

## **Features**

- MetroView® FG 501T Window Wall is an inside glazed system
- 2-1/4" (57.2) sightline with standard 5" (127) system depth
- IsoLock® lanced pour and debridged 3/8" (9.5) thermal break
- Screw spline fabrication and joinery
- Standard infill option 1" (25.4)
- Silicone compatible glazing materials for long lasting seals
- Inside and outside corner members are available for 90° and 135° applications
- Incorporates expansion verticals as required
- Permanodic® anodized finishes option
- Painted finishes in standard and custom choices

## **Optional Features**

- Integrates with Kawneer GLASSvent® UT Windows, 2000T Terrace Doors, and AA®3200M Thermal Sliding Doors
- Balcony door options
- Strap anchors
- Optional slab edge covers (Extruded / ACM panel)
- Outside glazed option
- Heavy weight mullions
- Steel reinforcing
- Head receptor reinforcing clip
- Wedge gasket at interior head receptor stop
- Pro it\$Maker® Plus die sets
- Seismic performance tested to AAMA 501.4 and AAMA 501.6 standards
- Vertical inter-story Movement tested to AAMA 501.7 standards

## **Product Applications**

- Ribbon windows
- Ideal for single and multi-lite punched openings

For specific product applications,  
consult your Kawneer representative.

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**Architects** – Most extrusion and window types illustrated in this catalog are standard products for Kawneer. These concepts have been expanded and modified to afford you design freedom. Some miscellaneous details are non-standard and are intended to demonstrate how the system can be modified to expand design flexibility. Please contact your Kawneer representative for further assistance.

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**WIND LOAD/DEADLOAD CHARTS ..... 17-20**

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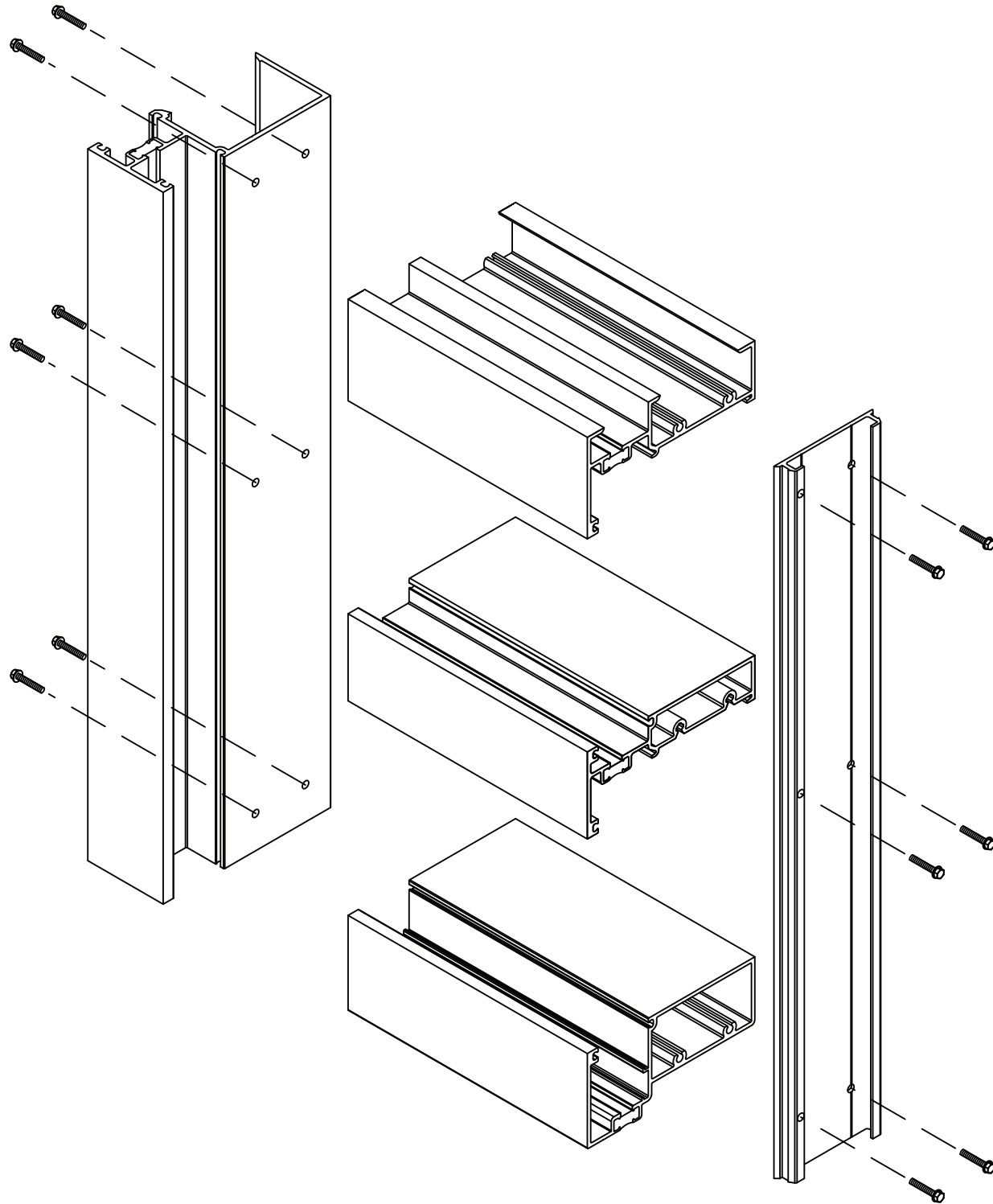
Metric (SI) conversion figures are included throughout these details for reference. Numbers in parentheses ( ) are millimeters unless otherwise noted.

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

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

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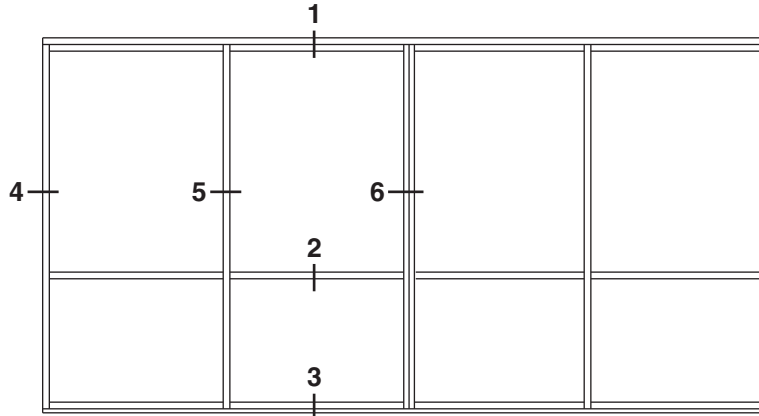


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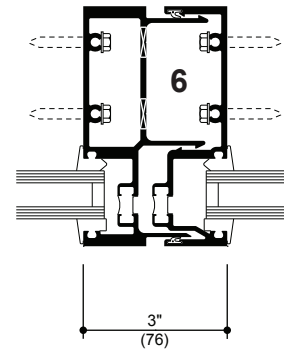
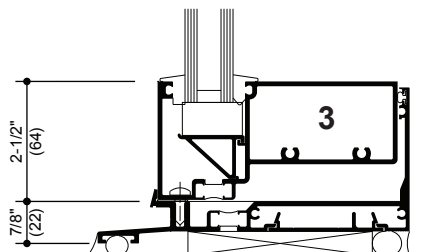
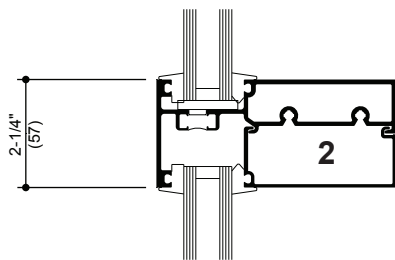
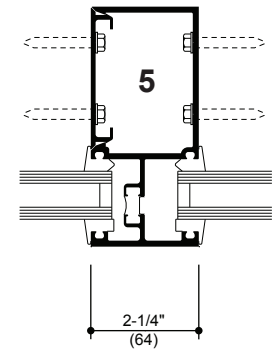
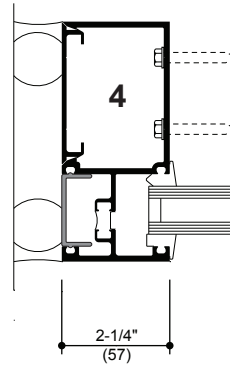
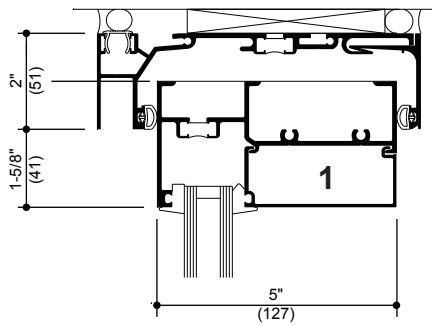
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ELEVATION IS NUMBER KEYED TO DETAILS

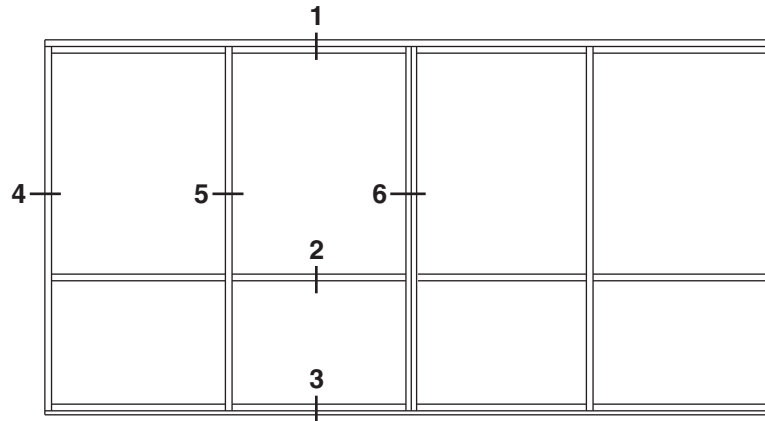
### INSIDE GLAZED



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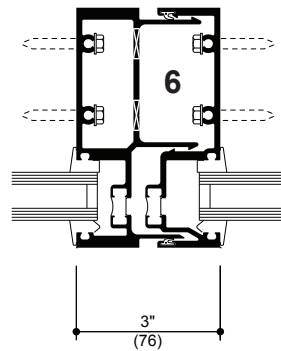
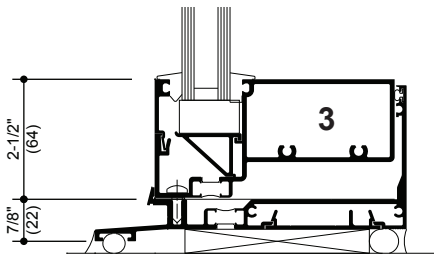
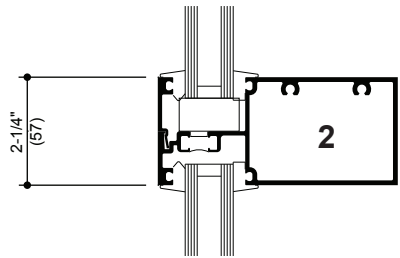
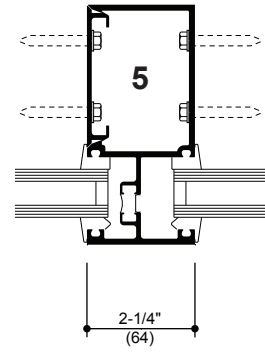
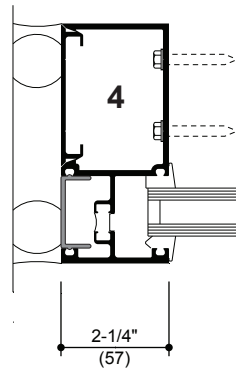
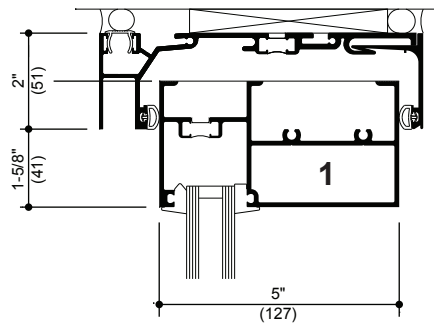
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ELEVATION IS NUMBER KEYED TO DETAILS

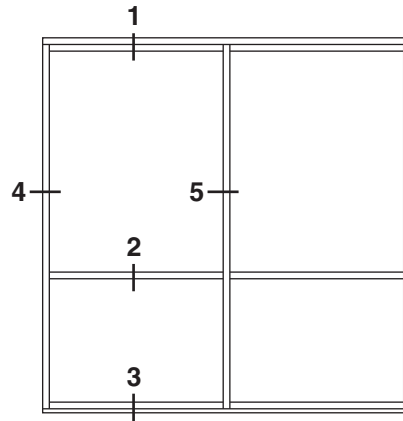
OUTSIDE GLAZED



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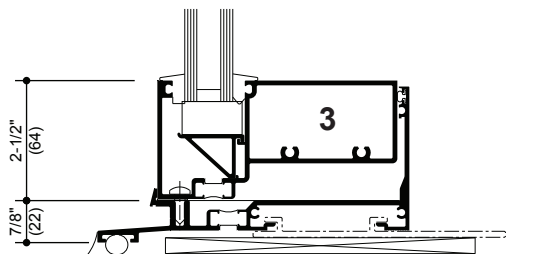
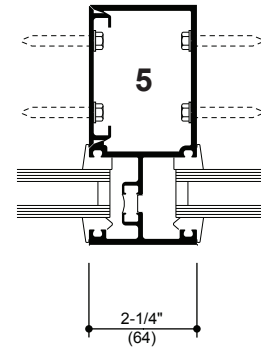
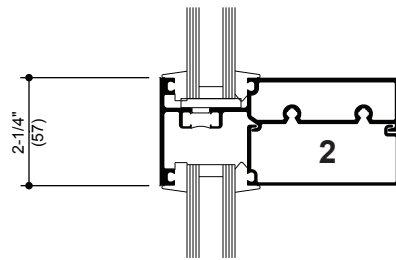
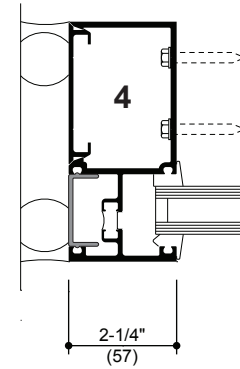
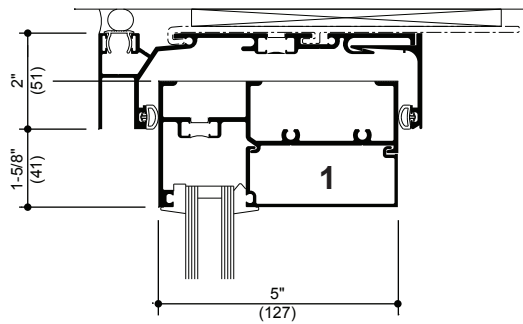
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ELEVATION IS NUMBER KEYED TO DETAILS

### INSIDE GLAZED



HEAD AND SILL SHOWN WITH OPTIONAL STRAP ANCHOR

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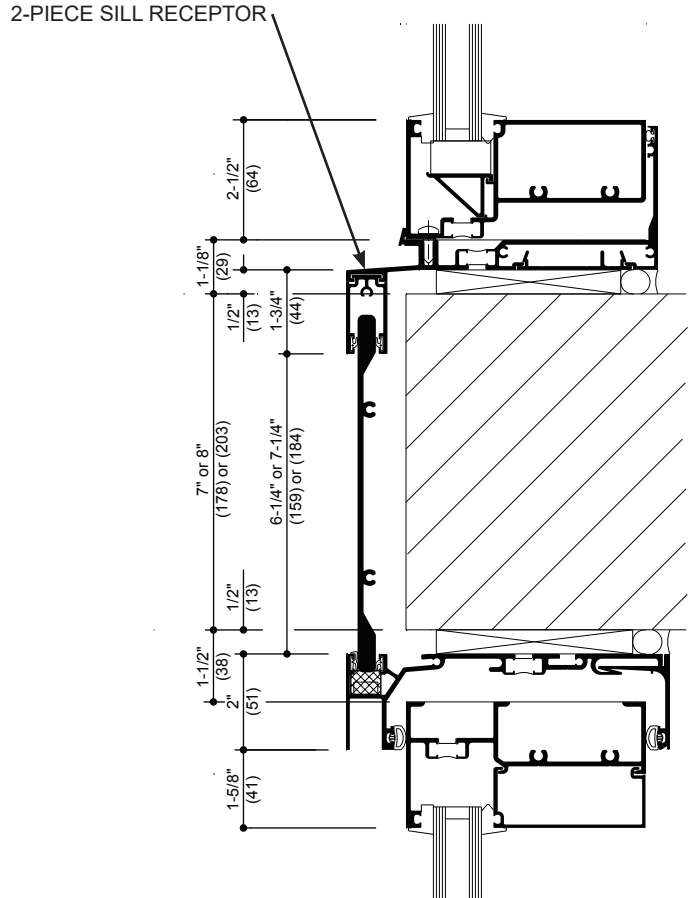
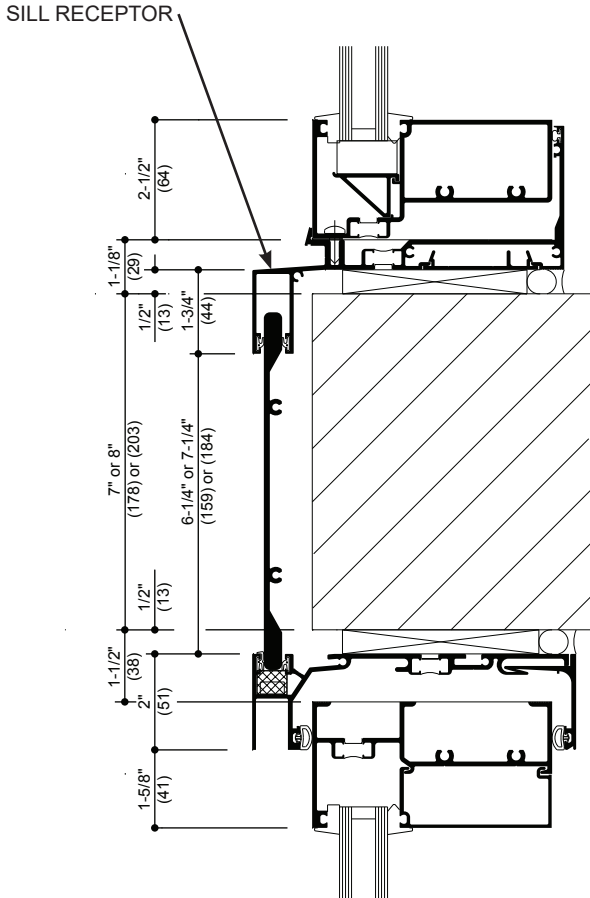
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**SLAB EDGE COVERS**  
(INSIDE GLAZED SHOWN, OUTSIDE GLAZED SIMILAR)

**STANDARD SILL RECEPTOR  
WITH 7" SLAB COVER  
(8" SLAB COVER SIMILAR)**

**2-PIECE SILL RECEPTOR  
WITH 7" SLAB COVER  
(8" SLAB COVER SIMILAR)**



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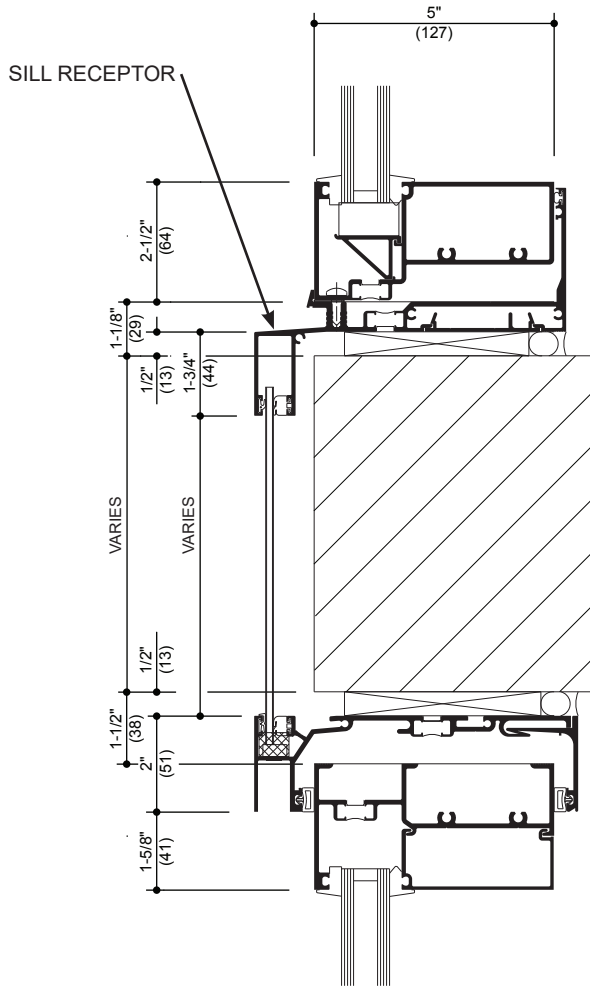
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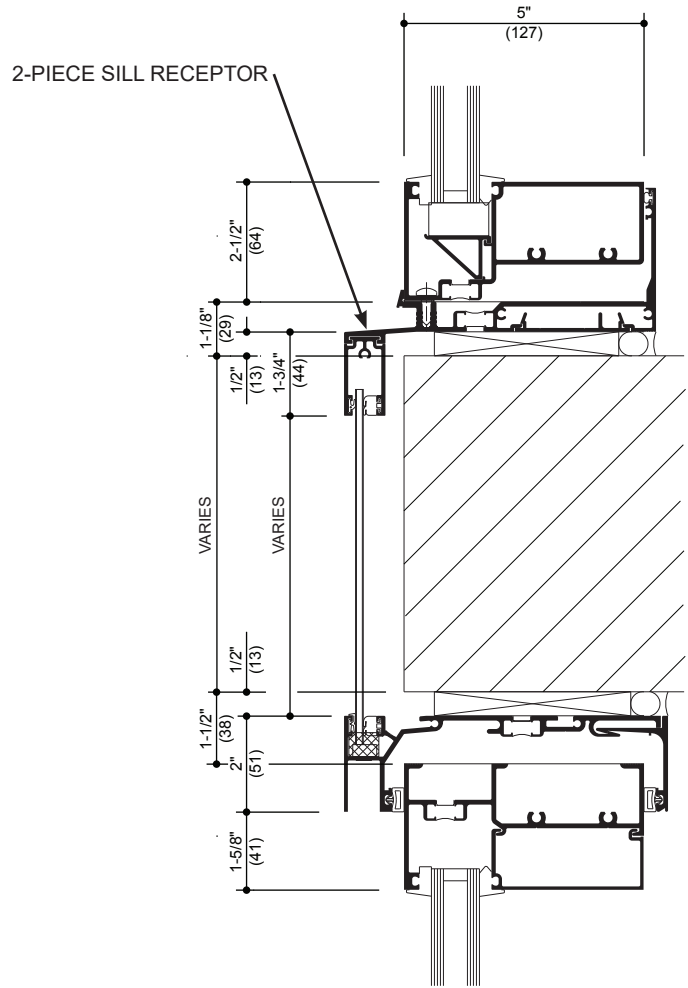
Additional information and CAD details are available at [www.kawneer.com](http://www.kawneer.com)

### VARIABLE SLAB EDGE COVERS (INSIDE GLAZED SHOWN, OUTSIDE GLAZED SIMILAR)

#### STANDARD SILL RECEPTOR WITH ACM PANEL VARIABLE SLAB COVER



#### 2-PIECE SILL RECEPTOR WITH ACM PANEL VARIABLE SLAB COVER

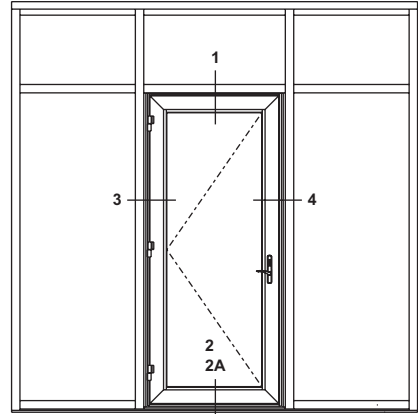
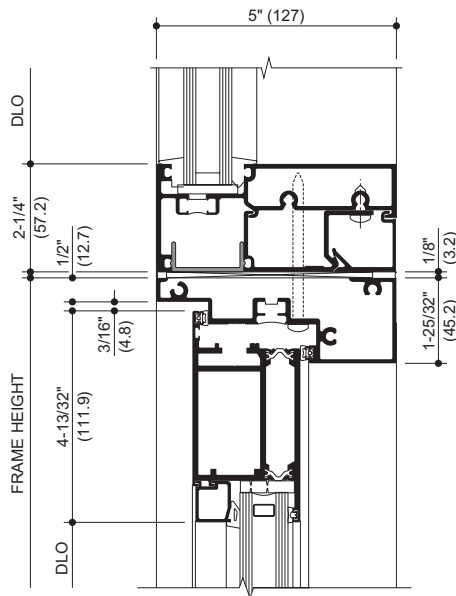


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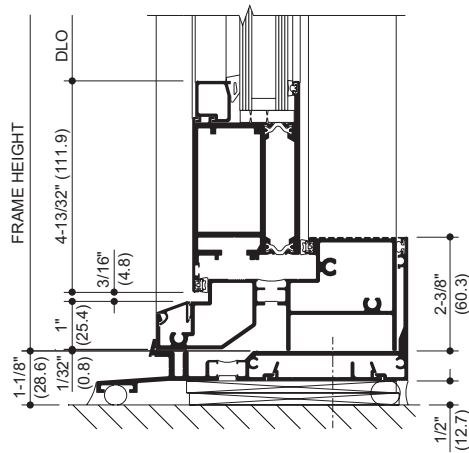
Additional information and CAD details are available at [www.kawneer.com](http://www.kawneer.com)

**1 HEAD**

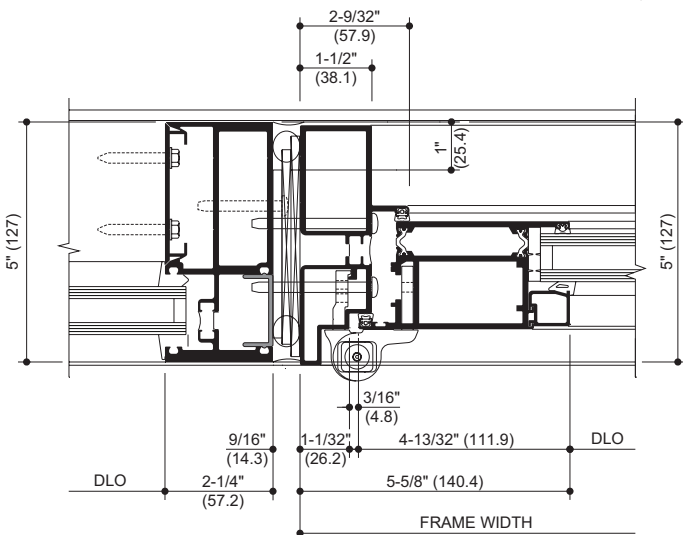
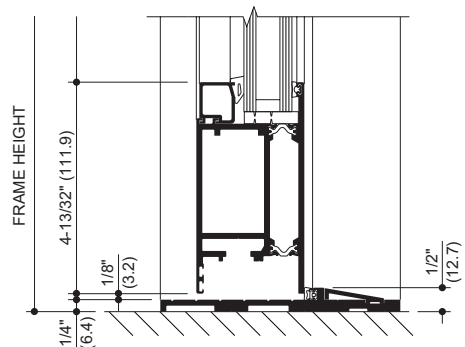


**OUTSWING DOORS & FRAME**

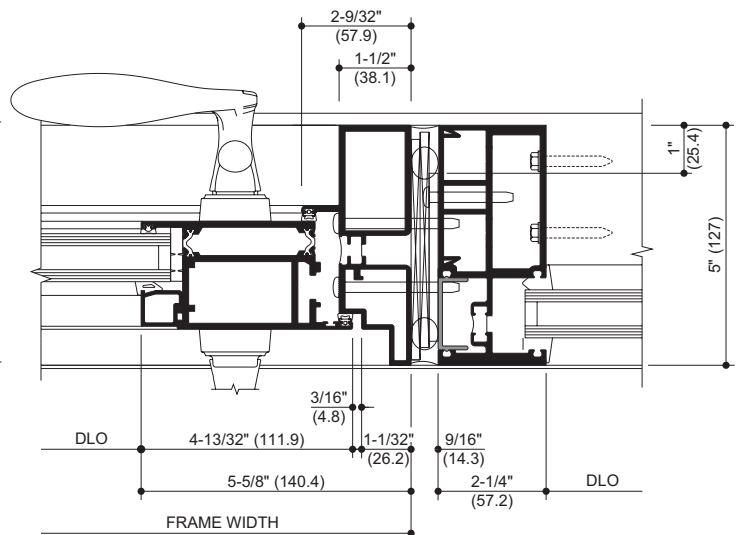
**2 THRESHOLD**



**2 OPTIONAL LOW PROFILE THRESHOLD**



**3 PIVOT JAMB**



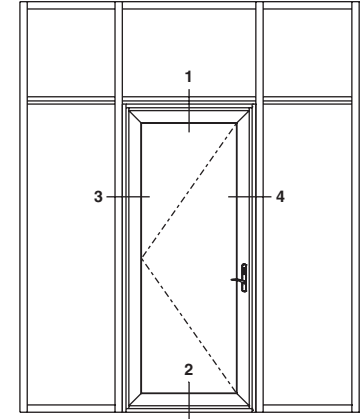
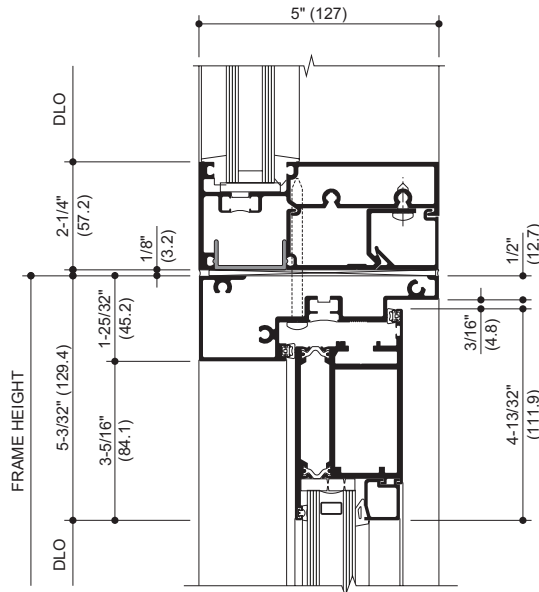
**4 LOCK JAMB AT DEADBOLT/LATCHLOCK**

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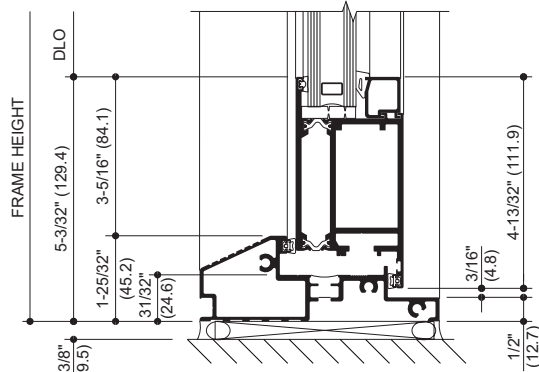
Additional information and CAD details are available at [www.kawneer.com](http://www.kawneer.com)

### 1 HEAD



INSWING DOORS & FRAME

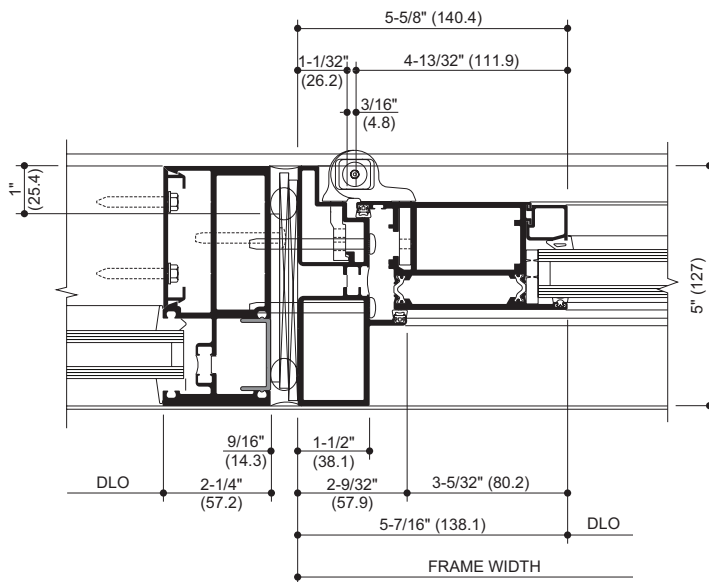
### 2 THRESHOLD



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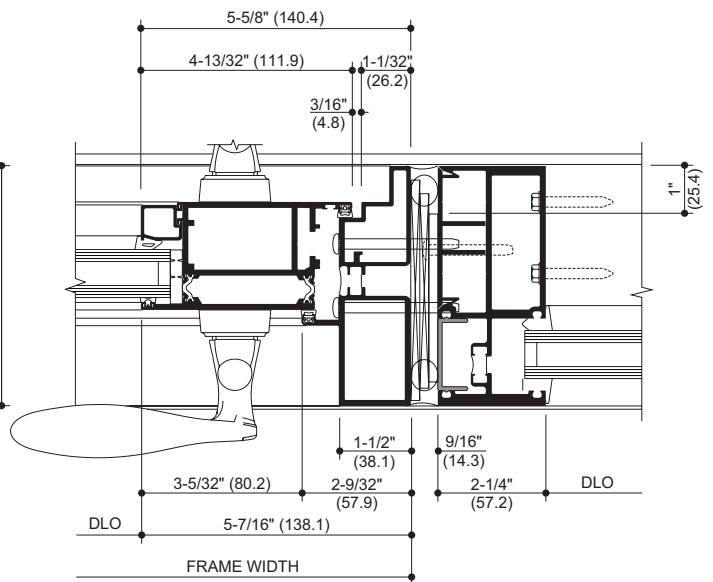
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### 3 PIVOT JAMB



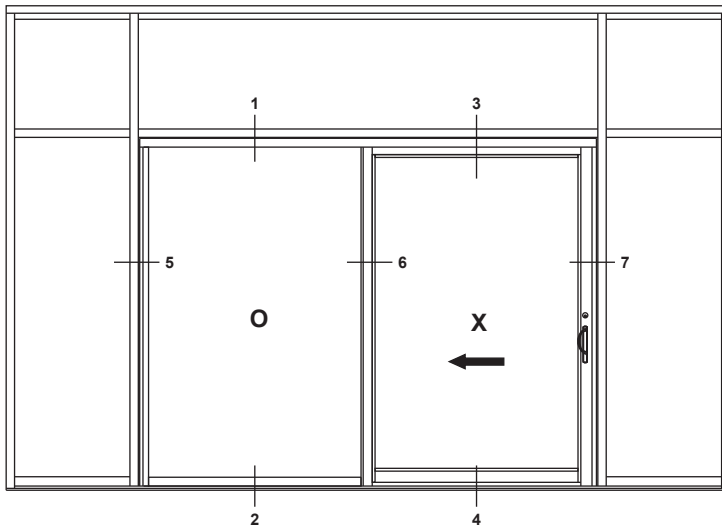
PIVOT JAMB

### 4 LOCK JAMB AT DEADBOLT/LATCHLOCK

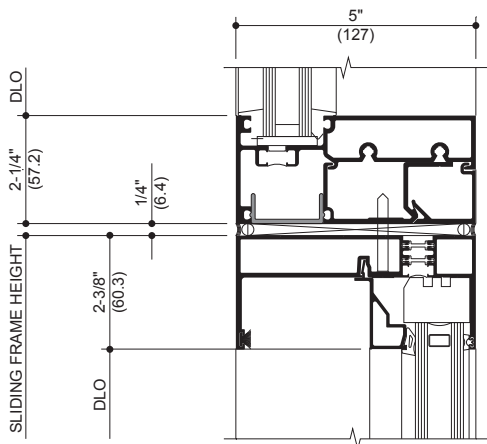


LOCK JAMB AT DEADBOLT/LATCHLOCK

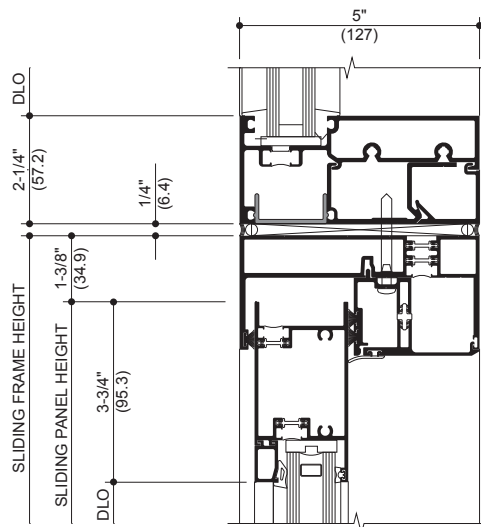
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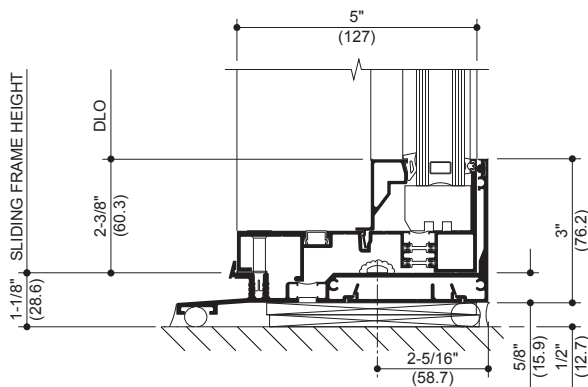
**FG 501T WINDOW WALL WITH AA®3200M THERMAL SLIDING DOOR**



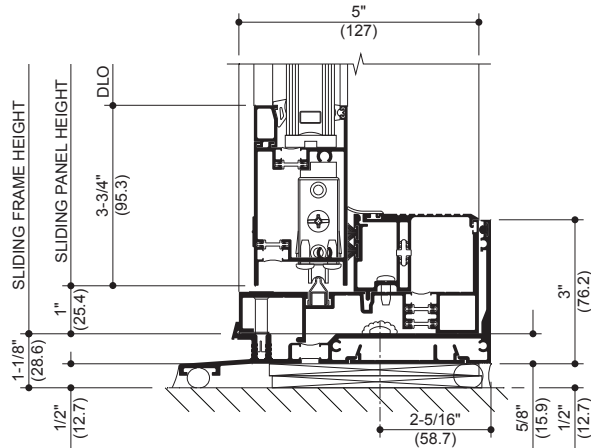
**1**  
**HORIZONTAL HEAD**  
Sliding Door Fixed Panel at Horizontal



**3**  
**SLIDING DOOR**  
Sliding Panel at Horizontal



**2**  
**SLIDING DOOR HORIZONTAL SILL**  
Fixed Panel at Sidelite



**4**  
**SLIDING DOOR HORIZONTAL SILL**  
Sliding Panel at Sidelite

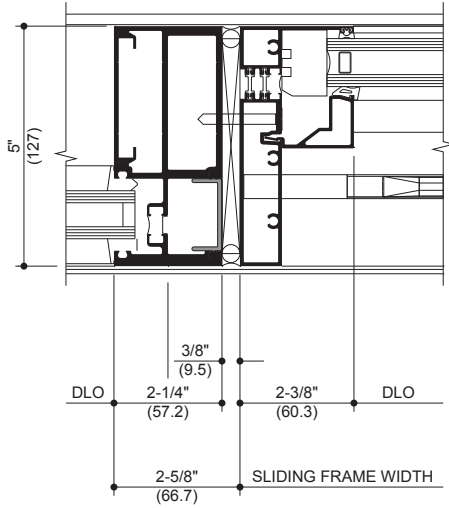
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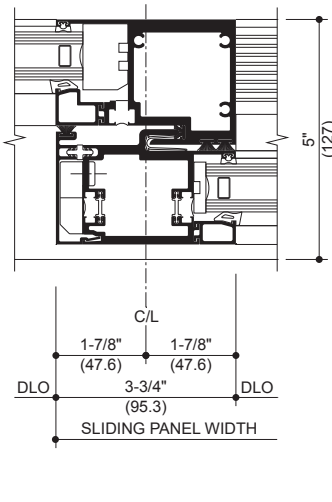
Additional information and CAD details are available at [www.kawneer.com](http://www.kawneer.com)

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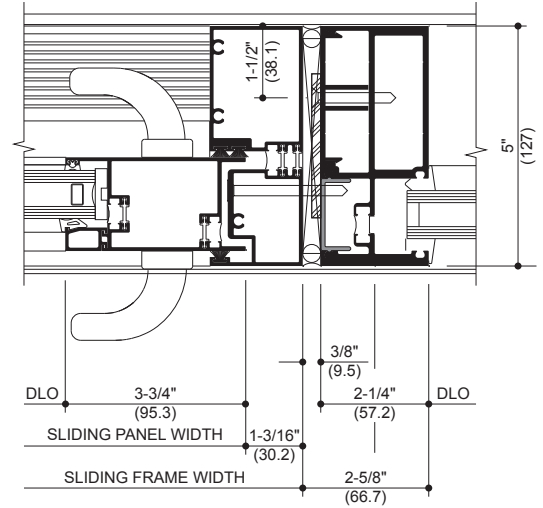
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**5**  
**SLIDING DOOR HEAVY MULLION**  
**Fixed Panel at Vertical**



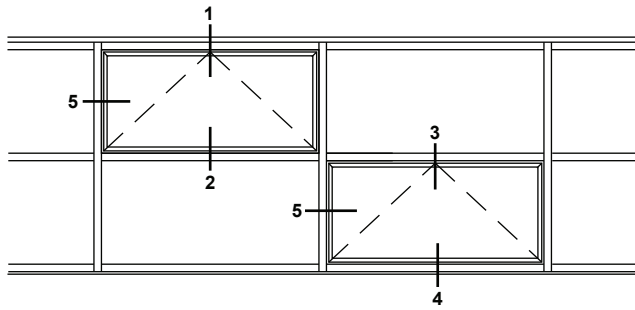
**6**  
**SLIDING DOOR INTERLOCK**  
**Fixed Sliding at Intermediate**



**7**  
**SLIDING DOOR**  
**Sliding Panel at Intermediate**  
**with Std. "D" Pull**

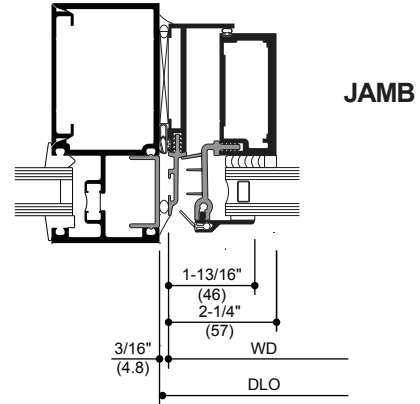
Additional information and CAD details are available at [www.kawneer.com](http://www.kawneer.com)

PROJECT-OUT WINDOW SHOWN  
CASEMENT OUTSWING ALSO AVAILABLE

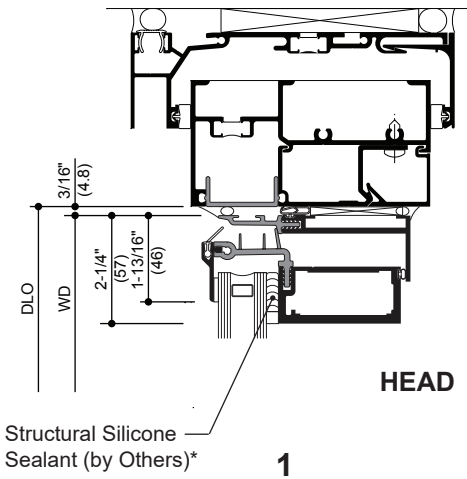


ELEVATION IS NUMBER KEYED TO DETAILS

GLASSvent® UT WINDOWS SHOWN WITH  
INSIDE GLAZED FRAMING MEMBERS,  
OUTSIDE GLAZED SIMILAR

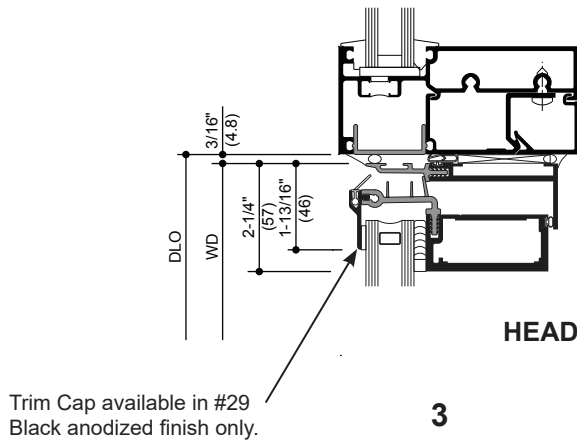


5



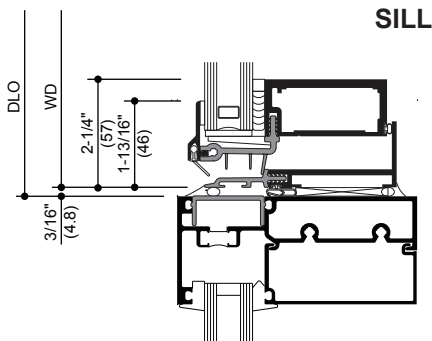
Structural Silicone Sealant (by Others)\*

1

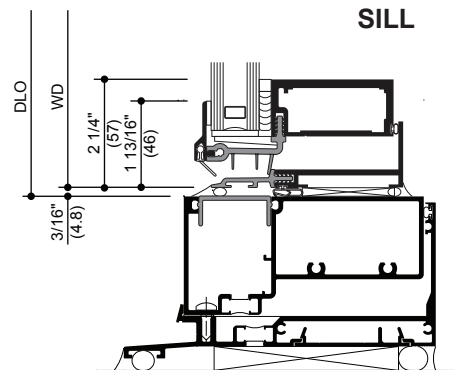


Trim Cap available in #29  
Black anodized finish only.

3



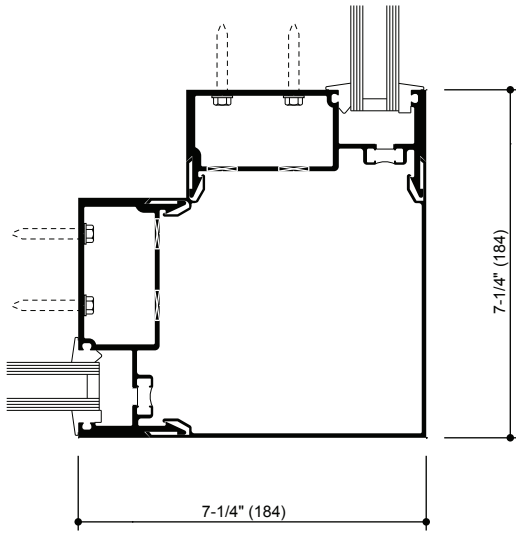
2



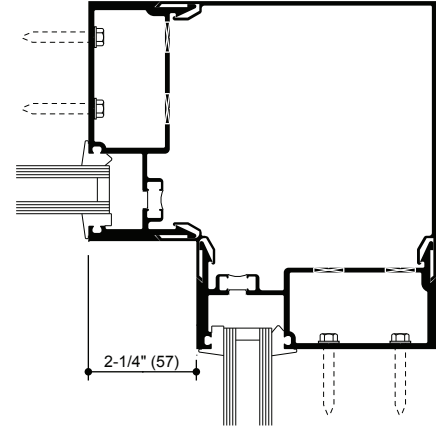
4

\* INSTALLER NOTE: Installer is responsible for all required compatibility review and approvals with the Structural Silicone Manufacturer and the Insulating Glass Unit Manufacturer.

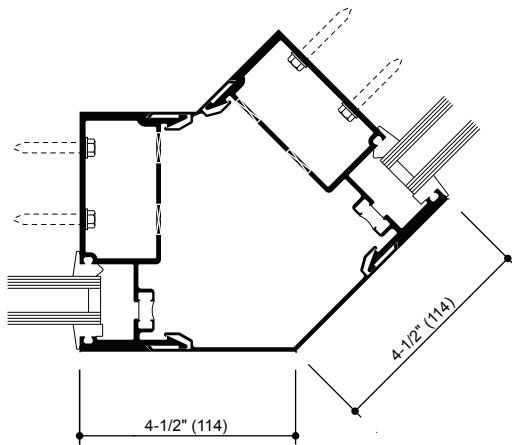
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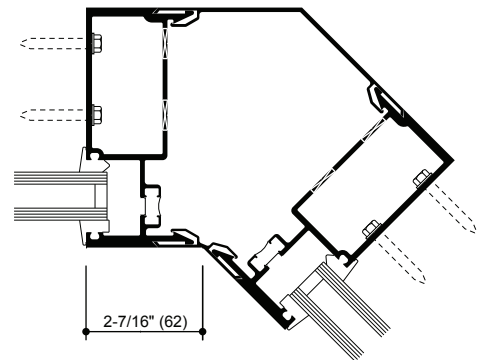
**90° OUTSIDE CORNER**



**90° INSIDE CORNER**



**135° OUTSIDE CORNER**

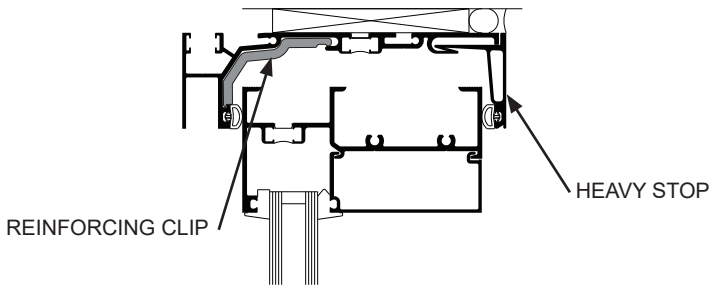


**135° INSIDE CORNER**

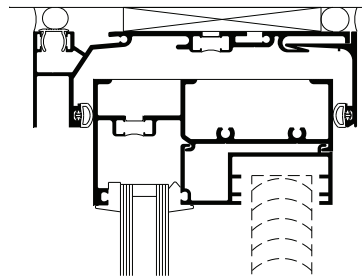
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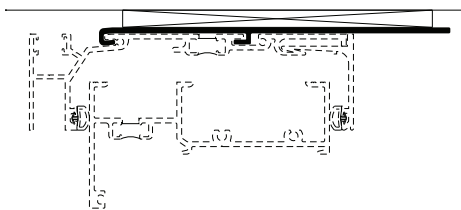
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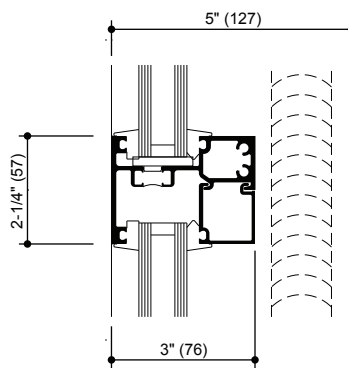
**HEAD WITH REINFORCING CLIP**  
(INSIDE OR OUTSIDE GLAZED)



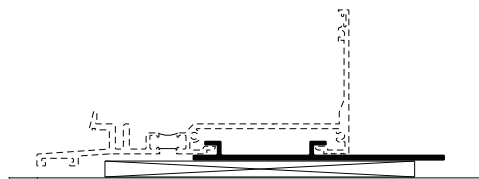
**HEAD WITH BLIND POCKET**  
(INSIDE GLAZED ONLY)



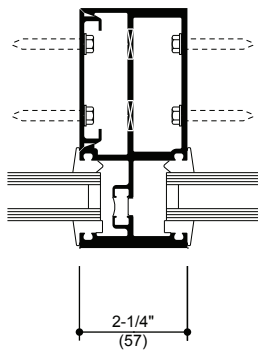
**STRAP ANCHOR AT HEAD**



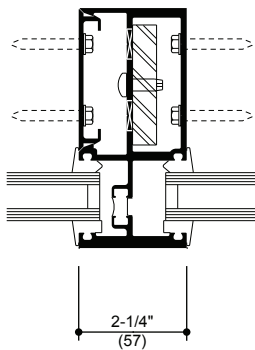
**HORIZONTAL WITH BLIND APPLICATION**  
(INSIDE GLAZED ONLY)



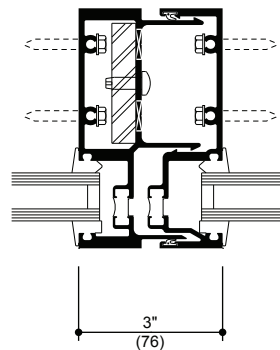
**STRAP ANCHOR AT SILL**



**HEAVY MULLION**



**HEAVY MULLION W/ STEEL REINFORCING**



**EXPANSION MULLION W/ STEEL REINFORCING**

(INSIDE GLAZED SHOWN, OUTSIDE GLAZED SIMILAR)

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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 (104 MPa), STEEL 30,000 psi (207 MPa). 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.

## DEADLOAD CHARTS

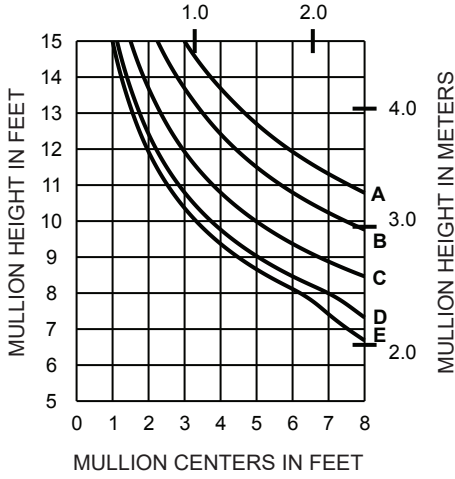
Horizontal or deadload limitations are based upon 1/8" (3.2), maximum allowable deflection at the center of an intermediate horizontal member. The accompanying charts are calculated for 1" (25.4) thick insulating glass or 1/4" (6.4) thick glass supported on two setting blocks placed at the loading points shown.

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**WITH HORIZONTALS**

MULLION CENTERS IN METERS



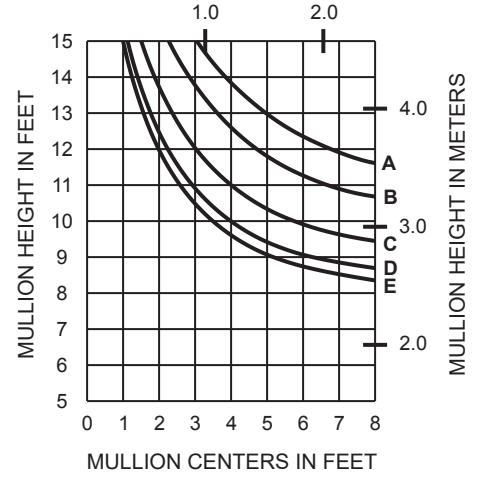
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	15 PSF (720)	25 PSF (1200)
B =	20 PSF (960)	33 PSF (1580)
C =	30 PSF (1440)	50 PSF (2400)
D =	40 PSF (1920)	67 PSF (3200)
E =	45 PSF (2160)	75 PSF (3600)

182003/182101

WINDLOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-A8 AND AAMA 505

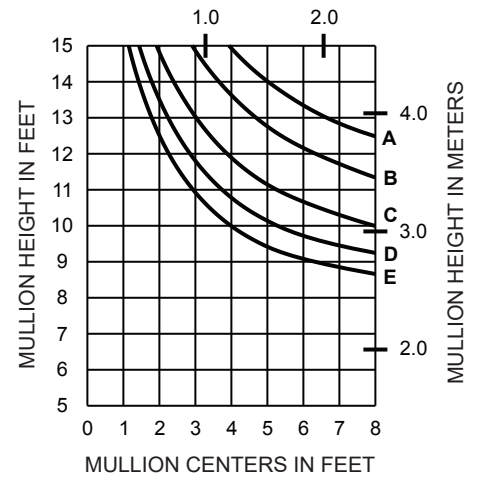
**WITHOUT HORIZONTALS**

MULLION CENTERS IN METERS



**WITHOUT HORIZONTALS**

MULLION CENTERS IN METERS



182003/182102

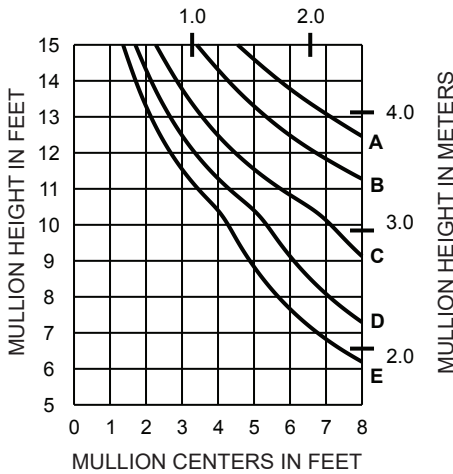
WINDLOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-A8 AND AAMA 505

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**WITH HORIZONTALS**

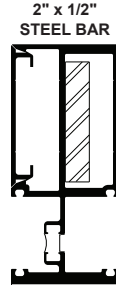
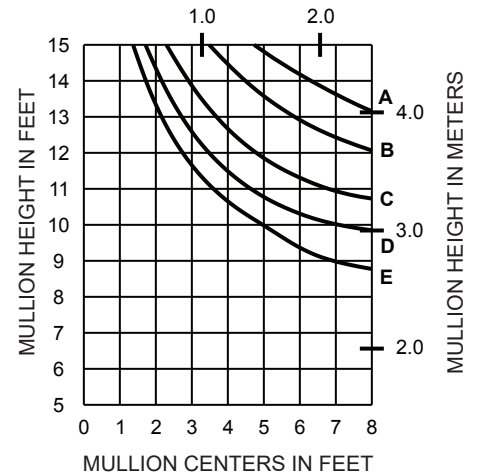
MULLION CENTERS IN METERS



	Allowable Stress Design Load	LRF Ultimate Design Load
A =	15 PSF (720)	25 PSF (1200)
B =	20 PSF (960)	33 PSF (1580)
C =	30 PSF (1440)	50 PSF (2400)
D =	40 PSF (1920)	67 PSF (3200)
E =	45 PSF (2160)	75 PSF (3600)

**WITHOUT HORIZONTALS**

MULLION CENTERS IN METERS



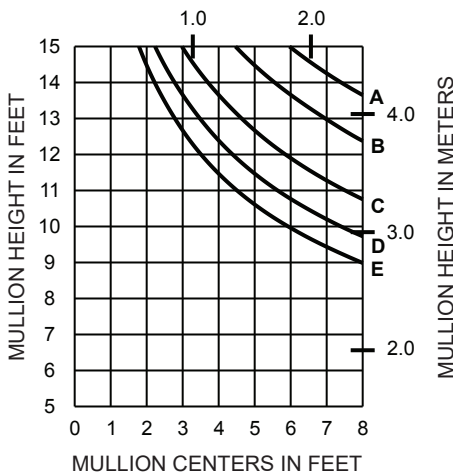
182003/182102

WITH 2" X 1/2" STEEL BAR

WINDLOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-A8 AND AAMA 505

**WITH HORIZONTALS**

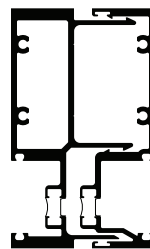
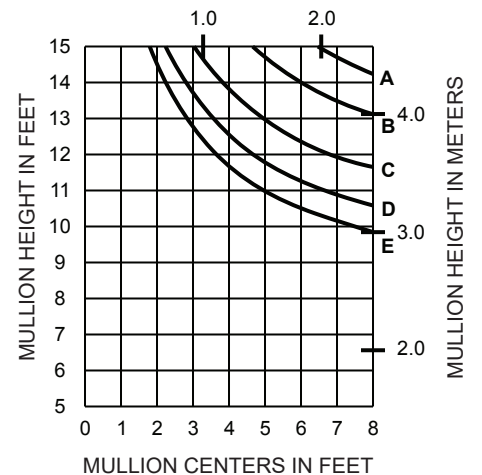
MULLION CENTERS IN METERS



	Allowable Stress Design Load	LRF Ultimate Design Load
A =	15 PSF (720)	25 PSF (1200)
B =	20 PSF (960)	33 PSF (1580)
C =	30 PSF (1440)	50 PSF (2400)
D =	40 PSF (1920)	67 PSF (3200)
E =	50 PSF (2400)	83 PSF (4000)

**WITHOUT HORIZONTALS**

MULLION CENTERS IN METERS

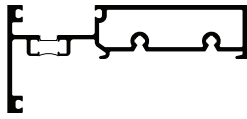


182133/182134

WINDLOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-A8 AND AAMA 505

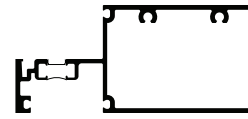
Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

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182111

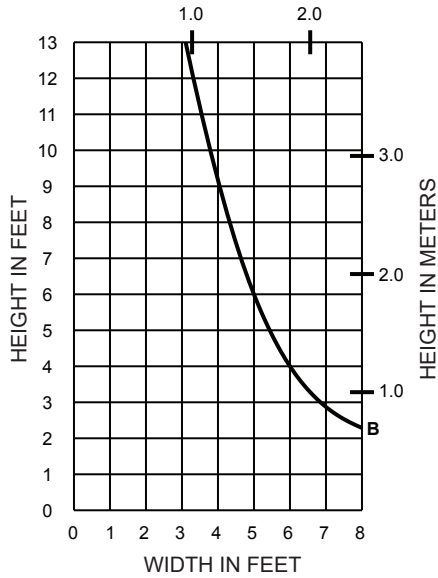
A = 1/4 POINT LOADING  
B = 1/8 POINT LOADING



182112

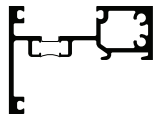
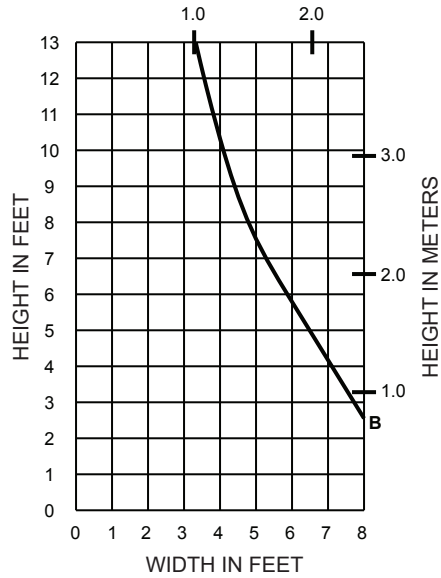
(1" INFILL)

WIDTH IN METERS



(1" INFILL)

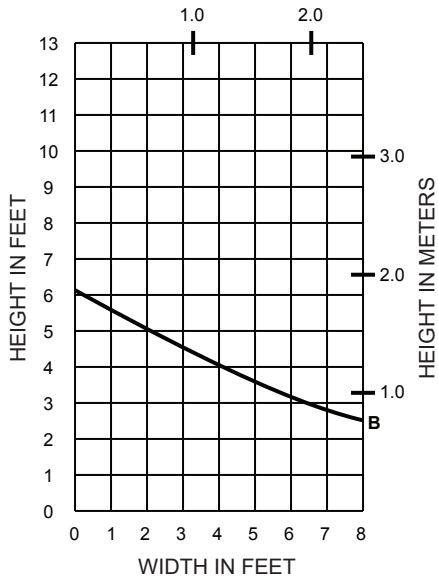
WIDTH IN METERS



182116

(1" INFILL)

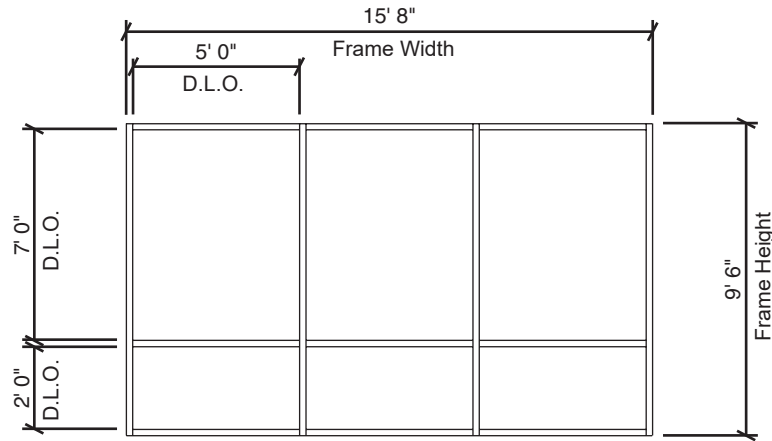
WIDTH IN METERS



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**Generic Project Specific U-factor Example Calculation**  
 (Percent of Glass will vary on specific products depending on sitelines)  
 (Based on single bay of Window Wall)



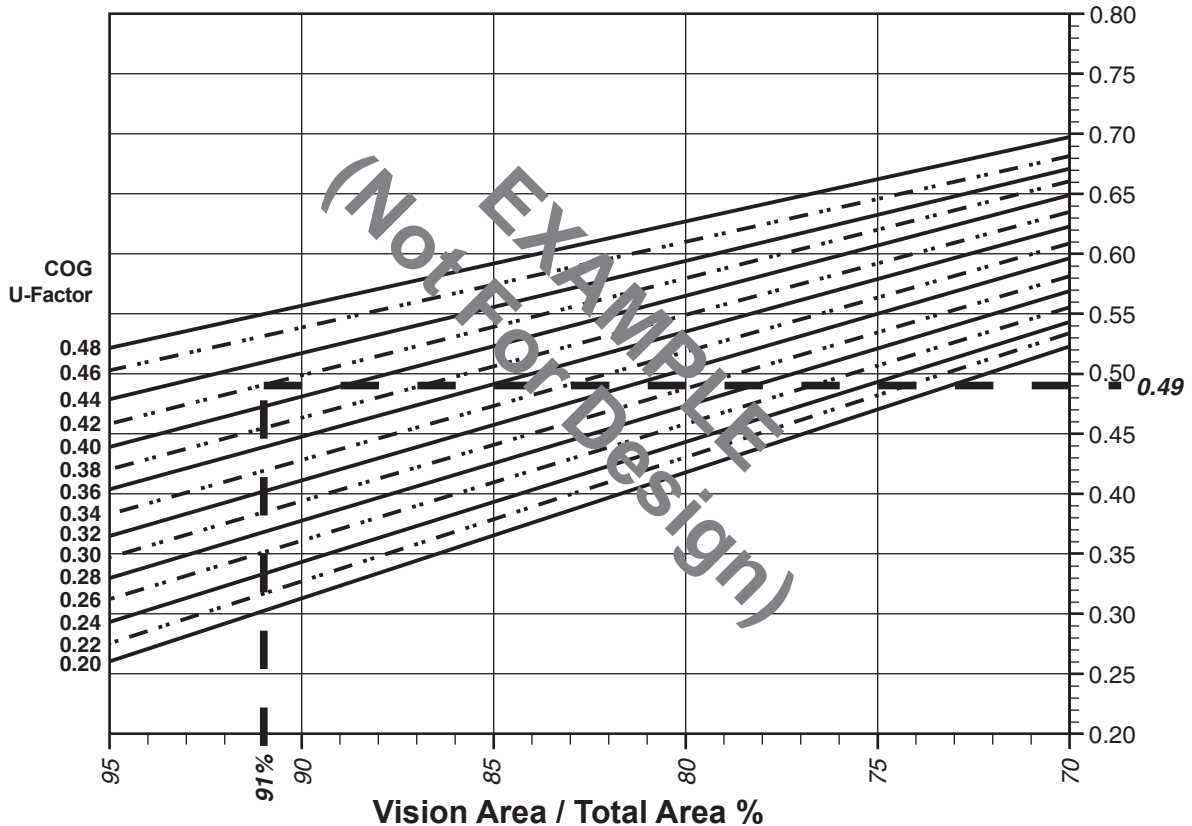
Example Glass U-Factor = 0.42 Btu/hr x ft<sup>2</sup> x °F

Total Daylight Opening = 3(5' x 7') + 3(5' x 2') = 135 ft<sup>2</sup>

Total Projected Area = (Total Daylight Opening + Total Area of Framing System)  
 = 15' 8" x 9' 6" = 148.83 ft<sup>2</sup>

Percent of Glass = (Total Daylight Opening ÷ Total Projected Area)  
 = (135 ÷ 148.83)100 = 91%

**System U-Factor vs Percent of Glass Area**



Based on 91% glass and center of glass U-Factor of 0.42  
 System U-Factor is equal to 0.49 Btu/hr x ft<sup>2</sup> x °F

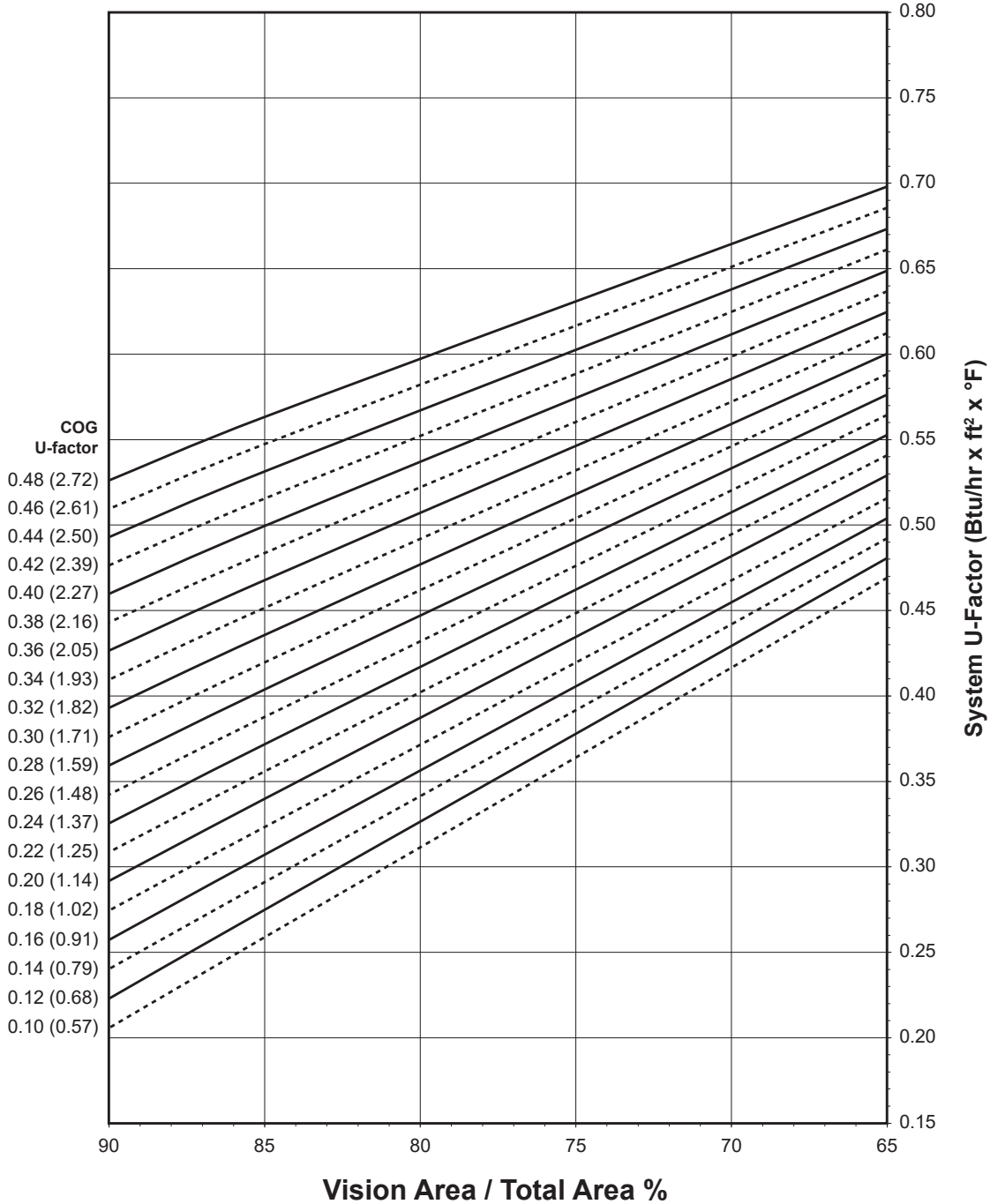
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**MetroView® FG 501T Window Wall  
1" Double Glazed - Warm-Edge Glazing Spacer**

Note:  
Values in parentheses are metric.  
COG=Center of Glass.  
Charts are generated per AAMA 507.

**System U-Factor vs Percent of Glass Area**



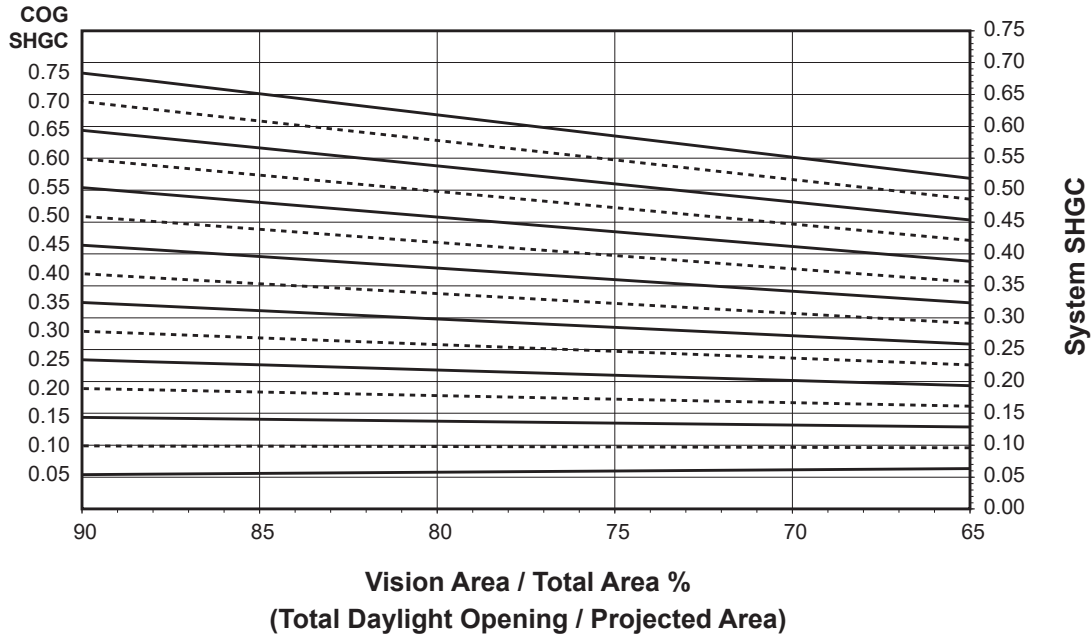
**Notes for System Y-Factor, Shgc and VT charts:**  
For glass values that are not listed, linear interpolation is permitted.  
Glass properties are base on center of glass values and are obtained from your glass supplier.

Laws and building and safety codes governing the design and use of Kawneer products, such as 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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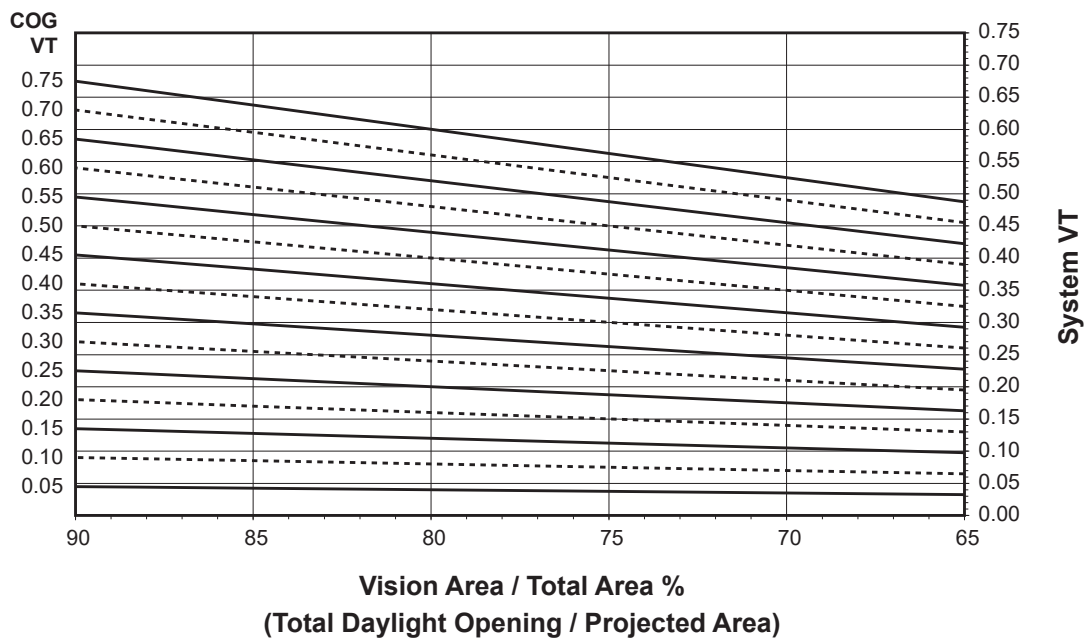
MetroView® FG 501T Window Wall  
1" Double Glazed - Warm-Edge Glazing Spacer

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



Charts are generated per AAMA 507

Visible Transmittance (VT) vs Percent of Vision Area



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**Thermal Transmittance** <sup>1</sup> (BTU/hr • ft<sup>2</sup> • °F)

Glass U-Factor <sup>3</sup>	Overall U-Factor <sup>4</sup>
0.48	0.56
0.46	0.55
0.44	0.53
0.42	0.52
0.40	0.50
0.38	0.48
0.36	0.47
0.34	0.45
0.32	0.44
0.30	0.42
0.28	0.40
0.26	0.39
0.24	0.37
0.22	0.36
0.20	0.34
0.18	0.32
0.16	0.31
0.14	0.29
0.12	0.28
0.10	0.26

**MetroView® FG 501T Window Wall**  
**1" Double Glazed**  
**Warm-Edge Glazing Spacer**

**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 2,000 mm wide by 2,000 mm high (78-3/4" by 78-3/4").

**SHGC Matrix** <sup>2</sup>

Glass SHGC <sup>3</sup>	Overall SHGC <sup>4</sup>
0.75	0.65
0.70	0.61
0.65	0.57
0.60	0.52
0.55	0.48
0.50	0.44
0.45	0.40
0.40	0.35
0.35	0.31
0.30	0.27
0.25	0.23
0.20	0.18
0.15	0.14
0.10	0.10
0.05	0.06

**Visible Transmittance** <sup>2</sup>

Glass VT <sup>3</sup>	Overall VT <sup>4</sup>
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
0.15	0.13
0.10	0.08
0.05	0.04

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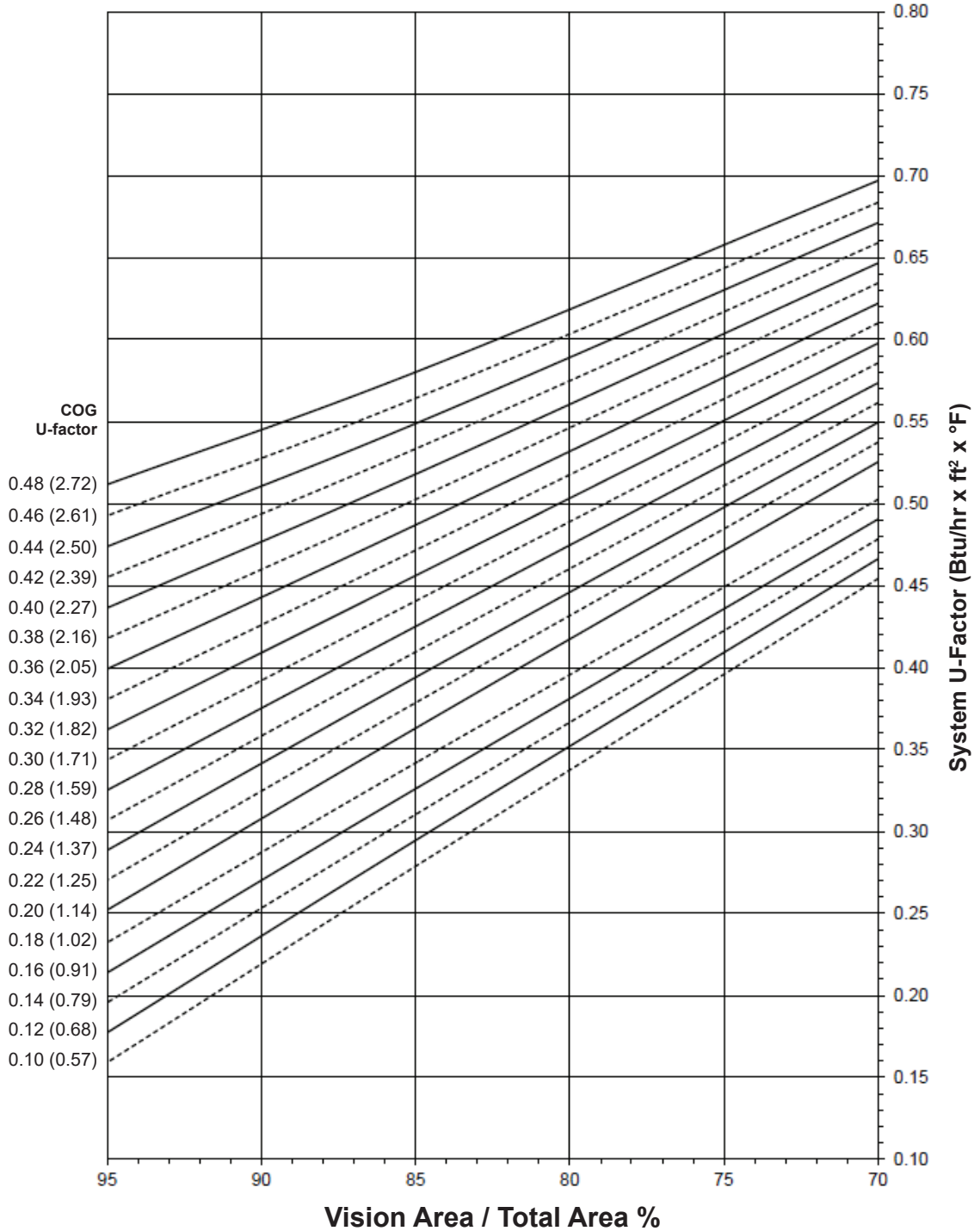
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### MetroView® FG 501T Window Wall 1" Double Glazed - Aluminum Glazing Spacer

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 Y-Factor, Shgc and VT charts:

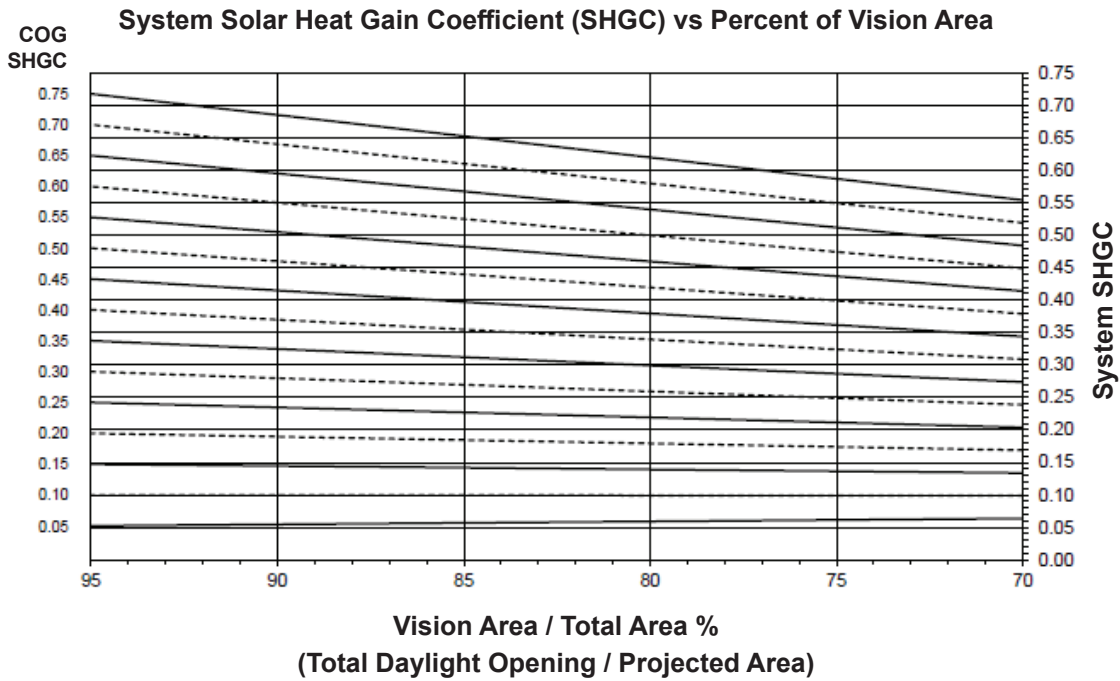
For glass values that are not listed, linear interpolation is permitted.

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

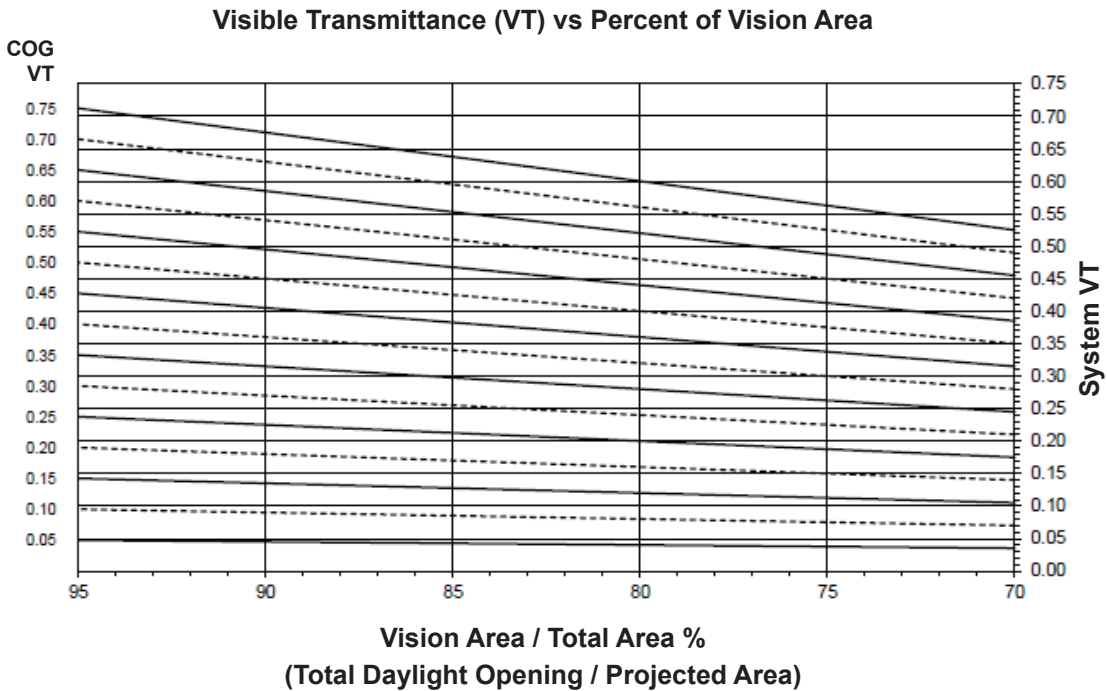
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## MetroView® FG 501T Window Wall 1" Double Glazed - Aluminum Glazing Spacer



Charts are generated per AAMA 507



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**Thermal Transmittance <sup>1</sup> (BTU/hr • ft <sup>2</sup> • °F)**

Glass U-Factor <sup>3</sup>	Overall U-Factor <sup>4</sup>
0.48	0.58
0.46	0.56
0.44	0.55
0.42	0.53
0.40	0.52
0.38	0.50
0.36	0.49
0.34	0.47
0.32	0.46
0.30	0.44
0.28	0.43
0.26	0.41
0.24	0.39
0.22	0.38
0.20	0.36
0.18	0.34
0.16	0.33
0.14	0.31
0.12	0.30
0.10	0.28

**MetroView® FG 501T Window Wall  
1" Double Glazed  
Aluminum Glazing Spacer**

**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 2,000 mm wide by 2,000 mm high (78-3/4" by 78-3/4").

**SHGC Matrix <sup>2</sup>**

Glass SHGC <sup>3</sup>	Overall SHGC <sup>4</sup>
0.75	0.65
0.70	0.61
0.65	0.57
0.60	0.52
0.55	0.48
0.50	0.44
0.45	0.40
0.40	0.35
0.35	0.31
0.30	0.27
0.25	0.23
0.20	0.18
0.15	0.14
0.10	0.10
0.05	0.06

**Visible Transmittance <sup>2</sup>**

Glass VT <sup>3</sup>	Overall VT <sup>4</sup>
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
0.15	0.13
0.10	0.08
0.05	0.04

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## CONDENSATION RESISTANCE

Glazing Infill	Condensation Resistance Factor (CRF) AAMA 1503		Temperature Index (TI) CSA A440-0	
	Frame	Glass	Frame	Glass
1" Double	69	68	---	---

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