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Metric (SI) conversion figures are included throughout these details for reference. Numbers in parentheses () are millimeters unless otherwise noted.

The following metric (SI) units are found in these details:

m – meter
cm – centimeter
mm – millimeter
s – second
Pa – pascal
MPa – megapascal

Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

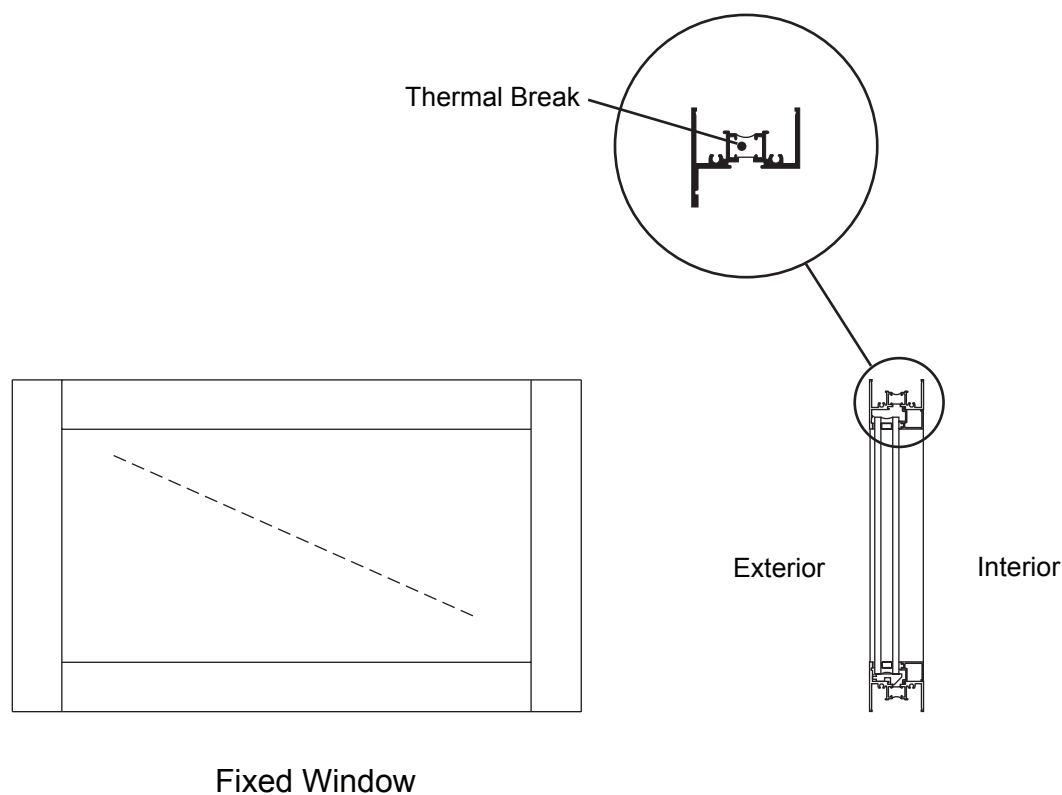
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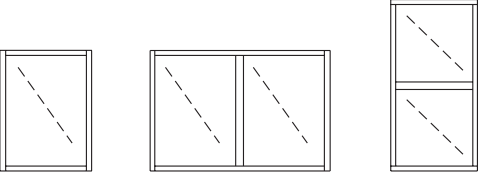
Features

- Architectural Grade Window
- IsoLock™ Thermal Break
- Screw and Spline Frame Corner Joinery
- Factory Silicone Glazed
- Interior Applied Glazing Bead with Bulb Gasket
- Architectural Anodized Finishes and Applied Coatings
- Two Year Manufacturer's Warranty



Fixed Window

For specific product applications,
consult your Kawneer representative.

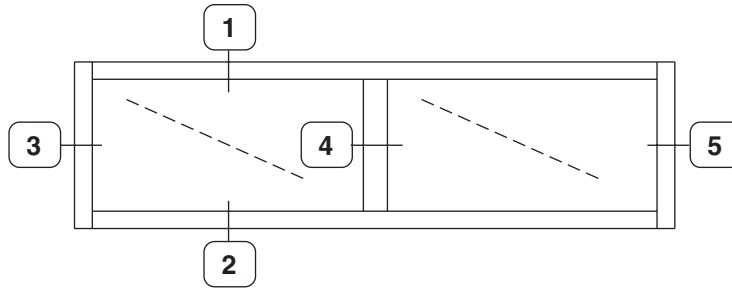
CLASS and GRADE	Architectural Grade AW-PG100-FW
TESTING STANDARD	AAMA / WDMA / CSA 101 / I.S. 2 / A440 (NAFS)
FRAME DEPTH	2-1/4" Overall Frame Depth
TYPICAL WALL THICKNESS	.090 and .125 Nominal
TYPICAL MAXIMUM SIZE	60" x 99"
TYPICAL MINIMUM SIZE	12" x 12"
TYPICAL CONFIGURATIONS	
STANDARD INFILL OPTIONS	1"
STANDARD HARDWARE	Not Applicable
OPTIONAL HARDWARE	Not Applicable
OTHER OPTIONS	Unequal Leg Frames Exterior and/or Interior Applied Muntins Perimeters and Sills Exterior Pannings and Interior Trims Structural Mullions Vertically or Horizontally Stacked Access Panels and Blinds Silicone Field Glazing upon Request

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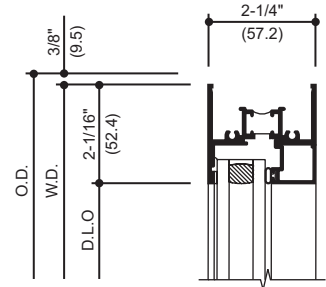
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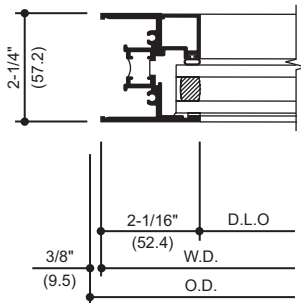
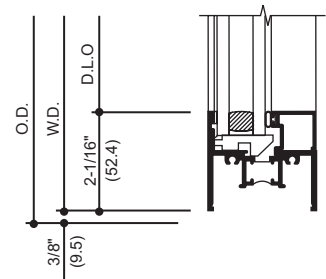


TYPICAL ELEVATION

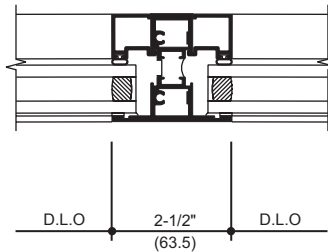
1
HEAD



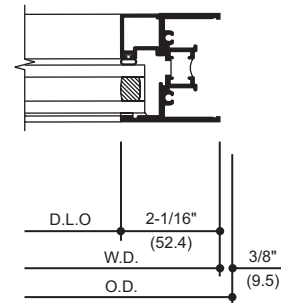
2
SILL



3
JAMB



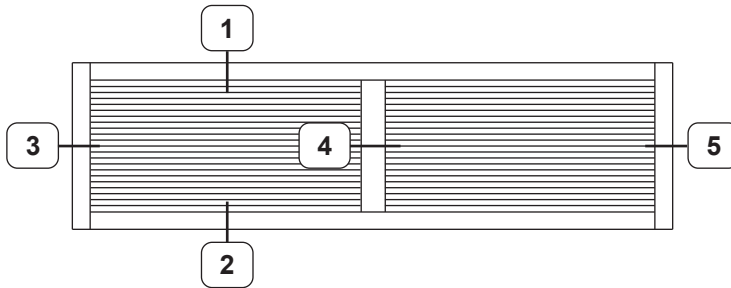
4
VERTICAL
MULLION



5
JAMB

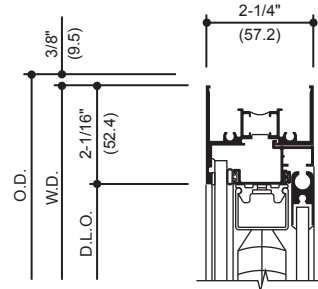
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ACCESS PANEL WITH BLINDS

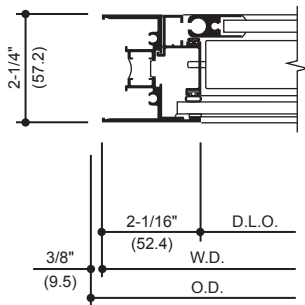
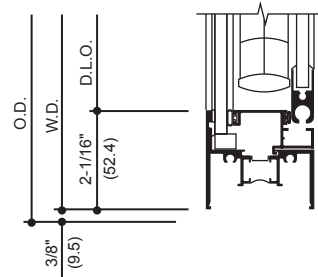


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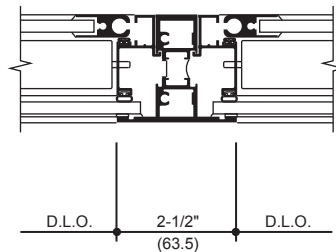
1
HEAD



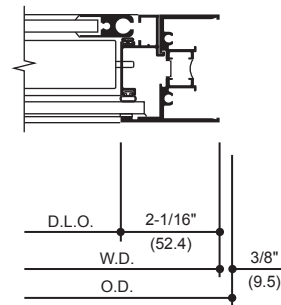
2
SILL



3
JAMB



4
VERTICAL
MULLION



5
JAMB

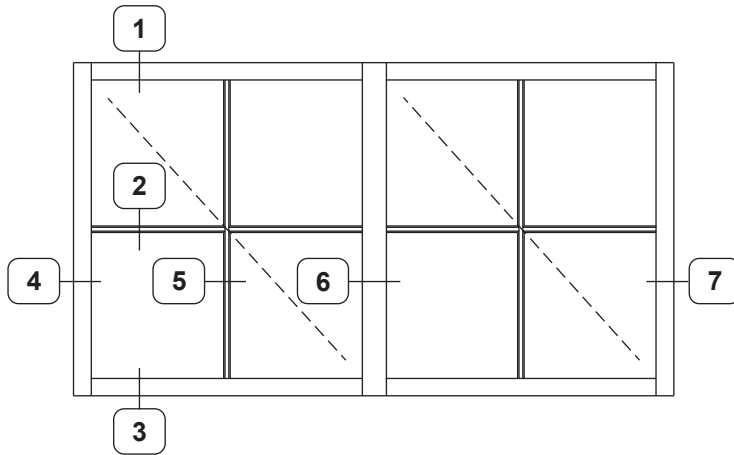
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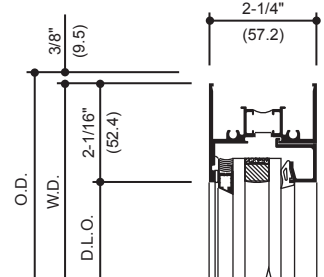
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MUNTIN GRIDS

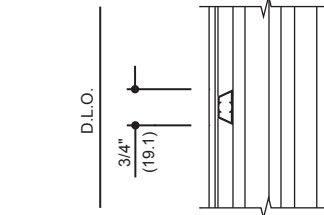


TYPICAL ELEVATION

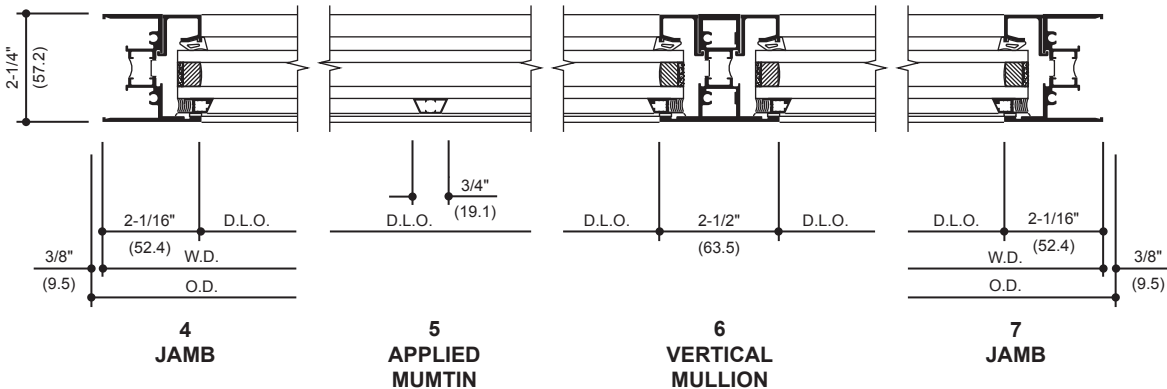
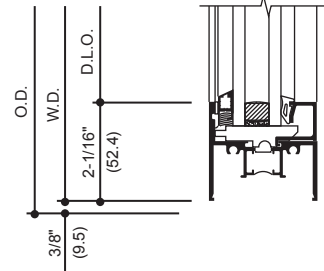
1
HEAD



2
APPLIED
MUNTIN



3
SILL



4
JAMB

5
APPLIED
MUNTIN

6
VERTICAL
MULLION

7
JAMB

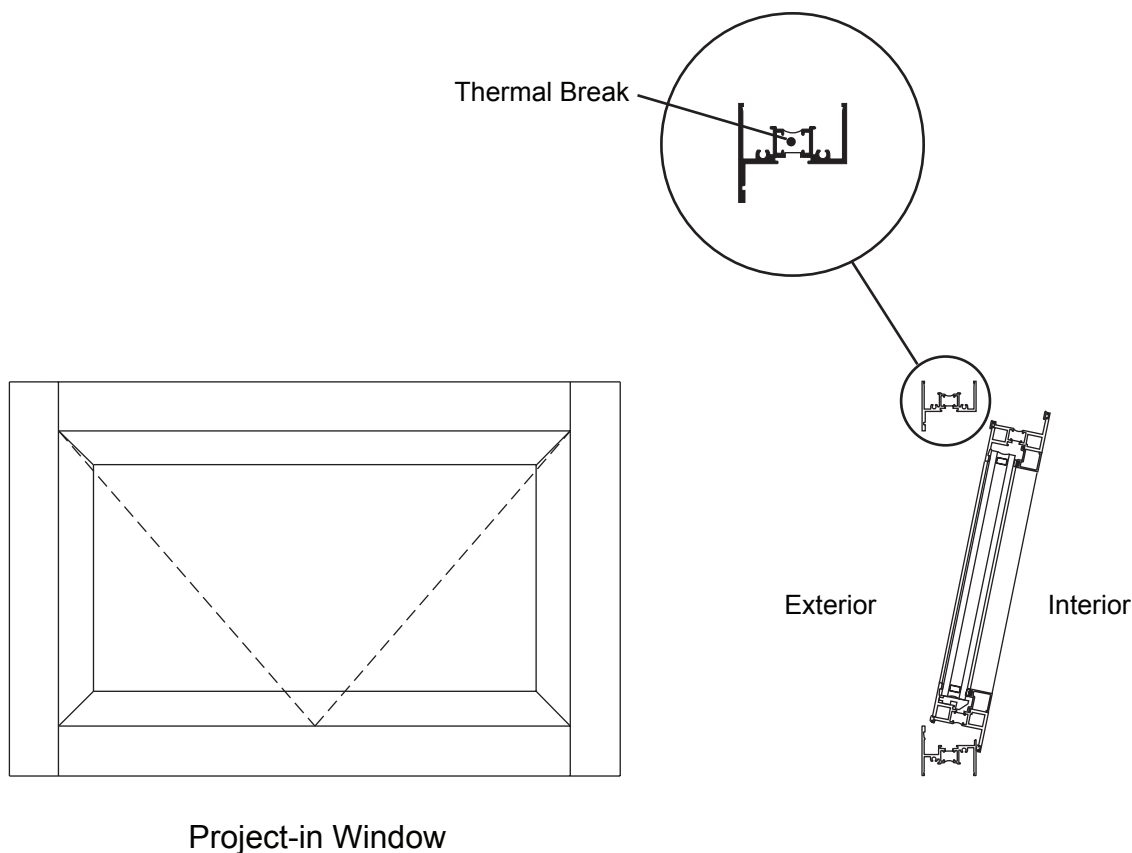
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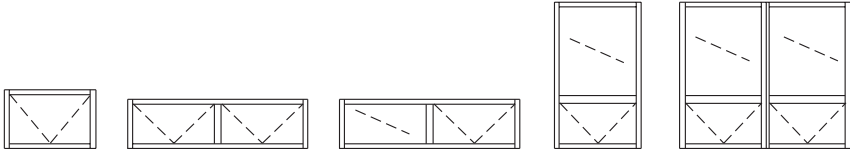
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Features

- Architectural Grade Window
- IsoLock™ Thermal Break
- Mitered, Clipped and Staked Vent Corner Joinery
- Screw and Spline Frame Corner Joinery
- Factory Silicone Glazed
- Interior Applied Glazing Bead with Bulb Gasket
- Architectural Anodized Finishes and Applied Coatings
- Two Year Manufacturer's Warranty
- Compatible with Storefront and Curtain Wall Systems



For specific product applications,
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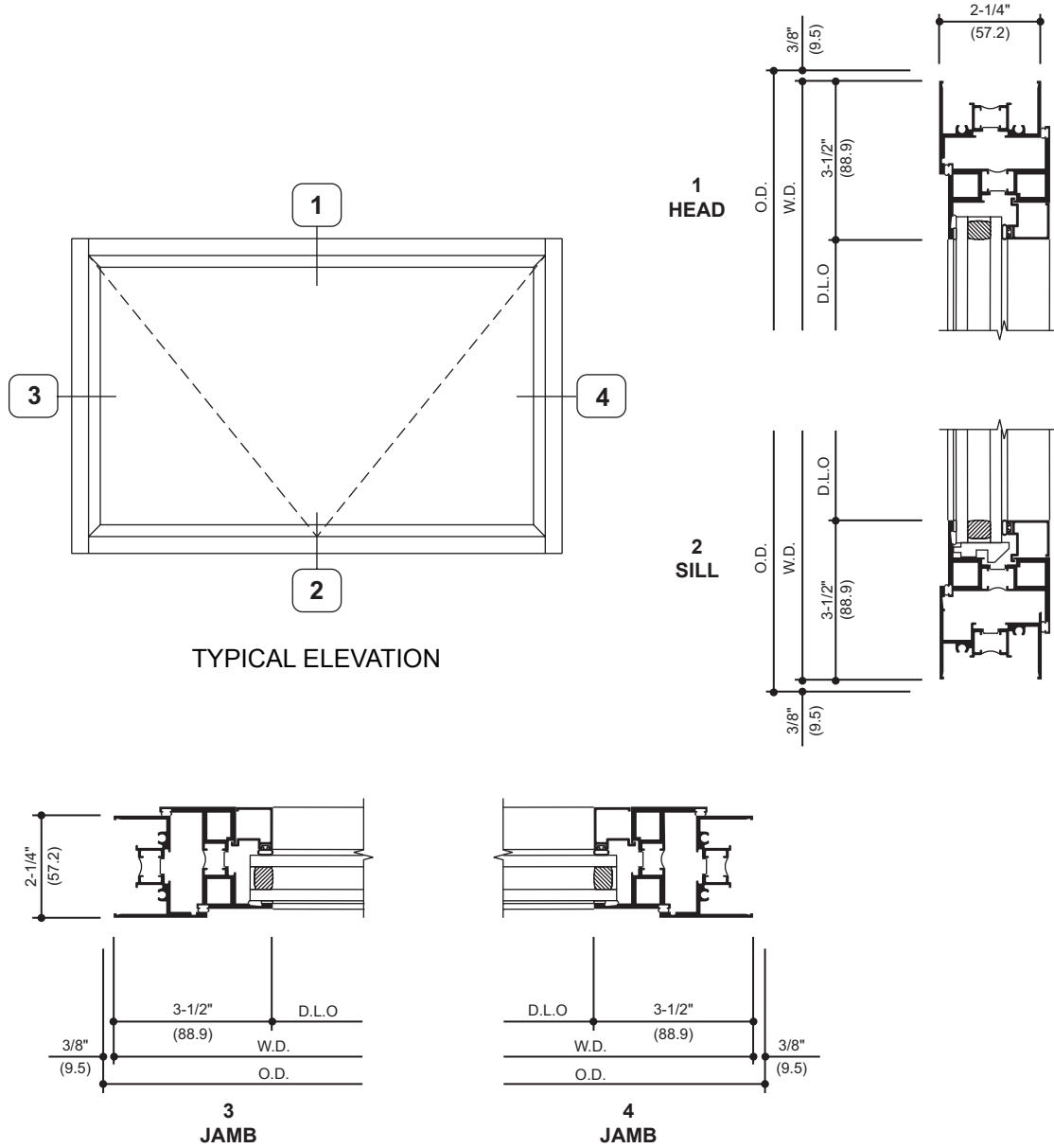
CLASS and GRADE	Architectural Grade AP-HC90 / AP-AW90 / AP-PG90-AP
TESTING STANDARD	AAMA / WDMA / CSA 101 / I.S. 2 / A440 (NAFS)
FRAME DEPTH	2-1/4" Overall Frame Depth
TYPICAL WALL THICKNESS	.090 and .125 Nominal
TYPICAL MAXIMUM SIZE	60" x 48"
TYPICAL MINIMUM SIZE	17" x 17"
TYPICAL CONFIGURATIONS	
STANDARD INFILL OPTIONS	1"
STANDARD HARDWARE	Stainless Steel 4-Bar Hinges Cast White Bronze Cam Locks
OPTIONAL HARDWARE	Access Control Locks Limit Stop Pole and Pole Ring
OTHER OPTIONS	Unequal Leg Frames Exterior and/or Interior Applied Muntins Insect Screens Perimeters and Sills Exterior Pannings and Interior Trims Structural Mullions Vertically or Horizontally Stacked Access Panels and Blinds Silicone Field Glazing upon Request

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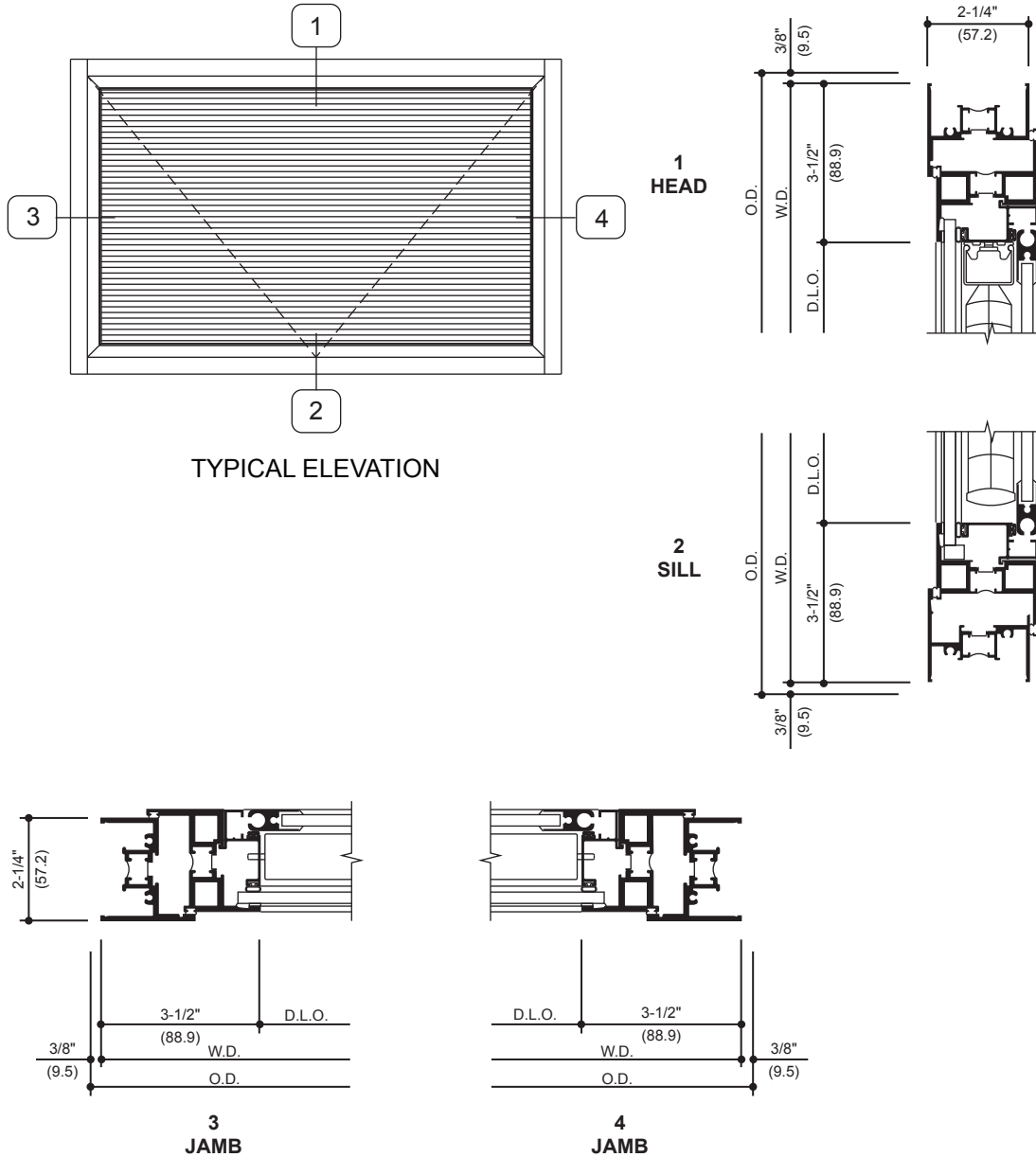
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ACCESS PANEL WITH BLINDS



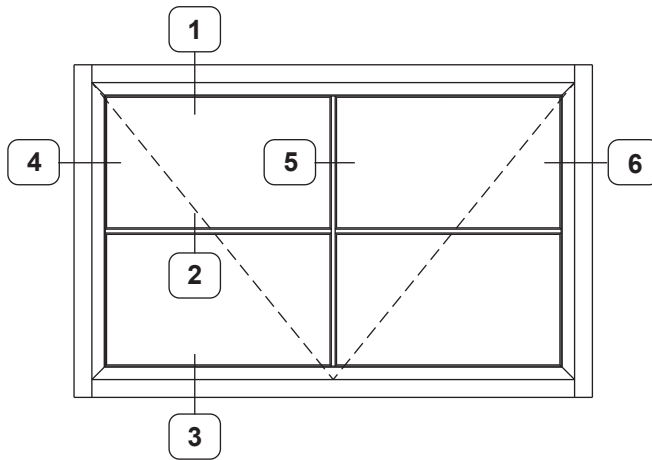
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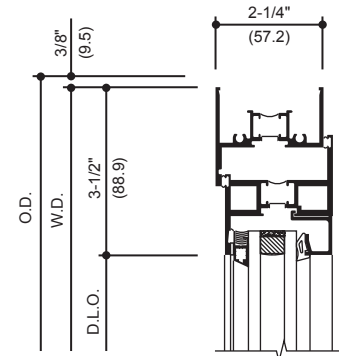
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MUNTIN GRIDS

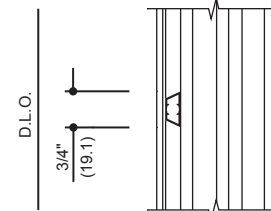


TYPICAL ELEVATION

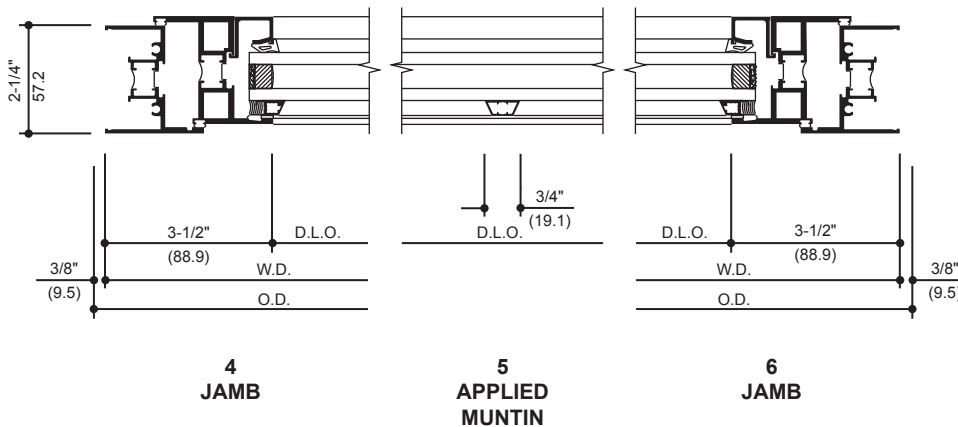
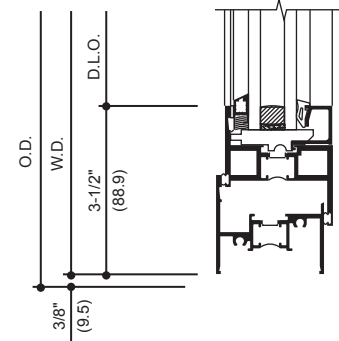
1
HEAD



2
APPLIED
MUNTIN

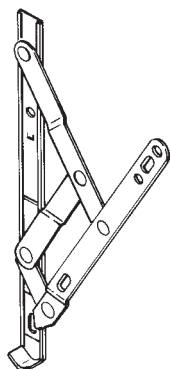


3
SILL



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**STAINLESS STEEL
4 BAR HINGES**

A standard hinge for ventilators providing approximately 45° to 60° openings depending on size. An optional limit stop is available to restrict hinge travel and limit vent opening.

**STANDARD
CAM HANDLE**

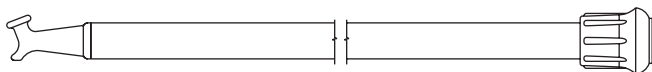
Cast white bronze cam handles are standard for the manual operation and locking of ventilators.

**CAM HANDLE
WITH POLE RING**

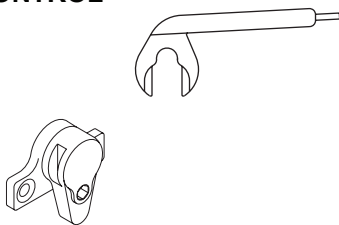
Cast white bronze cam handles with pole ring provide manual operation of ventilators located above reach. These handles are operated with a sash pole.

POLE RING

Cast white bronze pole ring is used in conjunction with locking hardware for sash pole operation of ventilators.

SASH POLE**HANGER
FOR SASH POLE**

A 3/4" diameter aluminum sash pole with a cast white bronze pull down hook and black rubber tip. Available in 6 ft. and 12 ft. lengths with optional cast white bronze Pole Hanger.

**ACCESS CONTROL
LOCK**

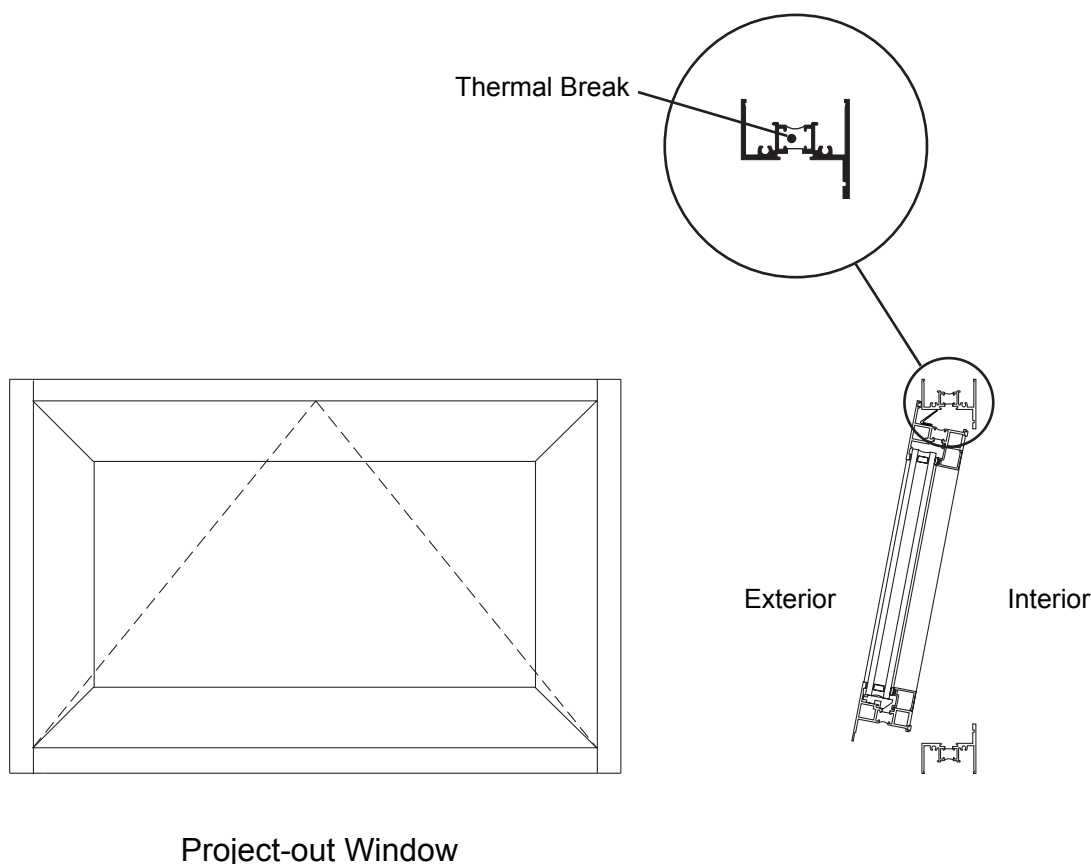
In lieu of the standard cam handles cast white bronze access control locks are offered for managed control of vent operations. Lock is operated with a manganese bronze removable handle.

Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

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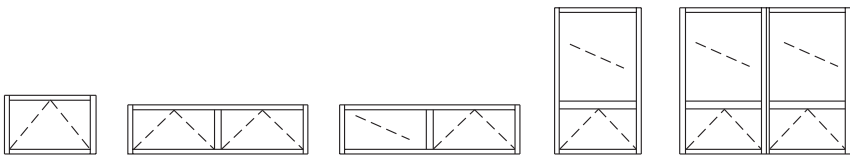
Features

- Architectural Grade Window
- IsoLock™ Thermal Break
- Mitered, Clipped and Staked Vent Corner Joinery
- Screw and Spline Frame Corner Joinery
- Factory Silicone Glazed
- Interior Applied Glazing Bead with Bulb Gasket
- Architectural Anodized Finishes and Applied Coatings
- Two Year Manufacturer's Warranty
- Compatible with Storefront and Curtain Wall Systems



Project-out Window

For specific product applications,
consult your Kawneer representative.

CLASS and GRADE	Architectural Grade AP-HC90 / AP-AW90 / AW-PG90-AP
TESTING STANDARD	AAMA / WDMA / CSA 101 / I.S. 2 / A440 (NAFS)
FRAME DEPTH	2-1/4" Overall Frame Depth
TYPICAL WALL THICKNESS	.090 and .125 Nominal
TYPICAL MAXIMUM SIZE	60" x 89"
TYPICAL MINIMUM SIZE	17" x 17"
TYPICAL CONFIGURATIONS	
STANDARD INFILL OPTIONS	1"
STANDARD HARDWARE	Stainless Steel 4-Bar Hinges Cast White Bronze Cam Locks 88SS Support Arm (Units over 50" in height)
OPTIONAL HARDWARE	Access Control Locks Hook Bolt Lock Handle Pivot Shoe Roto-Operator Scissors Arm Roto-Operator Limit Stop Pole and Pole Ring
OTHER OPTIONS	Unequal Leg Frames Exterior and/or Interior Applied Muntins Insect Screens Perimeters and Sills Exterior Pannings and Interior Trims Structural Mullions Vertically or Horizontally Stacked Access Panels and Blinds Silicone Field Glazing upon Request

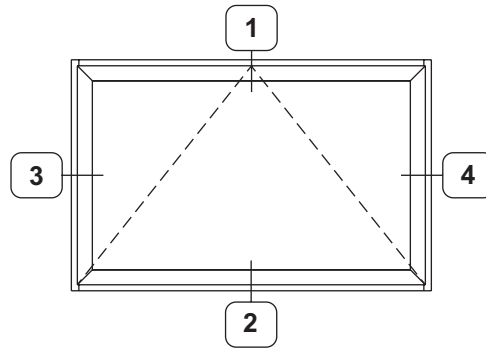
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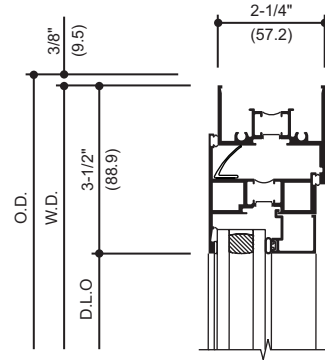
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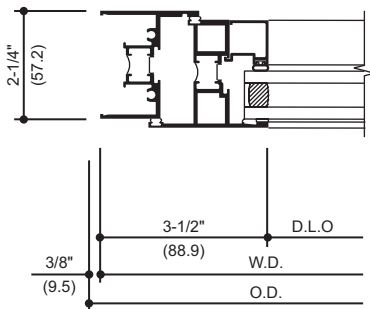
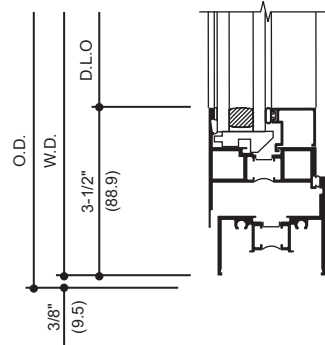


TYPICAL ELEVATION

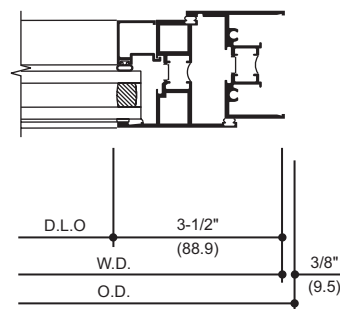
1
HEAD



2
SILL



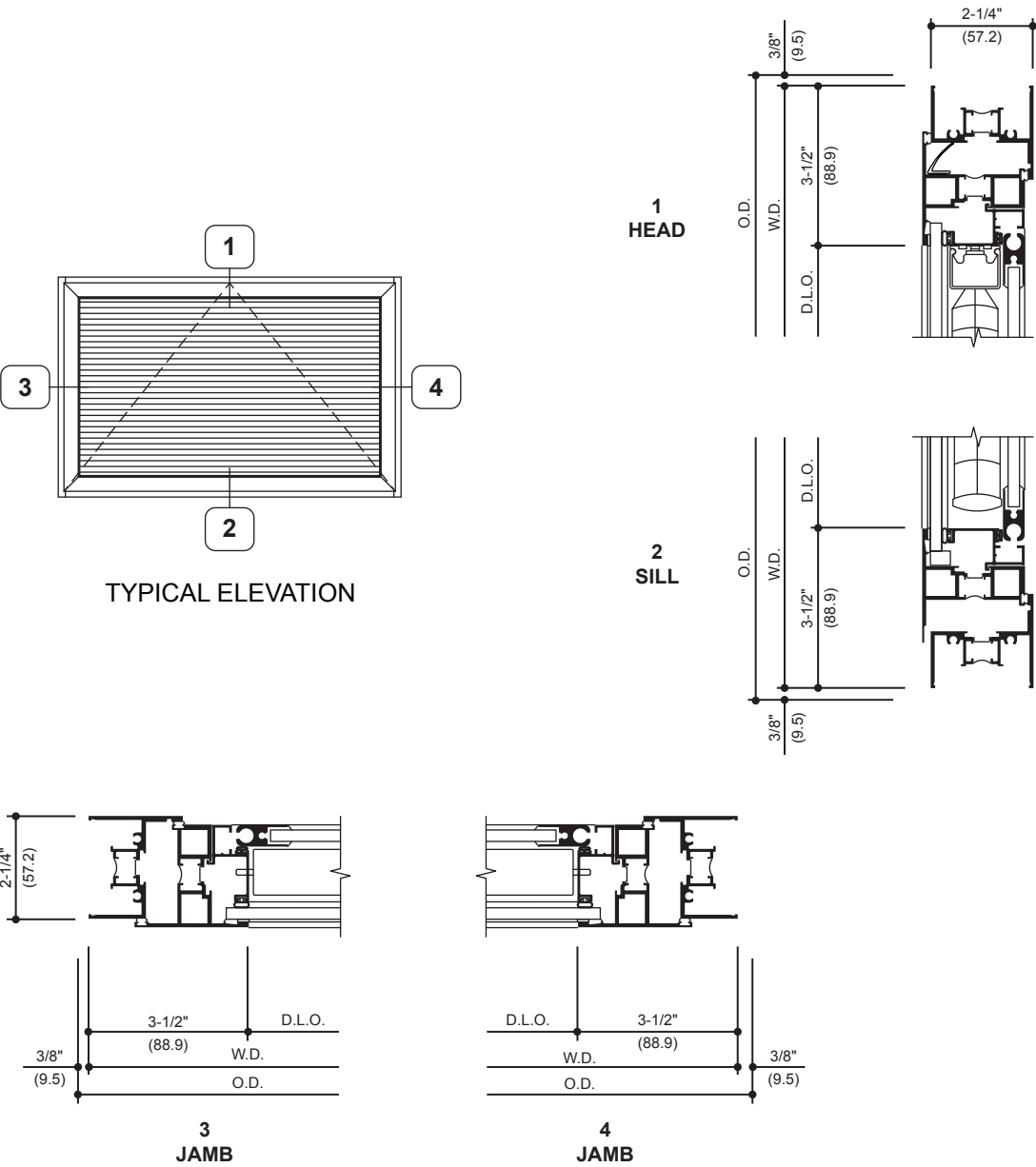
3
JAMB



4
JAMB

Additional information and CAD details are available at www.kawneer.com

ACCESS PANEL WITH BLINDS

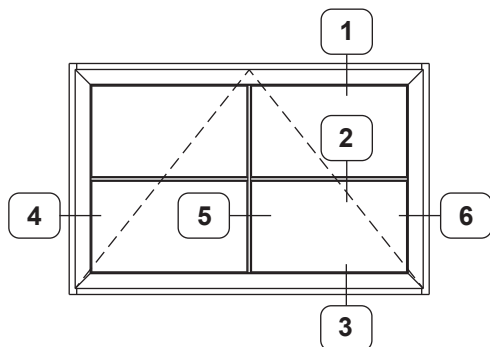


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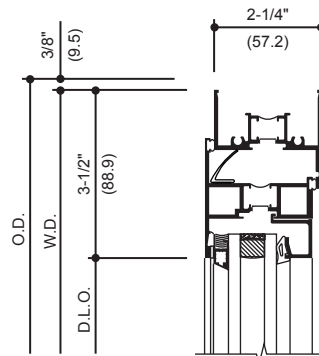
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MUNTIN GRIDS

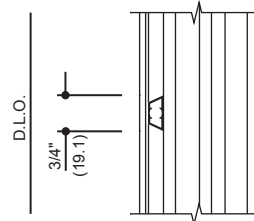


TYPICAL ELEVATION

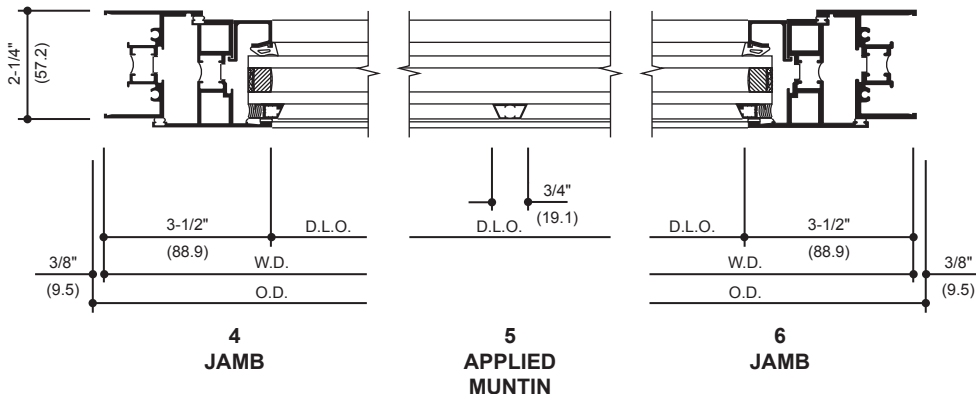
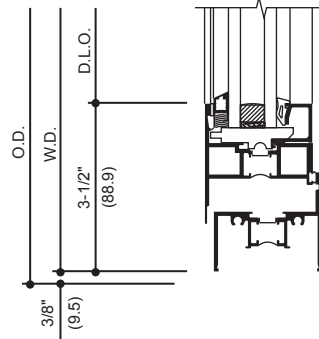
1
HEAD



2
APPLIED
MUNTIN



3
SILL



4
JAMB

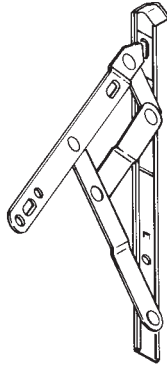
5
APPLIED
MUNTIN

6
JAMB

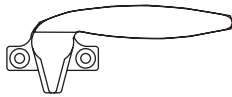
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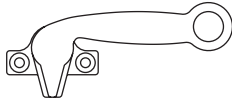
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**STAINLESS STEEL
4 BAR HINGES**

A standard hinge for ventilators providing approximately 45° to 60° openings depending on size. An optional limit stop is available to restrict hinge travel and limit vent opening.

**STANDARD
CAM HANDLE**

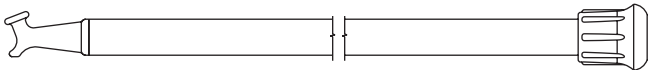
Cast white bronze cam handles are standard for the manual operation and locking of ventilators.

**CAM HANDLE
WITH POLE RING**

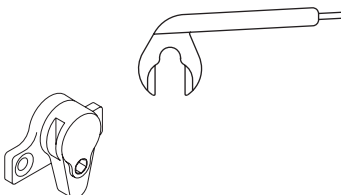
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POLE RING

Cast white bronze pole ring is used in conjunction with locking hardware for sash pole operation of ventilators.

SASH POLE**HANGER
FOR SASH POLE**

A 3/4" diameter aluminum sash pole with a cast white bronze pull down hook and black rubber tip. Available in 6 ft. and 12 ft. lengths with optional cast white bronze pole hanger.

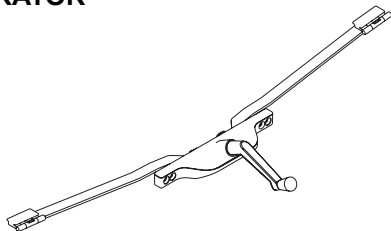
**ACCESS CONTROL
LOCK**

In lieu of the standard cam handles cast white bronze access control locks are offered for managed control of vent operations. Lock is operated with a manganese bronze removable handle.

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PIVOT-SHOE ROTO-OPERATOR



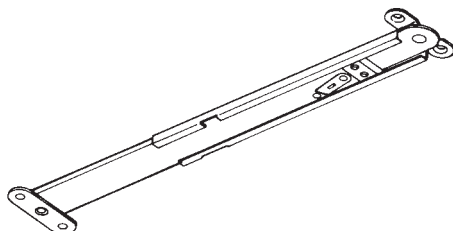
Optional pivot shoe roto operator is located on the center line of the bottom horizontal frame.
Standard finish shall be brushed copper nickel to match US-25-D.

HOOK BOLT LOCK



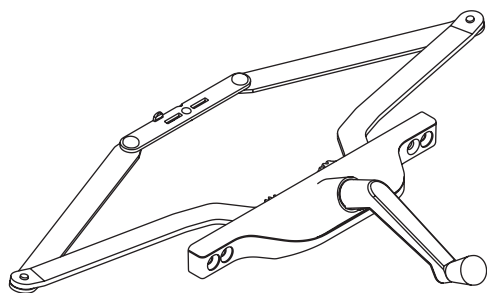
For use with pivot-shoe roto operator in lieu of cam handles.
Standard finish shall be US-25-D clear white bronze.

88SS SUPPORT ARM



Support arms are used when window height exceeds 50".
When fully extended, the hardware automatically retains the ventilator in an open position.

SCISSORS ARM ROTO OPERATOR



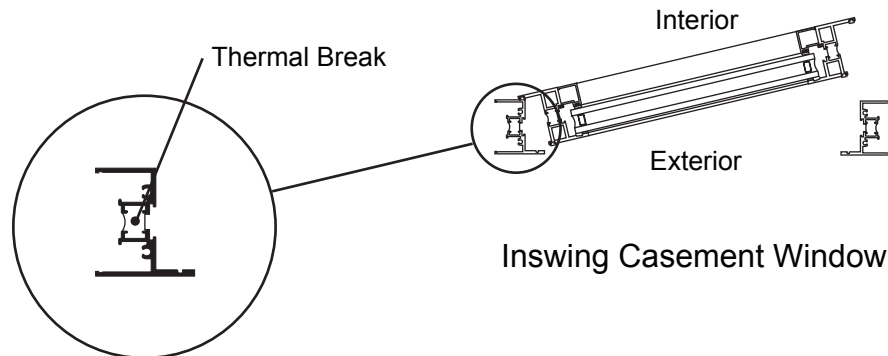
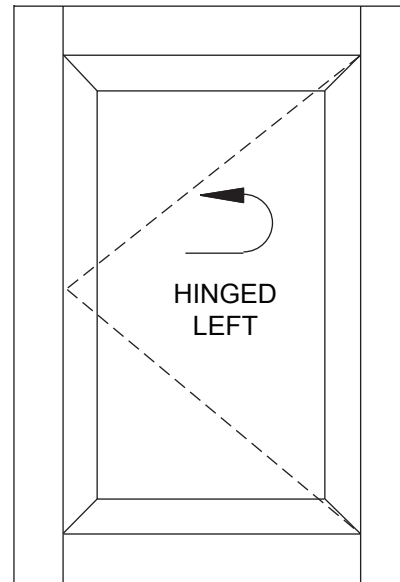
Optional scissor arm roto operator is located on the center line of the bottom horizontal frame.
Standard finish shall be brushed copper nickel to match US-25-D.

Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

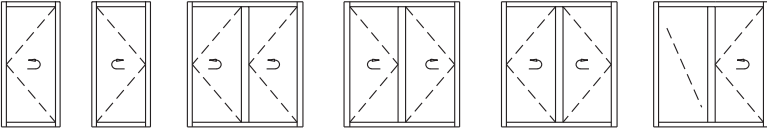
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Features

- Architectural Grade Window
- IsoLock™ Thermal Break
- Mitered, Clipped and Staked Vent Corner Joinery
- Screw and Spline Frame Corner Joinery
- Factory Silicone Glazed
- Interior Applied Glazing Bead with Bulb Gasket
- Architectural Anodized Finishes and Applied Coatings
- Two Year Manufacturer's Warranty
- Compatible with Storefront and Curtain Wall Systems



For specific product applications,
consult your Kawneer representative.

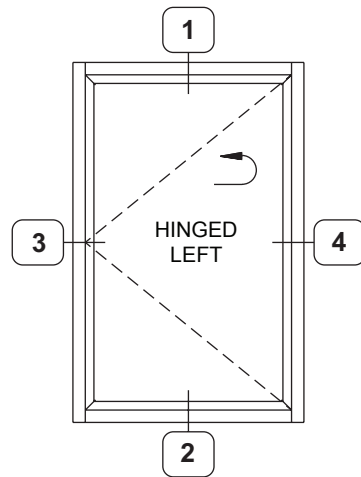
CLASS and GRADE	Architectural Grade C-HC90 / C-AW90 / AW-PG90-C
TESTING STANDARD	AAMA / WDMA / CSA 101 / I.S. 2 / A440 (NAFS)
FRAME DEPTH	2-1/4" Overall Frame Depth
TYPICAL WALL THICKNESS	.090 and .125 Nominal
TYPICAL MAXIMUM SIZE	36" x 60"
TYPICAL MINIMUM SIZE	17" x 17"
TYPICAL CONFIGURATIONS	
STANDARD INFILL OPTIONS	1"
STANDARD HARDWARE	Stainless Steel 4-Bar Hinges Cast White Bronze Cam Locks
OPTIONAL HARDWARE	Access Control Locks Limit Stop Pole and Pole Ring Butt Hinges Friction Adjustor Keyed Limit Arm
OTHER OPTIONS	Unequal Leg Frames Exterior and/or Interior Applied Muntins Insect Screens Perimeters and Sills Exterior Pannings and Interior Trims Structural Mullions Vertically or Horizontally Stacked Access Panels and Blinds Silicone Field Glazing upon Request

Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

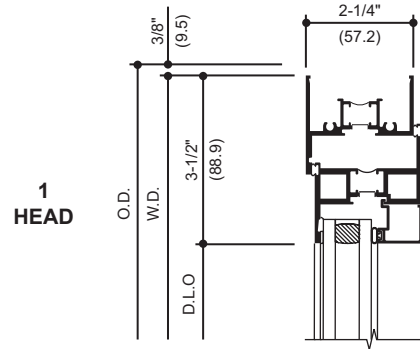
Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

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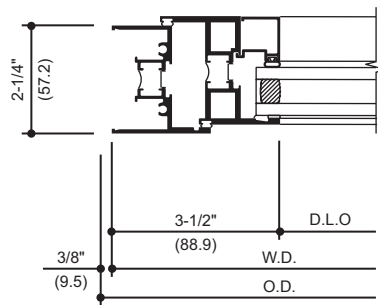
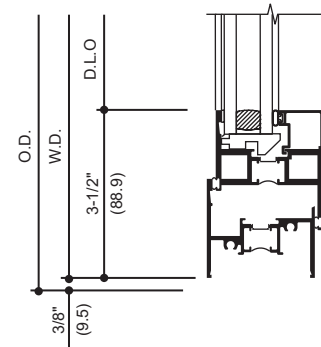
Additional information and CAD details are available at www.kawneer.com.



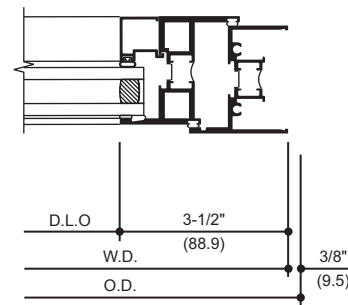
TYPICAL ELEVATION



2
SILL



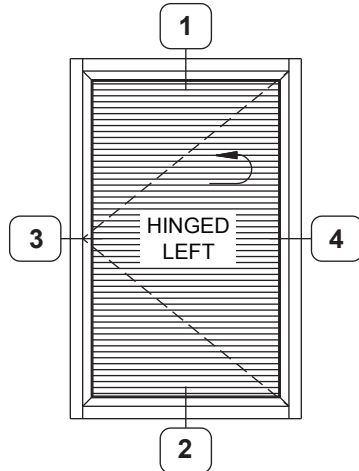
3
JAMB



4
JAMB

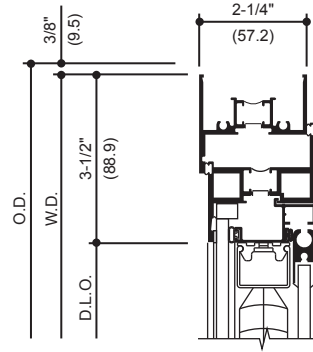
Additional information and CAD details are available at www.kawneer.com

ACCESS PANEL WITH BLINDS

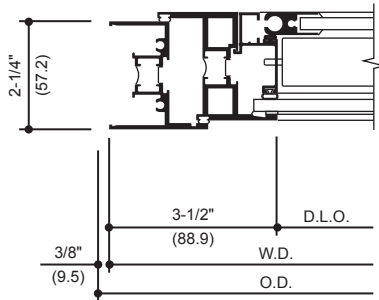
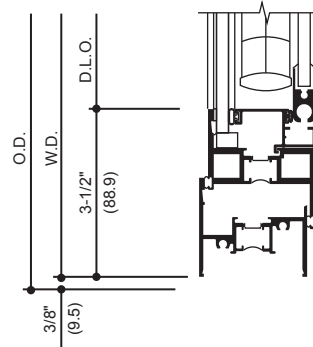


TYPICAL ELEVATION

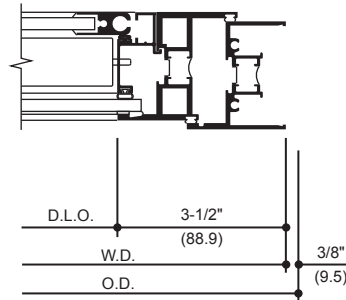
1
HEAD



2
SILL



3
JAMB



4
JAMB

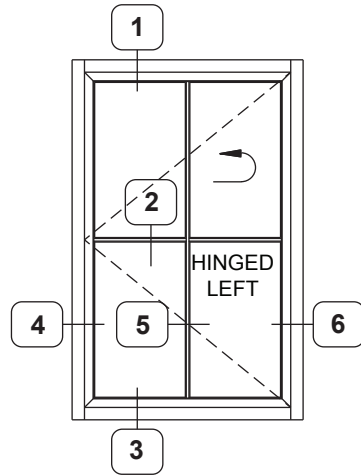
Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

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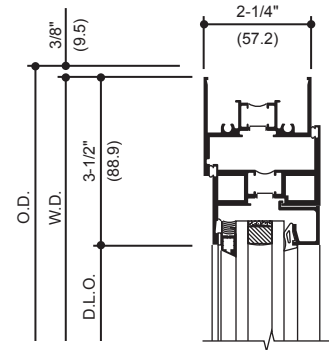
Additional information and CAD details are available at www.kawneer.com

MUNTIN GRIDS

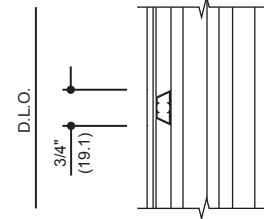


TYPICAL ELEVATION

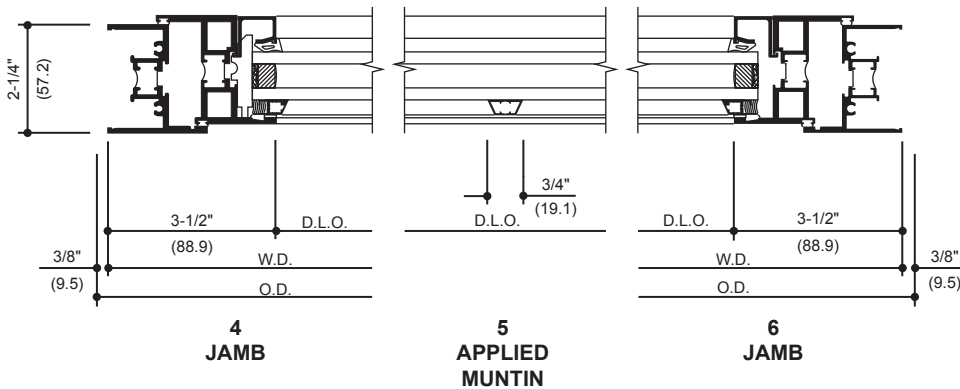
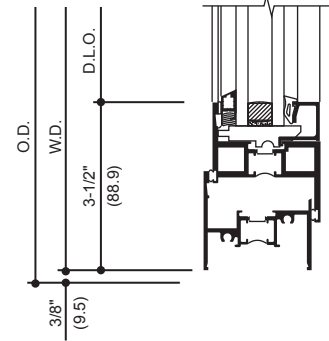
1
HEAD

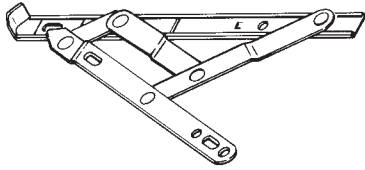


2
APPLIED
MUNTIN



3
SILL



**STAINLESS STEEL
4 BAR HINGES**

A standard hinge for ventilators providing approximately 45° to 60° openings depending on size. An optional limit stop is available to restrict hinge travel and limit vent opening.

**STANDARD
CAM HANDLE**

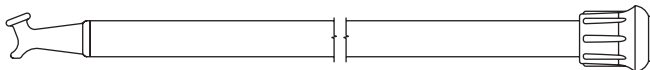
Cast white bronze cam handles are standard for the manual operation and locking of ventilators.

**CAM HANDLE
WITH POLE RING**

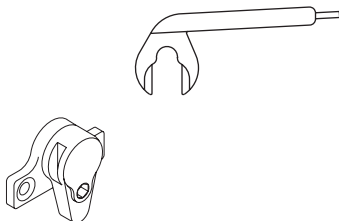
Cast white bronze cam handles with pole ring provide manual operation of ventilators located above reach. These handles are operated with a sash pole.

POLE RING

Cast white bronze pole ring is used in conjunction with locking hardware for sash pole operation of ventilators.

SASH POLE**HANGER
FOR SASH POLE**

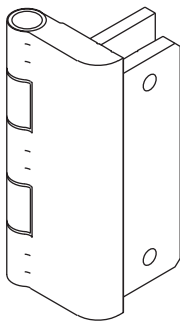
A 3/4" diameter aluminum sash pole with a cast white bronze pull down hook and black rubber tip. Available in 6 ft. and 12 ft. lengths with optional cast white bronze pole hanger.

**ACCESS CONTROL
LOCK**

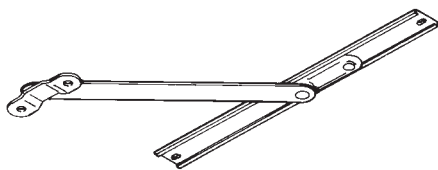
In lieu of the standard cam handles cast white bronze access control locks are offered for managed control of vent operations. Lock is operated with a manganese bronze removable handle.

Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

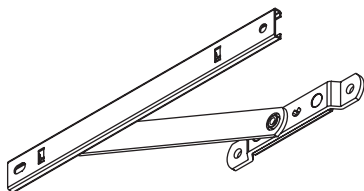
Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
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BUTT HINGES

An optional hinge for ventilators providing a full 90° opening. Butt Hinges shall be finished to match the window.

FRICTION ADJUSTOR

Friction adjustors shall be used with butt hinges for additional friction for control of the ventilator.

KEYED LIMIT ARM

Key released limit arms may be used to restrict ventilator opening when used with butt hinges.

Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

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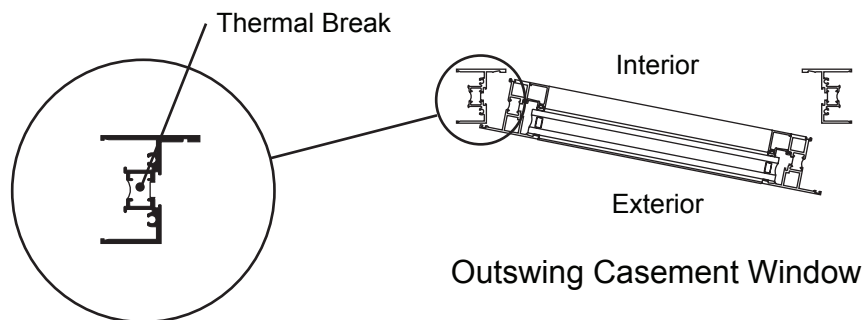
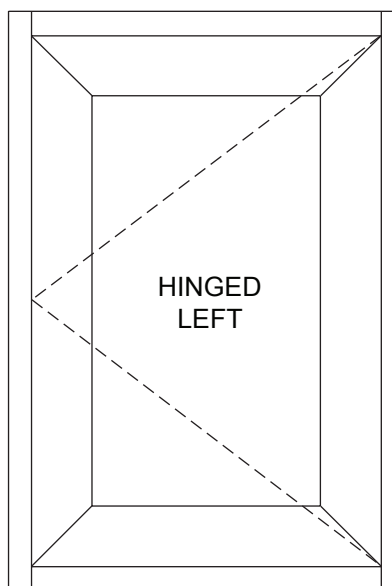
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Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

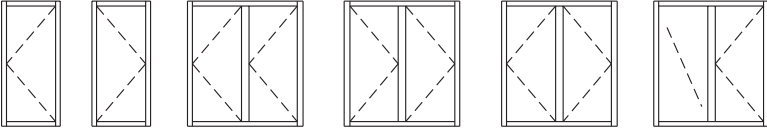
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Features

- Architectural Grade Window
- IsoLock™ Thermal Break
- Mitered, Clipped and Staked Vent Corner Joinery
- Screw and Spline Frame Corner Joinery
- Factory Silicone Glazed
- Interior Applied Glazing Bead with Bulb Gasket
- Architectural Anodized Finishes and Applied Coatings
- Two Year Manufacturer's Warranty
- Compatible with Storefront and Curtain Wall Systems



For specific product applications,
consult your Kawneer representative.

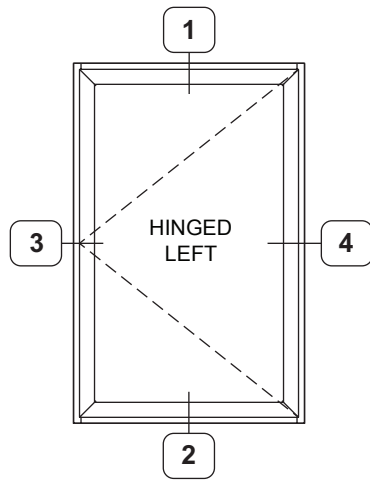
CLASS and GRADE	Architectural Grade C-HC90 / C-AW90 / AW-PG90-C
TESTING STANDARD	AAMA / WDMA / CSA 101 / I.S. 2 / A440 (NAFS)
FRAME DEPTH	2-1/4" Overall Frame Depth
TYPICAL WALL THICKNESS	.090 and .125 Nominal
TYPICAL MAXIMUM SIZE	36" x 60"
TYPICAL MINIMUM SIZE	17" x 17"
TYPICAL CONFIGURATIONS	
STANDARD INFILL OPTIONS	1"
STANDARD HARDWARE	Stainless Steel 4-Bar Hinges Cast White Bronze Cam Locks
OPTIONAL HARDWARE	Butt Hinges Access Control Locks Hook Bolt Lock or Multi-Point Lock Limit Stop Pole and Pole Ring Friction Adjustor Keyed Limit Arm Roto Operator
OTHER OPTIONS	Unequal Leg Frames Exterior and/or Interior Applied Muntins Insect Screens Perimeters and Sills Exterior Pannings and Interior Trims Structural Mullions Vertically or Horizontally Stacked Access Panel and Blinds Silicone Field Glazing upon Request

Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

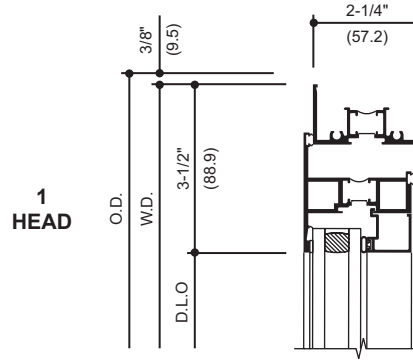
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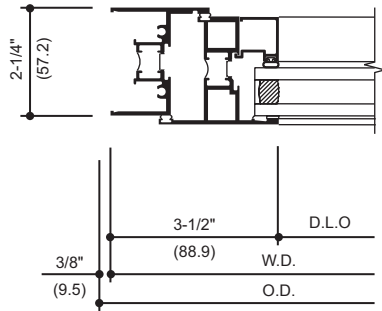
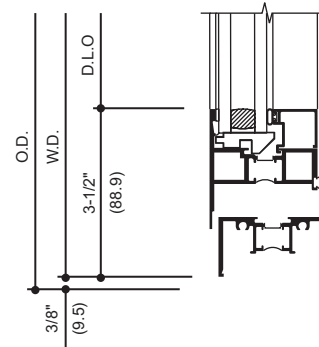


TYPICAL ELEVATION

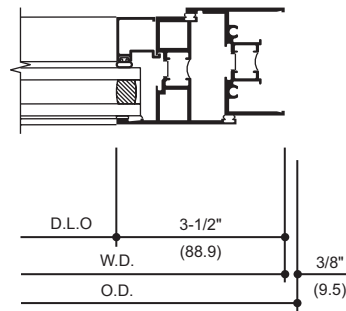


1
HEAD

2
SILL



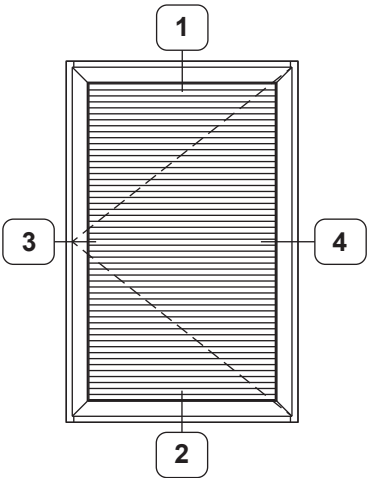
3
JAMB



4
JAMB

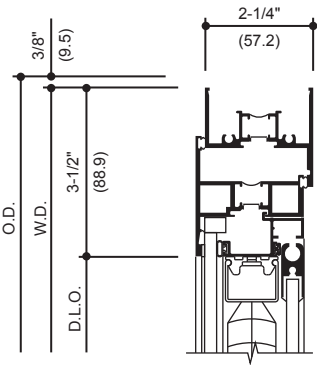
Additional information and CAD details are available at www.kawneer.com

ACCESS PANEL WITH BLINDS

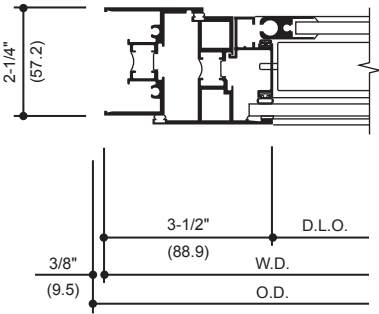
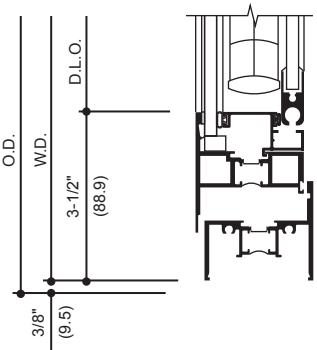


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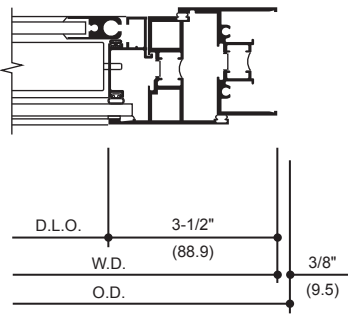
1
HEAD



2
SILL



3
JAMB



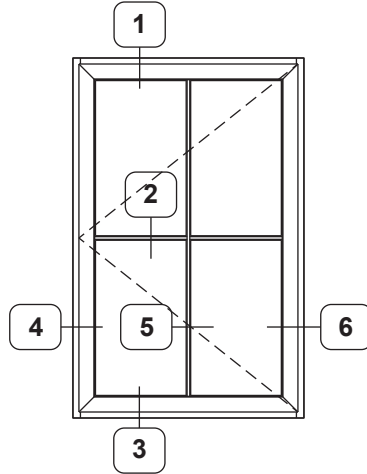
4
JAMB

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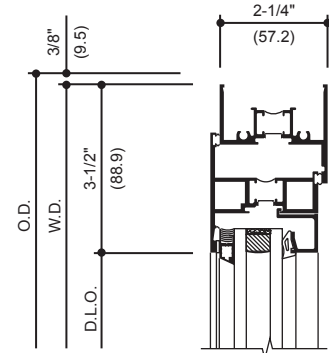
Additional information and CAD details are available at www.kawneer.com

MUNTIN GRIDS

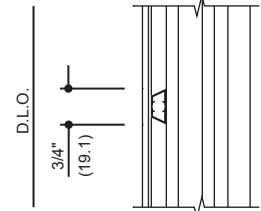


TYPICAL ELEVATION

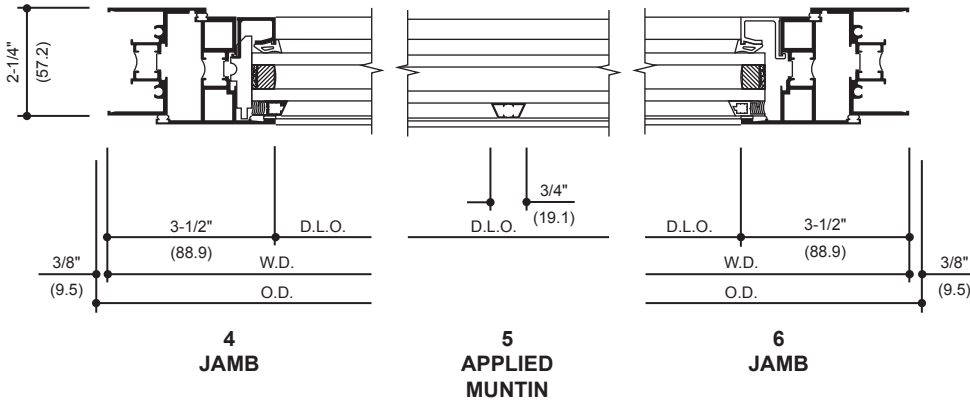
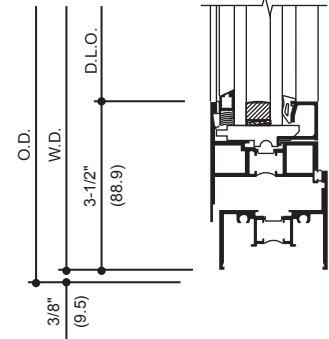
1
HEAD



2
APPLIED
MUNTIN



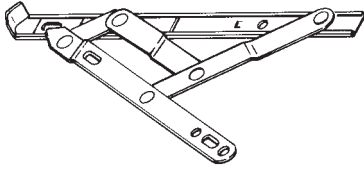
3
SILL



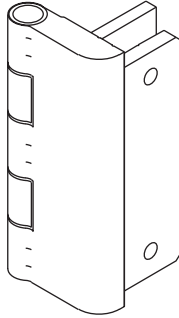
4
JAMB

5
APPLIED
MUNTIN

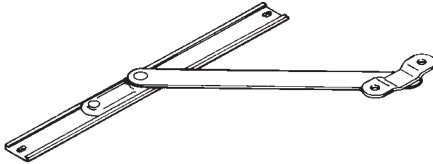
6
JAMB

**STAINLESS STEEL
4 BAR HINGES**

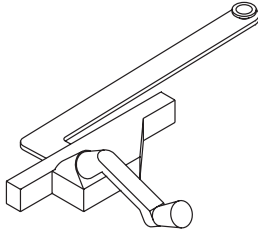
A standard hinge for ventilators providing approximately 45° to 60° openings depending on size. An optional limit stop is available to restrict hinge travel and limit vent opening.

BUTT HINGES

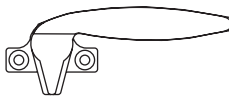
An optional hinge for ventilators providing a full 90° opening. Butt hinges shall be finished to match the window.

FRICTION ADJUSTOR

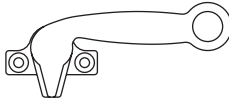
Friction adjustors shall be used with butt hinges for additional friction for control of the ventilator.

ROTO OPERATOR

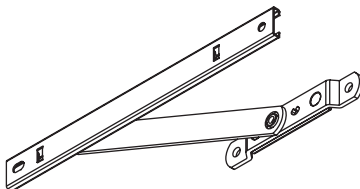
Roto operators are used with butt hinges only and located at the bottom horizontal frame. Standard finish shall be brushed copper nickel to match US-25-D.

**STANDARD
CAM HANDLE**

Cast white bronze cam handles are standard for the manual operation and locking of ventilators.

**CAM HANDLE
WITH POLE RING**

Cast white bronze cam handles with pole ring provide manual operation of ventilators located above reach. These handles are operated with a sash pole.

KEYED LIMIT ARM

Key released limit arms may be used to restrict ventilator opening when used with butt hinges.

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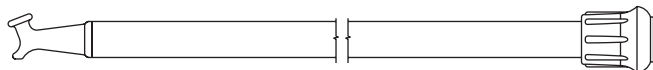
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POLE RING



Cast white bronze pole ring is used in conjunction with locking hardware for sash pole operation of ventilators.

SASH POLE

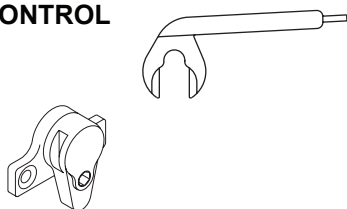


**HANGER
FOR SASH POLE**



A 3/4" diameter aluminum sash pole with a cast white bronze pull down hook and black rubber tip.
Available in 6 ft. and 12 ft. lengths with optional cast white bronze pole hanger.

**ACCESS CONTROL
LOCK**



In lieu of the standard cam handles cast white bronze access control locks are offered for managed control of vent operations. Lock is operated with a manganese bronze removable handle.

HOOK BOLT LOCK



Optional hook bolt lock in lieu of cam handle. Standard finish shall be US-25-D clear white bronze.

MULTI-POINT LOCK



Optional single locking handle for concealed multi-point locks located on the vertical frame. Standard finish shall be US-25-D clear white bronze.

RESCUE WINDOW SIGN



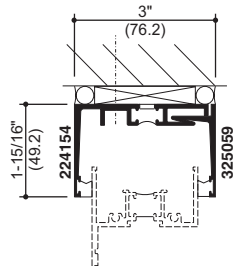
Vinyl rescue window sign with lettering on both sides. Colors are black letters on a yellow background.

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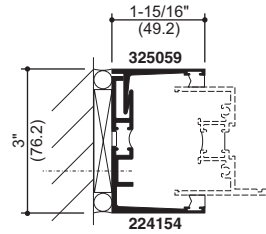
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EQUAL LEG SILLS

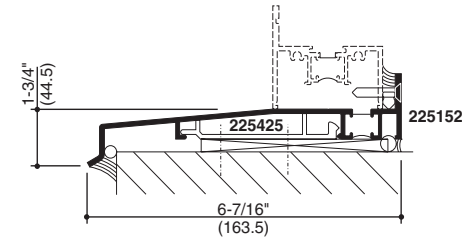
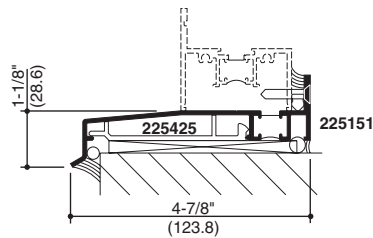
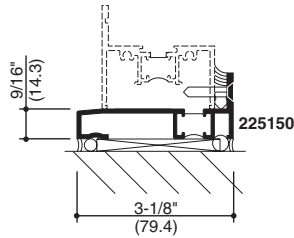


**HEAD
RECEPTOR
(INTERIOR
INSTALLED)**

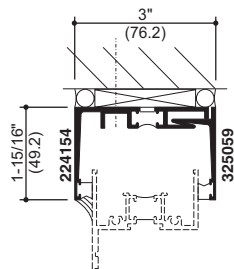


**JAMB
RECEPTOR
(INTERIOR
INSTALLED)**

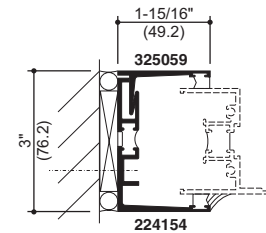
FULL DEPTH SILLS



UNEQUAL LEG SILLS

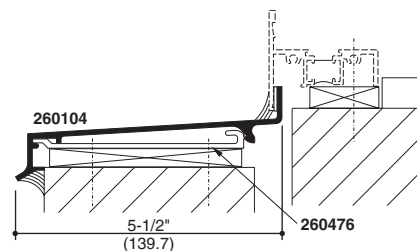
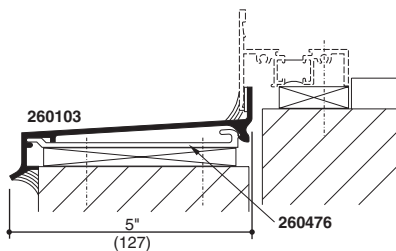
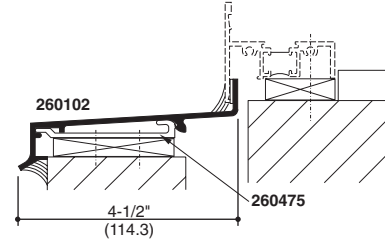
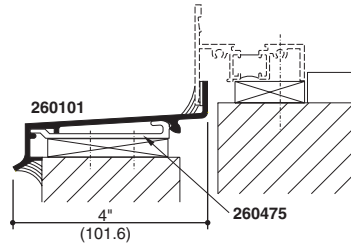
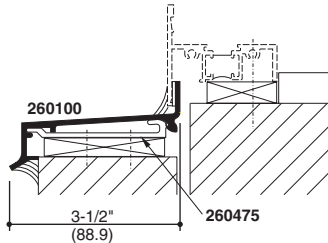


**HEAD
RECEPTOR
(INTERIOR
INSTALLED)**



**JAMB
RECEPTOR
(INTERIOR
INSTALLED)**

UNEQUAL LEG SILLS

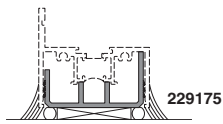


Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

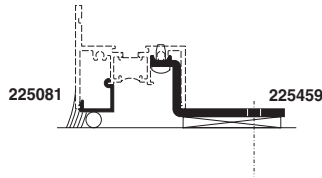
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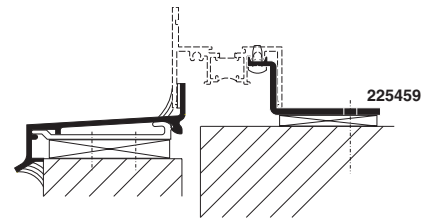
Additional information and CAD details are available at www.kawneer.com.



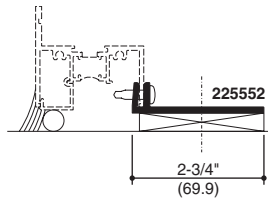
**PERIMETER FILLER
(Continuous)**
(Head and Jamb Similar)



**STRAP ANCHOR
with SEALANT BACK-UP**



**STRAP ANCHOR
with SUB SILL**



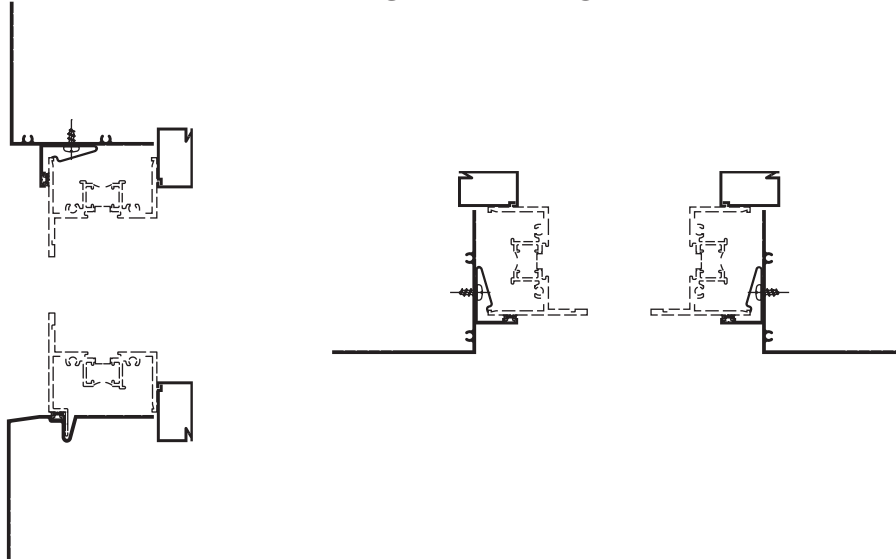
F-ANCHOR STRAP
Equal Leg Frame Only

Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

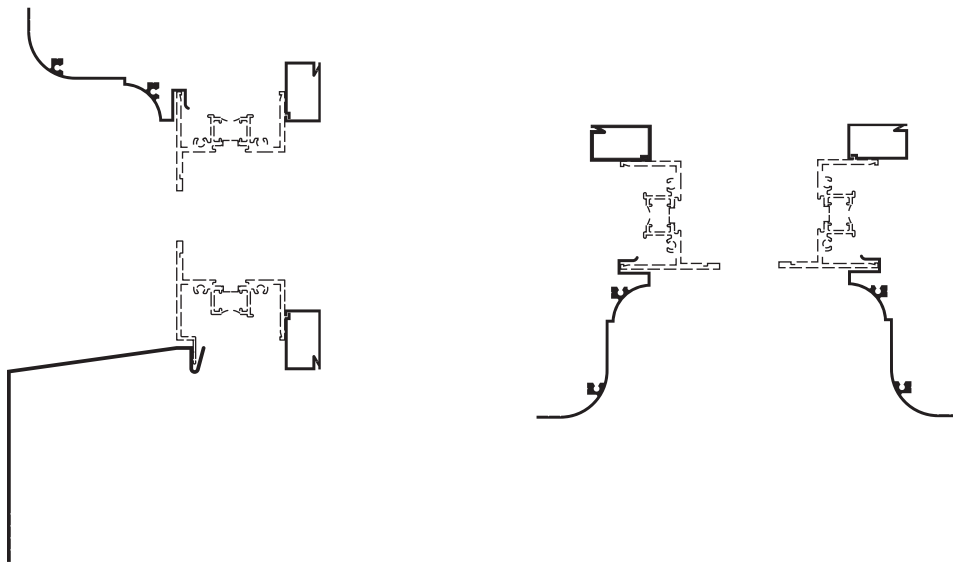
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Additional information and CAD details are available at www.kawneer.com

PRE-SET PANNING



WRAP AROUND PANNING



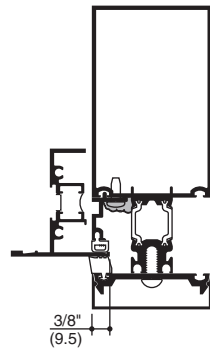
Note: Panning shown with fixed window also available for P.O., P.I., C.O., and C.I.

Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

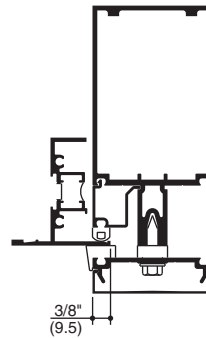
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CURTAIN WALL ADAPTERS



7500 WALL



1600 WALL

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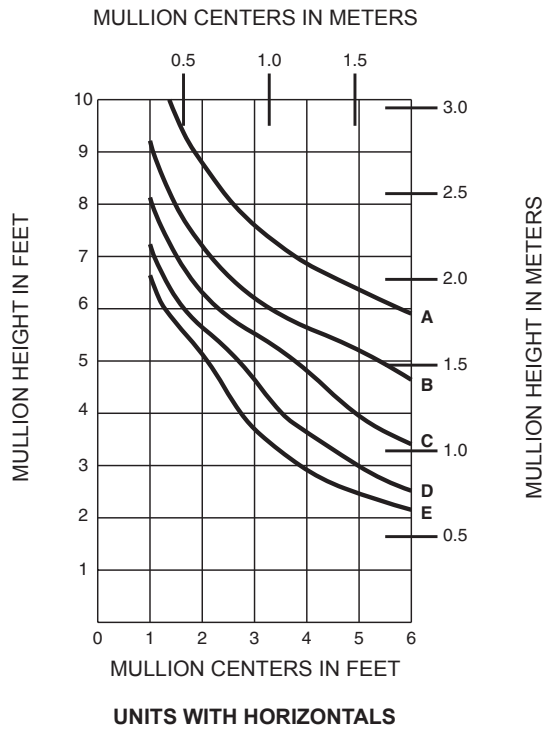
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WIND LOAD CHARTS

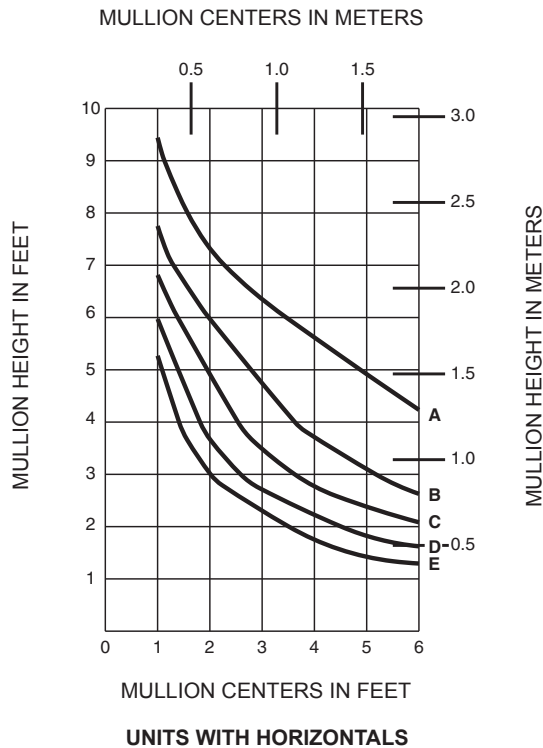
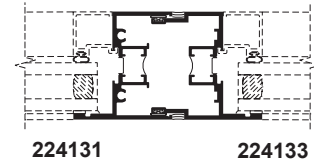
Mullions are designed for deflection limitations in accordance with AAMA TIR-A11 of L/175 up to 13'-6" and L/240 +1/4" above 13'-6". These curves are for mullions WITH HORIZONTALS and are based on engineering calculations for stress and deflection. Allowable wind load stress for ALUMINUM 15,152 psi (104MPa), STEEL 30,000 psi (207MPa). Charted curves, in all cases are for the limiting value. Wind load charts contained herein are based upon nominal wind load utilized in allowable stress design. A conversion from Load Resistance Factor Design (LRFD) is provided. To convert ultimate wind loads to nominal loads, multiply ultimate wind loads by a factor of 0.6 per ASCE/SEI 7. A 4/3 increase in allowable stress has not been used to develop these curves. For special situations not covered by these curves, contact your Kawneer representative for additional information.

Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

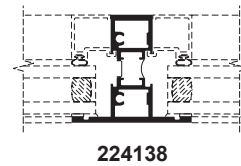
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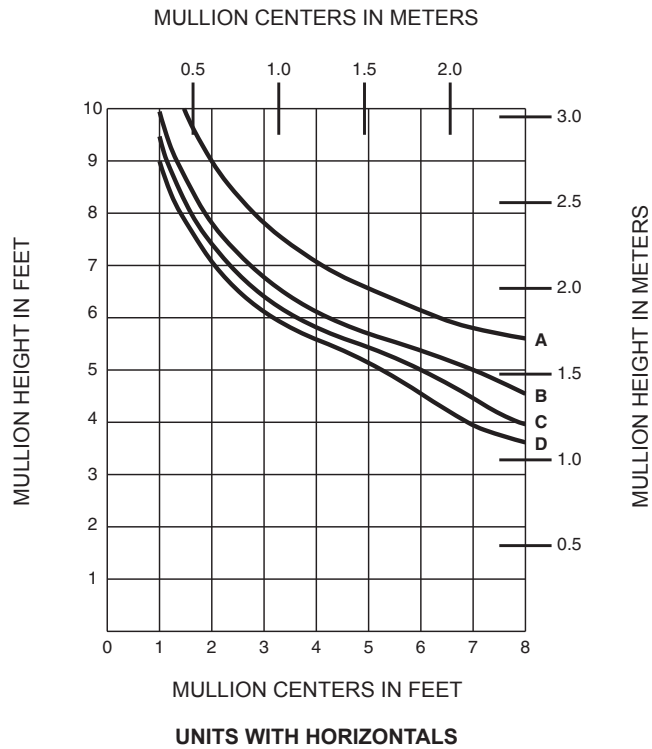


A = 20 PSF (958)
B = 35 PSF (1436)
C = 50 PSF (2394)
D = 70 PSF (3352)
E = 90 PSF (4309)

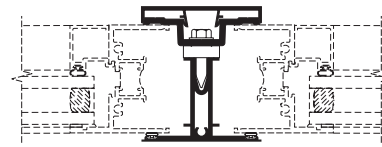


A = 20 PSF (958)
B = 35 PSF (1436)
C = 50 PSF (2394)
D = 70 PSF (3352)
E = 90 PSF (4309)

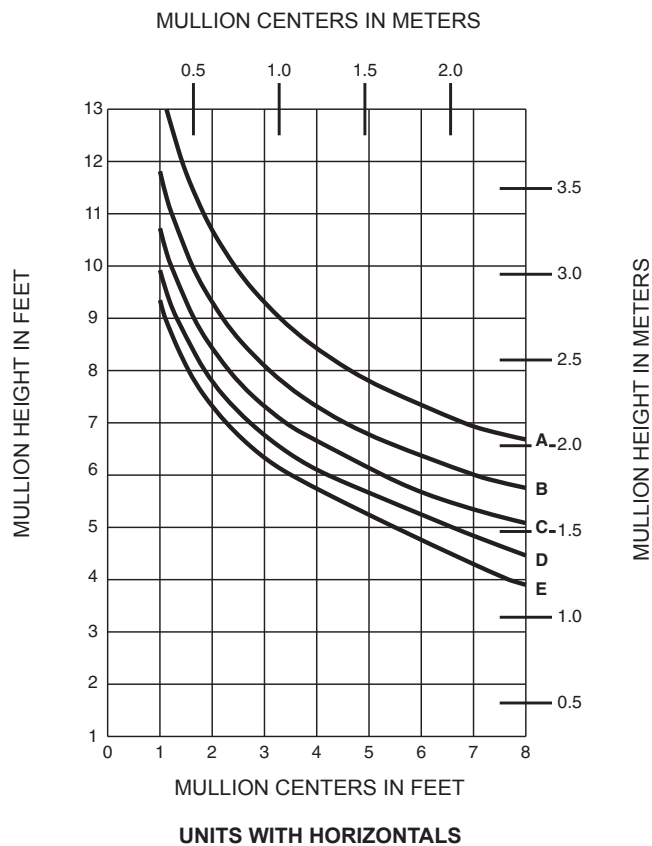




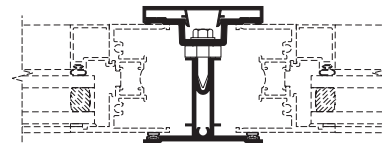
A = 20 PSF (958)
 B = 25 PSF (1197)
 C = 30 PSF (1436)
 D = 40 PSF (1915)



224070



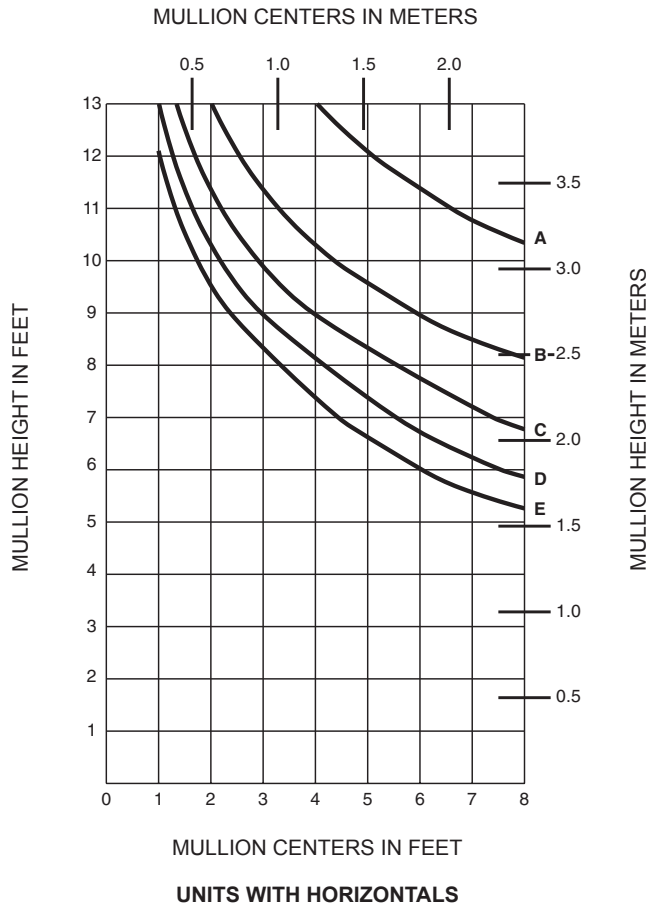
A = 30 PSF (1436)
 B = 45 PSF (2155)
 C = 60 PSF (2873)
 D = 75 PSF (3591)
 E = 90 PSF (4309)



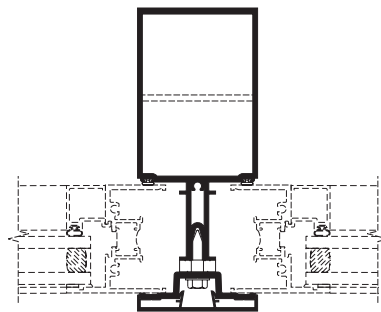
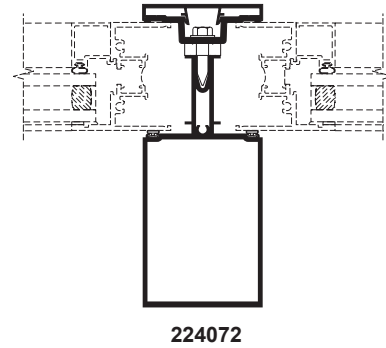
224071

Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

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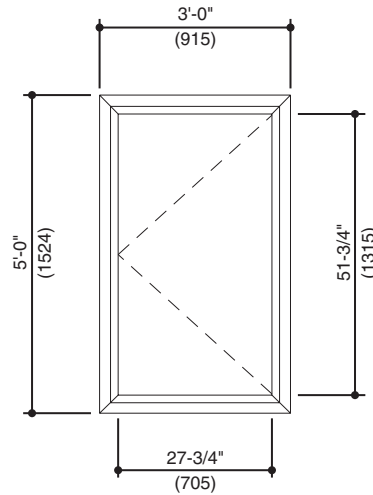


A = 20 PSF (958)
B = 40 PSF (1915)
C = 60 PSF (2873)
D = 80 PSF (3830)
E = 100 PSF (4788)



NOTE:
MULLION PROJECTION TO THE
INTERIOR AVAILABLE

Generic Project Specific U-factor Example Calculation
 (Percent of Glass will vary on specific products depending on sitelines)



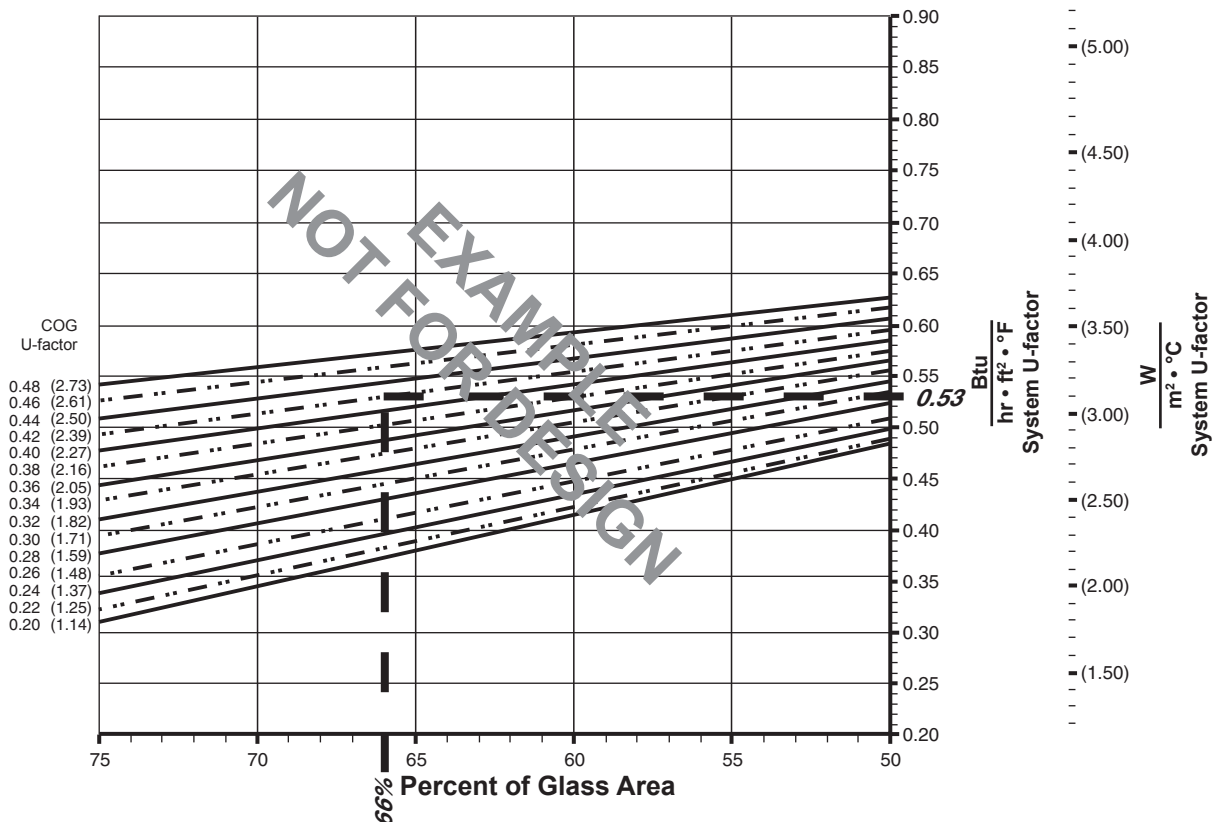
Example Glass U-Factor = 0.42 Btu/hr • ft² • °F

Total Daylight Opening = 27-3/4" • 51-3/4" = 9.97ft²

Total Projected Area = 3'-0" • 5'-0" = 15 ft²

Percent of Glass = (Total Daylight Opening ÷ Total Projected Area)100
 = (9.97 ÷ 15)100 = 66%

System U-factor vs Percent of Glass Area



Based on 66% glass and center of glass (COG) U-factor of 0.42
 System U-factor is equal to 0.53 Btu/hr • ft² • °F

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FIXED WINDOW WITH 1" GLAZING

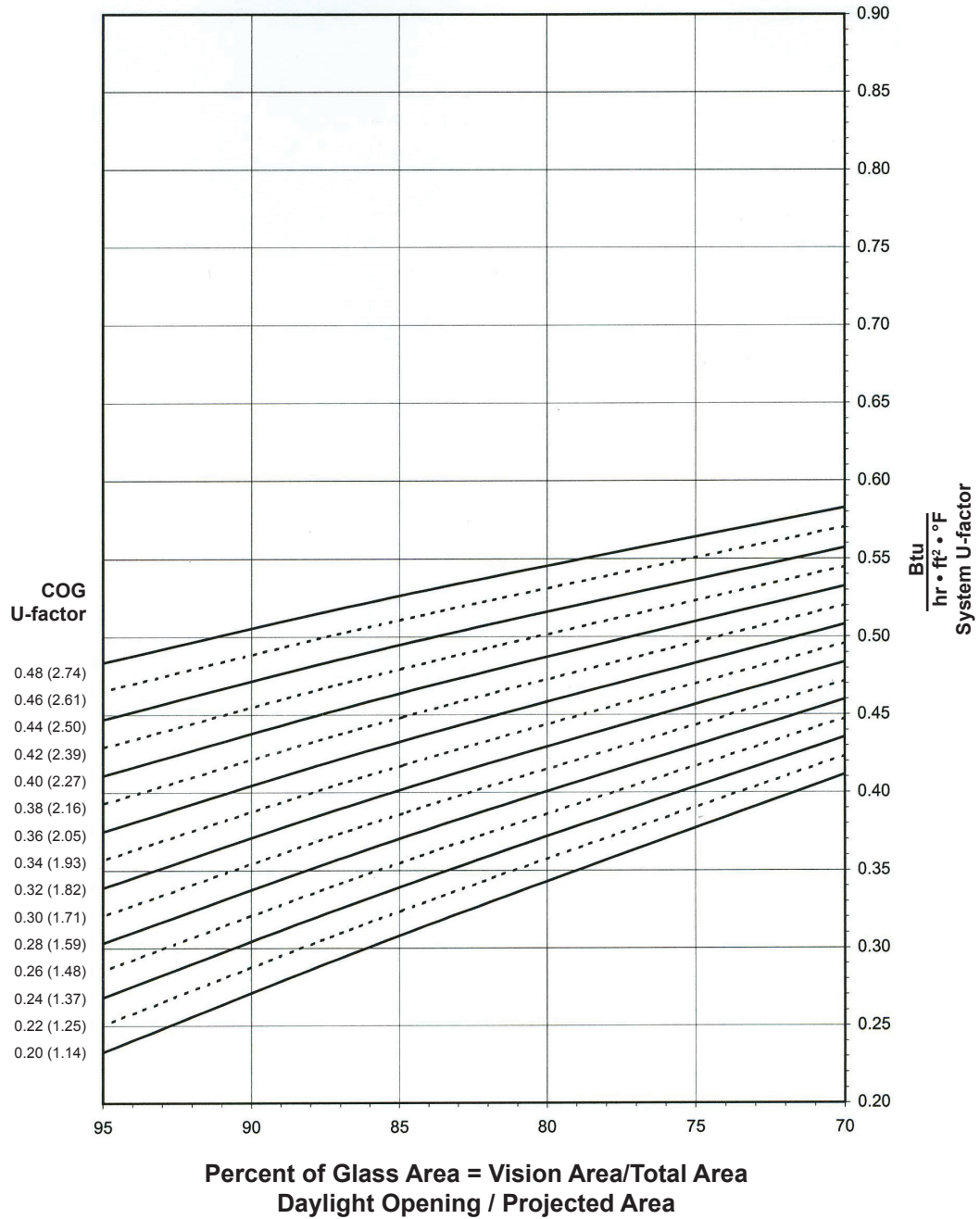
Note:

Values in parentheses are metric.

COG = Center of Glass.

Charts are generated per AAMA 507

System U-factor vs Percent of Glass Area



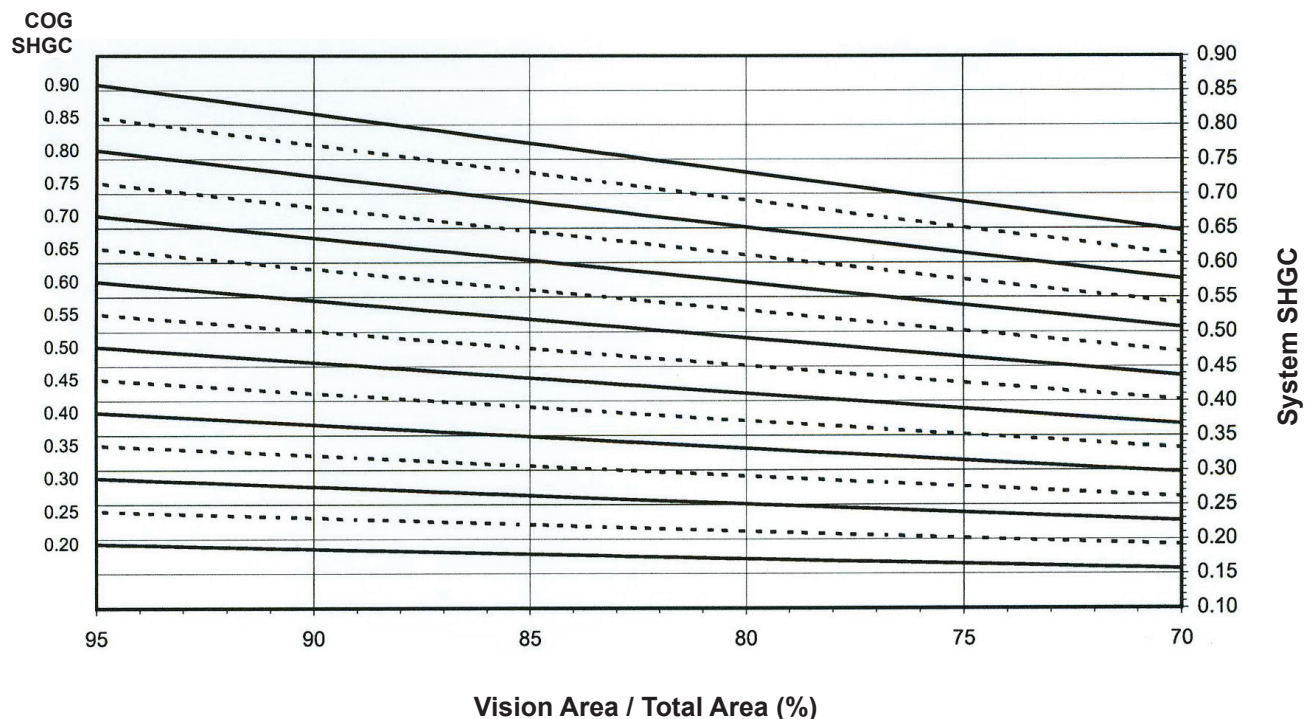
Notes for System U-factor, SHGC and VT charts:

For glass values that are not listed, linear interpolation is permitted.

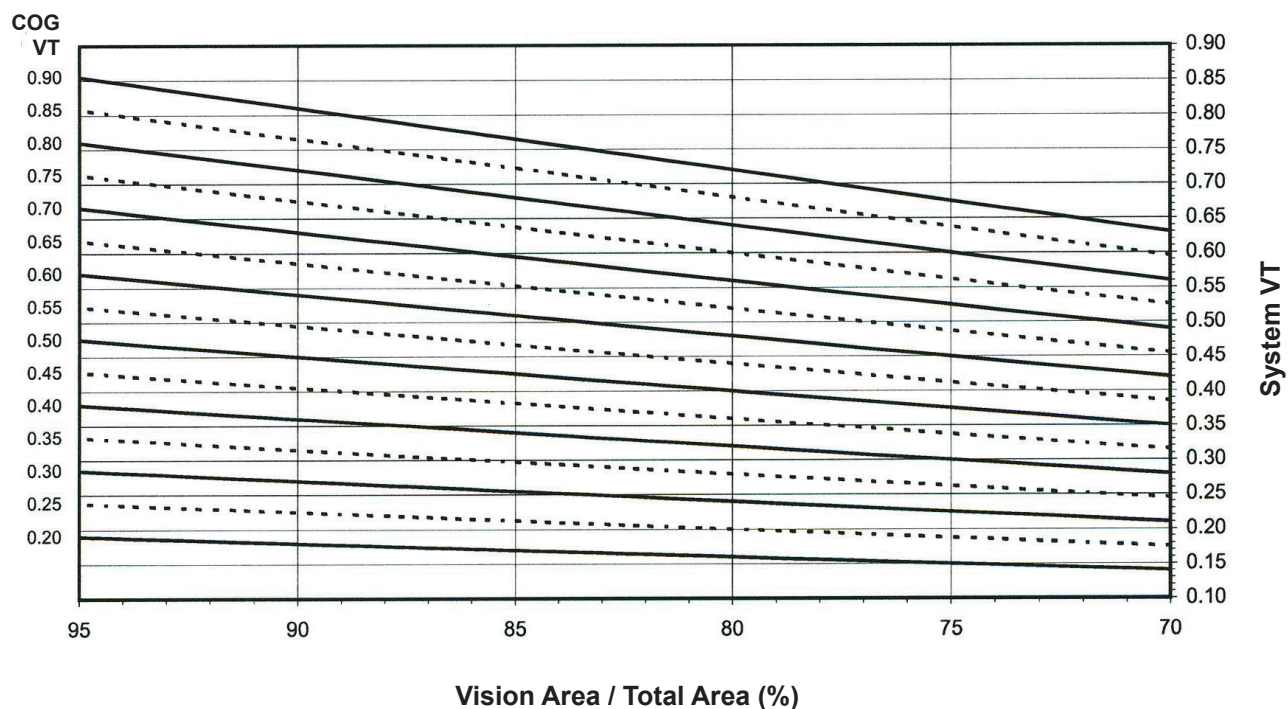
Glass properties are based on center of glass values and are obtained from your glass supplier.

FIXED WINDOW WITH 1" GLAZING

System Solar Heat Gain Coefficient (SHGC) vs Percent of Vision Area



System Visible Transmittance (VT) vs Percent of Vision Area



Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

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Thermal Transmittance ¹ (BTU/hr • ft² • °F)

Glass U-Factor ³	Overall U-Factor ⁴
0.48	0.53
0.46	0.51
0.44	0.50
0.42	0.48
0.40	0.46
0.38	0.45
0.36	0.43
0.34	0.42
0.32	0.40
0.30	0.39
0.28	0.37
0.26	0.36
0.24	0.34
0.22	0.32
0.20	0.31

FIXED WINDOW WITH 1" GLAZING

NOTE: For glass values that are not listed, linear interpolation is permitted.

1. U-Factors are determined in accordance with NFRC 100.
2. SHGC and VT values are determined in accordance with NFRC 200.
3. Glass properties are based on center of glass values and are obtained from your glass supplier.
4. Overall U-Factor, SHGC, and VT Matrices are based on the standard NFRC specimen size of 1,200 mm wide by 1,500 mm high (47-1/4" by 59-1/16").

SHGC Matrix ²

Glass SHGC ³	Overall SHGC ⁴
0.90	0.77
0.85	0.73
0.80	0.69
0.75	0.65
0.70	0.60
0.65	0.56
0.60	0.52
0.55	0.48
0.50	0.43
0.45	0.39
0.40	0.35
0.35	0.31
0.30	0.26
0.25	0.22
0.20	0.18

Visible Transmittance ²

Glass VT ³	Overall VT ⁴
0.90	0.76
0.85	0.72
0.80	0.68
0.75	0.64
0.70	0.59
0.65	0.55
0.60	0.51
0.55	0.47
0.50	0.42
0.45	0.38
0.40	0.34
0.35	0.30
0.30	0.25
0.25	0.21
0.20	0.17

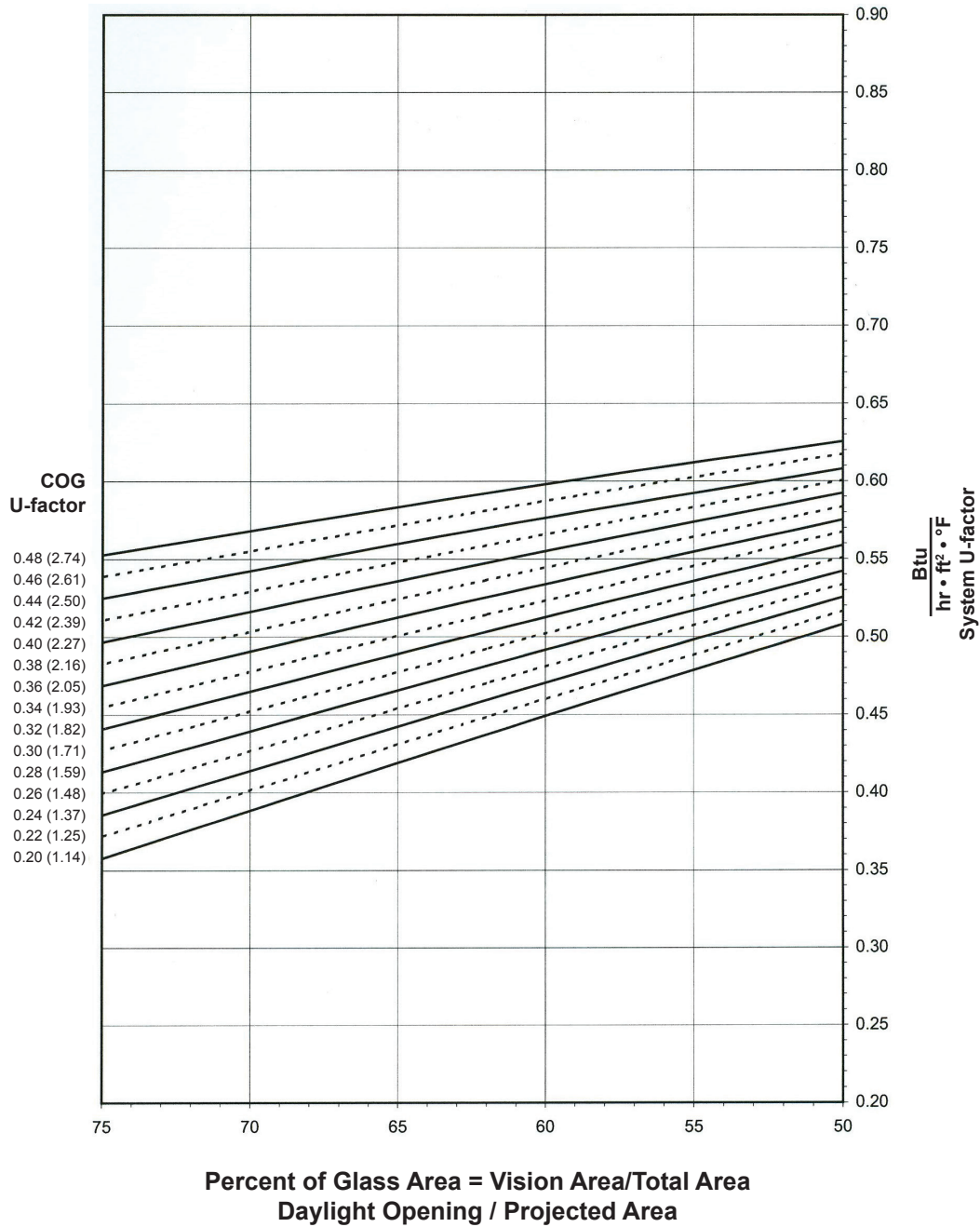
PROJECT-IN WINDOW WITH 1" GLAZING

Note:

Values in parentheses are metric.

COG = Center of Glass.

Charts are generated per AAMA 507

System U-factor vs Percent of Glass Area**Notes for System U-factor, SHGC and VT charts:**

For glass values that are not listed, linear interpolation is permitted.

Glass properties are based on center of glass values and are obtained from your glass supplier.

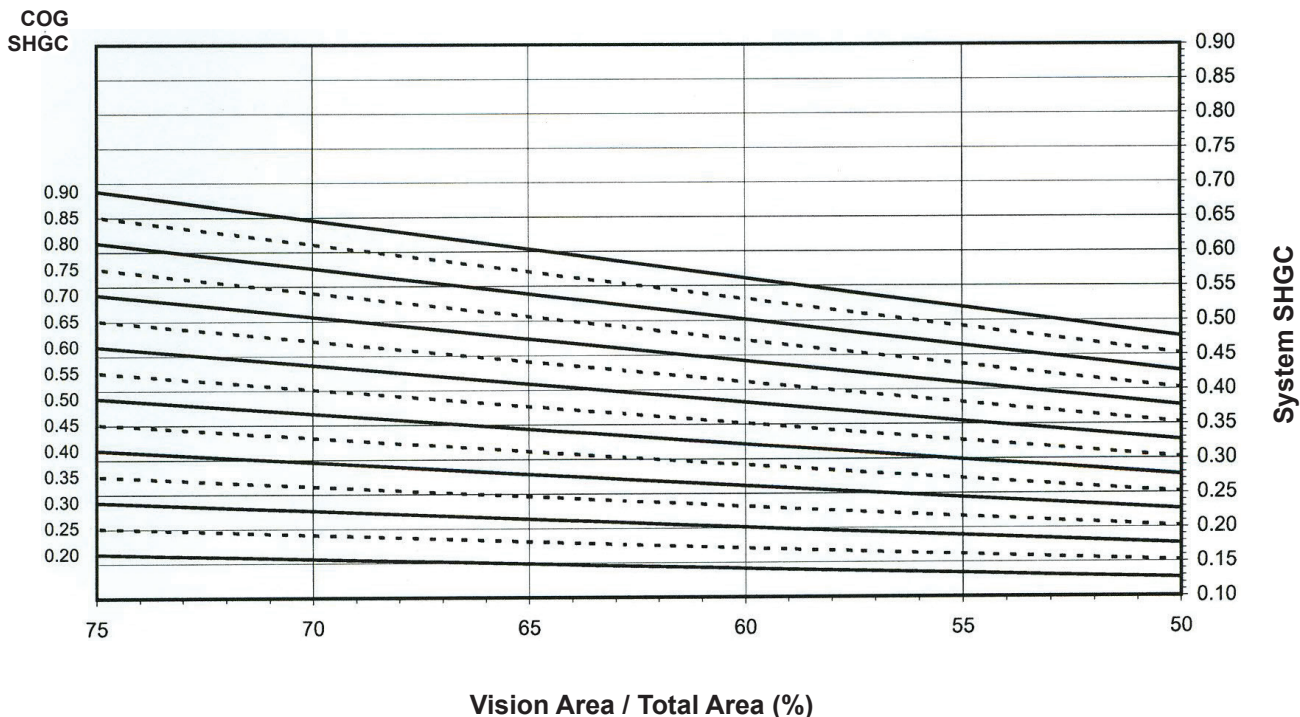
Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

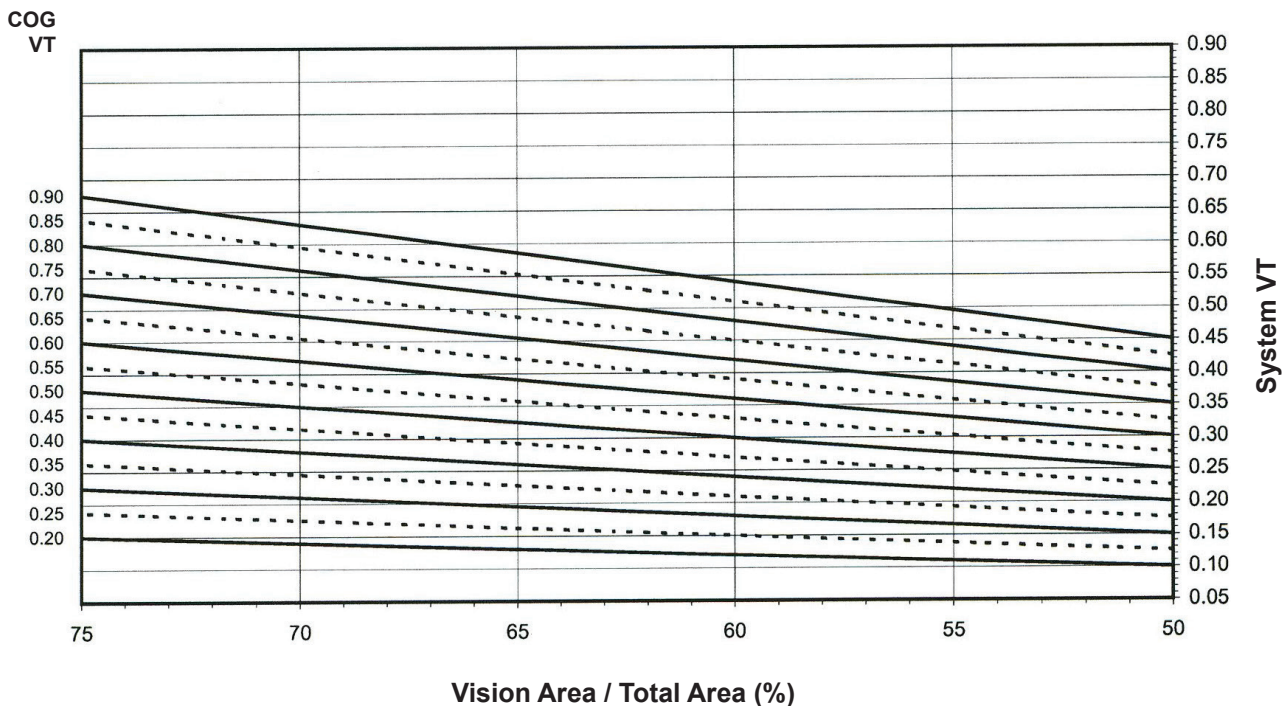
© Kawneer Company, Inc., 2011

PROJECT-IN WINDOW WITH 1" GLAZING

System Solar Heat Gain Coefficient (SHGC) vs Percent of Vision Area



System Visible Transmittance (VT) vs Percent of Vision Area



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Thermal Transmittance ¹ (BTU/hr • ft² • °F)

Glass U-Factor ³	Overall U-Factor ⁴
0.48	0.59
0.46	0.58
0.44	0.57
0.42	0.56
0.40	0.55
0.38	0.54
0.36	0.53
0.34	0.51
0.32	0.50
0.30	0.49
0.28	0.48
0.26	0.47
0.24	0.46
0.22	0.45
0.20	0.44

**PROJECT-IN WINDOW
WITH 1" GLAZING**

NOTE: For glass values that are not listed, linear interpolation is permitted.

1. U-Factors are determined in accordance with NFRC 100.
2. SHGC and VT values are determined in accordance with NFRC 200.
3. Glass properties are based on center of glass values and are obtained from your glass supplier.
4. Overall U-Factor, SHGC, and VT Matricies are based on the standard NFRC specimen size of 1,500 mm wide by 600 mm high (59-1/16" by 23-5/8").

SHGC Matrix ²

Glass SHGC ³	Overall SHGC ⁴
0.90	0.58
0.85	0.55
0.80	0.52
0.75	0.49
0.70	0.45
0.65	0.42
0.60	0.39
0.55	0.36
0.50	0.33
0.45	0.30
0.40	0.27
0.35	0.24
0.30	0.21
0.25	0.18
0.20	0.14

Visible Transmittance ²

Glass VT ³	Overall VT ⁴
0.90	0.56
0.85	0.53
0.80	0.50
0.75	0.47
0.70	0.43
0.65	0.40
0.60	0.37
0.55	0.34
0.50	0.31
0.45	0.28
0.40	0.25
0.35	0.22
0.30	0.19
0.25	0.16
0.20	0.12

Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

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PROJECT-OUT WINDOW WITH 1" GLAZING

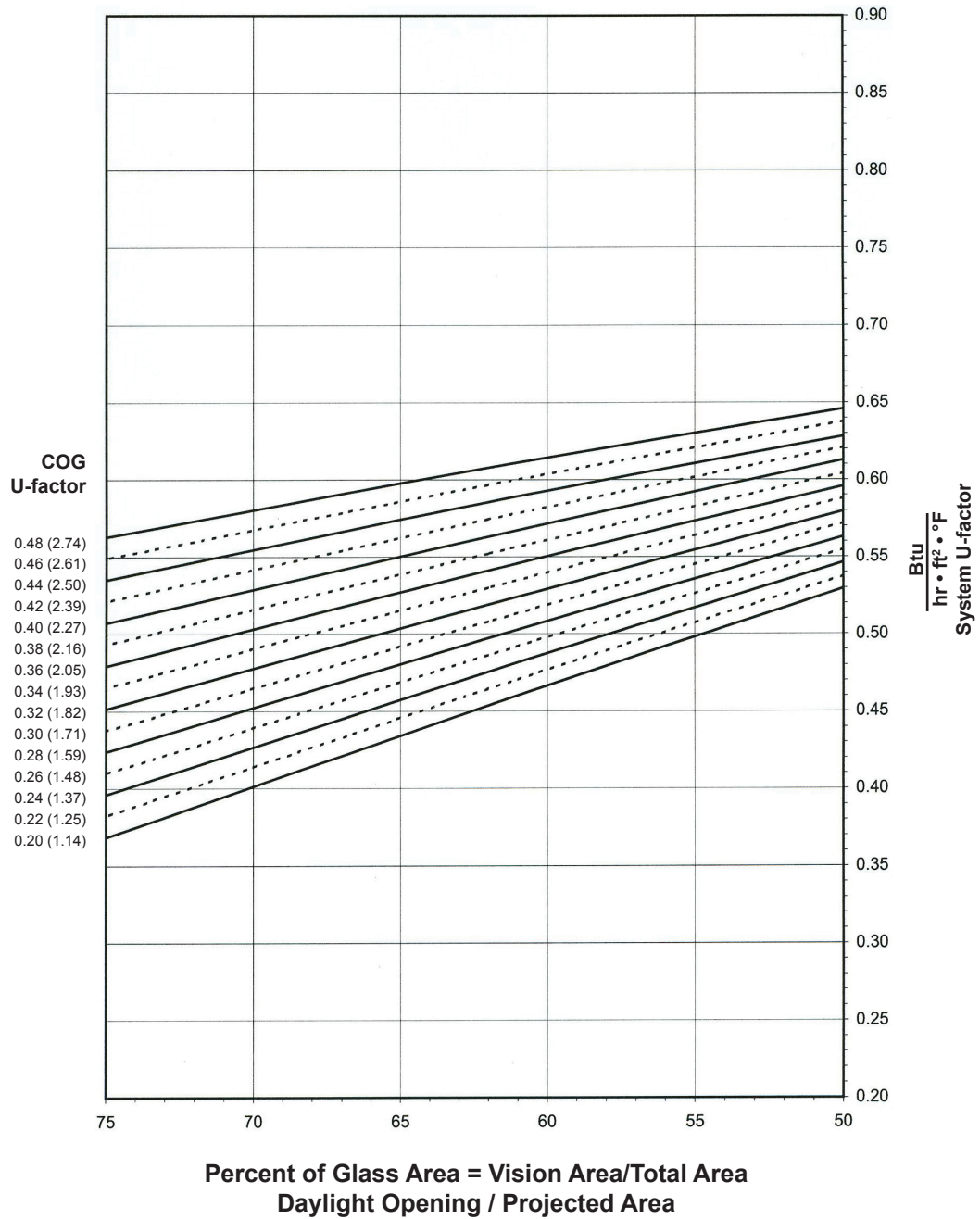
Note:

Values in parentheses are metric.

COG = Center of Glass.

Charts are generated per AAMA 507

System U-factor vs Percent of Glass Area

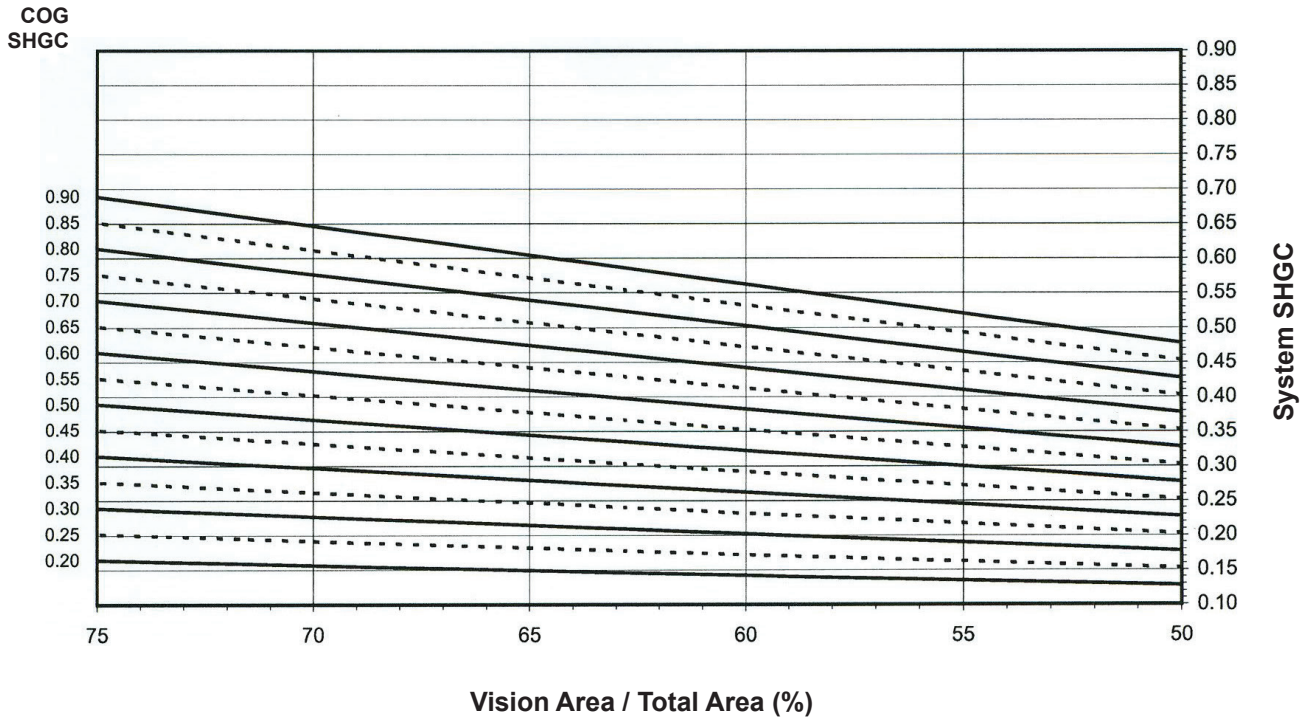
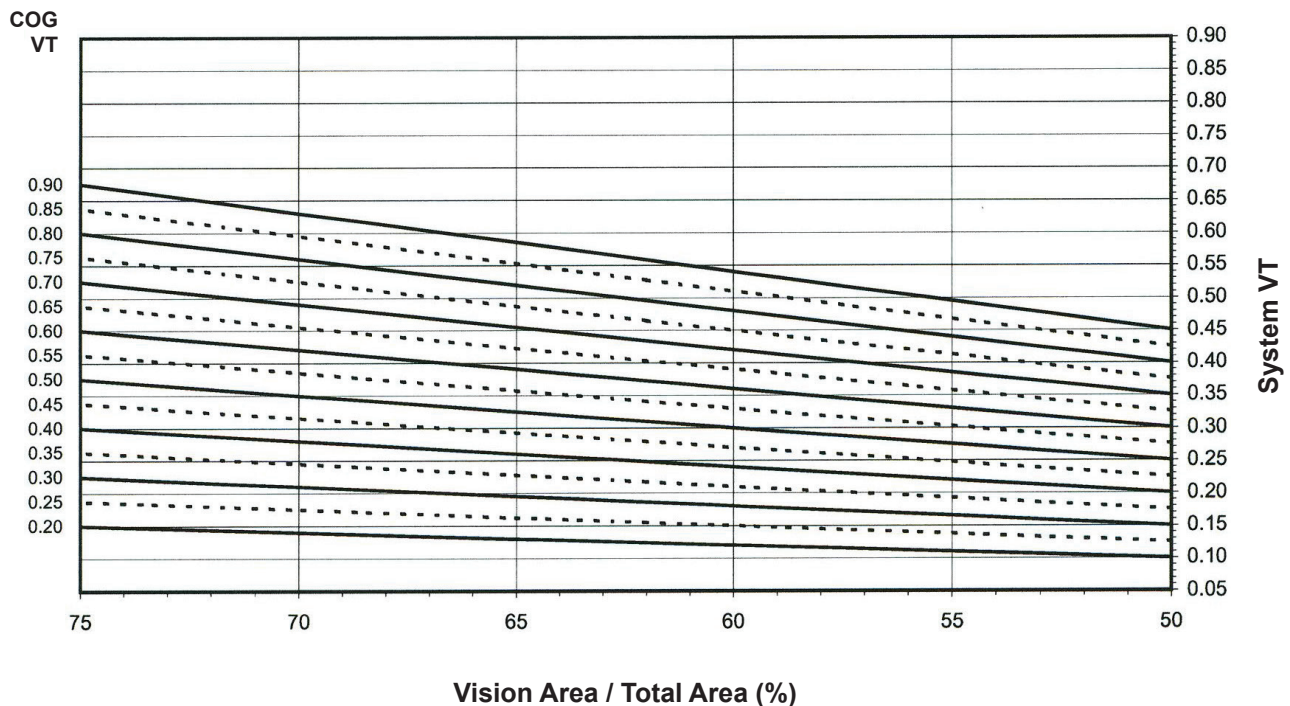


Notes for System U-factor, SHGC and VT charts:

For glass values that are not listed, linear interpolation is permitted.

Glass properties are based on center of glass values and are obtained from your glass supplier.

PROJECT-OUT WINDOW WITH 1" GLAZING

System Solar Heat Gain Coefficient (SHGC) vs Percent of Vision AreaSystem Visible Transmittance (VT) vs Percent of Vision Area

Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

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Thermal Transmittance ¹ (BTU/hr • ft² • °F)

Glass U-Factor ³	Overall U-Factor ⁴
0.48	0.61
0.46	0.60
0.44	0.59
0.42	0.57
0.40	0.56
0.38	0.55
0.36	0.54
0.34	0.53
0.32	0.52
0.30	0.51
0.28	0.50
0.26	0.49
0.24	0.48
0.22	0.46
0.20	0.45

PROJECT-OUT WINDOW
WITH 1" GLAZING

NOTE: For glass values that are not listed, linear interpolation is permitted.

1. U-Factors are determined in accordance with NFRC 100.
2. SHGC and VT values are determined in accordance with NFRC 200.
3. Glass properties are based on center of glass values and are obtained from your glass supplier.
4. Overall U-Factor, SHGC, and VT Matrices are based on the standard NFRC specimen size of 1,500 mm wide by 600 mm high (59-1/16" by 23-5/8").

SHGC Matrix ²

Glass SHGC ³	Overall SHGC ⁴
0.90	0.58
0.85	0.55
0.80	0.52
0.75	0.49
0.70	0.46
0.65	0.42
0.60	0.39
0.55	0.36
0.50	0.33
0.45	0.30
0.40	0.27
0.35	0.24
0.30	0.21
0.25	0.18
0.20	0.15

Visible Transmittance ²

Glass VT ³	Overall VT ⁴
0.90	0.56
0.85	0.53
0.80	0.50
0.75	0.47
0.70	0.43
0.65	0.40
0.60	0.37
0.55	0.34
0.50	0.31
0.45	0.28
0.40	0.25
0.35	0.22
0.30	0.19
0.25	0.16
0.20	0.12

INSWING CASEMENT WINDOW WITH 1" GLAZING

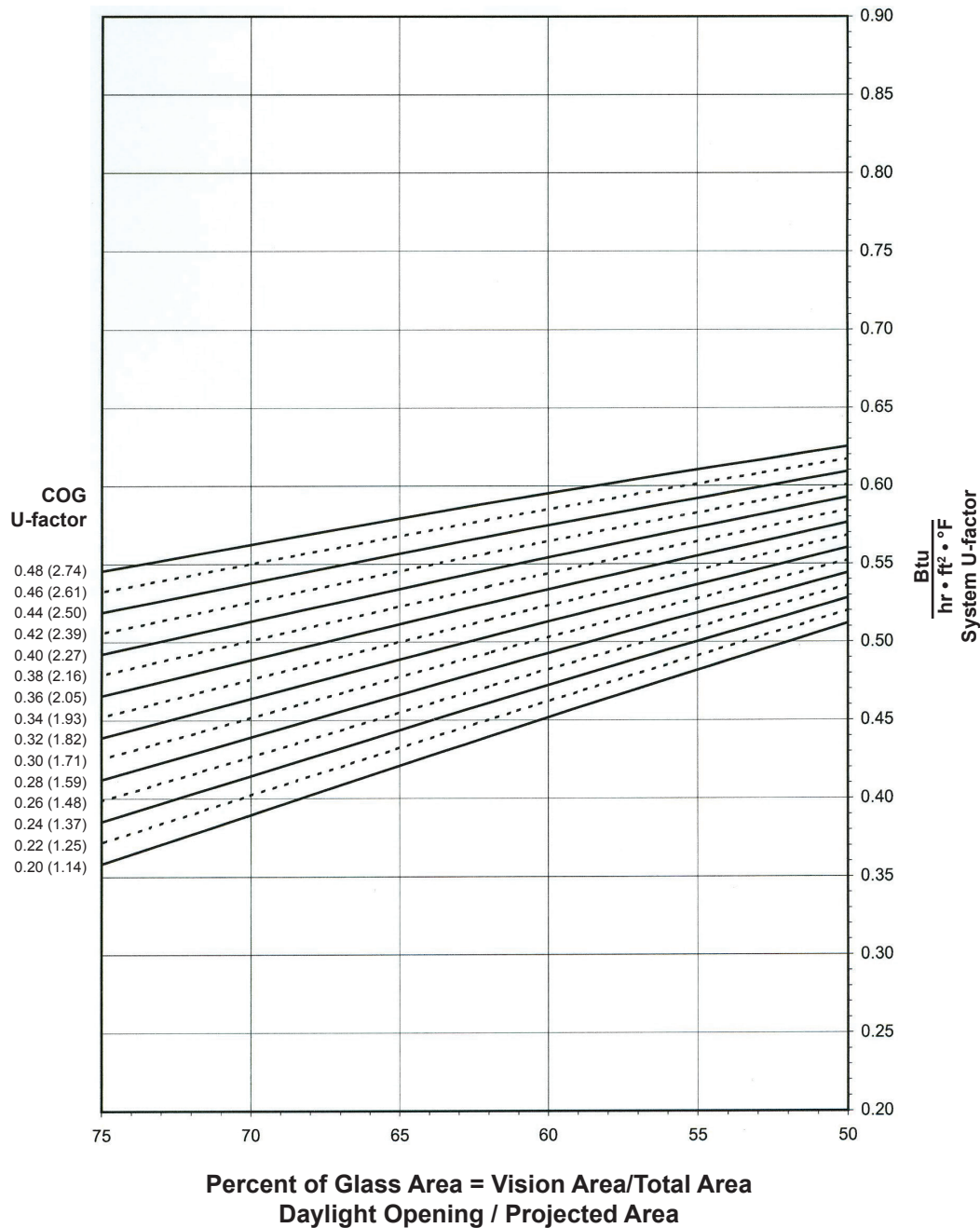
Note:

Values in parentheses are metric.

COG = Center of Glass.

Charts are generated per AAMA 507

System U-factor vs Percent of Glass Area


Notes for System U-factor, SHGC and VT charts:

For glass values that are not listed, linear interpolation is permitted.

Glass properties are based on center of glass values and are obtained from your glass supplier.

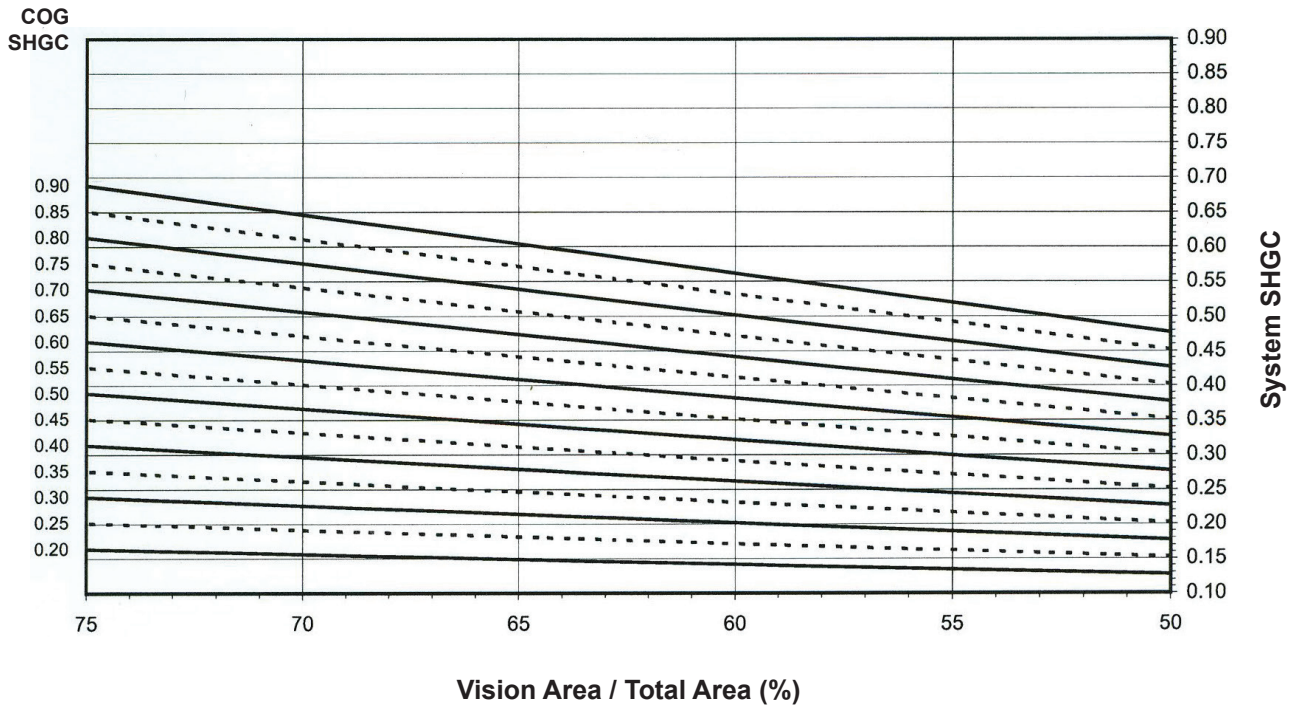
Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

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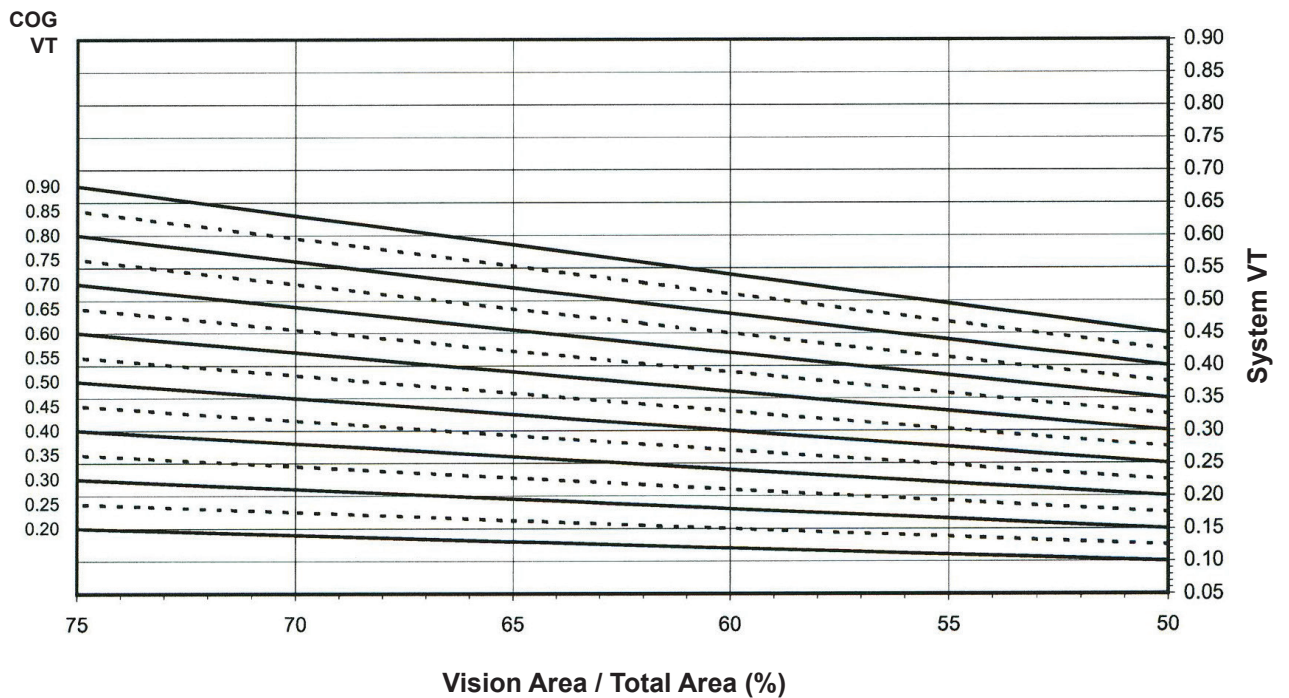
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INSWING CASEMENT WINDOW WITH 1" GLAZING

System Solar Heat Gain Coefficient (SHGC) vs Percent of Vision Area



System Visible Transmittance (VT) vs Percent of Vision Area



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Thermal Transmittance ¹ (BTU/hr • ft² • °F)

Glass U-Factor ³	Overall U-Factor ⁴
0.48	0.59
0.46	0.58
0.44	0.57
0.42	0.56
0.40	0.55
0.38	0.54
0.36	0.52
0.34	0.51
0.32	0.50
0.30	0.49
0.28	0.48
0.26	0.47
0.24	0.46
0.22	0.45
0.20	0.44

**INSWING CASEMENT WINDOW
WITH 1" GLAZING**

NOTE: For glass values that are not listed, linear interpolation is permitted.

1. U-Factors are determined in accordance with NFRC 100.
2. SHGC and VT values are determined in accordance with NFRC 200.
3. Glass properties are based on center of glass values and are obtained from your glass supplier.
4. Overall U-Factor, SHGC, and VT Matricies are based on the standard NFRC specimen size of 600 mm wide by 1,500 mm high (23-5/8" by 59-1/16").

SHGC Matrix ²

Glass SHGC ³	Overall SHGC ⁴
0.90	0.58
0.85	0.55
0.80	0.52
0.75	0.49
0.70	0.45
0.65	0.42
0.60	0.39
0.55	0.36
0.50	0.33
0.45	0.30
0.40	0.27
0.35	0.24
0.30	0.21
0.25	0.18
0.20	0.14

Visible Transmittance ²

Glass VT ³	Overall VT ⁴
0.90	0.56
0.85	0.53
0.80	0.50
0.75	0.47
0.70	0.43
0.65	0.40
0.60	0.37
0.55	0.34
0.50	0.31
0.45	0.28
0.40	0.25
0.35	0.22
0.30	0.19
0.25	0.16
0.20	0.12

Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

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OUTSWING CASEMENT WINDOW WITH 1" GLAZING

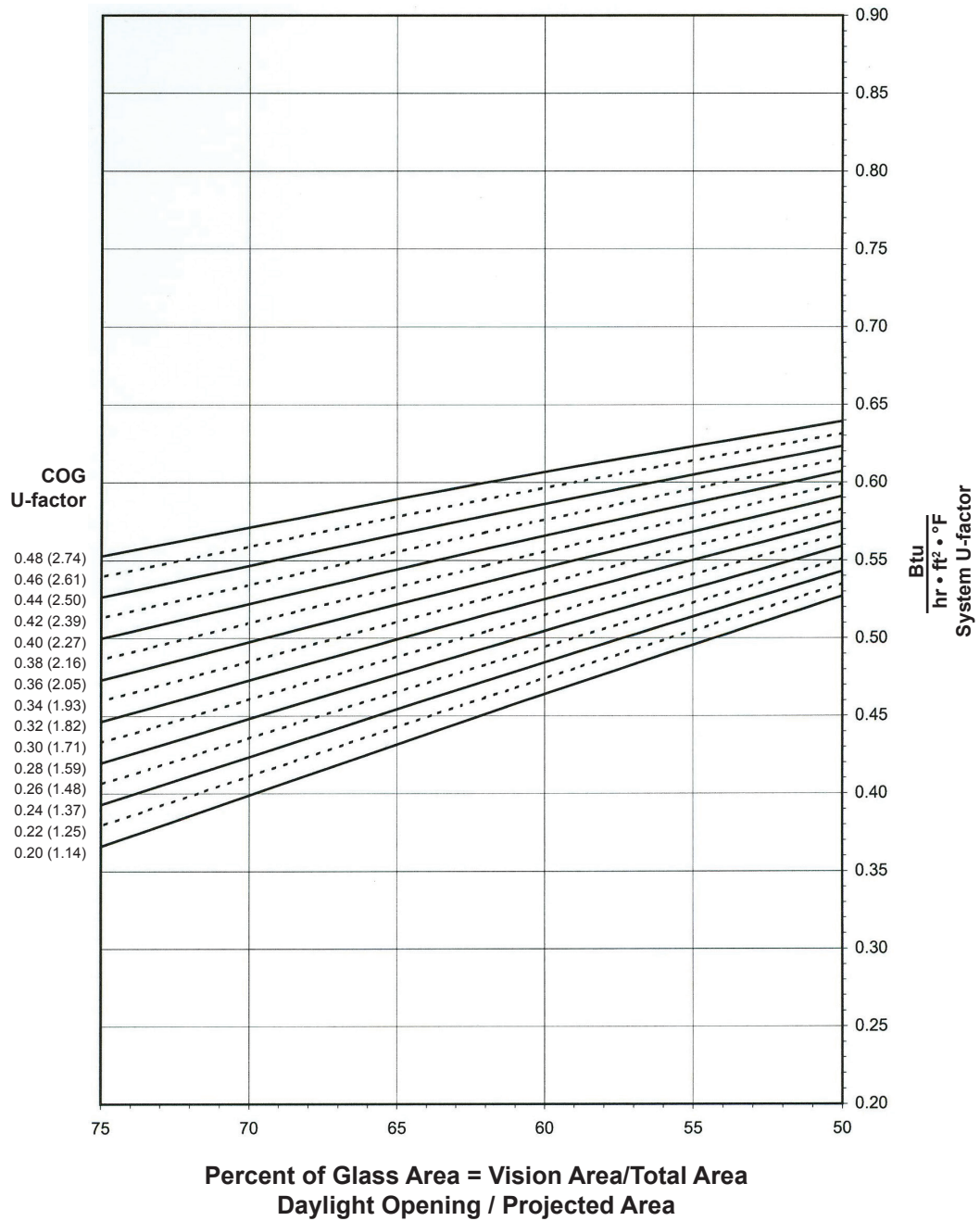
Note:

Values in parentheses are metric.

COG = Center of Glass.

Charts are generated per AAMA 507

System U-factor vs Percent of Glass Area



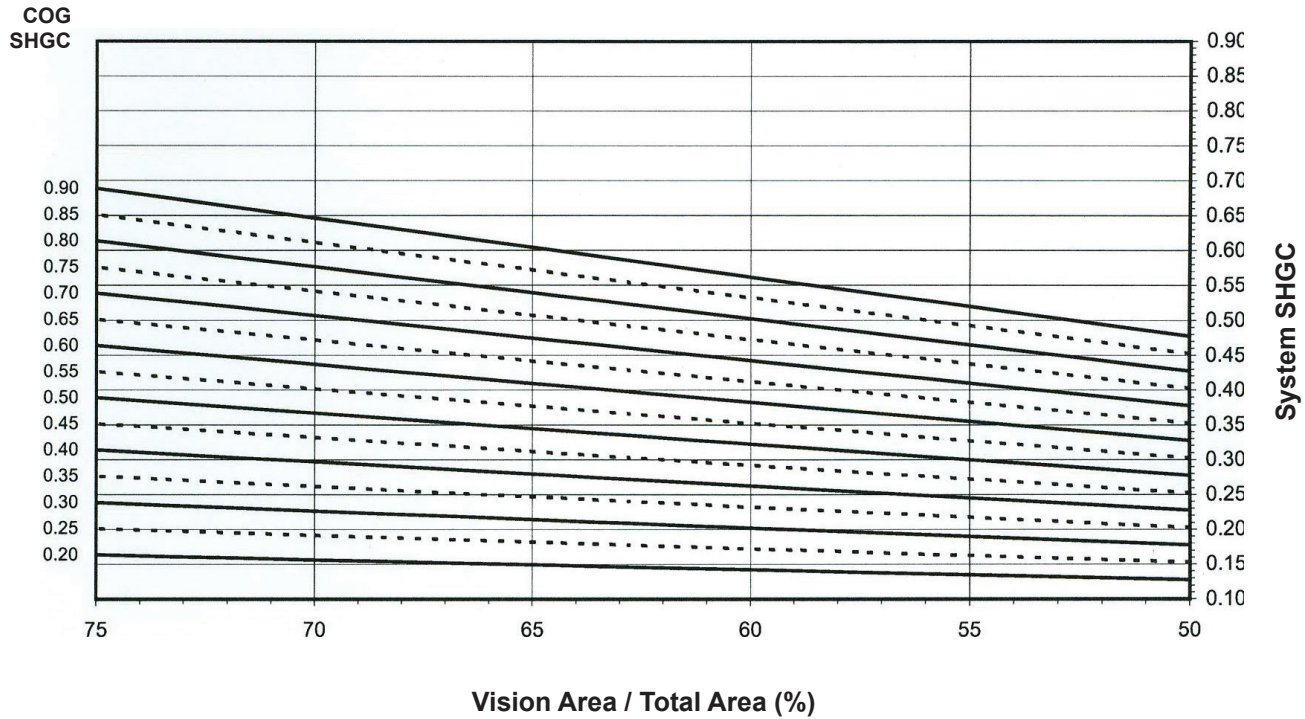
Notes for System U-factor, SHGC and VT charts:

For glass values that are not listed, linear interpolation is permitted.

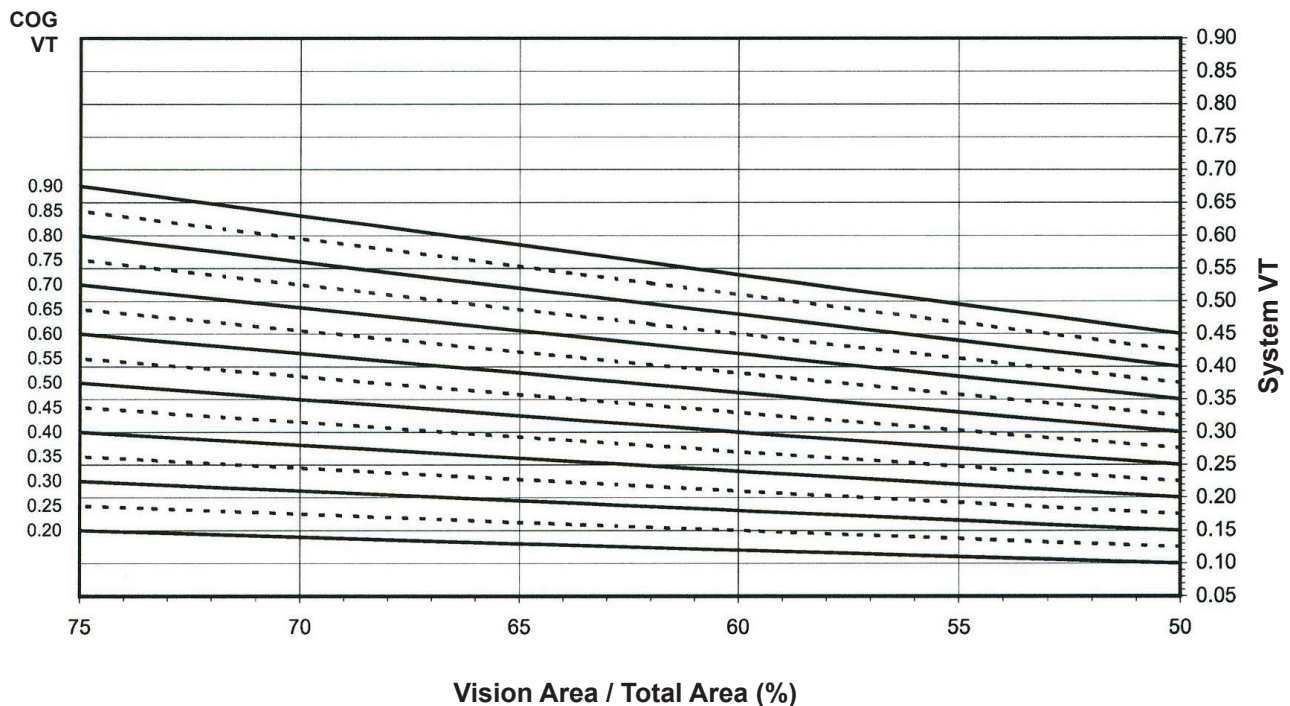
Glass properties are based on center of glass values and are obtained from your glass supplier.

OUTSWING CASEMENT WINDOW WITH 1" GLAZING

System Solar Heat Gain Coefficient (SHGC) vs Percent of Vision Area



System Visible Transmittance (VT) vs Percent of Vision Area



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Thermal Transmittance ¹ (BTU/hr • ft² • °F)

Glass U-Factor ³	Overall U-Factor ⁴
0.48	0.60
0.46	0.59
0.44	0.58
0.42	0.57
0.40	0.56
0.38	0.55
0.36	0.54
0.34	0.53
0.32	0.51
0.30	0.50
0.28	0.49
0.26	0.48
0.24	0.47
0.22	0.46
0.20	0.45

**OUTSWING CASEMENT WINDOW
WITH 1" GLAZING**

NOTE: For glass values that are not listed, linear interpolation is permitted.

1. U-Factors are determined in accordance with NFRC 100.
2. SHGC and VT values are determined in accordance with NFRC 200.
3. Glass properties are based on center of glass values and are obtained from your glass supplier.
4. Overall U-Factor, SHGC, and VT Matrices are based on the standard NFRC specimen size of 600 mm wide by 1,500 mm high (23-5/8" by 59-1/16").

SHGC Matrix ²

Glass SHGC ³	Overall SHGC ⁴
0.90	0.58
0.85	0.55
0.80	0.52
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0.70	0.45
0.65	0.42
0.60	0.39
0.55	0.36
0.50	0.33
0.45	0.30
0.40	0.27
0.35	0.24
0.30	0.21
0.25	0.18
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0.30	0.19
0.25	0.16
0.20	0.12

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