in White or Sandstone colors
- Painted Vinyl: Exterior only. Quaker's painted vinyl affords a color palette which far exceeds traditional expectations because of an ability to produce any custom color you have in mind.
- Standard Finish: FGIA 615-05 for all painted vinyl colors
- High-Performance Laminate Coatings: Laminate coatings, which are in accordance to RAL GZ 716/1, can be used on the exterior of all vinyl products. For a limited amount of Quaker's vinyl windows, laminate can be added to the interior too.

Vinyl, Vinyl Paint and Vinyl Laminate Warranty

• 10-year limited warranty on vinyl colors, painted exteriors and laminate coatings.

See complete warranty details at QuakerCommercialWindows.com







Options Glass

Whether glass specs call out thermal values, special tints, sound control, or safety necessities - or a combination of some or all - Quaker has the products and the know-how to accommodate.

Pane thickness:

- $\begin{array}{c} \cdot 3/_{32} \\ \cdot 1/_{8} \\ \cdot 5/_{32} \\ \cdot 5/_{16} \\ \cdot 5/_{16} \end{array}$

- I.G. thickness:
 - ³/₄" (Double pane)
 - 1" (Double pane)
 - 1³/₈" (Triple pane)

Glass Types:

- Dual Silver Low-E
- Triple Silver Low-E
- Interior Pane Low-E
- Tempered Safety Glass
- Laminated
- Spandrel
- Solar-Cooled
- Obscure (for privacy)
- Tinted
- Mirror
 - and many others

Some limitations may apply based upon several variables including, but not limited to, the window/door series chosen and requested/required specifications.

Specialty Choices:

- Insulated Panels
- Blinds/Panel
- **Eco-Friendly Choices:** • Bird Glass
 - Turtle Glass



Options Grids

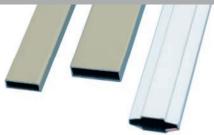
Simulated Divided Lites (SDL)

Grids Between the Glass (GBG)



- For Aluminum and Vinyl products
- Numerous profiles and combinations available (1/2" to 3 3/4" wide)*

Shown are a small sampling of the many SDL grid profiles Quaker has available.



- For Aluminum and Vinyl products
- Flat (5/8", 3/4" or 1" wide)*
- Contoured (3/4" wide)*

*Some usage limitations may apply





Quaker Support Services

Quaker's expertise and support services are unmatched in the industry. While every project is distinct, Quaker offers in-house processes which consistently cover every detail. These fool-proof procedures ensure your project and our products are a perfect match.

- Quaker has a dedicated commercial team with more than 150 years of industry experience
- Quaker's team will assist with every facet; design development, budgetary aspects, and project management



PROJECT AND SPECIFICATION REVIEW

How many stories are in the building? Where is it located? How large are the windows? These and other important questions must be answered before moving forward.



ENGINEERING & DESIGN ASSESSMENT

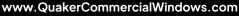
After evaluating every component making up your project, our professional engineering expertise is put to work, as we carefully calculate customized solutions to best meet your spec's requirements.



LOCAL AND ARCHITECTURAL SALES SUPPORT

Quaker's Sales Representatives, many with 25+ years of knowledge and industry pedigree, have a vested interest in working beside you...not from afar. If you have questions, they want to answer them. If you have a concern, it's their concern too.







Special Applications with defined expectations. Quaker has solutions.

Impact

- Products that meet ASTM 1886 (Large Missile Impact - Level D) testing requirements
- Alumimum and Vinyl Windows
- Casement, Project-Out, Horizontal Slider and Fixed models
- Aluminum Sliding and Terrace Doors
- Various anchorage systems based on product



Florida Building Code

- Multiple products that meet all required FBC calculations
- Alumimum and Vinyl Windows
- Casement, Project-Out, Horizontal Slider and Fixed models
- Aluminum Sliding and Terrace Doors
- Approved anchorage systems
- See full information at FloridaBuilding.org







Special Applications with defined expectations. Quaker has solutions.

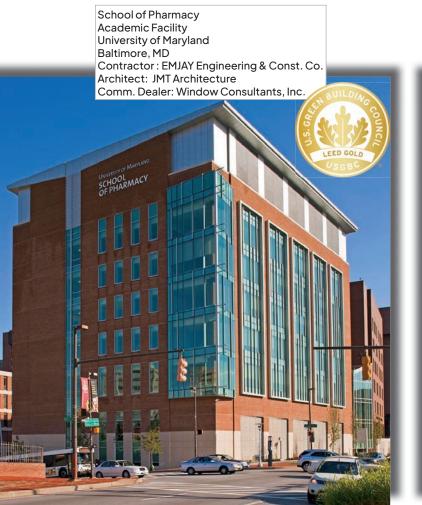
LEED[®]



- Operating and fixed models can assist with garnering LEED points for your higher education project
- LEED Building Design and Construction (LEED BD+C) works for both new construction and replacement commercial projects
- World's preeminent green building organization

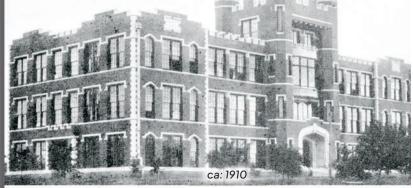
Historical Replication

- Strong history of working with National Park Service's Historic Preservation division
- Hung, Casement, Project-Out, Fixed, and Floating Operator models
- Aluminum windows with historically accurate sight lines and beveled frames
- Standard or customized panning and installation accessories to achieve a completely faithful window renovation
- Patented technology
- Historical windows that can help your higher education project secure Federal &/or State tax credits



Credit: JMT Architecture/jmtarchitecture.com

Ryerson Hall Academic Facility NW Oklahoma State University Alva, OK Contractor: ATG Construction, Inc. Architect: Easley Associates Architects Comm. Window Distributor: Starr Lumber





Credit: NW Oklahoma State University PR Department





References

See more of Quaker in completed projects on these campuses

ALABAMA

Troy University - Troy Tuskegee University - Tuskegee

Arkansas

Arkansas Baptist College - Little Rock John Brown University - Siloam Springs Southern Arkansas University - Magnolia

CALIFORNIA

Cal-State University - Northridge Vanguard University - Costa Mesa

CONNECTICUT

University of Connecticut - Storrs

ILLINOIS

University of Chicago - Chicago University of Illinois - Champaign Wheaton College - Wheaton

INDIANA

Calumet College of St. Joseph - Whiting Earlham College - Richmond Holy Cross College - South Bend Indiana University - Bloomington Marian University's Ancilla College - Plymouth Taylor University - Upland Trine University - Angola

Iowa

Iowa State University - Ames

Kansas

Ottawa University - Ottawa Washburn University - Topeka

KENTUCKY

Berea College-Berea

Louisiana

Louisiana Tech - Ruston

MARYLAND

Maryland Institute College of Art - Baltimore

MICHIGAN

Saginaw Valley State University - Saginaw

MISSISSIPPI

Millsaps College - Jackson Mississippi College - Clinton Mississippi State University - Starkville Northwest Community College - Senatobia William Carey University - Hattiesburg

MISSOURI

Central Methodist University - Fayette Culver-Stockton College - Canton Harris-Stowe State University - St. Louis University of Missouri - Columbia Missouri State University - Springfield Missouri Univ. of Science & Technology - Rolla Moberly Area Community College - Moberly Southeast Missouri State University - Cape Girardeau Stephens College - Columbia Washington University - St. Louis

NEBRASKA

Chadron State College - Chadron Metro Community College - Omaha

New Jersey

Rutgers University - Newark

New York

Colgate University - Hamilton Stony Brook University - Stony Brook





www.QuakerCommercialWindows.com



North Carolina

Meredith College - Raleigh North Carolina State University - Raleigh Western Carolina University - Cullowhee

OHIO

University of Dayton - Dayton Kenyon College - Mt. Vernon Oberlin College - Oberlin Ohio University - Athens Ohio Dominican University - Columbus The Ohio State University - Newark University of Toledo - Toledo

Oklahoma

University of Oklahoma - Norman

Oregon State University - Corvallis

PENNSYLVANIA

Carnegie Melon University - Pittsburgh Juniata College - Huntingdon University of Pittsburgh - Bradford Shippensburg University - Shippensburg Washington & Jefferson College - Washington

SOUTH CAROLINA

Converse University - Spartanburg

TENNESSEE

American Baptist College - Memphis East Tennessee State Univ. - Johnson City Emory & Henry College - Johnson City Freed-Hardman University - Henderson University of Memphis - Memphis Middle Tennessee State Univ. - Murfreesboro Milligan College - Johnson City University of Tennessee - Martin

TEXAS

Texas College - Tyler

VIRGINIA

George Mason University - Fairfax Hampton University - Hampton James Madison University - Harrisonburg Virginia Commonwealth University - Richmond

WASHINGTON DC

The George Washington University Georgetown University

WEST VIRGINIA

Marshall University - Huntington

WISCONSIN

Marquette University - Milwaukee University of Wisconsin - Madison





QUAKER UNIVERSITY/COLLEGE

Find more information on Quaker windows and doors



QuakerCommercialWindows.com

1-800-347-0438

⊠ commercial@quakerwindows.com



Made in America: All Quaker products are designed and manufactured in the United States at our state-of-the-art facilities in Eldon, MO (above) and Freeburg, MO.



April, 2024 V2



On the Cover: Rev Northgate Student Housing Texas A & M University College Station, TX Developer: Parallel Co. Architect: Rhode Partners Contractor: Rogers-O'Brien Construction Co. Glazing Contractor: Binswanger Enterprises

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