Q

QUAKER
COMMERCIAL

K-12 SCHOOLS

Products and Project References

www.QuakerCommercialWindows.com

Educational Sector
projects are rarely elemental.

There are many school types in the K–12 world; public and private, kindergarten all the way up to high school. Some with 50 students. Others with a thousand or more. At Quaker, we've worked with every type, so we know that with this varied collection, there's rarely an instance when one school's build is the same as another.

While each school has its own list of specificities, most projects in the K–12 market segment-- whether new construction or replacement -- propose many of the same characteristics:

- shorter time frames to complete the job
- 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 Windows & Doors, we fully understand all of these aspects and that's why we're so effective when working within the educational market. Our vast product line and immeasurable experience can make any challenge less daunting.

Photo by Ed Wonsek Art Works, Inc.

Bristol County Agriculture High School
Dighton, MA
General Contractor: Gilbane Building Co.
Architect: HMFH Architecture
Glazing Contractor: Kapiloffs Glass Inc.

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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 window and door solution for your project.
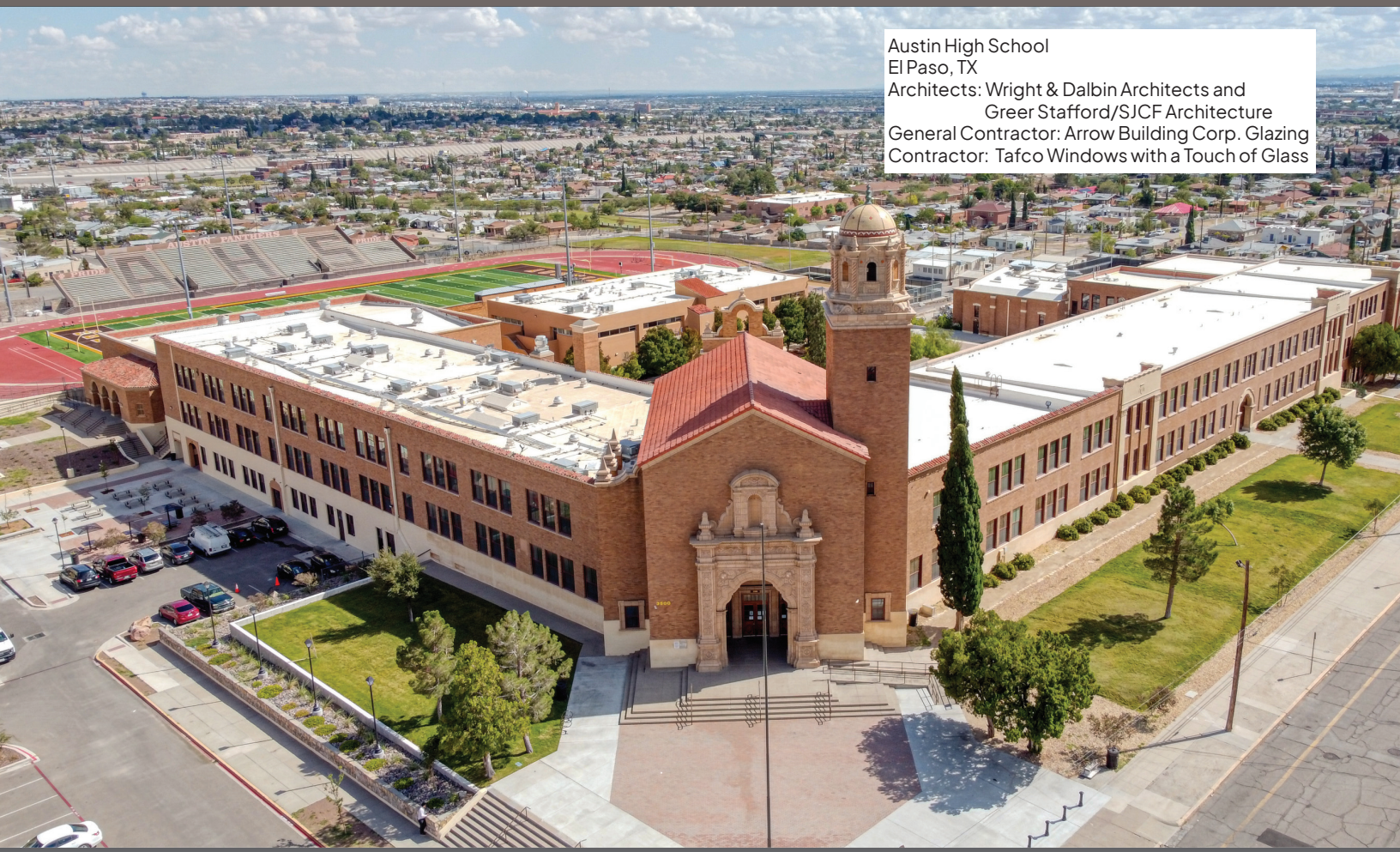
That's *The Quaker Difference*.

Arlington High School
Arlington, MA
General Contractor: Consigil Construction Co.
Architect: HMFH Architects
Glazing Contractor: R & R Window Contractors

800-347-0438

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COMMERCIAL

Aluminum
Windows and Doors

Austin High School
El Paso, TX
Architects: Wright & Dalbin Architects and
          Greer Stafford/SJCF Architecture
General Contractor: Arrow Building Corp. Glazing
Contractor: Tafco Windows with a Touch of Glass

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*)
- ¾" to 1⅜" I.G. with warm-edge spacer
- Commercial-grade hardware
- Full line of operating and fixed window models
- Both Sliding and Terrace Door models
- Product line encompasses 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)
- Standard 1" glass package achieves a minimum of 28 STC
- Blinds/Panel option (C600/C605 and E600 only)
- Standard and custom sizing for all models
- Impact and Florida Building approved products

Aluminum
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	C600/C605	4 ⅛"	Up to AW100	48" x 84"	<.10	12.11	.19–.30	.11–.44	28–41	28–34
	E600	3 ¼"	Up to AW100	36" x 72"	<.10	12.11	.32–.39	.12–.26	31–44	25–34
	H450	3 ¼"	CW90	36" x 60"	<.30	10	.39–.44	.14–.48	34–37	29–32
	M600	3 ¼"	AW-PG70	36" x 72"	<.10	12.11	.39–.43	.19–.29	29–43	23–31
Project-Out	C600/C605	4 ⅛"	Up to AW100	48" x 72"	<.10	12.11	.19–.30	.11–.44	28–41	28–35
	E600	3 ¼"	AW100	60" x 36"	<.10	15.04	.32–.36	.10–.41		
	H450	3 ¼"	CW70	60" x 36"	<.30	10	.40–.60	.14–.59		
	M600	3 ¼"	AW-PG70	48" x 72"	<.10	12.11	.33–.45	.19–.29		
Project-In	E600	3 ¼"	AW100	60" x 36"	<.10	15.04	.32–.36	.12–.26		
Single Hung	E300	3 ¼"	CW-PG50	56" x 91"	<.30	7.52	.35–.40	.13–.30		
	E500	3 ¼"	AW-PG40	60" x 99"	<.30	8.15	.37–.42	.13–.46		
	H650	4 ⅛"	AW-PG60	60" x 99"	<.30	10			31–32	24–26
	T500	3 ¼"	AW-PG50	60" x 99"	<.30	12	.37–.42	.14–.33		
Double Hung	E300	3 ¼"	CW-PG50	47" x 59"	<.30	7.52	.35–.40	.13–.30	34–36	28–31
	E500	3 ¼"	AW-PG40	60" x 99"	<.30	8.15	.37–.42	.13–.46		
Horizontal Slider	E300	3 ¼"	CW-PG50	72" x 60"	<.30	7.52	.35–.40	.14–.31		
	E500	3 ¼"	AW-PG50	99" x 79"	<.30	10.03	.36–.41	.13–.48	33	28
	K200	2 ⅜"	CW-PG40	60" x 59"	<.30	6.06	.38–.44	.14–.33	29–51	24–39
Fixed	C600/C605	4 ⅛"	AW-PG100	60" x 99"	<.10	15.04	.14–.29	.13–.57	28–44	25–35
	E300	3 ¼"	AW-PG50/CW70	60" x 99"	<.10	10	.25–.31	.16–.37		
	E500	3 ¼"	AW-PG50/CW70	60" x 99"	<.10	10	.25–.31	.16–.37		
	E600	3 ¼"	AW-PG100	60" x 60"	<.10	15.04	.25–.31	.16–.37		
	H450	3 ¼"	AW-PG110	72" x 120"	<.10	15.04	.26–.50	.16–.69		
	H650	4 ⅛"	AW-PG90	60" x 99"	<.10	12+				
	K200	2 ⅜"	CW50	64" x 71"	<.30	7.52	.27–.32	.16–.37		
	M600	3 ¼"	AW-PG70	60" x 60"	<.10	12.11	.18–.32	.23–.36	32–41	26–31

*-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.
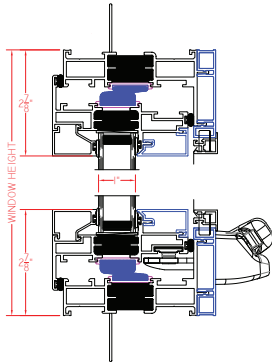
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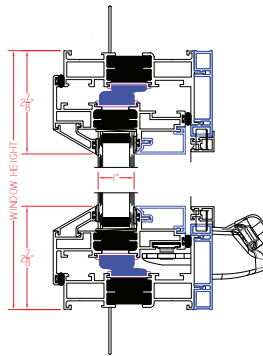
Aluminum Product
Selection Guide

C600 Series (AW70)
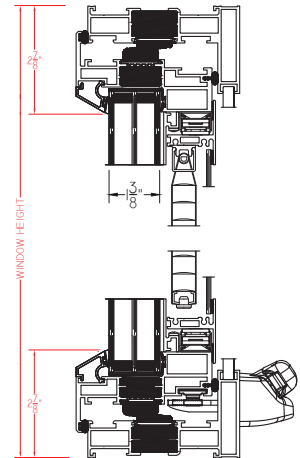*Shown with nailing fin, roto hardware, and modern, square exterior glazing*

C605 Series (AW70)
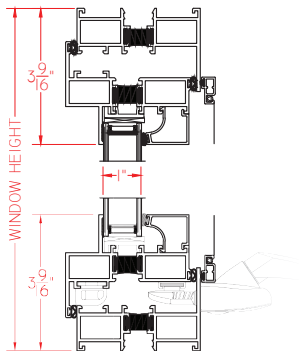*Shown with nailing fin, roto hardware, and and traditional, sloped exterior glazing*

C605 Series with blinds/panel(AW70)
Shown without nailing fin, with optional triple-pane I.G., roto hardware, beveled exterior glazing
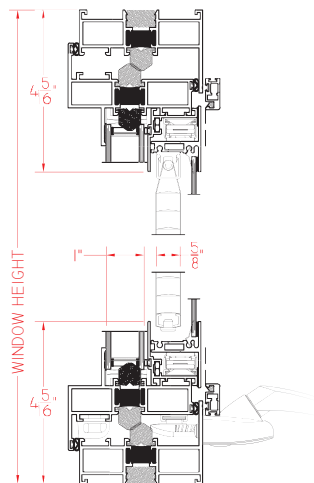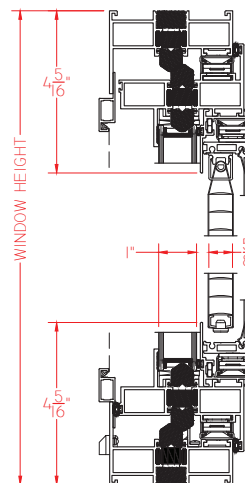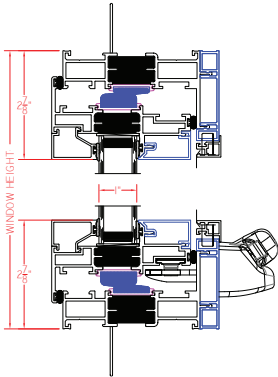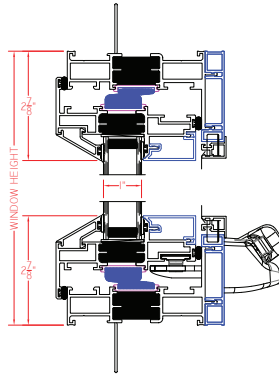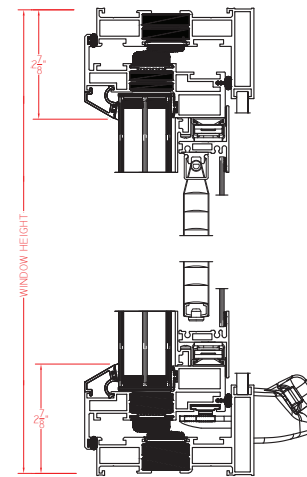

E600 Series (AW70)
Shown with roto hardware

E600 Series with blinds/panel(AW70)

Outswing model
shown without nail fin, with roto hardware and optional blind/panel

Inswing Model

H450 Series (AW70)
Shown with roto hardware
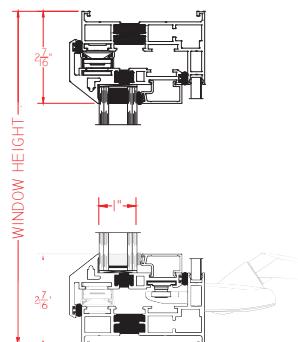
M600 Series (AW70)
Shown with roto hardware and optional nailing fin
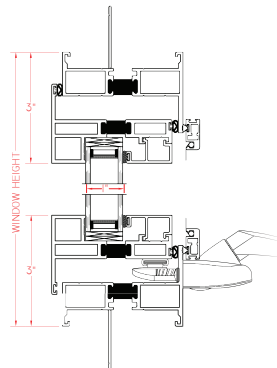
Aluminum Product
Selection Guide

Project-Out

C600 Series (AW70)
Shown with nailing fin, roto hardware, and modern, square exterior glazing

C605 Series (AW70)
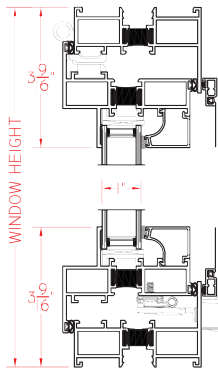*Shown with nailing fin, roto hardware, and beveled exterior glazing*

C605 Series with blinds/panel (AW70)
Shown without nailing fin, triple-pane I.G., roto hardware, beveled exterior glazing and optional blind/panel
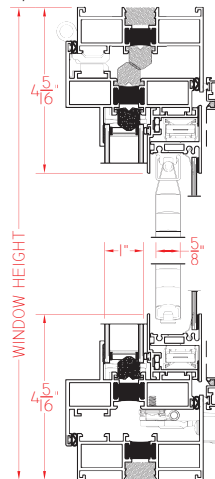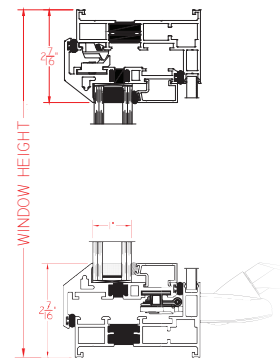
E600 Series (AW70)
Shown with roto hardware

E600 Series with blinds/panel (AW70)
Shown with roto hardware and optional blind/panel

H450 Series (AW70)
Shown with roto hardware

M600 Series (AW70)
Shown with 4-bar roto hardware
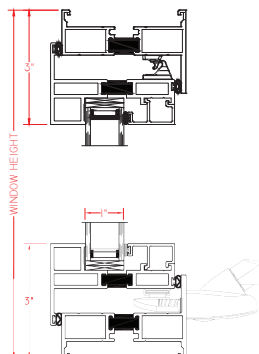
Friendship Aspire Academy-Garland
Little Rock, AR
General Contractor: Kinco Construction
Architect: WER Architects
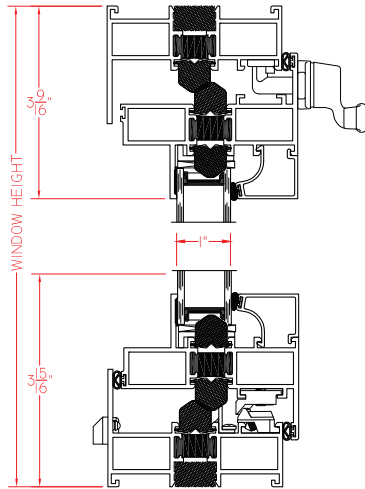Glazing Contractor: Glass Erectors

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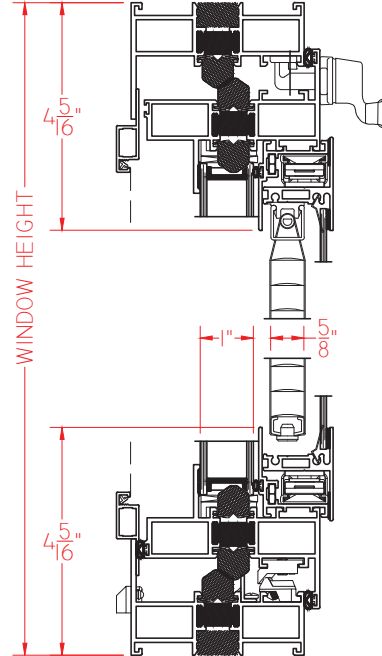# Aluminum Product
Selection Guide

Project-In

E600 Series (AW100)

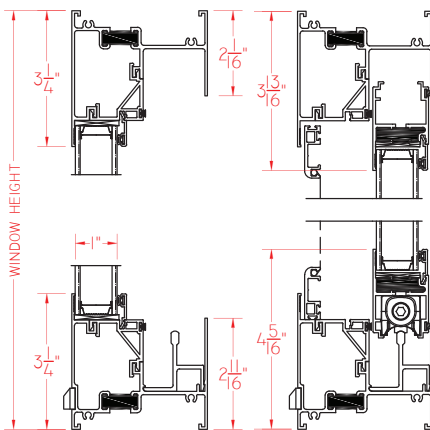### E600 Series with blinds/panel(AW100)
Shown with optional blind/panel
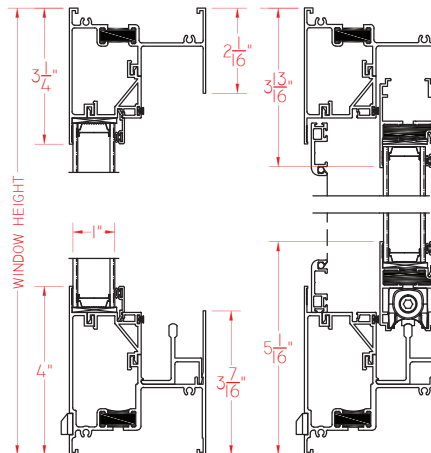

Horizontal Slider
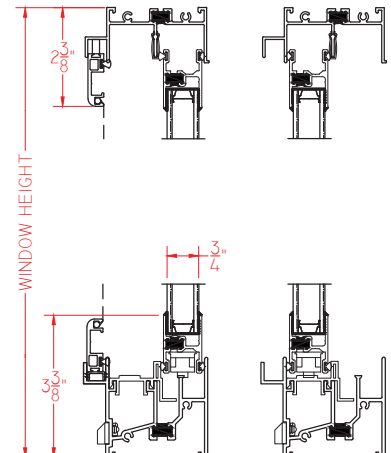
E300 Series (CW50)
Single Slider model shown

E500 Series (AW50)
Single Slider model shown
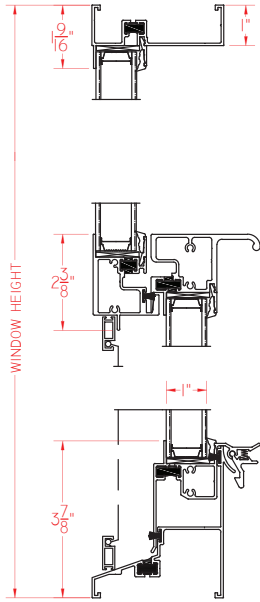

K200 Series (CW40)
Single Slider model shown
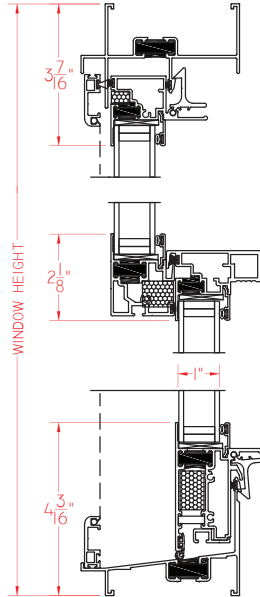
Aluminum Product
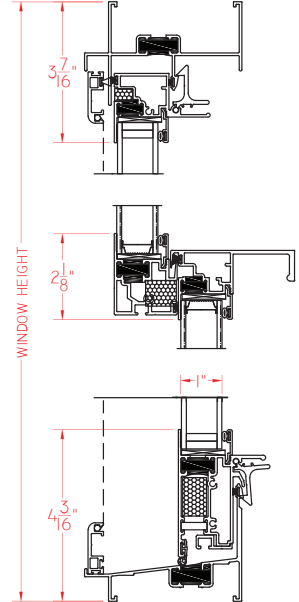## Selection Guide

T500 Series (AW50)

E300 Series (CW50)
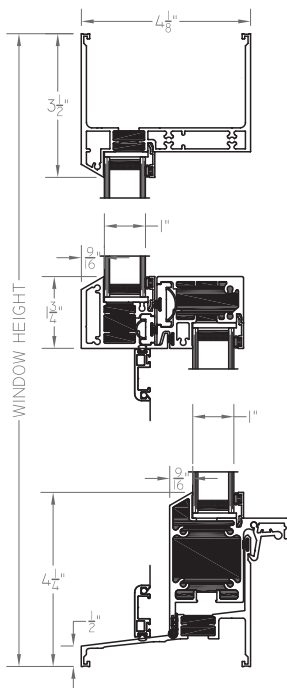*Double Hung model shown*

E500 Series (AW40)
Double Hung model shown

H650 Series (AW50*)

Hannibal High School
Hannibal, MO
General Contractor: Performance Services
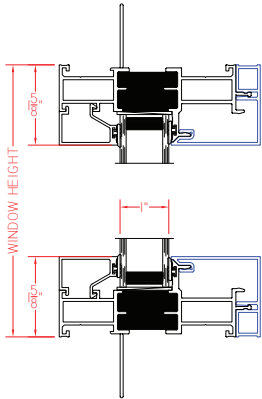Glazing Contractor: American Glass

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Aluminum Product
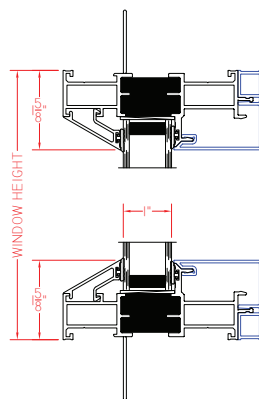## Selection Guide

Fixed

C600 Series (AW100)
Shown with nailing fin and modern, square exterior glazing

C605 Series (AW100)
Shown with nailing fin and traditional, sloped exterior glazing

C605 Series with blinds/panel (AW100)

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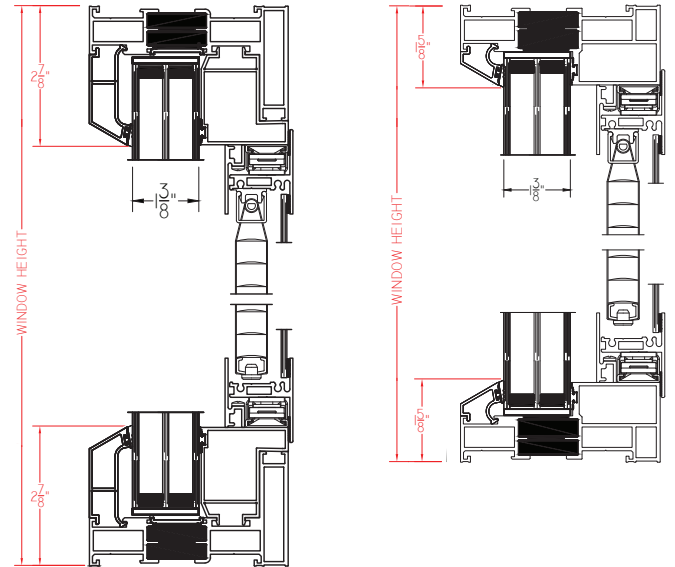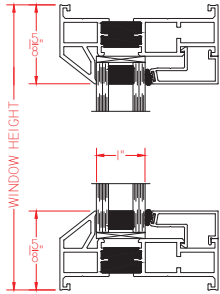

Trinity Falls Prep School
Tinton Falls, NJ
General Contractor: Sweetwater Const.
Architect: Studio Hillier Architecture
Glazing Contractor: Glass Castle of NJ

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Aluminum Product
Selection Guide

Fixed

H450 Series (AW110)

H650 Series (AW90)
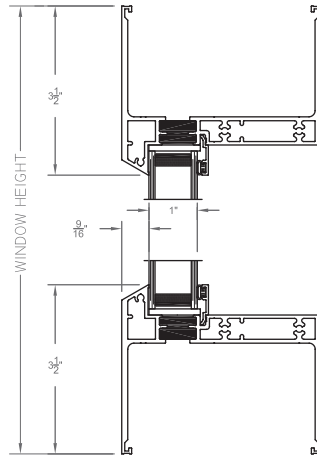
M600 Series (AW70)
Shown with optional nailing fin

T600 Series (AW70)

E600 Series (AW80)

E600 Series with blinds/panel (AW80)

KIPP Preparatory School
Durham, NC
Developer: The Self Help Group
General Contractor: C.T. Wilson Construction
Comm. Window Distributor: LJW Sales, Inc.
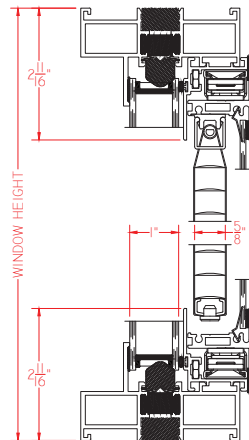
E300 Series (AW50/CW70)

K200 Series (CW50)

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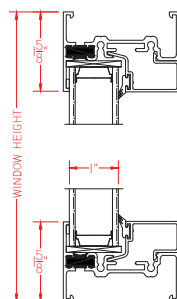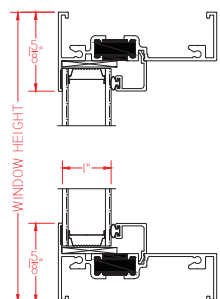
Vinyl
Windows

Winskill Elementary School
Lancaster, WI
Comm. Window Distributor: Spahn & Rose

FEATURES:
- LC to CW Ratings
- 100% pure uPVC vinyl
- Fusion welded corners
- .060 Vinyl thickness
- Metal reinforcements in critical areas
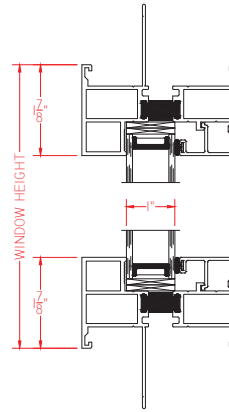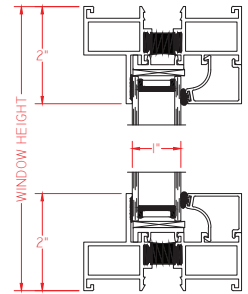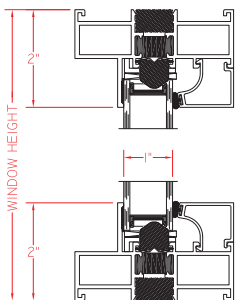- Amesbury/Truth® operating hardware
- Block & Tackle balancers on all hung units
- ¾" to 1⅜" I.G. with warm-edge spacer
- Full line of operating and fixed window models
- Product line encompasses New Construction and Replacement applications

BENEFITS:
- Value added alternative to traditional aluminum windows
- Industry-leading thermal efficiencies
- Green initiatives built into every product
- Impact and Florida Building approved products
- Standard I.G. achieves a minimum of 28 STC
- Custom painted exterior color capabilities*
- V300 Series Casement and Fixed models are PHIUS certified
- Standard and custom sizing for all models

*-some limitations may apply

Vinyl
Windows and Doors

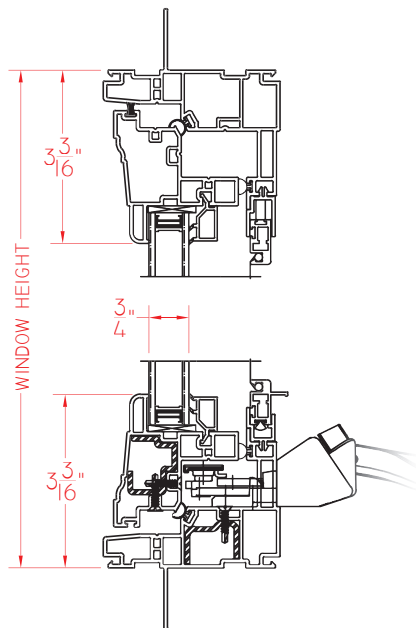| Model	Series	Frame Depth	Structural Test Rating	Test Size	Air Infiltration	Water Resistance	U-Value Range#	SHGC Range#	STC RangeX	OITC RangeX
Casement	V250	3 ¼"	LC35	32" x 60"	<.30	5.43	.23–.26	.11–.43		
	V300	3 ¼"	CW50	36" x 78"	<.30	7.5	.23–.27	.11–.27	34–41	29–34
Project-Out	V250	3 ¼"	LC35	48" x 32"	<.30	5.43	.23–.27	.12–.28		
	V300	3 ¼"	CW50	60" x 32"	<.30	7.5	.24–.28	.11–.41	35	29
Single Hung	V250	3 ¼"	LC35	44" x 75"	<.30	5.43	.25–.30	.14–.51	29–35	24–29
	V300	3 ¼"	CW50	56" x 91"	<.30	7.52	as low as 0.25	as low as 0.25		
Double Hung	V250	3 ¼"	LC35	36" x 84"	<.30	7.52	.25–.30	.14–.50		
Horizontal Slider	V250	3 ¼"	LC35	63" x 44"	<.30	7.52	.24–.30	.14–.50		
	V300	3 ¼"	CW50	75" x 44"	<.30	7.52	as low as 0.25	as low as 0.25		
Fixed	V250	3 ¼"	LC35	56" x 56"	<.30	7.52	.22–.28	.15–.53		
	V300	3 ¼"	CW50	78" x 78"	<.30	7.5	.14–.28	.15–.49	35	29

*-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.

Casement

V250 Series (LC30)

V300 Series (CW50)

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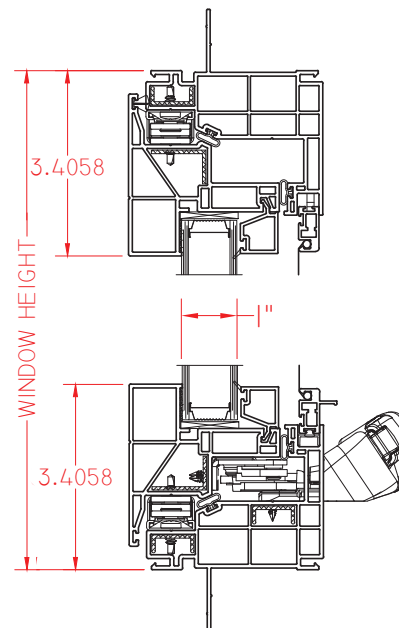
Vinyl Product
Selection Guide

Project-Out

V250 Series (LC35)

V300 Series (CW50)

Washington Global Public Charter School
Washington D.C.
Contractor: The Whiting-Turner Contracting Co.
Dealer: Caffes-Steele Contracting
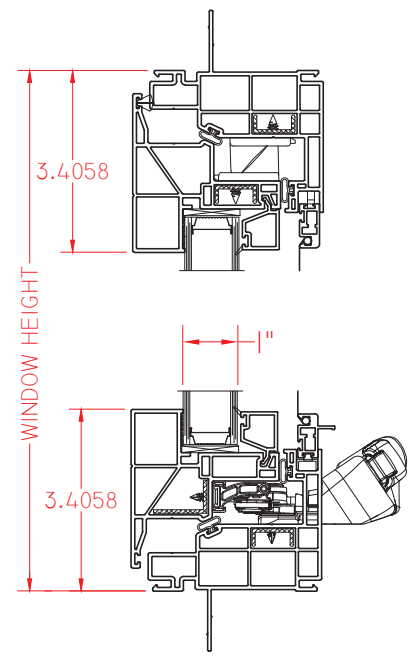
Single Hung / Double Hung

V250 Series Double Hung (LC35)

V250 Series Single Hung (LC35)

V300 Series Single Hung (CW50)

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Vinyl Product
Selection Guide

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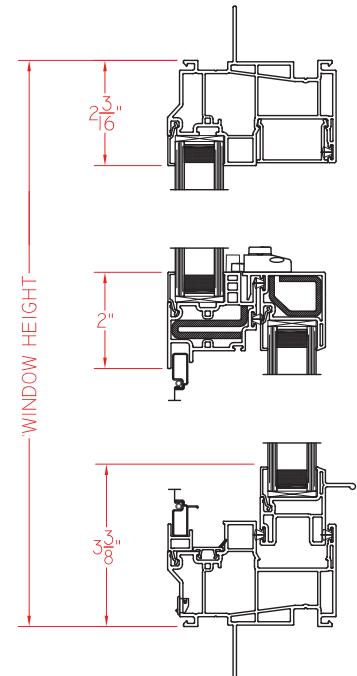
Horizontal Slider

V250 Series (LC35)
Single Slider model shown
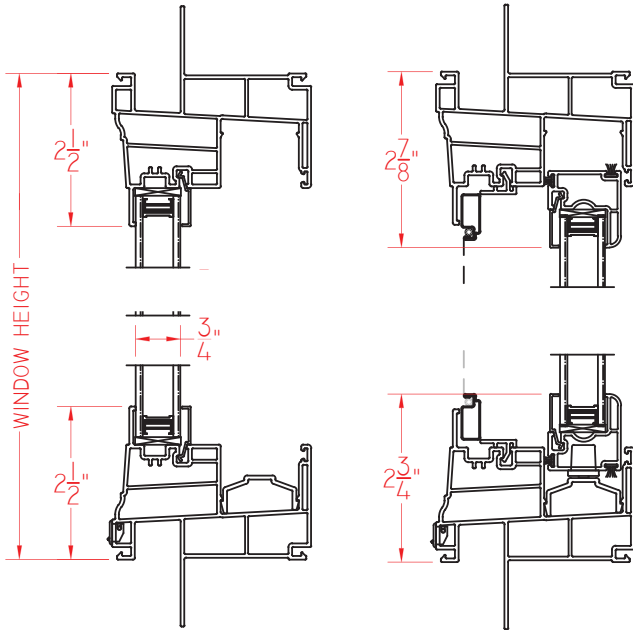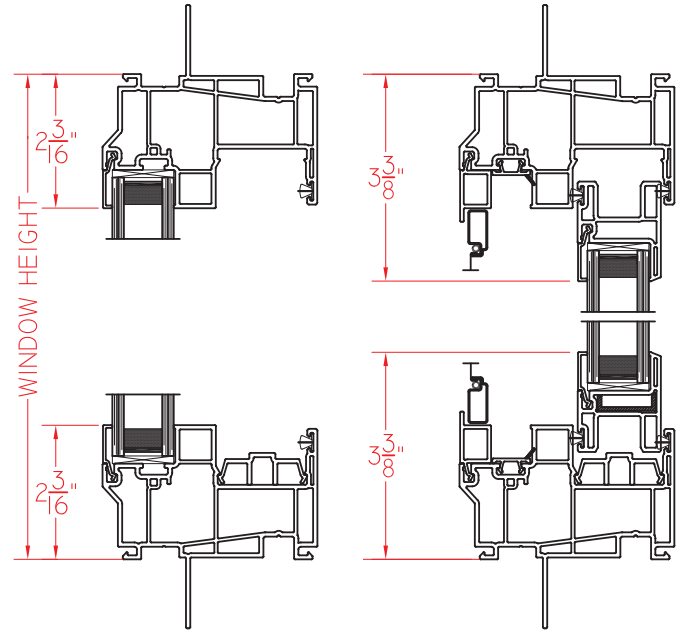
$2\frac{1}{2}$"

$2\frac{7}{8}$"
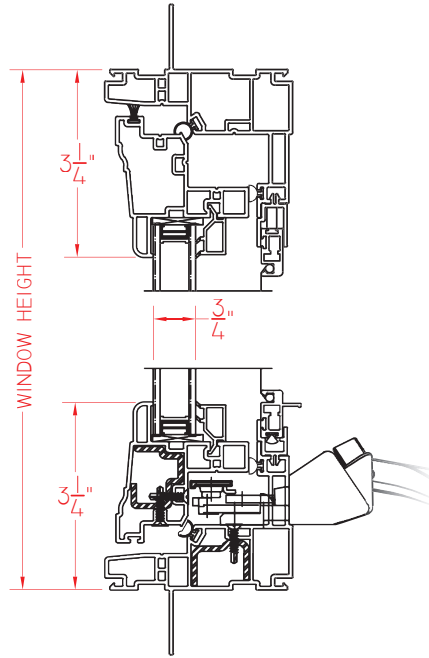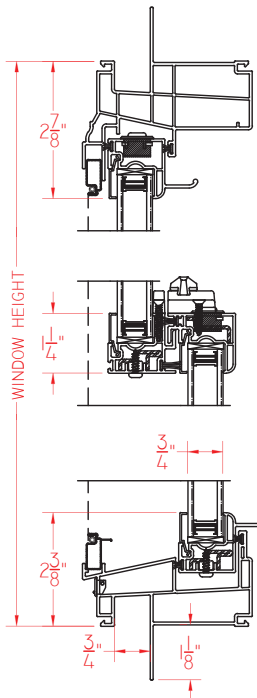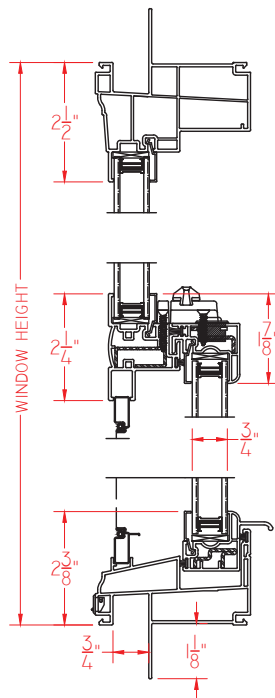
WINDOW HEIGHT

$\frac{3}{4}$"

$2\frac{1}{2}$"

$2\frac{3}{4}$"

V300 Series (CW50)

$2\frac{3}{16}$"

$3\frac{3}{8}$"

WINDOW HEIGHT

$2\frac{3}{16}$"

$3\frac{3}{8}$"

Fixed

V250 Series (LC35)
Sash set model to match all hung and horizontal sliding units

$\frac{3}{4}$"

$\frac{5}{8}$"

$2\frac{1}{2}$"

WINDOW HEIGHT

$\frac{3}{4}$"

$2\frac{1}{2}$"

V250 Series (LC35)
Sash set model to match all casement and project-out units

$3\frac{3}{16}$"

WINDOW HEIGHT

$3\frac{3}{16}$"

$1\frac{1}{8}$"

V300 Series (CW50)
Sash set model to match all casement and project-out units

$2\frac{1}{16}$"

WINDOW HEIGHT

1"

$2\frac{1}{16}$"

V300 Series(CW50)
Sash set model to match all hung and horizontal sliding units

$2\frac{3}{16}$"

WINDOW HEIGHT

$2\frac{3}{16}$"
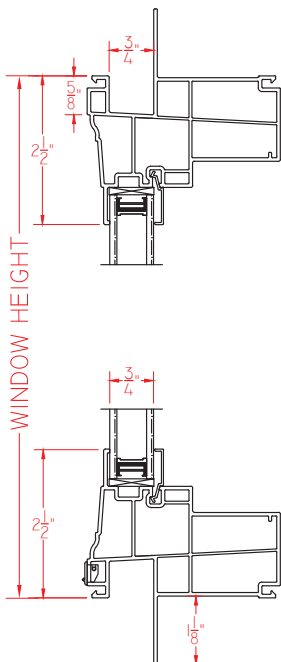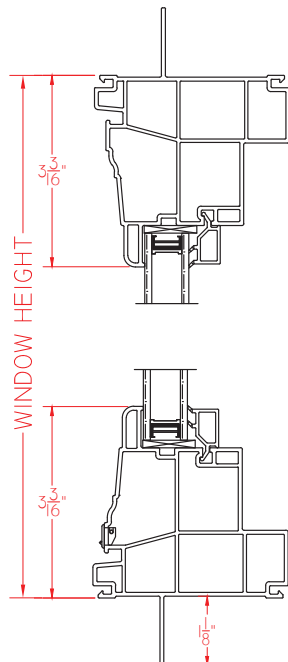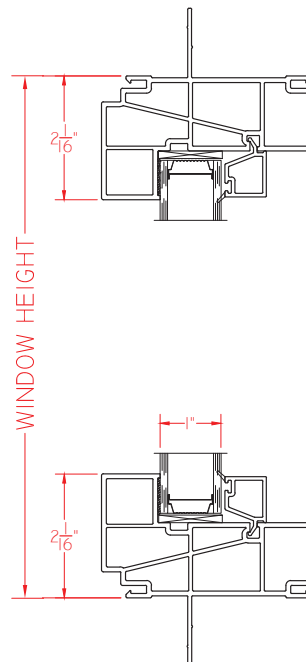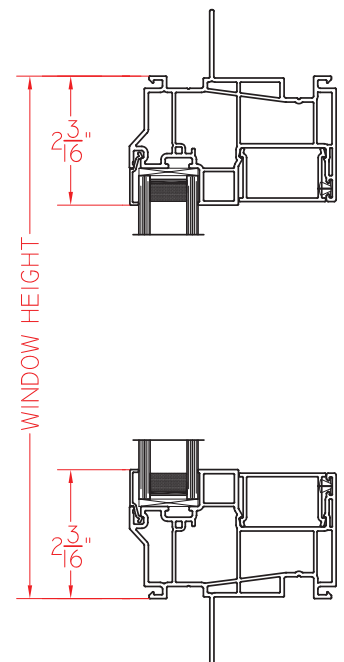
Options
Accessories, Colors, Finishes

Installation Accessories
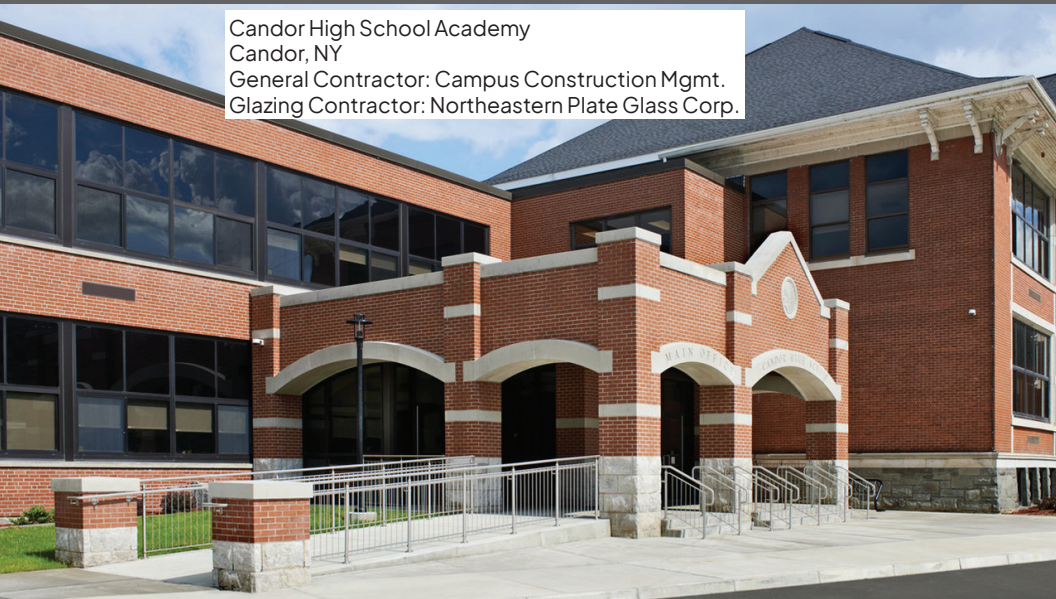
Candor High School Academy
Candor, NY
General Contractor: Campus Construction Mgmt.
Glazing Contractor: Northeastern Plate Glass Corp.

Quaker can provide a multitude of installation accessories for both aluminum and vinyl products.

- Receptors and Subsills

- Panning and Break Metal

- Vertical and Horizontal Mull Systems

- Trim

- Factory applied or sent loose for jobsite installation*

- Decades of experience producing custom, job-specific accessory dies

*Some limitations may apply

Colors & Finishes

Roberto Clemente Middle School
Georgetown, MD
Owner: Mongomery Co. Public School Dist.
Contractor: Metro Metal Services

For Quaker Aluminum Windows:
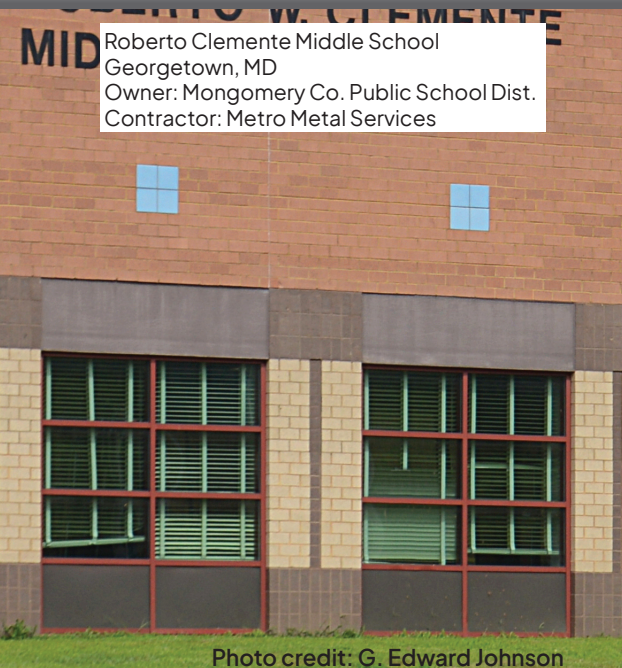- Finishes: FGIA 2604 Finish is our standard. Upgrades to a 2605 finish are available for most colors.

- Choose from 30 "Quick-Pick" colors. If that's not enough, our custom color capabilities put any color at your fingertips.

- Class I Anodized is available upon request

For Quaker Vinyl Windows:
- Pure uPVC in White or Sandstone vinyl colors

- Painted Vinyl: Available for 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.

- FGIA 615–05 is the standard finish 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.

Photo credit: G. Edward Johnson

800-347-0438

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Options
Glass & Grids

Glass

Pane thickness:
- $\frac{3}{32}$"
- $\frac{1}{8}$"
- $\frac{5}{32}$"
- $\frac{3}{16}$"
- $\frac{1}{4}$"
- $\frac{5}{16}$"

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
- Solar-Cooled
- 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.

Eldon Middle School
Eldon, MO
General Contractor: Verslues Construction
Comm. Window Distributor: Becker Millwork

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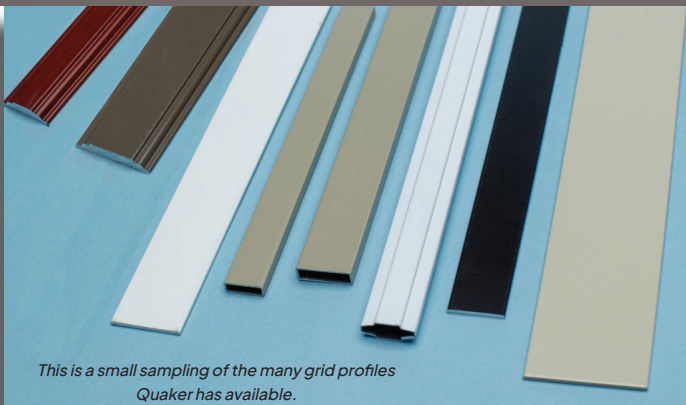
This is a small sampling of the many grid profiles Quaker has available.

Grids Between the Glass:
- Flat (⅝", ¾" or 1")
- Contoured (¾")

Simulated Divided Lites:
- Numerous profiles and combinations available (½" to 3 ¾" wide)

Some limitations may apply

Columbus Collegiate Academy West
Columbus, OH
Owner: United Schools Network
Architects: Triad Architects
Contractor: Corna-Kokosing Const.
Dealer: Northern Window & Door

References

See more of Quaker in recently completed projects for these schools

ALABAMA
North Sand Mountain High School - Bryant

ARIZONA
Red Rock Day School -Red Valley
Cartwright School District #83 - Phoenix

ARKANSAS
Sloan-Hendrix School District - Imboden
Two Rivers School District - Ola

COLORADO
Bryant Webster Elementary School - Denver

CONNECTICUT
Tolland Middle School - Tolland
Westbrook High School - Westbrook

DELAWARE
Newark Charter School - Newark

FLORIDA
Chumuckla Elementary School - Jay

GEORGIA
Pebblebrook High School - Mableton
Tift County School District - Tifton

ILLINOIS
Baldwin Elementary School - Quincy
Carol Stream Elementary School - Carol Stream
Denman Elementary School - Quincy
Iles Elementary School - Quincy
Legal Prep Charter Academy - Chicago
Macomb Middle School - Macomb
Nazareth Academy High School - La Grange Park
Riley Comm. Consolidated School Dist. - Marengo
Robert Fulton Elementary School - Chicago
Rooney Elementary School - Quincy
St. Luke's Academy - Chicago

INDIANA
Lake Ridge New Tech School - Gary

IOWA
Dubuque High School - Dubuque
Solon High School - Solon

KANSAS
USD 316 Golden Plains Elementary School - Selden

KENTUCKY
Jody Richards Elementary School - Bowling Green
Our Lady of the Sacred Heart Academy - Walton
St. Martha Catholic School - Louisville

LOUISIANA
Lincoln Preparatory School - Grambling
St. Augustine High School - New Orleans
St. James Episcopal Day School - Baton Rouge

MARYLAND
Maryland School for the Blind - Baltimore
Roberto Clemente Middle School - Georgetown
St. Margaret School - Bel Air

MASSACHUSETTS
Rollins School - Lawrence
St. Mark's School - Southborough
Wayland Middle School - Wayland
Yeshiva Ohr Yisrael School - Chestnut Hill

MICHIGAN
Robert Nickels Intermediate School - Byron Center
St. John's Lutheran School - Grand Haven

MINNESOTA
Browerville Public School - Browerville
Plainview-Elgin-Millville High School - Plainview
St. Frances de Sales School - St. Paul

MISSISSIPPI
Attala County School District - Kosciusko
Brandon Middle School - Brandon
Canton 9th Grade Academy - Canton
Chastain Middle School - Jackson
Ethel High School - Ethel
Greenlee Elementary School - McCool
Indianola Academy - Indianola
McNeal Elementary School - Canton
Pearl River County Elementary - McNeill

MISSOURI
Blessed Teresa of Calcutta School - Ferguson
Central VPA High School - St. Louis
City Garden Montessori School - St. Louis
East Elementary School - Jefferson City
Hallsville Primary School - Hallsville
Hannibal Middle School - Hannibal
Marian Middle School - St. Louis
Mark Twain High School - Center
Missouri School for the Deaf - Fulton
Nottingham CAJT High School - St. Louis
Novinger High School - Novinger
Ralls County R-2 School District - Center
Southland C-9 School District - Cardwell
St. Mary's Parochial School - Frankenstein
Vienna High School - Vienna

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NEBRASKA
Emerson Elementary School – Alliance
Grandview Elementary School – Alliance
Valentine High School – Valentine

NEW YORK
Candor High School Academy – Candor
Lackawanna High School – Lackawanna
Martin Road Elementary School – Lackawana

NORTH CAROLINA
North Newton Elementary School – Lexington
W.G. Pearson Middle School – Durham

OHIO
Bishop Hartley High School – Columbus

OKLAHOMA
Primrose School of South Tulsa – Tulsa

OREGON
Hanby Middle School – Gold Hill
Medford School District – Medford

PENNSYLVANIA
Gateway Middle School – Monroeville
Goddard School – Philadelphia
Western PA. School for the Deaf – Edgewood

RHODE ISLAND
North Smithfield School District – North Smithfield

SOUTH CAROLINA
Newberry Elementary School – Newberry

TENNESSEE
Center Hill Middle School – Memphis
Collierville School System Admin. Bldg. – Collierville

TEXAS
Atonement Academy – San Antonio
Doss School – Doss
Fort Worth County Day School – Fort Worth
Friona ISD High School – Friona
Meadows Independent School District – Lubbock

VERMONT
Otter Valley Union High School – Brandon
St. Francis Xavier School – Winooski

WEST VIRGINIA
Burnesville Elementary School – Burnsville
Chestnut Mountain Ranch School – Morgantown

WISCONSIN
Veritas High School – Milwaukee

Godwin Hall
North Carolina School of Science & Mathematics
Morganton, NC
Owner: NCSSM
Architect: Duda Paine Architects
Contractor: Barnhill Contracting
Glazing Contractor: Carolina Classic Windows & Glass

Q QUAKER COMMERCIAL

K-12 SCHOOLS

Find more information on Quaker windows and doors

Q QUAKER COMMERCIAL

💻 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.

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FGIA
Fenestration & Glazing
Industry Alliance

MEMBER
NGA
NATIONAL GLASS ASSOCIATION

NFRC
National Fenestration
Rating Council®

March, 2023 V1

ON THE COVER:
Martin Luther King Middle School
Hartford, CT
General Contractor: Downes Construction
Architect: JCJ Architecture
Glazing Contractor: Cherry Hill Glass Co.