

Peerless G2T1

Dual Action Thermal Aluminum Window G2T1-T5 AW-PG60-DAW

PRODUCT FEATURES

Frame depth	3-1/4"
Typical wall thickness	.080"
Thermal break design	Ribbed Polyamide strut
Standard glass thickness	1"
Ext./Int. glazing material	Santoprene/Santoprene
U Value	.305



Dual Action Tilt Turn Window System

The Dual Action Tilt Turn G2T1 ENERGSAVE Window offers flexibility in design. The series has been designed to allow for natural ventilation in the tilt open position and ease of cleaning in the turn operation position. The G2T1 series can be manufactured in larger sizes, which eliminates the need for transoms providing increased daylighting. The Dual Action window provides a multi-point locking system and optional key-operated handle for added safety and security.

Energy Innovation from the Heartland of America

 **Peerless**
ARCHITECTURAL WINDOWS & DOORS



Peerless G2T1

G2T1-T5 AW-PG60-DAW

Dual Action Thermal Aluminum Window



BENEFITS

ARCHITECT

Energy Savings

- Unique .305 U Value for an AW dual action window
- Tested .07 air infiltration rate is equivalent to a fixed window

Third Party Certifications

- AAMA – certified window for performance
- IGCC – certified insulating glass for long life

Design Flexibility

- Unique frame design allows for multiple selection of glass types to meet Low U values

Finish and Color Choices

- Exterior and interior colors can be different
- Standard or anodize paint colors

BUILDING OWNER

Building Security

- One handle engages all vent perimeter locks
- Optional key-operated handle equals no opening

Low Maintenance

- Vent hardware easy to adjust, if necessary
- Durable metal handles and hinges for long life

INSTALLER

Frame Choices

- Continuous head/sill/jamb eliminate mullions
- Flange designs can eliminate field trimming

Field Labor Reductions

- Easy-to-remove glass film keeps glass clean
- Dry exterior gaskets ensure interior reglazing

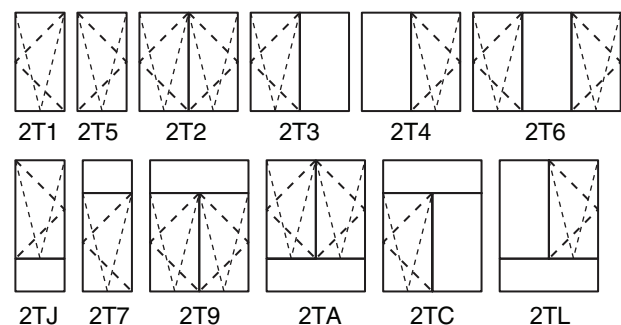


CERTIFICATION	G2T1
AAMA standard/specification	A440-08
Minimum test size	60" x 99"
Air infiltration rate @6.24 psf	<0.1 cfm/sf
Water test pressure	15 psf
Structural load test pressure	90 psf
*U Value	.305

*Test glass – 1/4" soft Low E x Argon x 1/4"

TYPICAL CONFIGURATIONS

For Dual Action Windows



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Peerless Architectural Windows and Doors, 2403 S. Main, Fort Scott, KS 66701
Phone: 620-223-4610 • www.peerlessproducts.com

Peerless G201

Project Out/Awning Thermal Aluminum Window

AW-PG100-AP

PRODUCT FEATURES

Frame depth	3-1/4"
Typical wall thickness	.080"
Thermal break design	Ribbed Polyamide strut
Standard glass thickness	1"
Ext./Int. glazing material	Santoprene/Santoprene
U Value	.382



Designed For The Energy Needs Of The Future

ENERGSAVE products are designed for the energy needs of the future. Changing codes and new building requirements have created a demand for products that will minimize heat loss in winter and maximize cooling retention in the summer for the envelope of the building. The G201 Project Out series offers superior energy efficiency and long lasting performance.

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Peerless G201

G201 AW-PG100-AP

Project Out Awning Thermal Aluminum Window



BENEFITS

ARCHITECT

Energy Savings

- Unique .382 U Value for an AW project out window
- A low Solar Heat Gain Coefficient of 0.195

Third Party Certifications

- AAMA – certified window for performance
- IGCC – certified insulating glass for long life

Design Flexibility

- Unique frame design allows for multiple selection of glass types to meet Low U values

Finish and Color Choices

- Exterior and interior colors can be different
- Standard or anodize paint colors

BUILDING OWNER

Building Security

- One handle engages all vent perimeter locks
- Optional key-operated handle equals no opening

Low Maintenance

- Vent hardware easy to adjust, if necessary
- Durable metal handles and hinges for long life

INSTALLER

Frame Choices

- Continuous head/sill/jamb eliminate mullions
- Flange designs can eliminate field trimming

Field Labor Reductions

- Easy-to-remove glass film keeps glass clean
- Dry exterior gaskets ensure interior reglazing

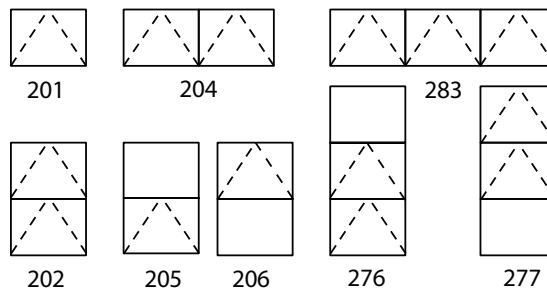


CERTIFICATION	G201
AAMA standard/specification	A440-08
Minimum test size	60" x 36"
Air infiltration rate @6.24 psf	<0.1 cfm/sf
Water test pressure	15 psf
Structural load test pressure	150 psf
*U Value	.382

*Test glass – 1/4" soft Low E x Argon x 1/4"

TYPICAL CONFIGURATIONS

For Project Out Windows



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Peerless G211

Project In/Hopper Thermal Aluminum Window

AW-PG100-AP

PRODUCT FEATURES

Frame depth	3-1/4"
Typical wall thickness	.080"
Thermal break design	Ribbed Polyamide strut
Standard glass thickness	1"
Ext./Int. glazing material	Santoprene/Santoprene
U Value	.342



The ENERGSAVE Project In Series

The ENERGSAVE Project In Series is designed for energy efficiency and ease of operation.

A unique frame design, glass system and heat flow resistors are built in to every ENERGSAVE product to provide increased energy efficiency. Durable handles and hardware allow for ease of operation year after year. Innovative features ensure that the window series will provide long lasting total performance.

Energy Innovation from the Heartland of America


ARCHITECTURAL WINDOWS & DOORS



Peerless G211

G211 AW-PG100-AP

Project In Hopper Thermal Aluminum Window



BENEFITS

ARCHITECT

Energy Savings

- Unique .342 U Value for an AW project in window
- A low Solar Heat Gain Coefficient of 0.20

Third Party Certifications

- AAMA – certified window for performance
- IGCC – certified insulating glass for long life

Design Flexibility

- Unique frame design allows for multiple selection of glass types to meet Low U values

Finish and Color Choices

- Exterior and interior colors can be different
- Standard or anodize paint colors

BUILDING OWNER

Building Security

- One handle engages all vent perimeter locks
- Optional key-operated handle equals no opening

Low Maintenance

- Vent hardware easy to adjust, if necessary
- Durable metal handles and hinges for long life

INSTALLER

Frame Choices

- Continuous head/sill/jamb eliminate mullions
- Flange designs can eliminate field trimming

Field Labor Reductions

- Easy-to-remove glass film keeps glass clean
- Dry exterior gaskets ensure interior reglazing

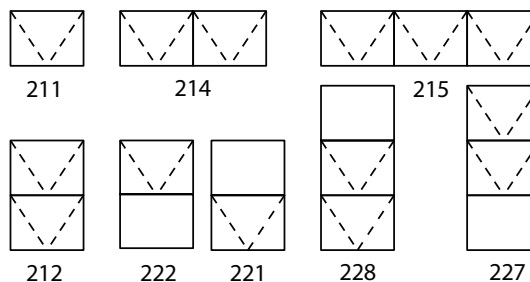


CERTIFICATION	G211
AAMA standard/specification	A440-08
Minimum test size	60" x 36"
Air infiltration rate @6.24 psf	<0.1 cfm/sf
Water test pressure	15 psf
Structural load test pressure	150 psf
*U Value	.342

*Test glass – 1/4" soft Low E x Argon x 1/4"

TYPICAL CONFIGURATIONS

For Project In Windows



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Peerless G241

Fixed Thermal Aluminum Window

AW-PG90-FW

PRODUCT FEATURES

Frame depth	3-1/4"
Typical wall thickness	.080"
Thermal break design	Ribbed polyamide strut
Standard glass thickness	1"
Ext./Int. glazing material	Santoprene/Santoprene
U Value	.297



The ENERGSAVE Fixed Window System

The ENERGSAVE Fixed Window system has been designed with an innovative frame to reduce heat transfer and increase energy efficiency. Various Muntin options are available to accommodate different architectural styles and to create a unique appearance for the building. Multiple units can be assembled into one Master frame at the manufacturing facility along with an optional flange design to make installation in the field easier and less costly.

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Peerless G241

G241 AW-PG90-FW

Fixed Thermal Aluminum Window



BENEFITS

ARCHITECT

Energy Savings

- U Value of .297 below the .35 national standards
- Narrow sightlines help maximize daylighting

Third Party Certifications

- AAMA – certified window for performance
- IGCC – certified insulating glass for long life

Design Flexibility

- Unique frame design allows for multiple selection of glass types to meet Low U values

Finish and Color Choices

- Exterior and interior colors can be different
- Standard or anodize paint colors

BUILDING OWNER

Occupant Comfort

- Maximum daylighting provides winter warmth
- Airtightness reduces winter and summer drafts

Building Security

- Internal silicone heel bead and interior glazing beads resist exterior vandalism or access

INSTALLER

Frame Choices

- Continuous head/sill/jamb eliminate mullions
- Flange designs can eliminate field trimming

Field Labor Reductions

- Easy-to-remove glass film keeps glass clean
- Dry exterior gaskets ensure interior reglazing

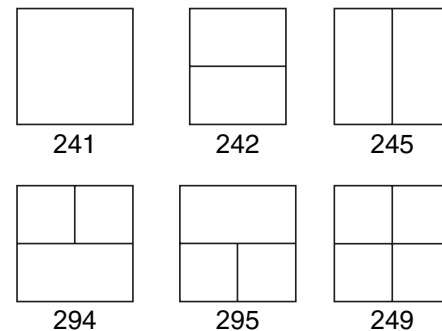


CERTIFICATION	G241
AAMA standard/specification	A440-08
Minimum test size	60" x 99"
Air infiltration rate @6.24 psf	<0.1 cfm/sf
Water test pressure	15 psf
Structural load test pressure	105 psf
* U Value	.297

*Test glass – 1/4" soft Low E x Argon x 1/4"

TYPICAL CONFIGURATIONS

For Fixed Windows



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Peerless Architectural Windows and Doors, 2403 S. Main, Fort Scott, KS 66701
Phone: 620-223-4610 • www.peerlessproducts.com

Peerless G251/G261

Casement Outswing/Inswing
Thermal Aluminum Window
AW-PG100-C/AW-PG80-C

PRODUCT FEATURES

Frame depth	3-1/4"
Typical wall thickness	.080"
Thermal break design	Ribbed polyamide strut
Standard glass thickness	1"
Ext./Int. glazing material	Santoprene/Santoprene
U Value	.382/.322 (251/261)



The ENERGSAVE Casement Series

The ENERGSAVE Casement Series is available in inswing and outswing models with right and left hand hinges available depending on design preferences. Numerous configurations are available that will enhance a building's design and provide a sleek architectural appearance. The design also allows for two different finishes—one on the exterior and a different one on the interior.

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Peerless G251-G261

G251-55 / G261-65

Casement Outswing AW-PG100-C / Casement Inswing AW-PG80-C
Thermal Aluminum Window



BENEFITS

ARCHITECT

Energy Savings

- Unique .382 U Value (G251) for an AW casement window
- Unique .322 U Value (G261) for an AW casement window
- Less than many aluminum thermal casement windows

Third Party Certifications

- AAMA – certified window for performance
- IGCC – certified insulating glass for long life

Design Flexibility

- Unique frame design allows for multiple selection of glass types to meet Low U values

Finish and Color Choices

- Exterior and interior colors can be different
- Standard or anodize paint colors

BUILDING OWNER

Building Security

- One handle engages all vent perimeter locks
- Optional key-operated handle equals no opening

Low Maintenance

- Vent hardware easy to adjust, if necessary
- Durable metal handles and hinges for long life

INSTALLER

Frame Choice

- Continuous head/sill/jamb eliminate mullions
- Flange designs can eliminate field trimming

Field Labor Reductions

- Easy-to-remove glass film keeps glass clean
- Dry exterior gaskets ensure interior reglazing

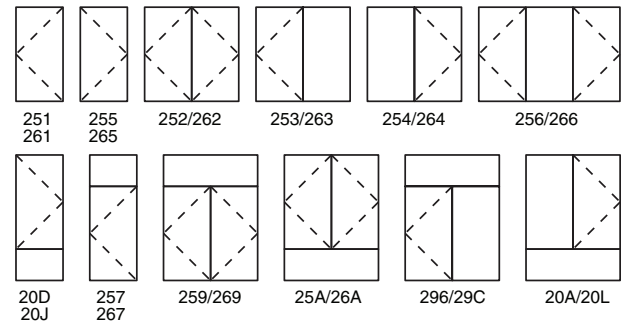


CERTIFICATION	G251	G261
AAMA standard/specification	A440-08	A440-08
Minimum test size	36" x 60"	48" x 71"
Air infiltration rate @6.24 psf	<0.1 cfm/sf	<0.1 cfm/sf
Water test pressure	15 psf	15 psf
Structural load test pressure	150 psf	120 psf
*U Value	.382	.322

*Test glass – 1/4" soft Low E x Argon x 1/4"

TYPICAL CONFIGURATIONS

For Casement Windows



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Peerless G601

Project Out/Awning Thermal Aluminum Window

AW-PG100-AP

PRODUCT FEATURES

Frame depth	3-1/4"
Typical wall thickness	.080"
Thermal break design	Polyamide strut
Standard glass thickness	1"
Ext./Int. glazing material	Santoprene/Santoprene
U Value	.388



Designed for Performance

The Peerless Project Out window system will add to the value of any replacement or new construction project. Designed for its aesthetic beauty and durability, the ENERGSAVE Project Out window system provides superior energy efficiency and long lasting performance. The flexibility of the design allows for Architects, Building Owners and Facility Managers to select an exterior paint finish that will add to the building's architectural appeal and a different interior paint color to satisfy a variety of decorator options.

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Peerless G601

G601 AW-PG100-AP

Project Out Awning Thermal Aluminum Window



BENEFITS

ARCHITECT

Energy Savings

- .388 U Value for an AW project out window
- Less than many aluminum thermal project out windows

Third Party Certifications

- AAMA – certified window for performance
- IGCC – certified insulating glass for long life

Design Flexibility

- Unique frame design allows for multiple selection of glass types to meet low U values

Finish and Color Choices

- Exterior and interior colors can be different
- Standard or anodize paint colors

BUILDING OWNER

Building Security

- One handle engages all vent perimeter locks

Low Maintenance

- Vent hardware easy to adjust, if necessary
- Durable metal handles and hinges for long life

INSTALLER

Frame Choices

- Continuous head/sill/jamb eliminate mullions
- Flange designs can eliminate field trimming

Field Labor Reductions

- Easy-to-remove glass film keeps glass clean
- Dry exterior gaskets ensure interior reglazing

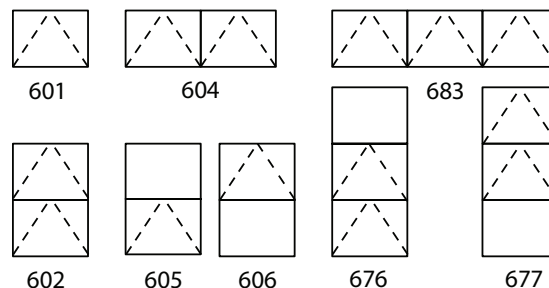


CERTIFICATION	G601
AAMA standard/specification	A440-08
Minimum test size	60" x 36"
Air infiltration rate @6.24 psf	<0.1 cfm/sf
Water test pressure	15 psf
Structural load test pressure	150 psf
*U Value	.388

*Test glass – 1/4" soft Low E x Argon x 1/4"

TYPICAL CONFIGURATIONS

For Project Out Windows



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12/2016

Peerless G611

Project In/Hopper
Thermal Aluminum Window
AW-PG100-AP

PRODUCT FEATURES

Frame depth	3-1/4"
Typical wall thickness	0.080"
Thermal break design	Polyamide strut
Standard glass thickness	1"
Ext./Int. glazing material	Santoprene/Santoprene
U Value	.34



Beauty and Performance

The Peerless G611 Window System is ideal for applications that require an architectural Project In style of window with the added benefit of superior performance and ease of installation. This ENERGSAVE series offers a wide selection of accessories and options to accommodate any architectural requirement. The G611 Project In window system has been designed for ease of operation and maintenance. This series is the perfect balance between beauty, energy efficiency, and durability.

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Peerless G611

G611 AW-PG100-AP

Project In Hopper Thermal Aluminum Window



BENEFITS

ARCHITECT

Energy Savings

- .34 U Value for an AW project in window
- Less than many aluminum thermal project in windows

Third Party Certifications

- AAMA – certified window for performance
- IGCC – certified insulating glass for long life

Design Flexibility

- Unique frame design allows for multiple selection of glass types to meet low U values

Finish and Color Choices

- Exterior and interior colors can be different
- Standard or anodize paint colors

BUILDING OWNER

Building Security

- One handle engages all vent perimeter locks for ease of operation and added security

Low Maintenance

- Vent hardware easy to adjust, if necessary
- Durable metal handles and hinges for long life

INSTALLER

Frame Choices

- Continuous head/sill/jamb eliminate mullions
- Flange designs can eliminate field trimming

Field Labor Reductions

- Easy-to-remove glass film keeps glass clean
- Dry exterior gaskets ensure interior reglazing

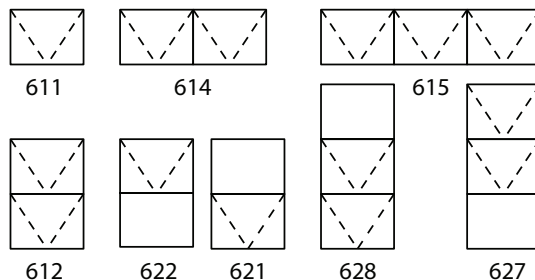


CERTIFICATION	G611
AAMA standard/specification	A440-08
Minimum test size	60" x 36"
Air infiltration rate @6.24 psf	<0.1 cfm/sf
Water test pressure	15 psf
Structural load test pressure	150 psf
*U Value	.34

*Test glass – 1/4" soft Low E x Argon x 1/4"

TYPICAL CONFIGURATIONS

For Project In Windows



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Peerless G641

Fixed Thermal Aluminum Window

AW-PG110-FW

PRODUCT FEATURES

Frame depth	3-1/4"
Typical wall thickness	.050"
Thermal break design	Polyamide strut
Standard glass thickness	1"
Ext./Int. glazing material	Santoprene/Santoprene
U Value	.299



Energy Efficient Design

The Peerless Fixed Window System offers design options to satisfy a variety of Architectural styles. The ENERGSAVE Series provides advanced Energy Efficiency, superior performance and the strength and durability of aluminum. This series provides ease of installation, reduced field labor costs and decreased maintenance. The Peerless G641 is the ideal choice for a project requiring an innovative thermally advanced Fixed Window System.

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Peerless G641

G641 AW-PG110-FW

Fixed Thermal Aluminum Window



BENEFITS

ARCHITECT

Energy Savings

- U Value of .299 below .35 national standards
- Narrow sightlines help maximum daylighting

Third Party Certifications

- AAMA – certified window for performance
- IGCC – certified insulating glass for long life

Design Flexibility

- Unique frame design allows for multiple selection of glass types to meet Low U values

Finish and Color Choices

- Exterior and interior colors can be different
- Standard or anodize paint colors

BUILDING OWNER

Occupant Comfort

- Maximum daylighting provides winter warmth
- Airtightness reduces winter and summer drafts

Building Security

- Internal silicone heel bead and interior glazing beads resist exterior vandalism or access

INSTALLER

Frame Choices

- Continuous head/sill/jamb eliminate mullions
- Flange designs can eliminate field trimming

Field Labor Reductions

- Easy-to-remove glass film keeps glass clean
- Dry exterior gaskets ensure interior reglazing

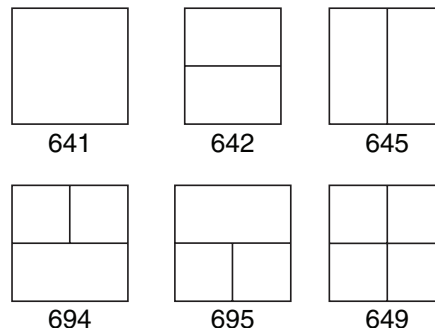


CERTIFICATION	G641
AAMA standard/specification	A440-08
Minimum test size	60" x 99"
Air infiltration rate @6.24 psf	<0.1 cfm/sf
Water test pressure	15 psf
Structural load test pressure	105 psf
* U Value	.299

*Test glass – 1/4" soft Low E x Argon x 1/4"

TYPICAL CONFIGURATIONS

For Fixed Windows



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12/2016

Peerless G651/G661

Casement Outswing/Inswing
Thermal Aluminum Window
AW-PG90-C/AW-PG100-C

PRODUCT FEATURES

Frame depth	3-1/4"
Typical wall thickness	.080"
Thermal break design	Polyamide strut
Standard glass thickness	1"
Ext./Int. glazing material	Santoprene/Santoprene
U Value	.388/.341 (651/661)



Sleek Design

The Peerless ENERGSAVE Casement window system's sleek design is the ideal choice for projects that require a narrower sightline such as steel and wood replacement projects. Peerless innovative designs meet the energy demands of the future while providing strength and durability. The G651/G661 Series is AAMA Life Cycle tested to ensure that the windows will continue to perform for generations to come.

Energy Innovation from the Heartland of America

 **Peerless**
ARCHITECTURAL WINDOWS & DOORS



Peerless G651/G661

G651-G661

Casement Outswing AW-PG90-C / Casement Inswing AW-PG100-C
Thermal Aluminum Window



BENEFITS

ARCHITECT

Energy Savings

- .388/.341 (651/661) U Value
- Less than many aluminum thermal casement windows

Third Party Certifications

- AAMA – certified window for performance
- IGCC – certified insulating glass for long life

Design Flexibility

- Unique frame design allows for multiple selection of glass types to meet low U values

Finish and Color Choices

- Exterior and interior colors can be different
- Standard or anodize paint colors

BUILDING OWNER

Building Security

- One handle engages all vent perimeter locks for ease of operation and added security

Low Maintenance

- Vent hardware easy to adjust, if necessary
- Durable metal handles and hinges for long life

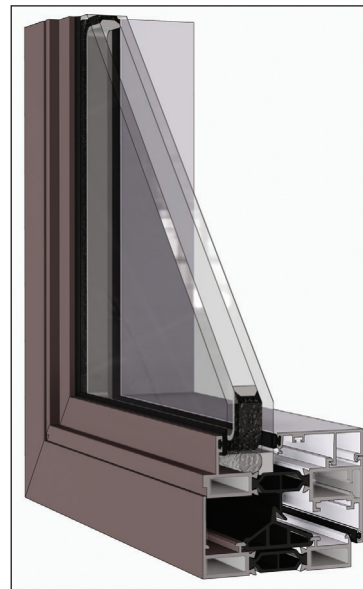
INSTALLER

Frame Choice

- Continuous head/sill/jamb eliminate mullions
- Flange designs can eliminate field trimming

Field Labor Reductions

- Easy-to-remove glass film keeps glass clean
- Dry exterior gaskets ensure interior reglazing

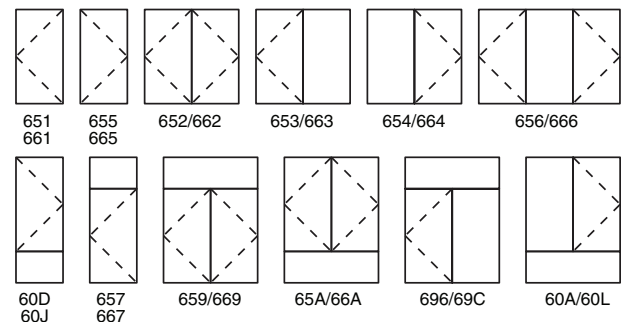


CERTIFICATION	G651	G661
AAMA standard/specification	A440-08	A440-08
Minimum test size	36" x 60"	36" x 60"
Air infiltration rate @6.24 psf	<0.1 cfm/sf	<0.1 cfm/sf
Water test pressure	15 psf	15 psf
Structural load test pressure	135 psf	150 psf
*U Value	.388	.341

*Test glass – 1/4" soft Low E x Argon x 1/4"

TYPICAL CONFIGURATIONS

For Casement Windows



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12/2016

Peerless G5T1

Dual Action Thermal Aluminum Window G5T1-T5 AW-PG60-DAW

PRODUCT FEATURES

Frame depth	4-1/4"
Typical wall thickness	.080"
Thermal break design	Tubular polyamide strut
Standard glass thickness	1"
Ext./Int. glazing material	Santoprene/Santoprene
U Value	.154



Energy Efficiency and Dual Action

The ENERGSAVE Dual Action Series provides superior energy efficiency, design flexibility and ease of installation. The series has been designed to allow for larger vent sizes thereby eliminating the need for transoms and providing a more spacious unobstructed view with increased daylighting. The tilt turn action provides for natural ventilation and easy cleaning. Décor flexibility is enhanced with the option of different finishes and paint colors for the exterior and interior.

Energy Innovation from the Heartland of America

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ARCHITECTURAL WINDOWS & DOORS



Peerless G5T1

G5T1-T5 AW-PG60-DAW

Dual Action Thermal Aluminum Window

GREEN PRODUCT



BENEFITS

ARCHITECT

Triple IGU Energy Savings

- Unequaled .154 U Value for an AW dual action window
- A low Solar Heat Gain Coefficient of 0.19

Third Party Certifications

- AAMA – certified window for performance
- IGCC – certified insulating glass for long life

Design Flexibility

- Unique frame design allows for multiple selection of glass types to meet low U values

Finish and Color Choices

- Exterior and interior colors can be different
- Standard or anodize paint colors

BUILDING OWNER

Building Security

- One handle engages all vent perimeter locks
- Optional key-operated handle equals no opening

Occupant Comfort

- Maximum daylighting provides winter warmth
- Airtightness reduces winter and summer drafts

Low Maintenance

- Vent hardware is easy to adjust, if necessary
- Durable metal handles and hinges for long life

INSTALLER

Frame Choices

- Continuous head/sill/jamb eliminate mullions
- Flange designs can eliminate field trimming

Field Labor Reductions

- Easy-to-remove glass film keeps glass clean
- Dry exterior gaskets ensure interior reglazing

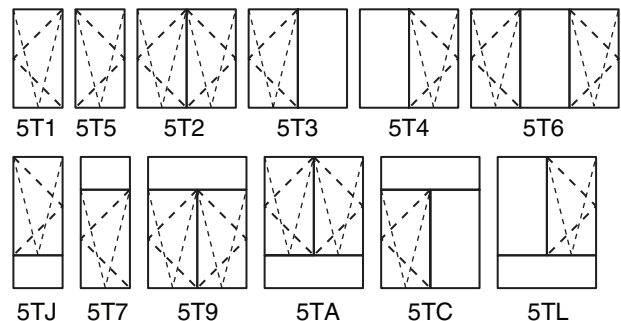


CERTIFICATION	G5T1
AAMA standard/specification	A440-08
Minimum test size	60" x 99"
Air infiltration rate @6.24 psf	<0.1 cfm/sf
Water test pressure	15psf
Structural load test pressure	90 psf
*U Value	.154

*Soft Low E –Argon – soft Low E –Argon – soft Low E

TYPICAL CONFIGURATIONS

For Dual Action Windows



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Peerless G501

Project Out/Awning Thermal Aluminum Window

AW-PG100-AP

PRODUCT FEATURES

Frame depth	4-1/4"
Typical wall thickness	.080"
Thermal break design	Tubular polyamide strut
Standard glass thickness	1"
Ext./Int. glazing material	Santoprene/Santoprene
U Value	.229



Demands of The Future

The G-500 Series was designed as an energy efficient line of products to meet the demands of the future. Peerless provides innovative solutions for the architectural community and continues to advance Green initiatives. Benefits of the series for architects, facility managers, building owners and installers include —design flexibility, Green building enrichment, lower operating costs and ease of installation. This series has been designed in a variety of different configurations with each model offering superior Energy Efficiency.

Energy Innovation from the Heartland of America

 **Peerless**
ARCHITECTURAL WINDOWS & DOORS



Peerless G501

G501 AW-PG100-AP

Project Out Awning Thermal Aluminum Window

GREEN PRODUCT



BENEFITS

ARCHITECT

Energy Savings

- Unequaled .229 U Value for an AW project out window
- A low Solar Heat Gain Coefficient of 0.164

Third Party Certifications

- AAMA – certified window for performance
- IGCC – certified insulating glass for long life

Design Flexibility

- Unique frame design allows for multiple selection of glass types to meet low U values

Finish and Color Choices

- Exterior and interior colors can be different
- Standard or anodize paint colors

BUILDING OWNER

Building Security

- One handle engages all vent perimeter locks
- Optional key-operated handle equals no opening

Low Maintenance

- Vent hardware easy to adjust, if necessary
- Durable metal handles and hinges for long life

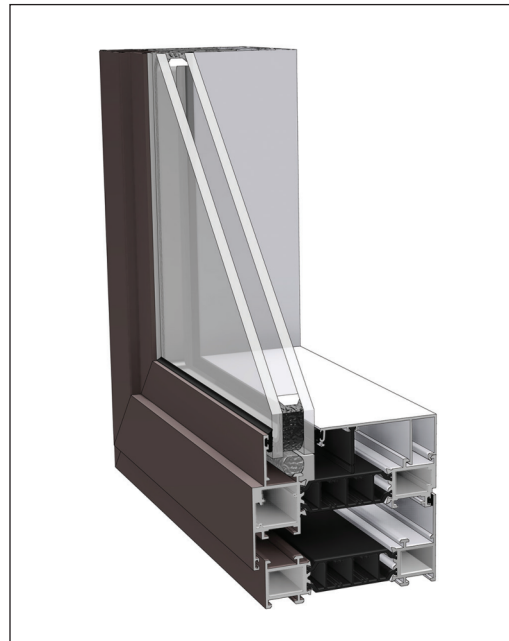
INSTALLER

Frame Choices

- Continuous head/sill/jamb eliminate mullions
- Flange designs can eliminate field trimming

Field Labor Reductions

- Easy-to-remove glass film keeps glass clean
- Dry exterior gaskets ensure interior reglazing

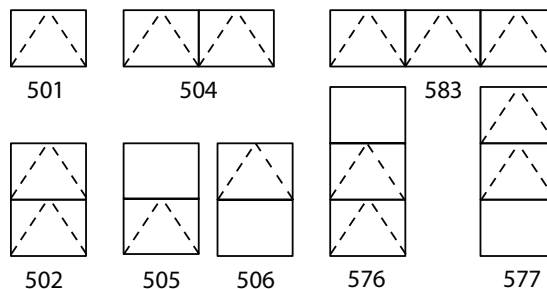


CERTIFICATION	G501
AAMA standard/specification	A440-08
Minimum test size	60" x36"
Air infiltration rate @6.24 psf	<0.1 cfm/sf
Water test pressure	15 psf
Structural load test pressure	150 psf
*U Value	.229

*Test glass – Soft Low E – Argon – soft Low E - Argon – soft Low E

TYPICAL CONFIGURATIONS

For Project Out Windows



Energy Innovation from the Heartland of America



Peerless Architectural Windows and Doors, 2403 S. Main, Fort Scott, KS 66701
Phone: 620-223-4610 • www.peerlessproducts.com

Peerless G511

Project In/Hopper
Thermal Aluminum Window
AW-PG100-AP

PRODUCT FEATURES

Frame depth	4-1/4"
Typical wall thickness	.080"
Thermal break design	Tubular polyamide strut
Standard glass thickness	1"
Ext./Int. glazing material	Santoprene/Santoprene
U Value	.182



Custom Designed For Energy Efficiency

Peerless custom designs Aluminum Architectural windows and doors for the Retrofit and New Construction markets. The exclusive line of ENERGSAVE products offers the strength of aluminum, flexibility of design and the lowest U Values in the industry.

Capabilities include—engineering, testing, aluminum extruding, glass insulating, anodizing and architectural paint finishing. Peerless continues to design products to satisfy the energy requirements of the future.

Energy Innovation from the Heartland of America

 **Peerless**
ARCHITECTURAL WINDOWS & DOORS



Peerless G511

G511 AW-PG100-AP

Project In Hopper Thermal Aluminum Window

GREEN PRODUCT



BENEFITS

ARCHITECT

Energy Savings

- Unequaled .182 U Value for an AW project in window
- A low Solar Heat Gain Coefficient of 0.166

Third Party Certifications

- AAMA – certified window for performance
- IGCC – certified insulating glass for long life

Design Flexibility

- Unique frame design allows for multiple selection of glass types to meet low U values

Finish and Color Choices

- Exterior and interior colors can be different
- Standard or anodize paint colors

BUILDING OWNER

Building Security

- One handle engages all vent perimeter locks
- Optional key-operated handle equals no opening

Low Maintenance

- Vent hardware easy to adjust, if necessary
- Durable metal handles & hinges for long life

INSTALLER

Frame Choices

- Continuous head/sill/jamb eliminate mullions
- Flange designs can eliminate field trimming

Field Labor Reductions

- Easy-to-remove glass film keeps glass clean
- Dry exterior gaskets ensure interior reglazing

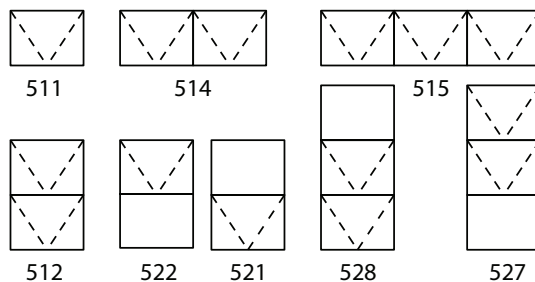


CERTIFICATION	G511
AAMA standard/specification	A440-08
Minimum test size	60" x 36"
Air infiltration rate @6.24 psf	<0.1 cfm/sf
Water test pressure	15 psf
Structural load test pressure	150 psf
*U Value	.182

*Test glass – Soft Low E – Argon – soft Low E - Argon –soft Low E

TYPICAL CONFIGURATIONS

For Project In Windows



Energy Innovation from the Heartland of America



Peerless Architectural Windows and Doors, 2403 S. Main, Fort Scott, KS 66701
Phone: 620-223-4610 • www.peerlessproducts.com

Peerless G541

Fixed Thermal Aluminum Window

AW-PG70-FW

PRODUCT FEATURES

Frame depth	4-1/4"
Typical wall thickness	.080"
Thermal break design	Tubular polyamide strut
Standard glass thickness	1"
Ext./Int. glazing material	Santoprene/Santoprene
U Value	.143



Designed For Energy Efficiency

The G500 ENERGSAVE Aluminum Architectural rated series achieves a low U value by utilizing its technology of lower heat flow and reduced air leakage—a Peerless signature of design. The series incorporates aluminum bars placed within the thermal break to serve as an isolation piece to slow heat flow, while low-E foil is used on each side of the thermal break to reflect heat back out. Neoprene foam is placed above and below the thermal break to help absorb and isolate cold air transfer. Low-E Coating is used on the exterior of both lites of glass to additionally reduce heat exchange.

Energy Innovation from the Heartland of America



Peerless G541

G541 AW-PG70-FW

Fixed Thermal Aluminum Window

GREEN PRODUCT



BENEFITS

ARCHITECT

Energy Savings

- Unequaled .143 U Value for an AW fixed window
- A low Solar Heat Gain Coefficient of 0.207

Third Party Certifications

- AAMA – certified window for performance
- IGCC – certified insulating glass for long life

Design Flexibility

- Unique frame design allows for multiple selection of glass types to meet low U values

Finish and Color Choices

- Exterior and interior colors can be different
- Standard or anodize paint colors

BUILDING OWNER

Building Security

- Internal silicone heel bead and interior glazing beads resist exterior vandalism or access

Occupant Comfort

- Maximum daylighting provides winter warmth
- Airtightness reduces winter and summer drafts

INSTALLER

Frame Choices

- Continuous head/sill/jamb eliminate mullions
- Flange designs can eliminate field trimming

Field Labor Reductions

- Easy-to-remove glass film keeps glass clean
- Dry exterior gaskets ensure interior reglazing

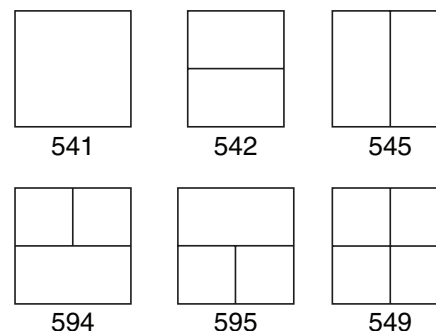


CERTIFICATION	G541
AAMA standard/specification	A440-08
Minimum test size	60" x 99"
Air infiltration rate @6.24 psf	<0.1 cfm/sf
Water test pressure	15psf
Structural load test pressure	105 psf
* U Value	.143

*Test glass – Soft Low E –Argon – soft Low E –Argon – soft Low E

TYPICAL CONFIGURATIONS

For Fixed Windows



Energy Innovation from the Heartland of America



Peerless Architectural Windows and Doors, 2403 S. Main, Fort Scott, KS 66701
Phone: 620-223-4610 • www.peerlessproducts.com

Peerless G551/G561

Casement Outswing/Inswing
Thermal Aluminum Window
AW-PG100-C/AW-PG80-C

PRODUCT FEATURES

Frame depth	4-1/4"
Typical wall thickness	.080"
Thermal break design	Tubular polyamide strut
Standard glass thickness	1"
Ext./Int. glazing material	Santoprene/Santoprene
U Value	.229/.167 (551/561)



Ever Peerless ~ Ever Green

Peerless has continued to develop products through the years to meet the growing demand for energy efficient windows and doors. The G-500 series has been designed as the most energy efficient line of Architectural Aluminum Windows in the industry. The exclusive ENERGSAVE line of products features U values as low as .15, in addition to superior air, water and acoustical performance. Peerless offers a full line of Blast, Hurricane Impact, Acoustic and Historic windows and doors for your most challenging requirements.

Energy Innovation from the Heartland of America



Peerless G551-G561

G551-G561

Casement Outswing AW-PG100-C / Casement Inswing AW-PG80-C
Thermal Aluminum Window

GREEN PRODUCT



BENEFITS

ARCHITECT

Energy Savings

- Unequaled .167 U Value for an AW casement
- Less than most aluminum thermal casements

Third Party Certifications

- AAMA – certified window for performance
- IGCC – certified insulating glass for long life

Design Flexibility

- Unique frame design allows for multiple selection of glass types to meet low U values

Finish and Color Choices

- Exterior and interior colors can be different
- Standard or anodize paint colors

BUILDING OWNER

Building Security

- One handle engages all vent perimeter locks
- Optional key-operated handle equals no opening

Occupant Comfort

- Maximum daylighting provides winter warmth
- Airtightness reduces winter and summer drafts

Low Maintenance

- Vent hardware easy to adjust, if necessary
- Durable metal handles and hinges for long life

INSTALLER

Frame Choices

- Continuous head/sill/jamb eliminate mullions
- Flange designs can eliminate field trimming

Field Labor Reductions

- Easy-to-remove glass film keeps glass clean
- Dry exterior gaskets ensure interior reglazing

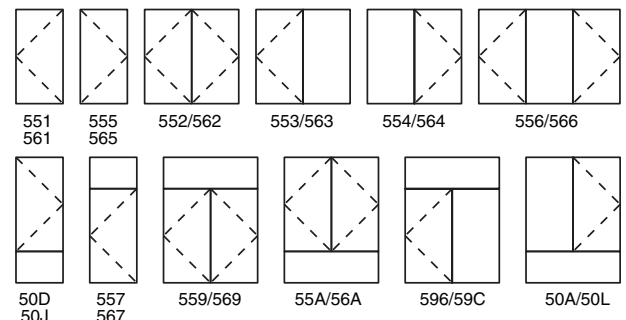


CERTIFICATION	G551	G561
AAMA standard/specification	A440-08	A440-08
Minimum test size	36" x 60"	48" x 71"
Air infiltration rate @6.24	<0.1 cfm/sf	<0.1 cfm/sf
Water test pressure	15 psf	15 psf
Structural load test pressure	150 psf	120 psf
*U Value	.229	.167

* Test glass – Soft Low E – Argon – soft Low E – Argon – soft Low E

TYPICAL CONFIGURATIONS

For Casement Windows



Energy Innovation from the Heartland of America

Peerless
ARCHITECTURAL WINDOWS & DOORS

Peerless Architectural Windows and Doors, 2403 S. Main, Fort Scott, KS 66701
Phone: 620-223-4610 • www.peerlessproducts.com

Peerless Products Inc

Juliet Balcony

Have you ever designed a project with typical balconies to experience significant expenses and challenging water management? Have you ever driven past a building where all you notice is how much stuff is cluttering the balconies?

The Peerless Juliet Balconies give occupants fresh air while keeping the buildings look sleek and aesthetically pleasing. The Juliet Balconies come co-extruded onto your Peerless receptor for easy, efficient installation saving you the time and money of bringing in another trade like a traditional balcony. Water management is a non-issue with the Juliet Balconies easy connection into the window system, be assured the balcony will last the test of time. They come in a picket rail for the more traditional look and glass for a modern look.

[Watch our Video!](#)



Benefits of Glass Rail Juliet Balcony

- Clean aesthetic to make your building stand out from the rest
- Meet fresh air requirements without expensive equipment
- Easy connection onto the receptor system
- Saves cost of installing full balcony
- Glass rail uses Sentry Glass™ lami for ensured safety



Benefits of Picket Rail Juliet Balcony

- Provides a clean exterior to the building
- Helps achieve fresh air requirements
- Co-extruded onto the receptor system
- Saves cost of installing full balcony

Performance Calculations

Balcony capabilities tested at 8' width at standard balcony performance calculations. Project specific testing available upon request.



620.223.4610

PeerlessProducts.com



092021

The Peerless **ENERGSAVE G800**

Casement Inswing/Fixed Thermal Aluminum Window

CW-PG65-C

Casement Inswing by Fixed Product Features

Frame Depth

1⁵/₈"

Typical Wall Thickness

.062"

IGU Makeup

1" IGU(1/4"(LowE366-#2) x 1/4" (clear)

Exterior/Interior Glazing material

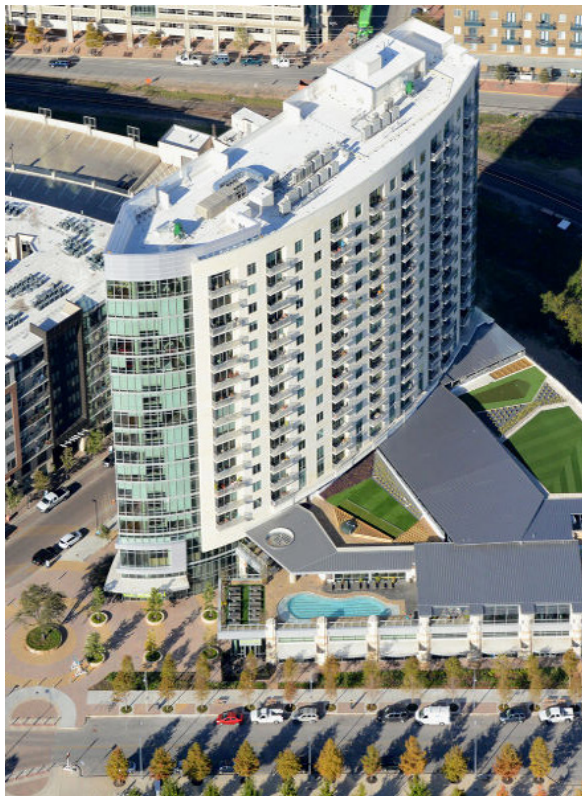
Santoprene/Santoprene

Thermal Break Design

Polyamide strut

SHGC/U-value

0.236/0.322



Peerless Architectural Windows and Doors has created a window specifically geared toward low rise wood structures. Peerless manufactures superior aluminum energy efficient windows and doors. Co-extruded continuous nailfins ensure ease of installation and reduced labor costs.

The G800 window system offers a durable two color powder coat finish, one color for the interior and one color for the exterior. Due to the versatility of aluminum there are many color options available. Peerless windows have the best warranty available with a 10 year product warranty and a 20 year finish warranty. Extended warranties are available depending on the application and location of a project.

The American with Disabilities Act (ADA) requires a 5lb operating force on handle hardware. The G800 window system can meet this while maintaining superior thermal, air, and water performance.

****All test values are projected and dependent on future testing.**

Energy Innovation from the Heartland of America

Peerless
ARCHITECTURAL WINDOWS & DOORS

Features & Options of G800

ARCHITECT

Energy Savings

- SHGC of 0.236
- CRF above 45-55 ensures reduced condensation

Third Party Certifications

- NFRC – certified window for performance
- IGCC – certified insulating glass for long life

Finish and Color Choices

- Exterior and interior colors can be different
- Standard or metallic paint colors

BUILDING OWNER

Building Security

- One handle engages all vent perimeter locks
- Optional key-operated handle equals no opening

Low Maintenance

- Vent hardware easy to adjust, if necessary
- Durable metal handle and hinges for long life

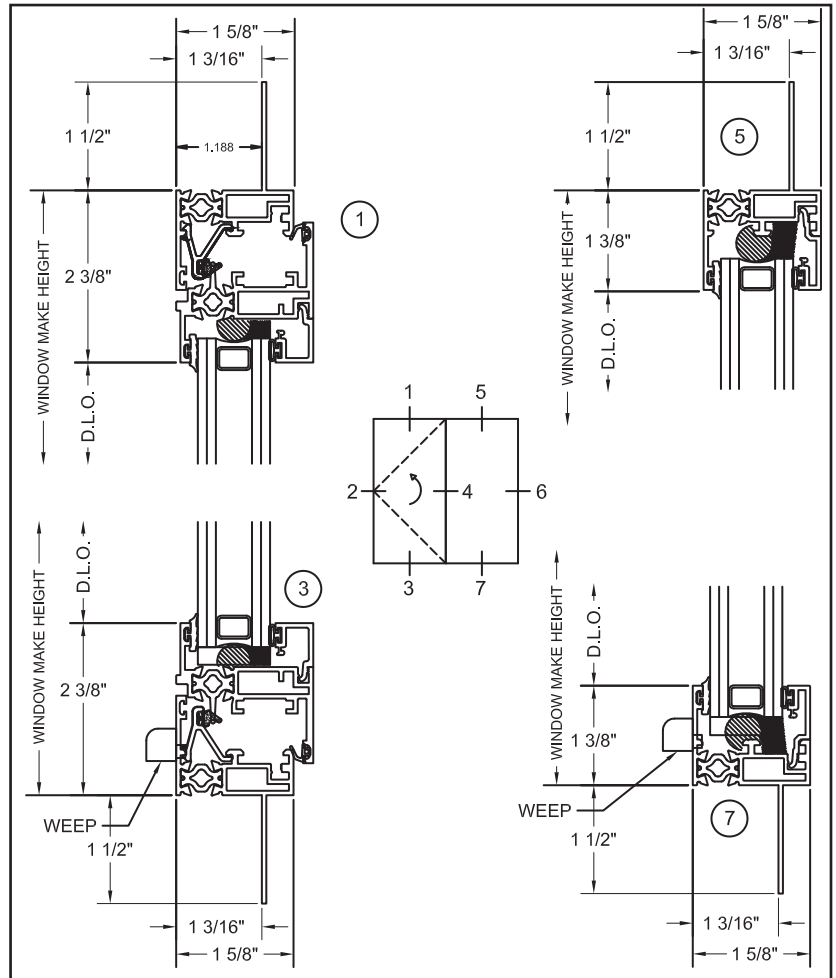
INSTALLER

Frame Choices

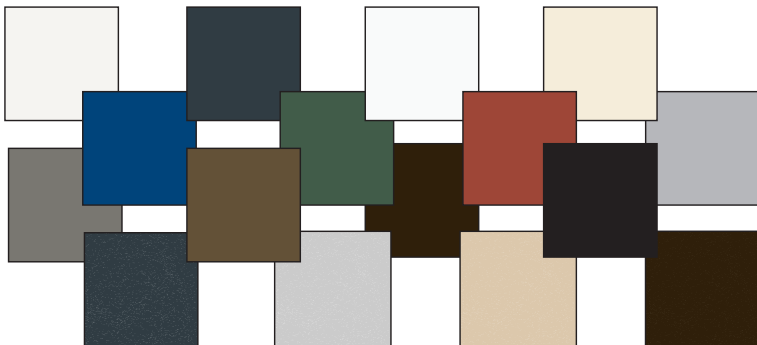
- Continuous head/sill/jamb eliminate mullions
- Flange designs can eliminate field trimming

Field Labor Reductions

- Easy-to-remove glass film keeps glass clean
- Dry exterior gaskets ensure interior reglazing



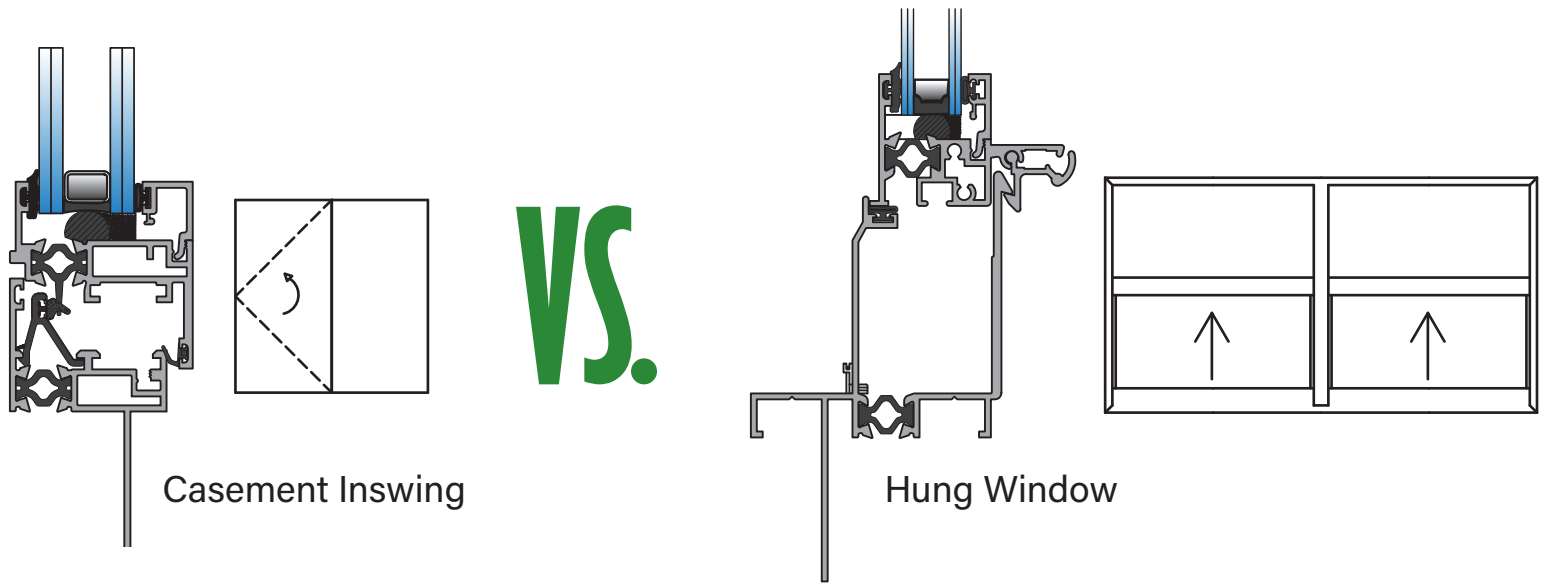
CERTIFICATION	G800
AAMA standard/spec	A440-08
Standard Test Size	72\" x 72\"
Air CFM @1.5 psf	<0.1 cfm/sf
Water test pressure	12 psf
Structural load test pressure	97 psf
U Value	0.322
STC/OITC	31/21



Available Powder Coat Finish Options

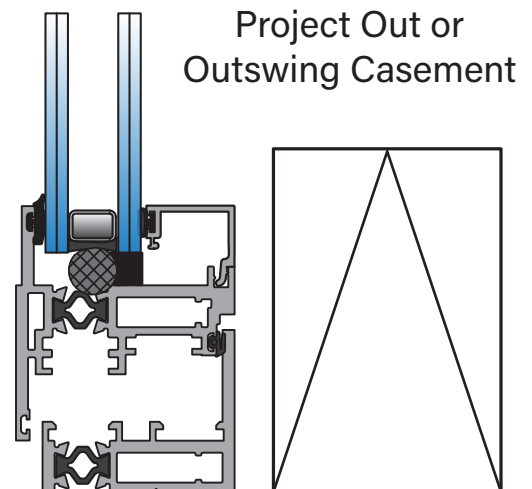
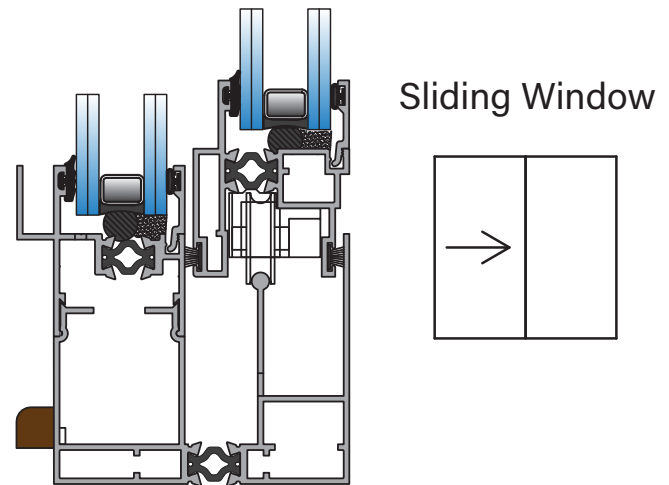


How do *casement inswing* compare to other configurations?



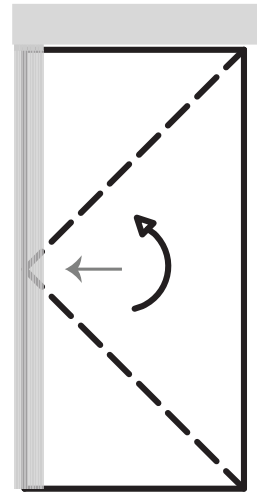
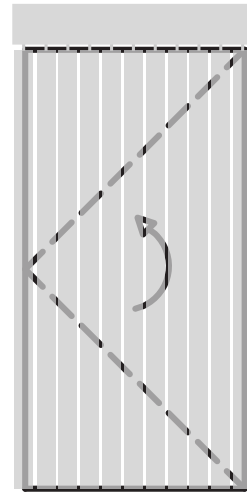
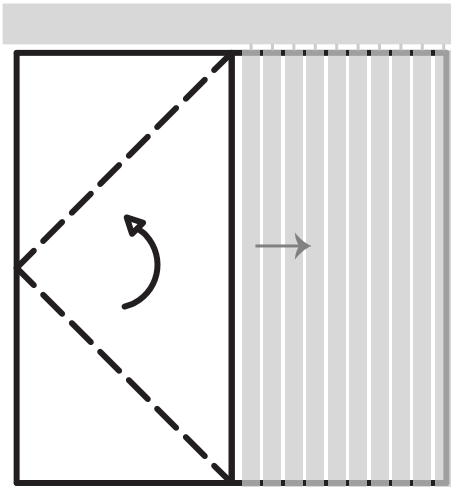
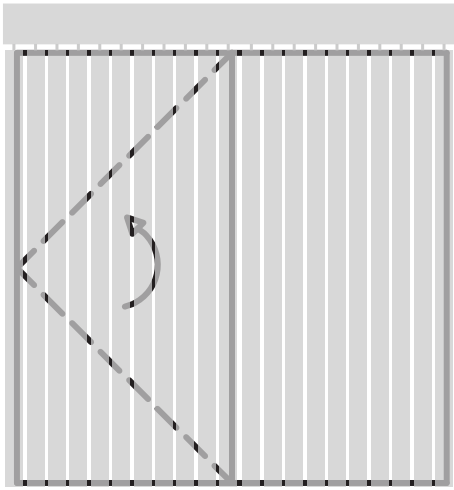
Typically the window industry, architect, or previous installed windows are what determine what type of window configuration is chosen for a building. Something that the window industry has not done yet is choose a configuration for the benefits and performance values specifically. We have done many tests and determined that the best configuration across the board is a casement inswing. Below are the reasons to choose a casement inswing product.

- Same sightlines
- Larger vent sizes with casement inswing
- Can clean from interior of building
- Can meet 5lb ADA operating force with no twisting or grasping of hand or wrist
- Performs better on air, water, thermal, structural, and sound tests
- Center vent gasket resist air and water
- Dynamic wind can cause damage to windows and hardware on project out
- Handle hardware is higher from floor on a project in window
- No wicket screen on project in, OS operator is an expensive alternative



How do blinds work with **casement inswing**?

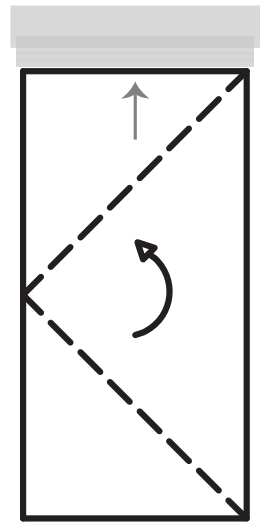
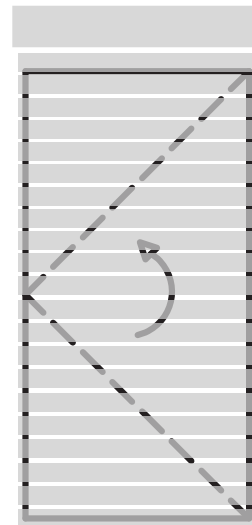
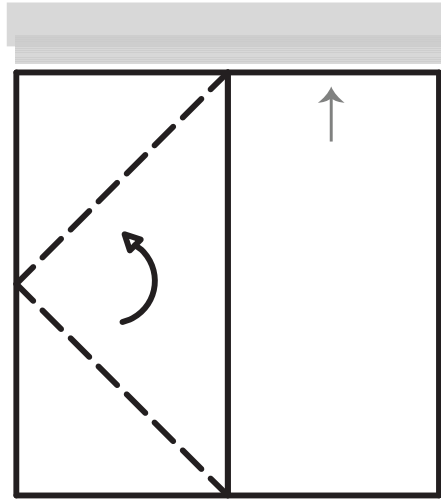
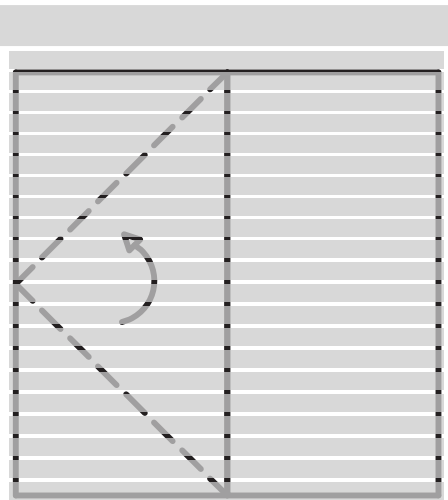
Vertical Blinds



For vertical blinds on a casement inswing beside a fixed window, to operate the sash the blinds would simply slide over to the fixed side.

For vertical blinds on a casement inswing to operate the window you slide the blinds over to the far side opposite the handle. We put a 4" limit on all windows so the blinds will not be in the way of the sash operating.

Horizontal Blinds



For horizontal blinds on a casement inswing beside a fixed window the blinds would be installed above the top of the window. To operate the window you pull the blinds up.

For horizontal blinds on a casement inswing the blinds would be installed above the top of the window. To operate the window you pull the blinds up.