# Q QUAKER COMMERCIAL

# V-SERIES
## COMMERCIAL VINYL WINDOWS & DOORS

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

*Render courtesy www.VerveColumbus.com*

## Design Flexibility.
## Budgetary Advantages.
## Advanced Energy Efficiencies.

## www.QuakerCommercialWindows.com

# V-SERIES

**COMMERCIAL VINYL WINDOWS & DOORS**

Quaker's V-Series family of commercial vinyl windows and doors is the new benchmark for today's design professionals, builders and glazing contractors. The V-Series puts an end to outdated perceptions of commercial vinyl while securing trust on both structural and thermal fronts.

## V100

An ideal, cost-conscious window and door alternative for low-rise light commercial projects.

## V200

Design flexibility paired with energy savings. Built-in budgetary advantages are a bonus.

## V250

Windows and doors that level-up from the norm. Built to stand strong against feisty inland weather.

## V300

Effectively taking vinyl to new heights. An advantageous go-to in place of traditional aluminum.

## V700

Exceptional Impact-tested vinyl windows. Specifically designed to meet ASTM 1886 test requirements.

Talo Apartments
Golden Valley, MN
Developer: Forum Investment Group
Contractor: Greiner Construction
Architect: Tushie Montgomeyer
Comm. Window Distributor: Scherer Bros.

# V-SERIES
## COMMERCIAL VINYL WINDOWS & DOORS
# Selection Guide

Q

| Model | Series | Frame Depth | Structural Test Rating | Test Size | Design Pressure | Air Infiltration | Water Resistance | U-Value Range# | STC RangeX | OITC RangeX |
|---|---|---|---|---|---|---|---|---|---|---|
| Single Hung | V100 | 2 ¾" | R40 | 40" x 63" | 40 | <.30 | 6.06 | .25–.31 | | |
| | V200 | 3 ¼" | R35 | 40" x 63" | 35 | <.30 | 5.43 | .25–.34 | | |
| | V250 | 3 ¼" | LC35 | 44" x 75" | 35 | <.30 | 5.43 | .25–.34 | 29–35 | 24–29 |
| | V300 | 3 ¼" | CW50 | 56" x 91" | 50 | <.30 | 7.5 | as low as 0.25 | | |
| Horizontal Slider | V100 | 2 ¾" | R40 | 63" x 44" | 40 | <.30 | 6.06 | .25–.31 | | |
| | V200 | 3 ¼" | R40 | 63" x 44" | 40 | <.30 | 6.06 | .23–.35 | | |
| | V250 | 3 ¼" | LC35 | 63" x 44" | 35 | <.30 | 7.5 | .23–.35 | | |
| | V300 | 3 ¼" | CW50 | 75" x 44" | 50 | <.30 | 7.5 | as low as 0.25 | | |
| Fixed | V100 | 2 ¾" | R40 | 60" x 60" | 40 | <.30 | 6.06 | .23–.29 | | |
| | V200 | 3 ¼" | Up to R50 | 48" x 48" | Up to 50 | <.30 | Up to 7.5 | .20–.32 | | |
| | V250 | 3 ¼" | Up to LC35 | 56" x 56" | Up to 35 | <.30 | Up to 7.5 | .20–.32 | | |
| | V300 | 3 ¼" | CW50 | 78" x 78" | 50 | <.30 | 7.5 | .14–.28 | 35 | 29 |
| Casement | V200 | 3 ¼" | R40 | 24" x 60" | 40 | <.30 | 6.06 | .21–.32 | | |
| | V250 | 3 ¼" | LC30 | 36" x 72" | 30 | <.30 | 7.5 | .21–.32 | | |
| | V300 | 3 ¼" | CW50 | 36" x 78" | 50 | <.30 | 7.5 | .17–.28 | 34–41 | 29–34 |
| | V700 | 3 ¼" | CW50 | 36" x 78" | 50 | <.30 | 7.5 | .23–.27 | 34–41 | 29–34 |
| Project-Out | V200 | 3 ¼" | R40 | 48" x 18" | 40 | <.30 | 6.06 | .22–.32 | | |
| | V250 | 3 ¼" | LC35 | 48" x 24" | 35 | <.30 | 7.5 | .22–.32 | | |
| | V300 | 3 ¼" | CW50 | 60" x 32" | 50 | <.30 | 7.5 | .18–.28 | 35 | 29 |
| | V700 | 3 ¼" | CW50 | 60" x 32" | 50 | <.30 | 7.5 | .24–.28 | 35 | 29 |
| Double Hung | V200 | 3 ¼" | R40 | 40" x 63" | 40 | <.30 | 7.5 | .23–.33 | | |
| | V250 | 3 ¼" | LC35 | 36" x 84" | 35 | <.30 | 7.5 | .23–.33 | | |
| Terrace Door (all models) | V300 | 3 ¼" | CW50** | | 50** | <.30** | 7.5** | | | |
| Sliding Door | V100 | 4 ⅞" | R50 | 71" x 80" | 50 | <.30 | 7.5 | .28–.29 | | |
| | V200/ V250 | 5 ⅝" | R50 | 72" x 82" | 50 | <.30 | 7.5 | .17–.30 | | |

\*-Ranges based on multiple Low-E/Argon I.G. combinations
X-Ranges based on multiple I.G. combinations
\*\*-Projected rating and test data. Testing in progress as of 6–2023
All ratings listed are NAFS certified. Periodic re-certification testing is required thus data shown may vary slightly.
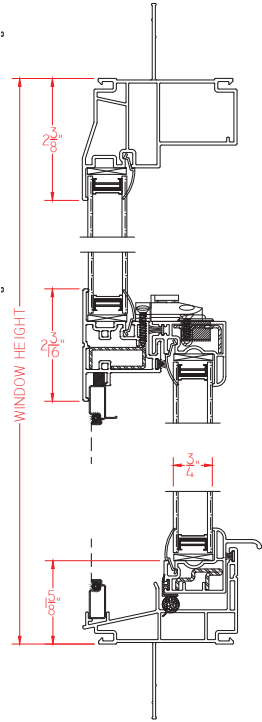
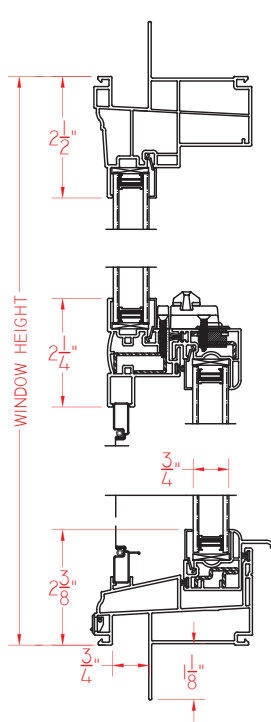QUAKER

# V-SERIES

**COMMERCIAL VINYL WINDOWS & DOORS**

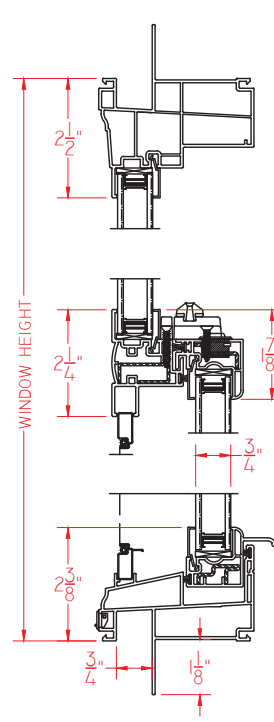## Products

## Single Hung

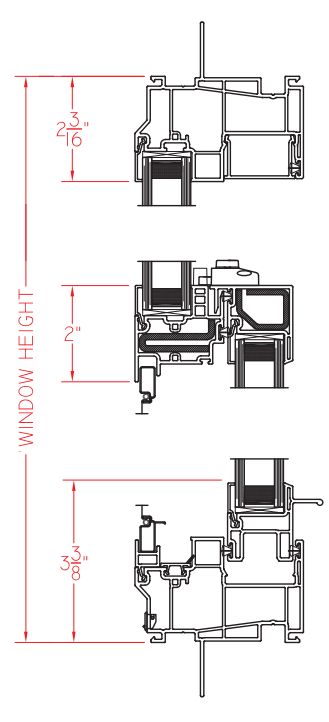### V100 Series (R40)



### V200 Series (R35)



### V250 Series (LC35)



### V300 Series (CW50)



*All ratings listed are NAFS certified*



Atria Arista Luxury Apartments
Broomfield, CO
Developer/Architect: KEPHART
General Contractor: TX-Morrow Construction Co.
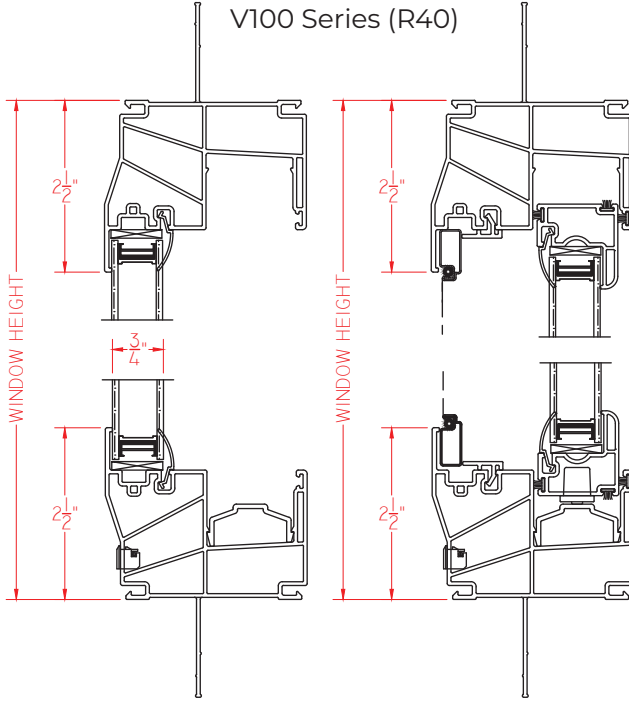Comm. Window Distributor: Wholesale Bldg. Products

QUAKER
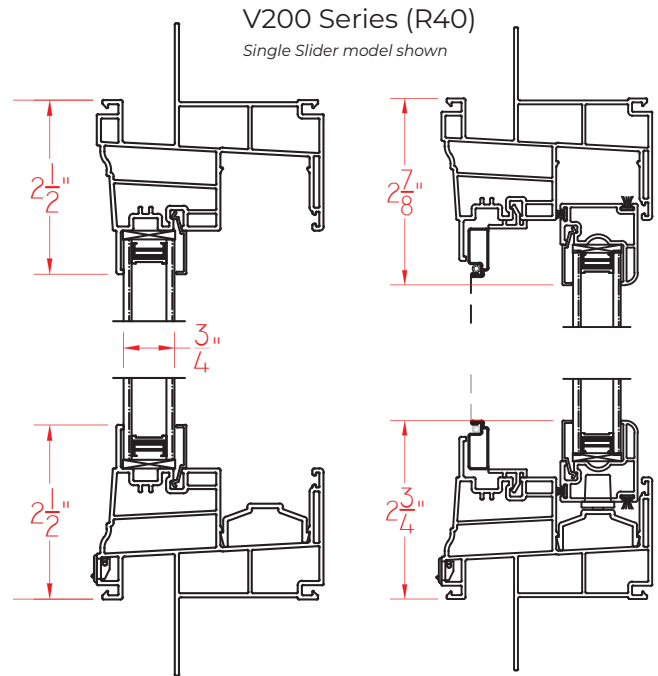
# V-SERIES

COMMERCIAL VINYL WINDOWS & DOORS

## Products

## Horizontal Slider

### V100 Series (R40)
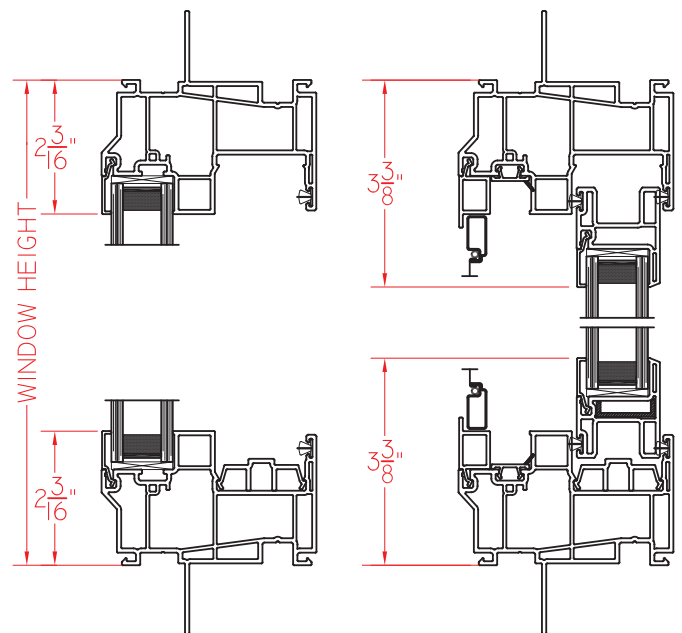


### V200 Series (R40)

*Single Slider model shown*



### V250 Series (LC35)

*Single Slider model shown*
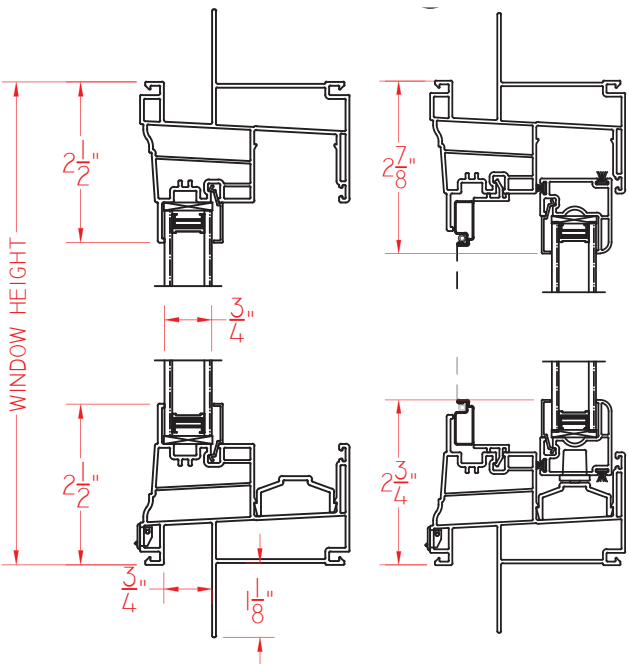


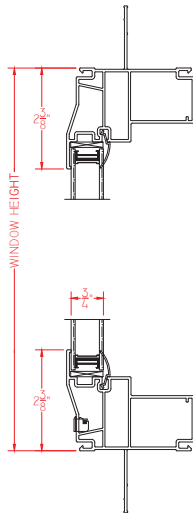### V300 Series (CW50)
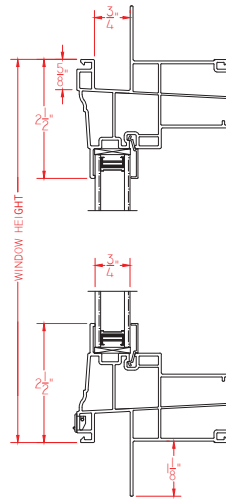


*All ratings listed are NAFS certified*

## Fixed

### V100 Series (R40)



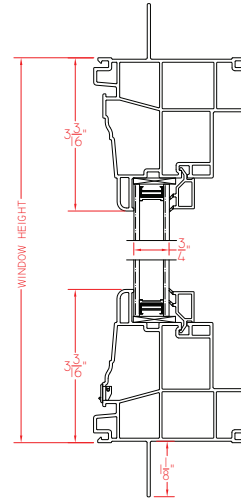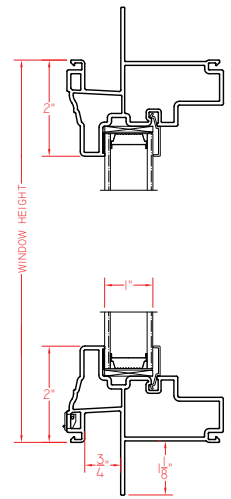*Sash set model to match V200 hung and horizontal slider models*

### V200 Series (R50)

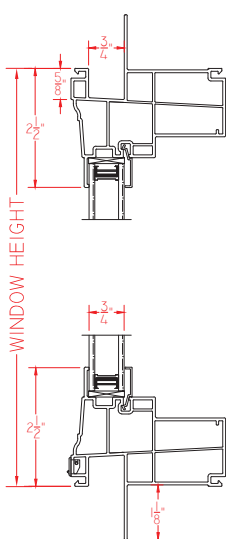*Sash set model to match V200 casement and project-out models*
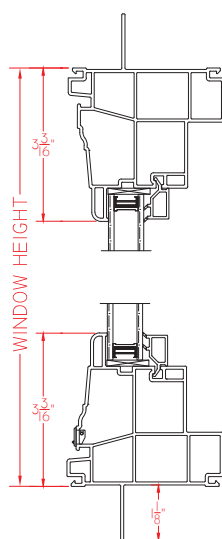
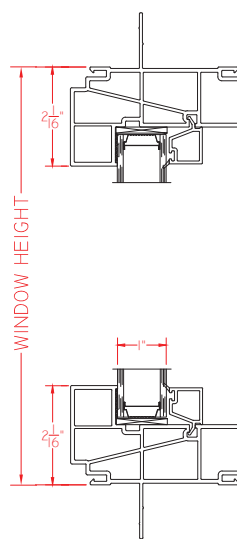*Direct set model compatible with all V200 models*



### V250 Series (LC35)

*Sash set model to match V250 hung and horizontal sliding models*

*Sash set model to match V250 casement and project-out models*



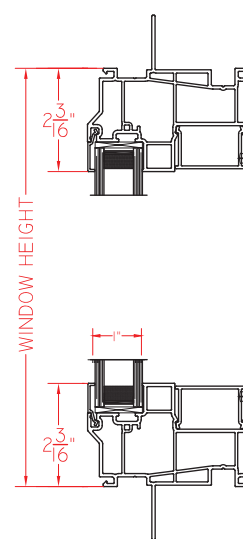### V300 Series(CW50)

*Narrow rail model to match V300 casement and project-out units*
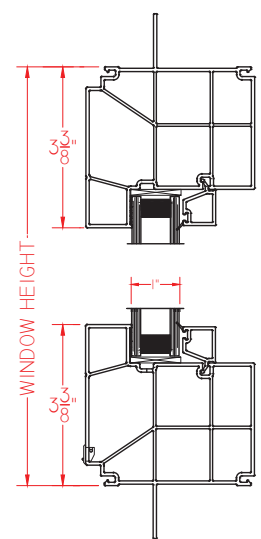
*Narrow rail model to match V300 hung and horizontal sliding units*

*Wide rail model compatible with all V300 models*



*All ratings listed are NAFS certified*

# V-SERIES

## Products

## Casement

### V200 Series (R40)
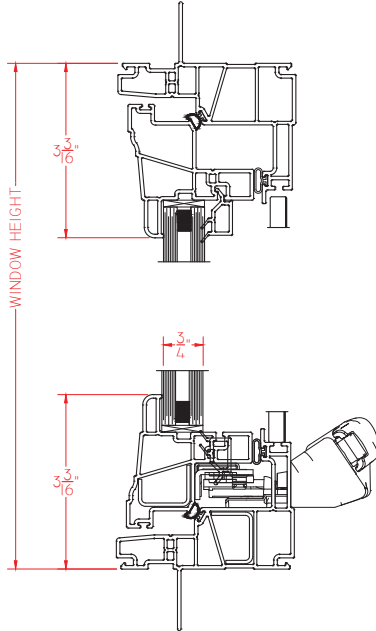
### V250 Series (LC30)
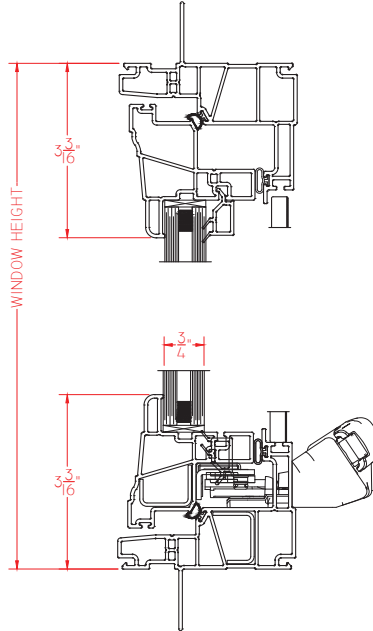
### V300/V700 Series (CW50)
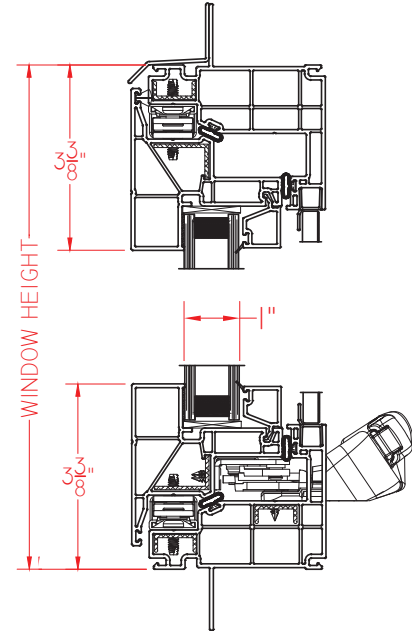
*All ratings listed are NAFS certified*

Azul North Park
San Diego, CA
Developer: Floit Properties
Contractor: Suffolk, Inc.
Architect: JWDA Architects
Comm. Window Distributor: Hardy Windows

*Courtesy Floit Properties*

# V-SERIES

## Project–Out

### V200 Series (R40)
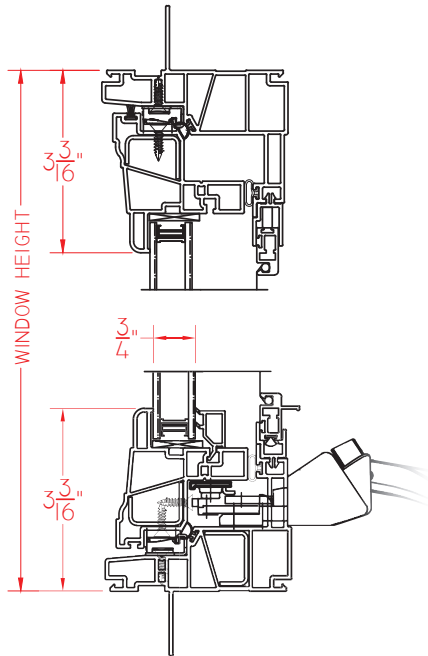
### V250 Series (LC35)
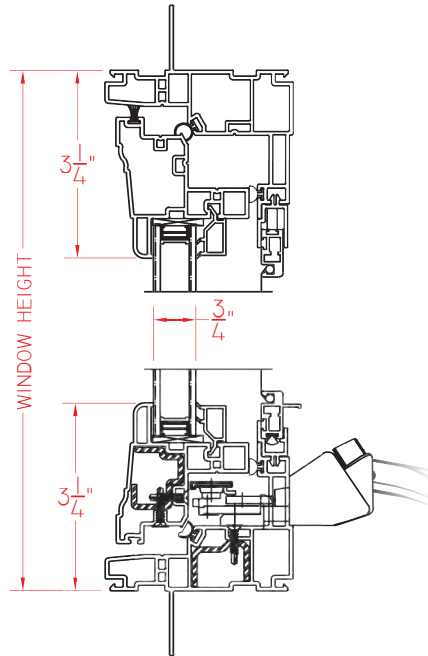
### V300/V700 Series (CW50)
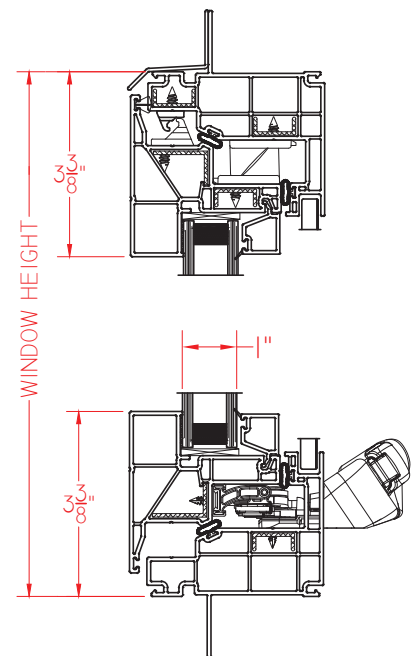
*All ratings listed are NAFS certified*

Seven at Seven Mile Creek
Nashville, TN
Developer: Avenue Construction
Contractor: Avenue Construction
Architect:  Barnett Design Studio
Comm. Window Dist.: Architectural Visions

*Courtesy Seven at Seven Mile Creek*

# V-SERIES
**COMMERCIAL VINYL WINDOWS & DOORS**

## Products

### V200 Series (R40)
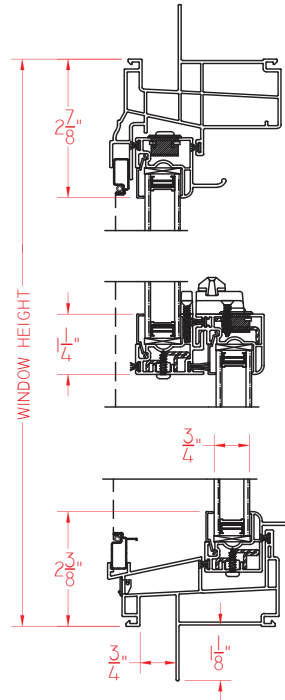


### V250 Series (LC35)
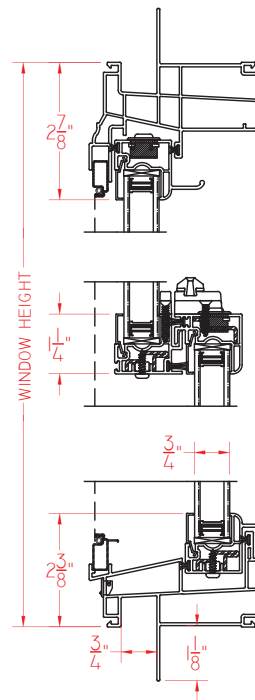


*All ratings listed are NAFS certified*



The Red Apartments
Cincinnati, OH
Developer: To Life, LTD
Contractor: Turnbull-Wahlert Construction
Comm. Window Distributor: Forge Lumber

*Courtesy The Red Apartments*

## Terrace Doors

V300 Series (CW50*)
Outswing w/standard sill
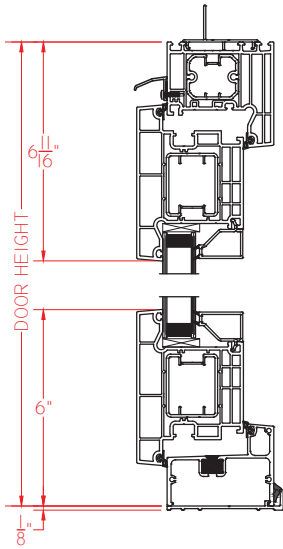
V300 Series (CW50*)
Outswing w/ADA sill
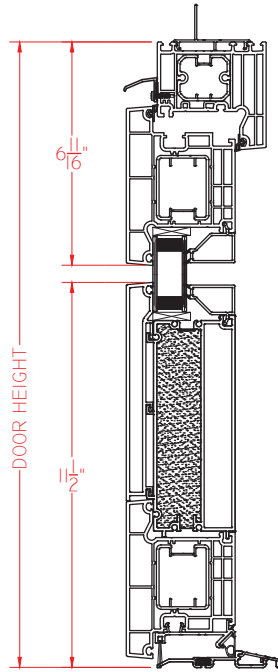
V300 Series (CW50*)
Inswing w/standard sill
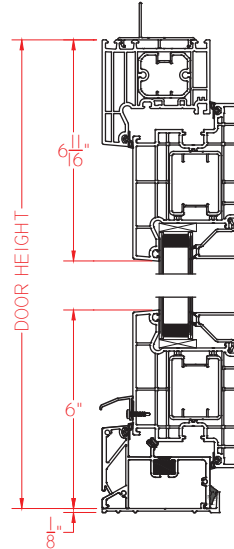
V300 Series (CW50*)
Inswing w/ADA sill
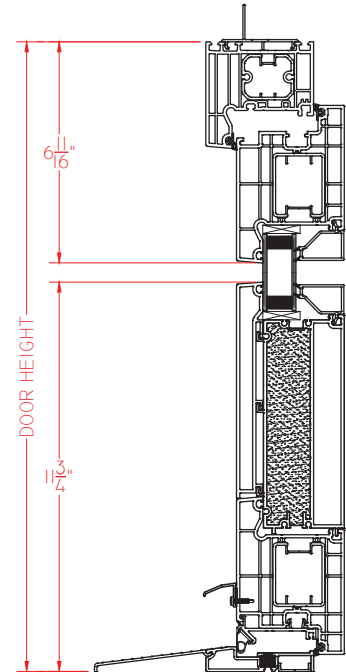
*-ratings are projected. Testing in progress as of 4-2023.

Montclare Senior Residences
Calumet Heights, IL
Developer: Montclare Calumet Heights LLC
Contractor: Crane Construction/
           Riteway Huggins Construction LLC
Architect: WJW Architects
Comm. Window Distributor: PJ's Windows & Doors

*Courtesy WJW Architects / WJWarchitects.com*

## Sliding Doors

### V100 Series (R50)



The Castle
Port Chester, NY
Developer: Phoenix Partners
Contractor: Racanelli Construction
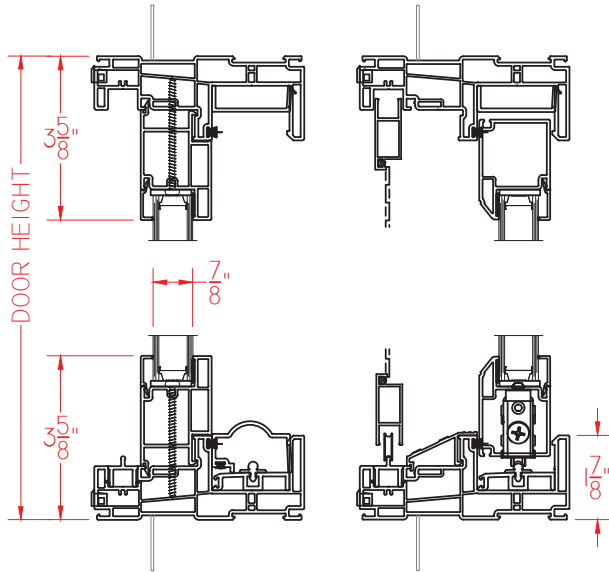
### V200 Series (R50)
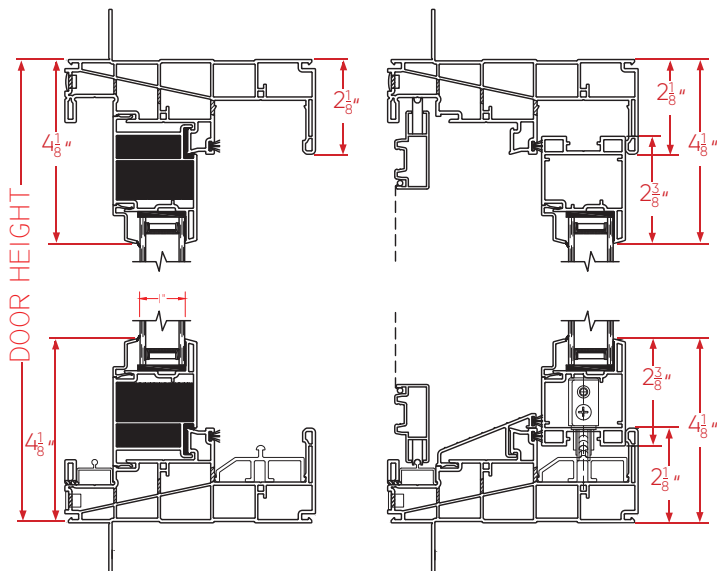


### V250 Series (LC40)
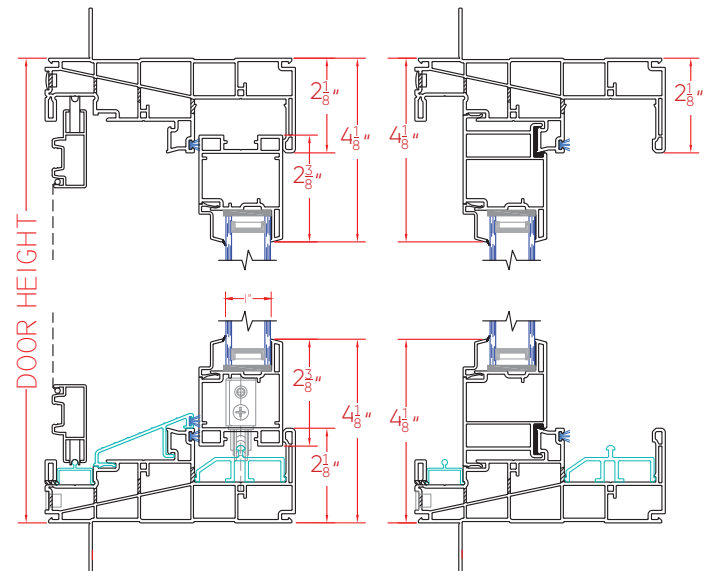


*All ratings listed are NAFS certified*

# V-SERIES
## COMMERCIAL VINYL WINDOWS & DOORS
# Products

## Impact (V700)

- Meet ASTM 1886 (Large Missile Impact - Level D) testing requirements
- Casement, Project-Out and Fixed models
- Nail Fin or Trim/Clip anchorage systems for operating models
- Nail Fin anchorage system for fixed model

## Florida Building Code

- Meets all required FBC calculations
- Casement: FL40310.2 (2020 Code Version)
- Project-Out: FL36916.3 (2020 Code Version)
- Fixed: FL36903.3 (2020 Code Version)
- Approved anchorage systems
- See full information at FloridaBuilding.org

The Acorn on Person Street
Raleigh, NC
Developer: Person Street Apartments LLC
Contractor: Williams Realty & Building Inc.
Architect: Cline Design Architects
Comm. Window Distributor: Morrison Millwork

*Courtesy of Williams Realty & Building / wrbco.com*

800-347-0438

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## LEED®

- All V-Series models can assist with garnering LEED points
- LEED Building Design and Construction (LEED BD+C) works for both new construction and replacement commercial projects
- World's preeminent green building organization

## PHIUS+

- V300 Series Casement and matching Fixed models are PHIUS certified
- Comply with PHIUS+ 2015 Passive Building Standard
- Applicable to all commercial building types and U.S. climate zones
- Best-practice building design for engineers, developers, builders and construction professionals

Woodland Glenn IV
Lexington, KY
Developer: University of Kentucky
Architect: Sherman Carter Barnhart
Contractor: Messer Construction
Comm. Window Dist.: Kidd Glass Inc. *Photo by Phebus Photography*

# V-SERIES
### COMMERCIAL VINYL WINDOWS & DOORS

# Options and Accessories

## Vinyl Colors, Painted Exteriors & Laminates

### Vinyl Colors
- 100% pure uPVC colors hold a bright sheen and and won't fade like re-ground vinyl
  - » White
  - » Sandstone

*(New) Textured Dark Grey Available as a Painted Exterior & Laminate Exterior*

### Painted Exteriors
- Painted vinyl allows Quaker to offer an exterior color palette which far exceeds traditional expectations.

  | | | | |
  |---|---|---|---|
  | » Black | » Toffee | » Beige | » Textured Black |
  | » Dark Bronze | » Chestnut | » Satin Creme | » Textured Dark Bronze |
  | » Redwood | » Earthtone | » White | » Textured Resembles Clear Anodized |
  | » Holly Green | » Sandstone | » Resembles Clear Anodized | » (NEW) Textured Dark Grey |

- Exterior color selections expand even further because of Quaker's ability to produce any custom exterior color you have in mind
- All painted vinyl finishes meet FGIA 615–05, the highest, most superior vinyl painted finish available.

### Laminate Coatings
- Four high-performance laminate coatings can be applied to the exterior of all Quaker V-series products*, paired with a white interior for a two-tone appearance
  - » Textured Black
  - » Textured Dark Bronze
  - » Textured Resembles Clear Anodized
  - » (NEW) Textured Dark Grey
- Depending upon your product of choice and your color preference, laminate can be added to the interior too.
- All Quaker laminates meet quality and test requirements in accordance to RAL GZ716/1

*\*Some limitations may apply.*

District @ 6th
Des Moines, IA
Developer: TWG Development
Architect: TWG Development
Comm. Window Distributor: Lite Inc.

### Warranty
- 10 year limited warranty on vinyl colors, painted exteriors and laminate coatings
- See complete warranty details on our website

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## Glass & Grids

### Pane thickness:
- $3/32$ "
- $1/8$ "
- $5/32$ "
- $3/16$ "
- $1/4$ "
- $5/16$ "

### I.G. thickness:
- ¾" (Double pane)
- 1" (Double pane)
- 1⅜" (Triple pane)

### Glass Types:
- Dual Silver Low-E
- Triple Silver Low-E
- Interior Pane Low-E
- Tempered Safety Glass
- Laminated
- Spandrel
- Neat+ Low Maintenance
- Obscure (for privacy)
- Tinted
- Bird Glass
  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.*
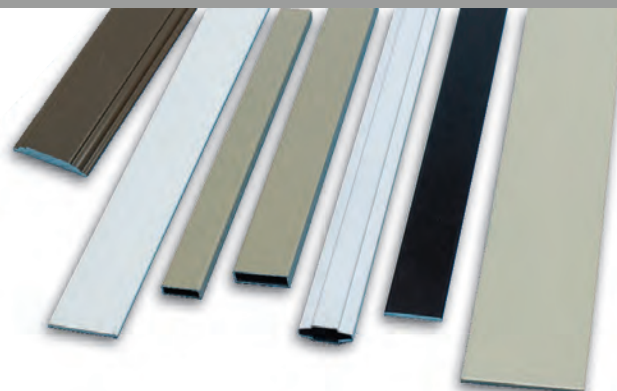
### Grids Between the Glass
- Flat or Contoured

### Simulated Divided Lites
- Numerous profiles and combinations available

*This is a small sampling of the many grid profiles Quaker has available.*

Hanover Cross Street
Baltimore, MD
Developer: The Hanover Company
Contractor:  The Hanover Company
Commercial Window Dist.: Revolution Bldg. Supply

## Mulls

Glasswater Creek of Plainfield
Indianapolis, IN
Developer: CRF Developement
Contractor: T & W Corp.
Comm. Window Dist.: Timberland Home Center

Whether stacking windows or pairing them side-by-side, our V-Series reinforced and structural mulling systems deliver confidence. They won't flex at the first sign of wind and their design leaves no room for infiltration.
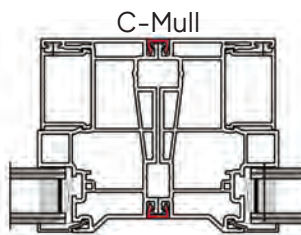
C-Mull
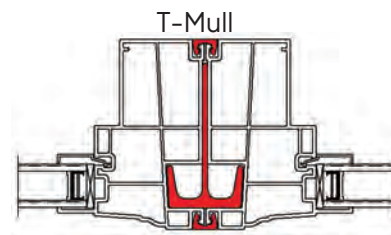
T-Mull
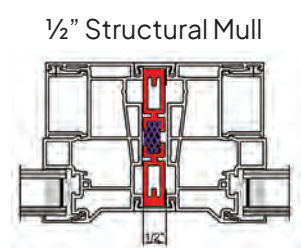
½" Structural Mull
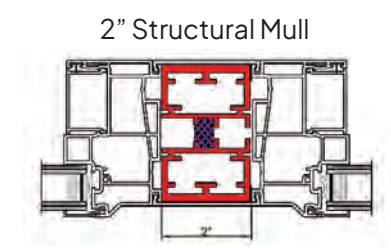
2" Structural Mull

*Usage limitations may apply

## Accessories

Quaker can provide a multitude of accessories for your V-Series install -- no matter what product you choose. These can be factory applied or sent loose for jobsite installation.*

- Casing
- Panning
- Receptor
- Subsill
- Louver systems to accomodate HVAC

Other factory-applied options and accessories include:
- WOCD (Window Operating Control Device)
- Trickle Vent
 and more.

*Some limitations may apply

The Yards
Kansas City, MO
Owner: Flaherty & Collens
Contractor: MW Builders
Architect: Kem Studio
Comm. Window Dealer: Ziegler's Glass

# V-SERIES
## COMMERCIAL VINYL WINDOWS & DOORS

# Product Comparison Guide

| Features | V100 | V200 | V250 | V300 | V700 |
|---|---|---|---|---|---|
| Insulating Glass | ¾" | ¾" | ¾" | 1" | 1" |
| Mitered/Fusion Welded Corners | ✓ | ✓ | ✓ | ✓ | ✓ |
| Vinyl Colors (White and Sandstone) | Windows only | ✓ | ✓ | ✓ | ✓ |
| Painted Exterior (615–05 FGIA finish) | | ✓ | ✓ | ✓ | ✓ |
| High-performance Textured Black Laminate (Exterior) | ✓ | ✓ | ✓ | ✓ | ✓ |
| High-performance Textured Black Laminate (Interior and Exterior) | | ✓ | ✓ | ✓ | ✓ |
| High-performance Dark Bronze Laminate (Exterior) | | ✓ | ✓ | ✓ | ✓ |
| High-performance Resembles Clear Anodized Laminate (Exterior) | | | | ✓ | ✓ |
| Integral Nail Fin | ✓ | ✓ | ✓ | ✓ | ✓ |
| Multi-point Locking System w/Flip-down handle (Casement and Project-Out models) | | ✓ | ✓ | ✓ | ✓ |
| Heavy-Commercial 4-bar hardware (Casement and Project-Out models) | | ✓ | ✓ | ✓ | ✓ |
| Low-Profile cam lock (Hung and Sliding models) | ✓ | ✓ | ✓ | ✓ | |
| Intregral J-Channel (Hung and Sliding Models) | | ✓ | ✓ | | |
| Aluminum Screen with BetterVue™ mesh (Hung and Sliding models) | ✓ | ✓ | ✓ | ✓ | |
| FlexScreen™ (Casement and Project-Out models) | | ✓ | ✓ | ✓ | ✓ |
| Aluminum Screen with BetterVue™ mesh (Sliding Door) | ✓ | ✓ | ✓ | | |
| Recommended usage (# of stories) | 1 to 4 | 1 to 4 | 1 to 5 | 1 to 11 | 1 to 11 |

| Options | V100 | V200 | V250 | V300 | V700 |
|---|---|---|---|---|---|
| Casement/Project-Out models | | ✓ | ✓ | ✓ | ✓ |
| Single Hung/Double Hung models | Single Hung only | ✓ | ✓ | Single Hung only | |
| Horizontal Slider models | ✓ | ✓ | ✓ | ✓ | |
| Fixed models | ✓ | ✓ | ✓ | ✓ | ✓ |
| Doors | Sliding | Sliding | Sliding | Terrace | |
| Wide Variety of Low-E/Argon glazing combinations | ✓ | ✓ | ✓ | ✓ | ✓ |
| 1 ⅜" Glazing | | | | ✓ | ✓ |
| PHIUS Certified | | | | Casement & Fixed | |
| Muntins - GBG (Grids Between Glass) ⅝" or ¾" | ⅝" only | ✓ | ✓ | ✓ | ✓ |
| Muntins - SDL (Simulated Divided Lites) | | ✓ | ✓ | ✓ | ✓ |
| Reinforced Mullions | ✓ | ✓ | ✓ | ✓ | ✓ |
| ½" and 2" Structural Mullions | ½" only | ✓ | ✓ | ✓ | ✓ |
| Egress Hardware (Casement WIndows) | | ✓ | ✓ | ✓ | ✓ |
| Limited Travel Hardware | | ✓ | ✓ | ✓ | ✓ |
| Finless Main Frame | ✓ | ✓ | ✓ | ✓ | ✓ |
| Extruded Aluminum Screen Frame with aluminum wire mesh | | ✓ | ✓ | ✓ | ✓ |
| Extruded Aluminum Screen Frame with stainless steel 0.009" mesh thickness | | ✓ | ✓ | ✓ | ✓ |

# V-SERIES
## COMMERCIAL VINYL WINDOWS & DOORS

# 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 V-Series products are a perfect match.

- Quaker has a dedicated commercial team with more than 125 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.

# The Quaker Difference:
## More than meets the eye.

Since 1949, The Quaker Difference has meant providing more than just windows and doors. It's a standard of quality, engineering and craftsmanship that distinguishes us from all other window and door manufacturers in America. That commitment continues with our V-Series of commercial vinyl products.

- It's a standard of craftsmanship and engineering excellence we build into every product, distinguishing us from all other window companies in America.

- 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 shying away from testing at entry-level, gateway sizes. Instead, we test using gateway and maximum sizing. This ensures the entire scope of a product's sizing will meet the advertised rating.

- It's multiple quality checks implemented throughout the manufacturing process to guarantee a paramount product.

- It's our state-of-the-art vinyl paint facility. Unlike many manufacturers that outsource, Quaker controls the quality and consistency of our finish in-house.

- 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 our "can-do" attitude toward custom projects. Never is a job too custom for Quaker. Our option and accessory choices allow us to do what others can't.

- It's doing more than just selling windows and doors. It's finding the right window and door solution for your project.

That's *The Quaker Difference*.

SOHO Apartments
St. Louis, MO
Owner: El Capitan One, LLC
Contractor: Big Sure Construction
Architect: VE Design Group
Comm. Window Distributor: XL Building Products

800-347-0438

QUAKER

# V-SERIES

COMMERCIAL VINYL WINDOWS & DOORS

**Find more information on Quaker windows and doors**

💻 www.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.*

PROUD MEMBER FGIA — Fenestration & Glazing Industry Alliance

MEMBER NGA — NATIONAL GLASS ASSOCIATION

NFRC — National Fenestration Rating Council

July, 2023 V3



**ON THE COVER:**
Verve Columbus
Columbus, OH
Developer: SubText
Contractor: Brinkman Constructors
Architect: Bass Studio Architects
Comm. Window Distributor: G2 Architectural