

## **Features**

- High performance curtain wall, ground-floor framing and entrance system, or horizontal strip window
- 24mm and 49mm IsoWeb® glass-reinforced nylon thermal break provides:
  - Excellent condensation resistance
  - Ultra low thermal transmittance U-values
  - Rigid profiles with composite structural performance
- 7525 framing accommodates 25mm high performance double sealed units
- 7550 framing accommodates 50mm high performance triple sealed units
- EPDM sponge interior and EPDM rubber exterior gaskets (dry/dry glazing)
- Meets or exceeds the highest levels of CSA standard CAN/CSA-A440) Windows and AAMA 507
- Fully pressure equalized, rain screen design
- Simple stick, shear block, pressure plate construction
- Door adaptors for thermal entrances
- Two color option
- Permanodic® anodized finishes option
- Painted finishes in standard and custom choices

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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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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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:

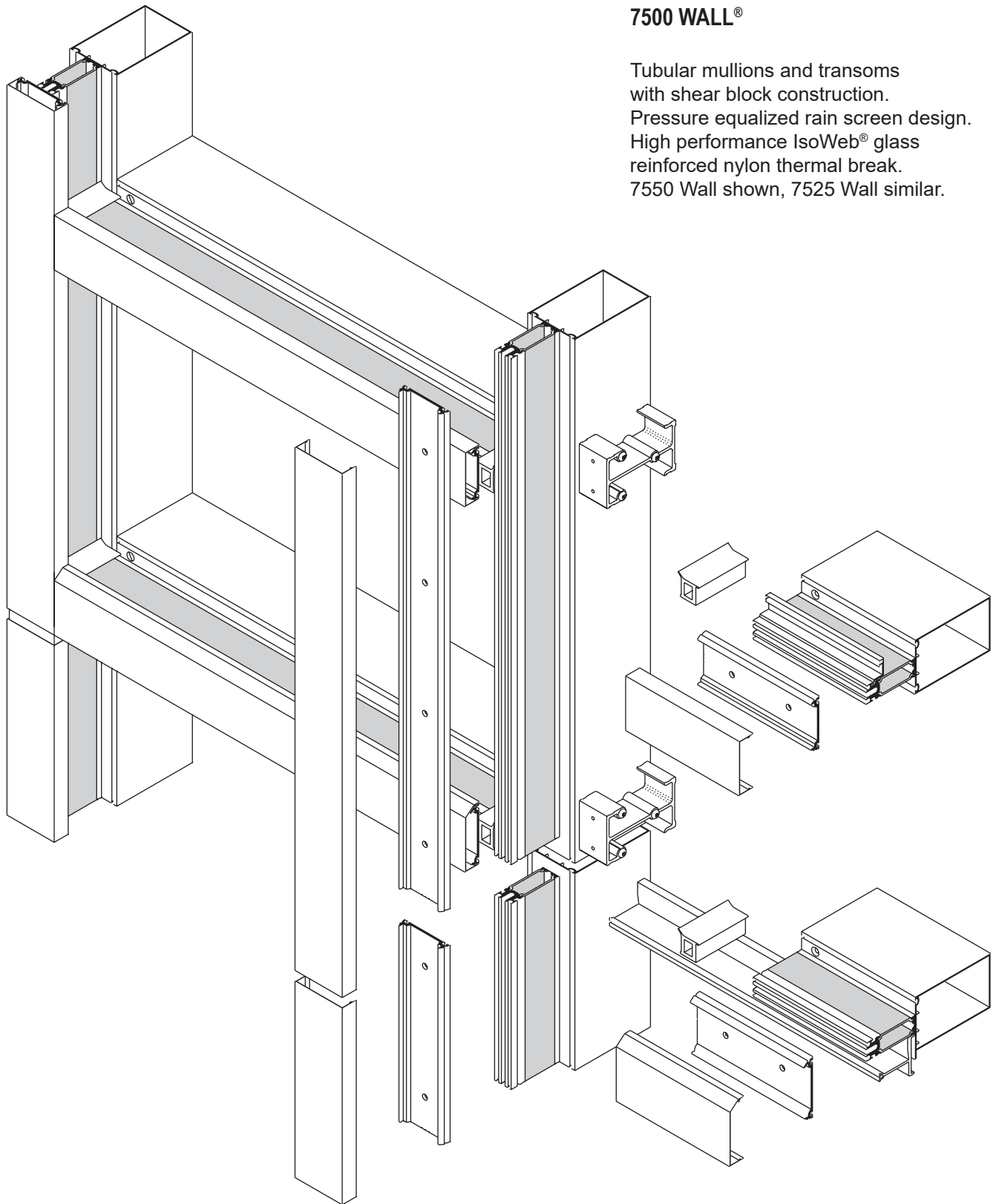
- m – meter
- cm – centimeter
- mm – millimeter
- s – second
- Pa – pascal
- MPa – megapascal

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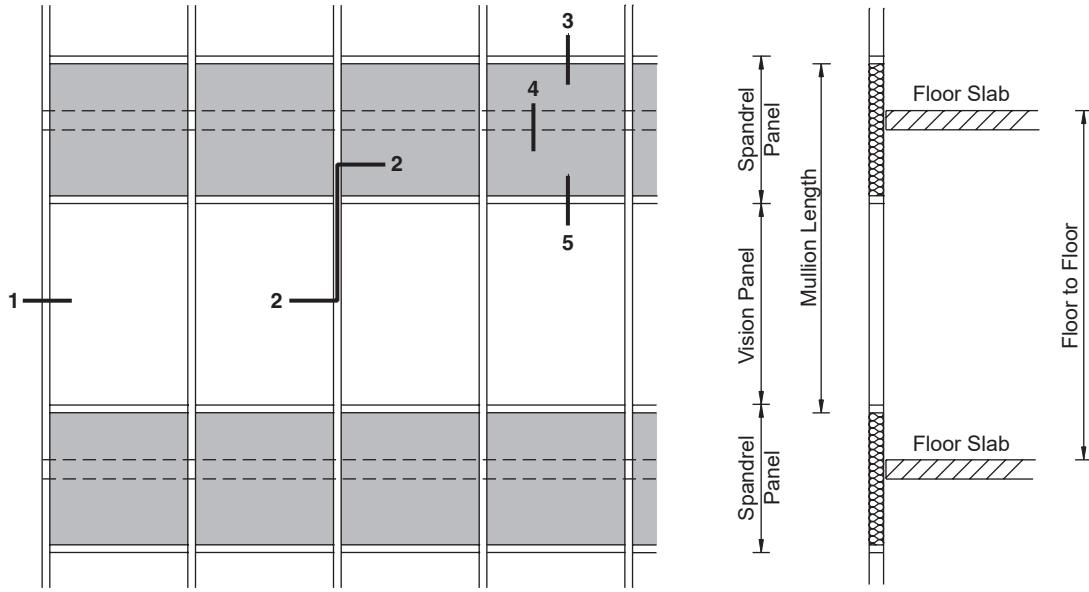
## 7500 WALL®

Tubular mullions and transoms with shear block construction. Pressure equalized rain screen design. High performance IsoWeb® glass reinforced nylon thermal break. 7500 Wall shown, 7525 Wall similar.

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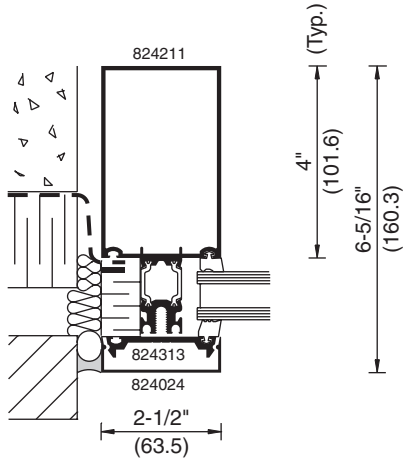


ELEVATION IS NUMBER KEYED TO DETAILS

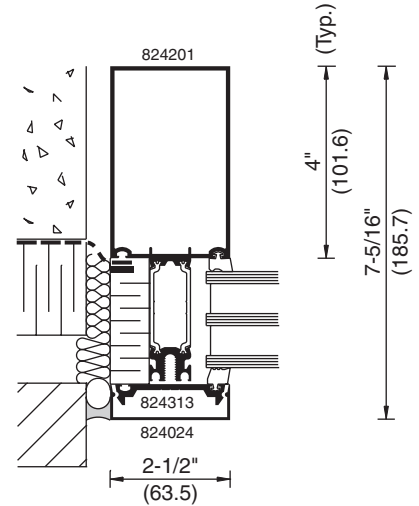
### 7525 - 25mm DOUBLE GLAZED

### 7550 - 50mm TRIPLE GLAZED

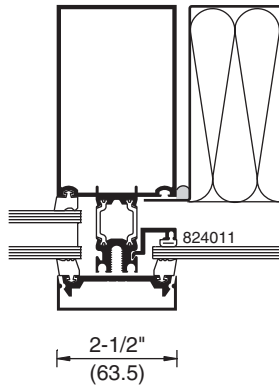
1  
JAMB



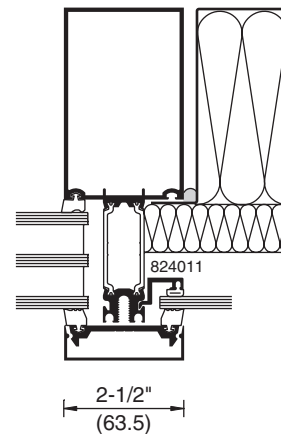
1  
JAMB



2  
MULLION



2  
MULLION



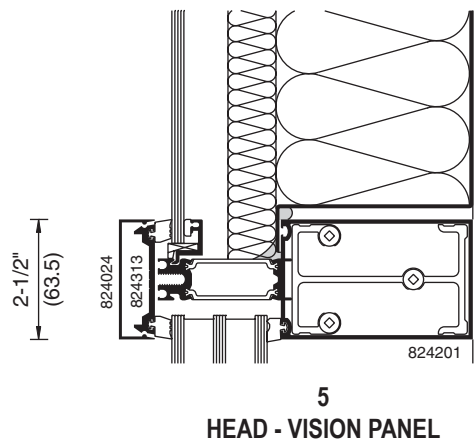
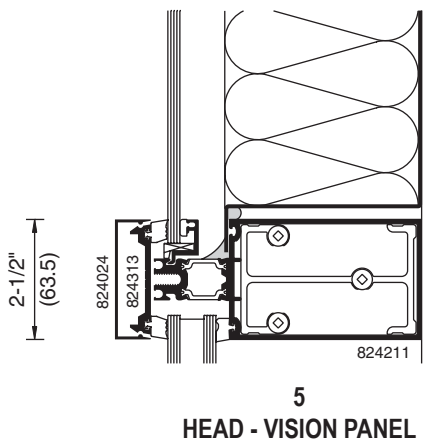
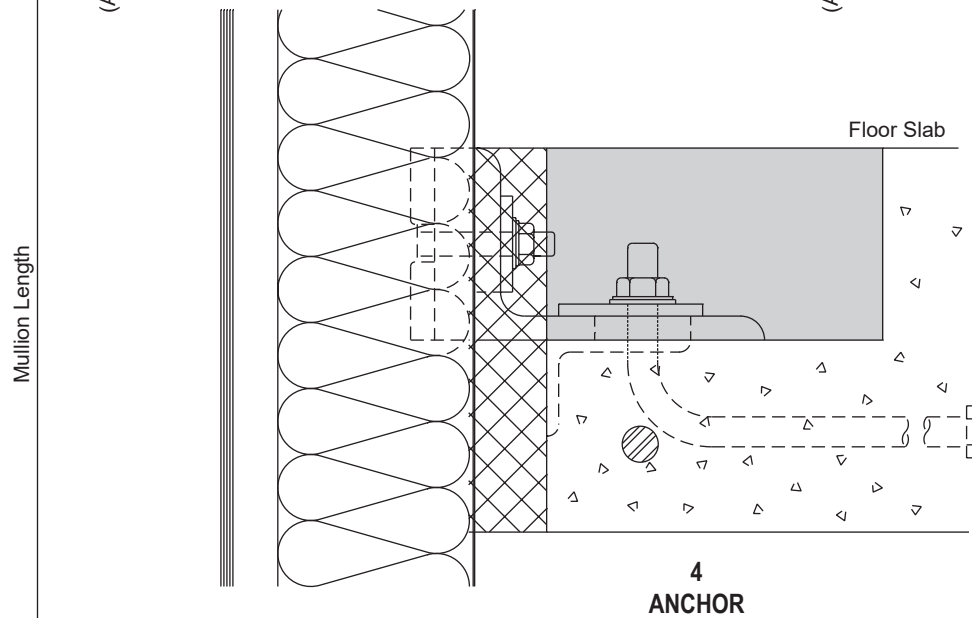
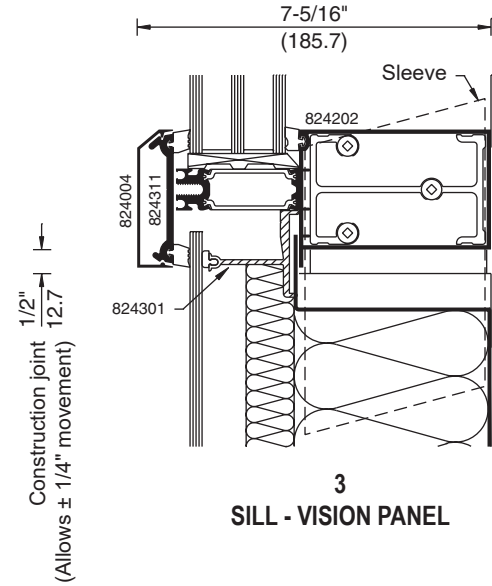
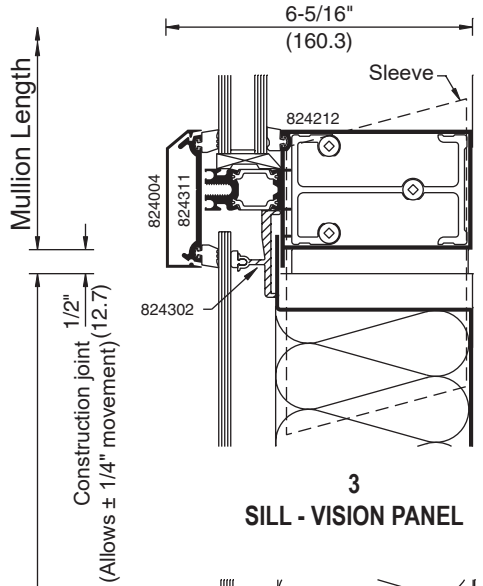
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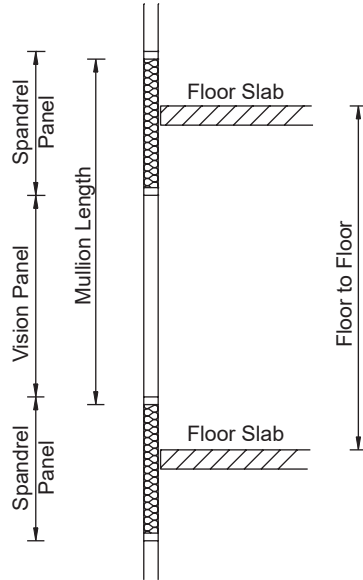
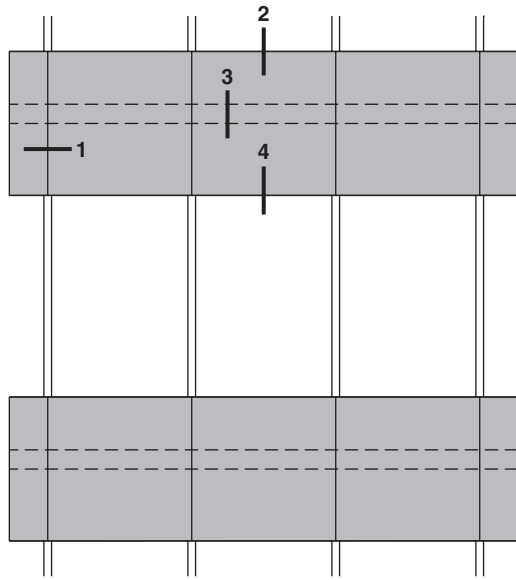
### 7550 - 50mm TRIPLE GLAZED



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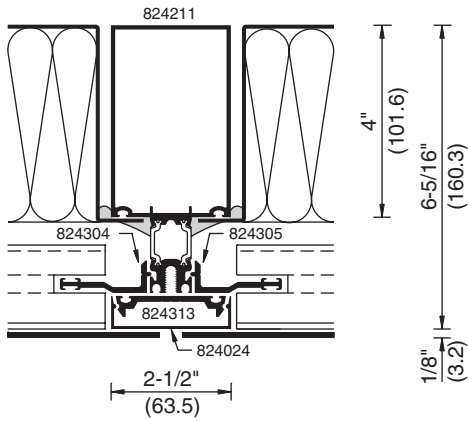
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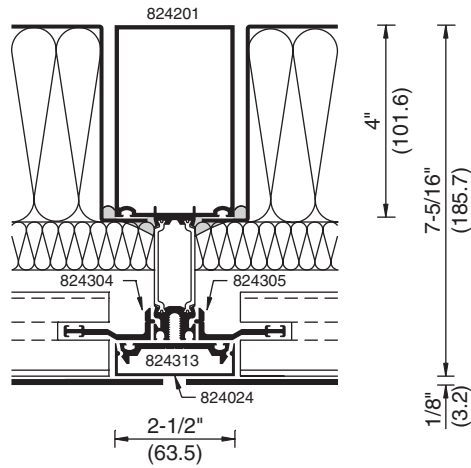
ELEVATION IS NUMBER KEYED TO DETAILS

### 7525 - 25mm DOUBLE GLAZED



1  
MULLION

### 7550 - 50mm TRIPLE GLAZED



1  
MULLION

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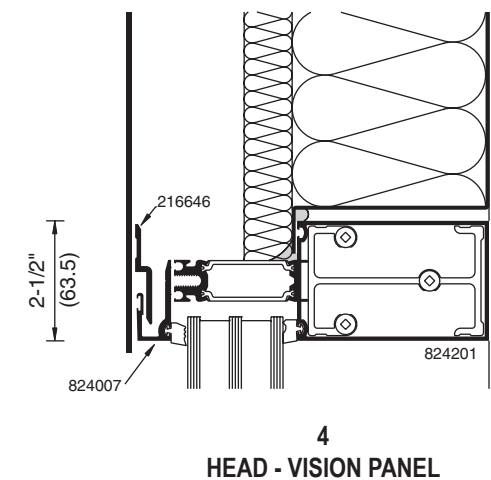
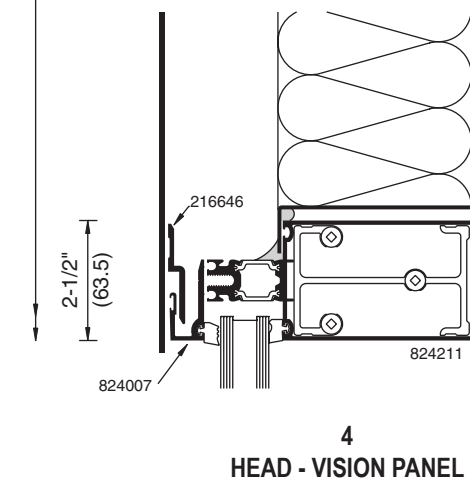
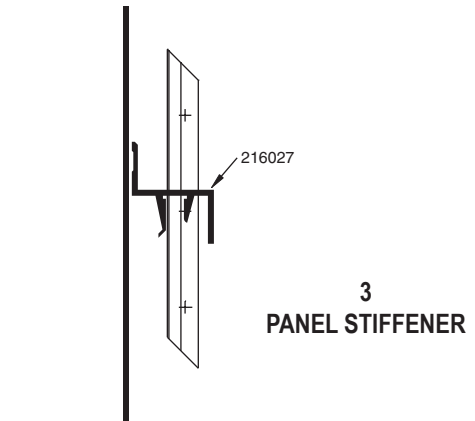
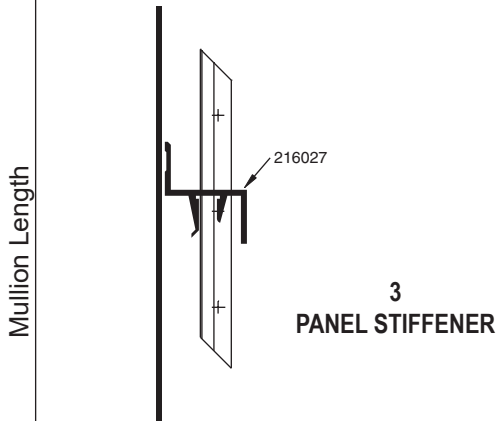
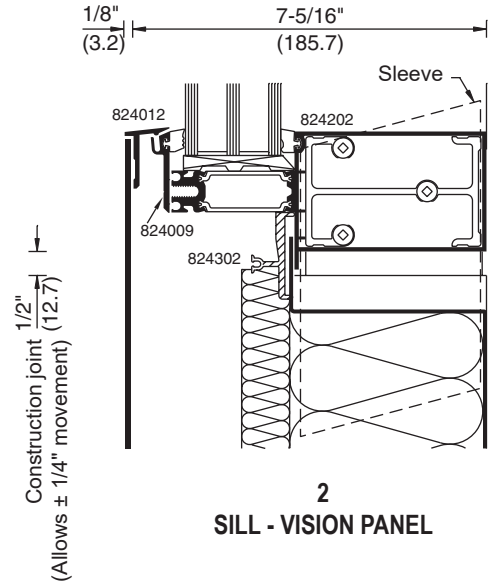
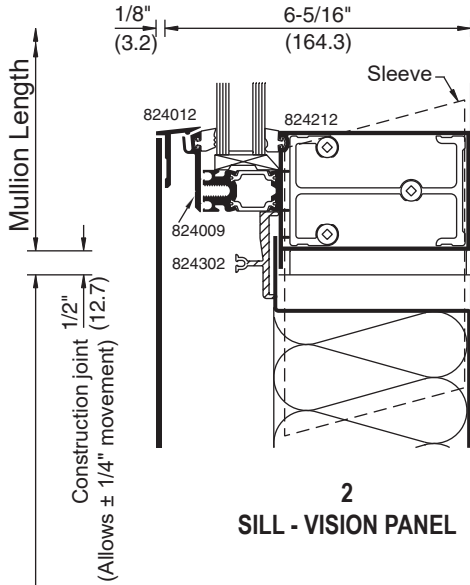
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### 7525 - 25mm DOUBLE GLAZED

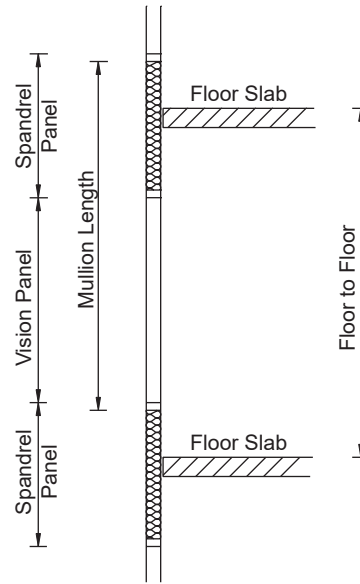
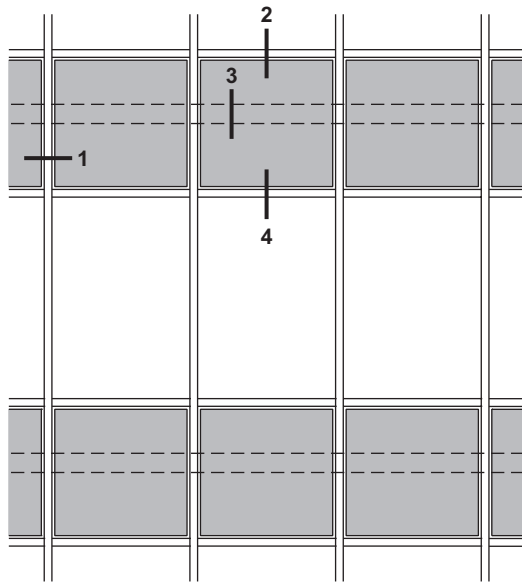
### 7550 - 50mm TRIPLE GLAZED



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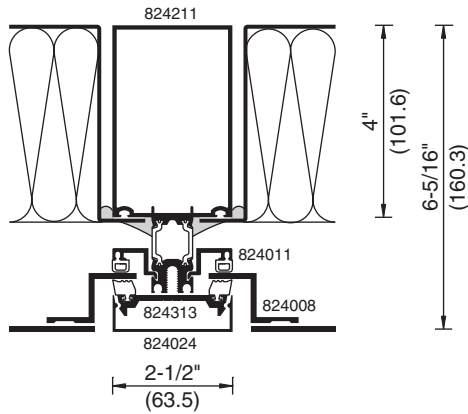
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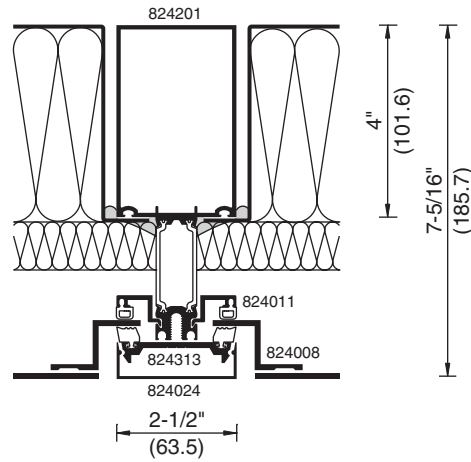
ELEVATION IS NUMBER KEYED TO DETAILS

### 7525 - 25mm DOUBLE GLAZED



1  
MULLION

### 7550 - 50mm TRIPLE GLAZED



1  
MULLION

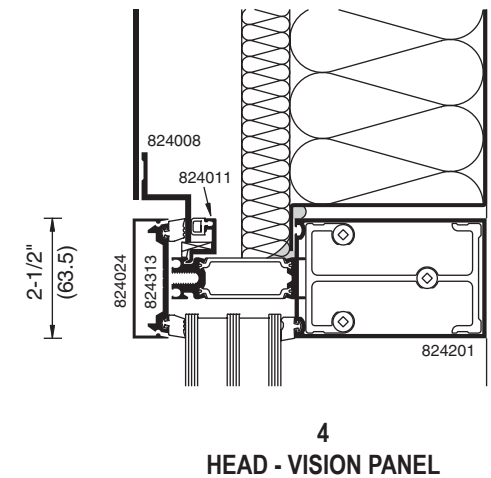
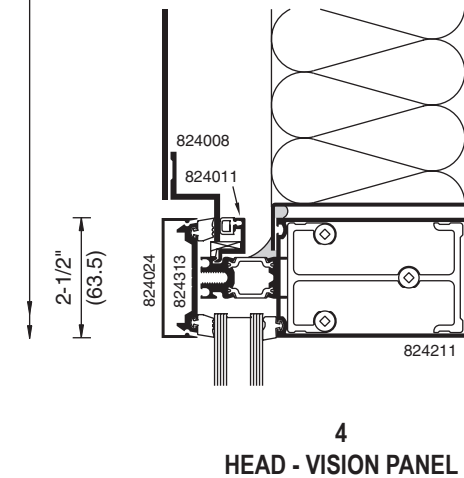
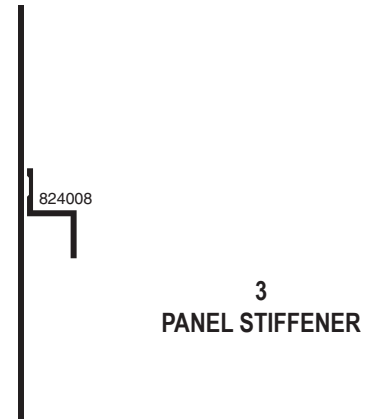
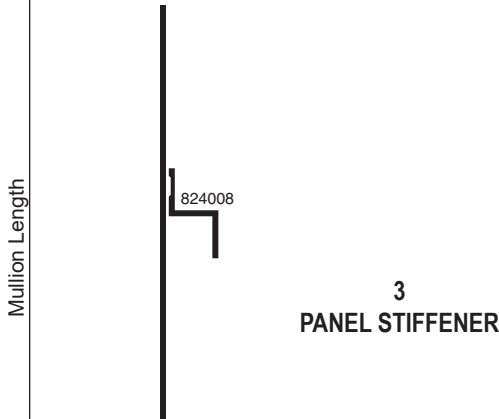
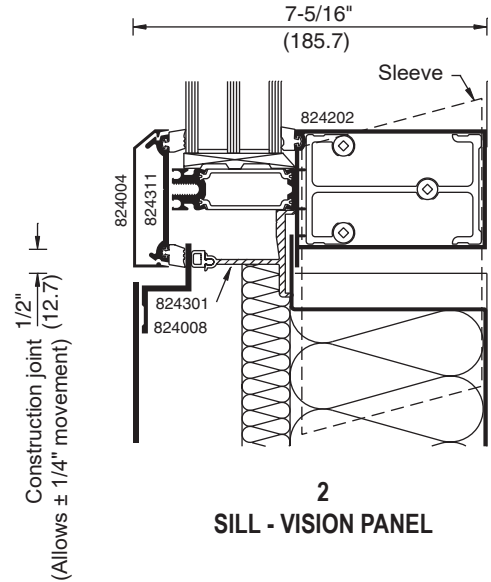
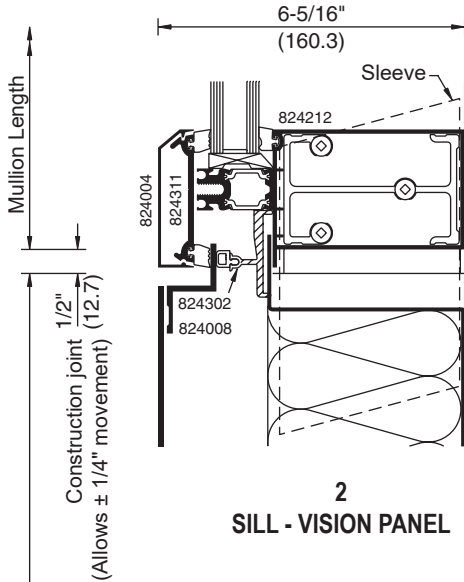
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### 7525 - 25mm DOUBLE GLAZED

### 7550 - 50mm TRIPLE GLAZED

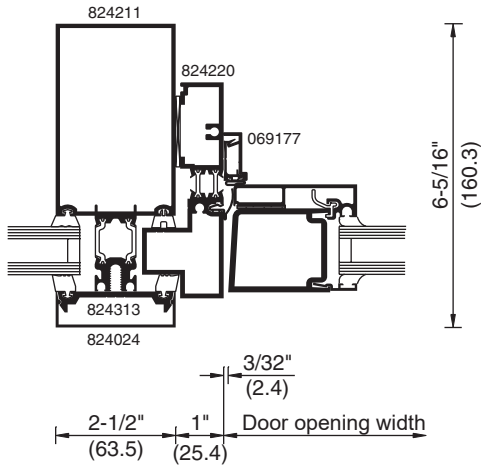


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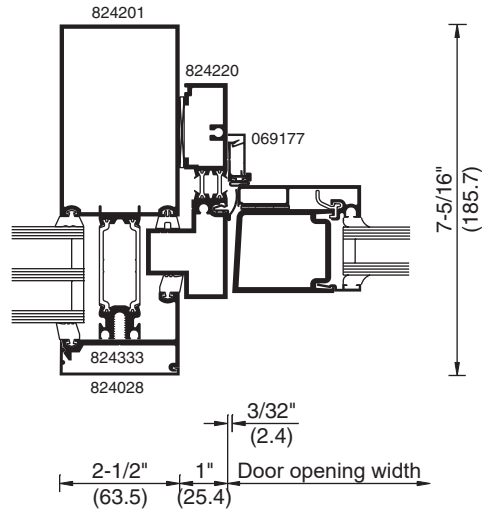
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**7525 - 25mm DOUBLE GLAZED**  
(Shown with 260 Insulclad® Thermal Entrance)

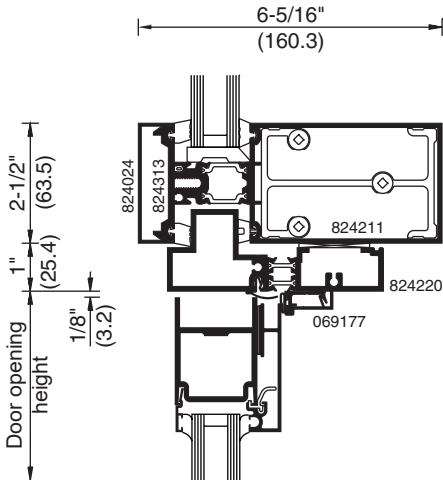


**1**  
**DOOR JAMB**  
**OFFSET PIVOT OR BUTT HUNG**

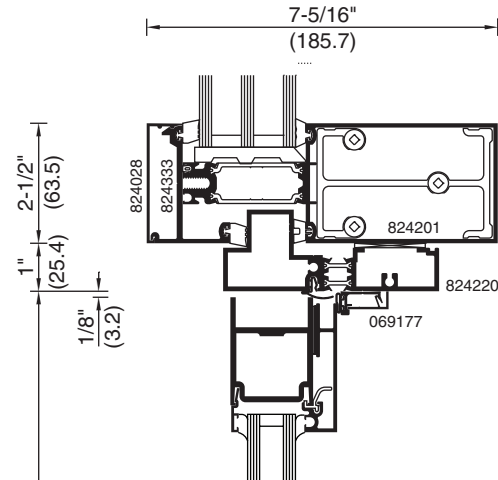
**7550 - 50mm TRIPLE GLAZED**  
(Shown with 260 Insulclad® Thermal Entrance)



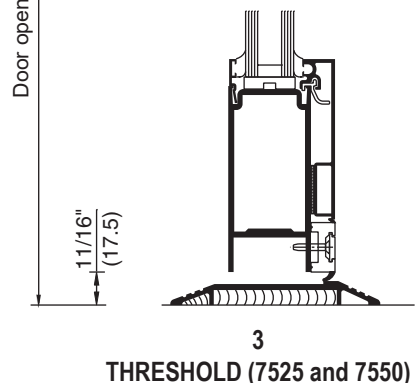
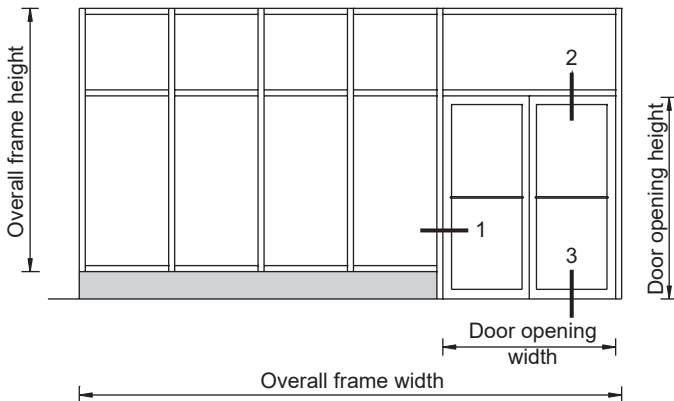
**1**  
**DOOR JAMB**  
**OFFSET PIVOT OR BUTT HUNG**



**2**  
**DOOR TRANSOM**



**2**  
**DOOR TRANSOM**



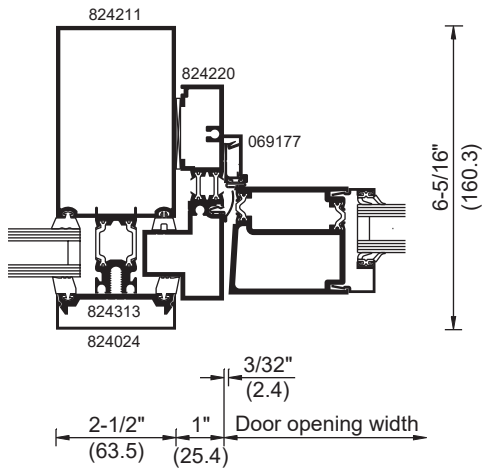
**3**  
**THRESHOLD (7525 and 7550)**

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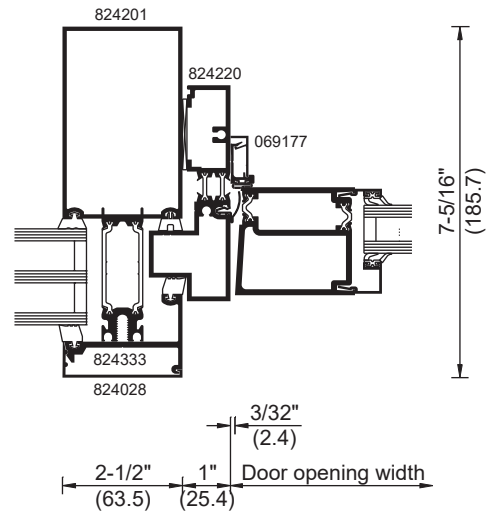
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**7525 - 25mm DOUBLE GLAZED**  
(Shown with AA®250 Thermal Entrance)

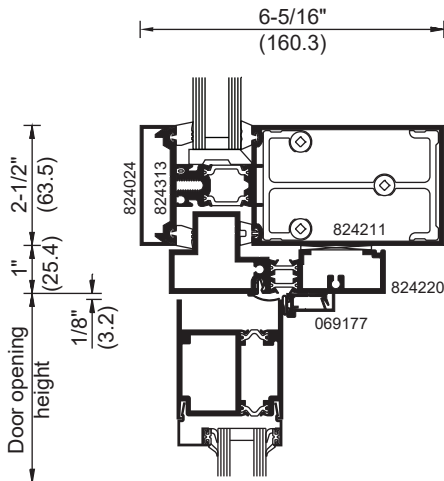


**1**  
**DOOR JAMB**  
**OFFSET PIVOT OR BUTT HUNG**

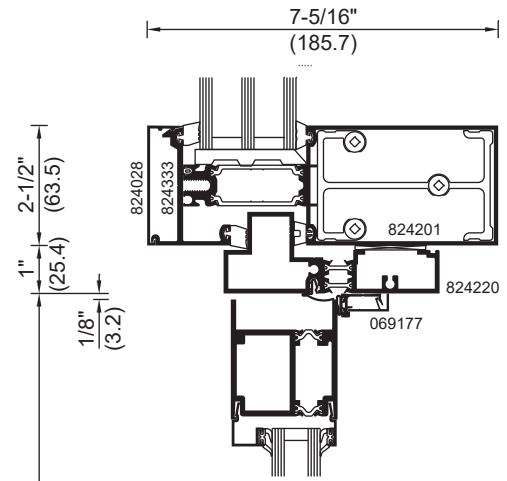
**7550 - 50mm TRIPLE GLAZED**  
(Shown with AA®250 Thermal Entrance)



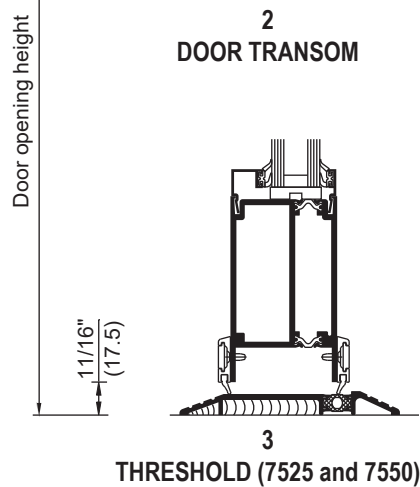
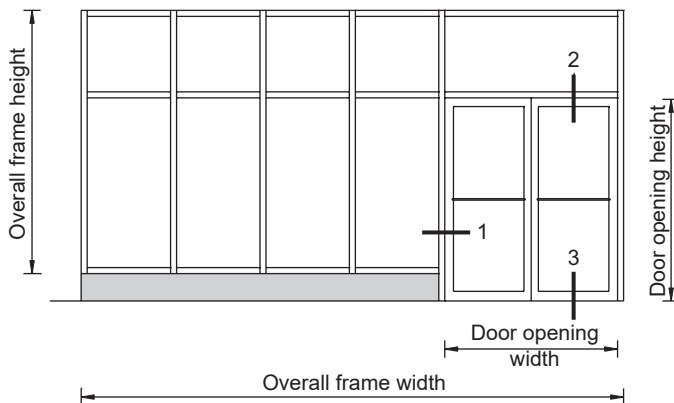
**1**  
**DOOR JAMB**  
**OFFSET PIVOT OR BUTT HUNG**



**2**  
**DOOR TRANSOM**



**2**  
**DOOR TRANSOM**



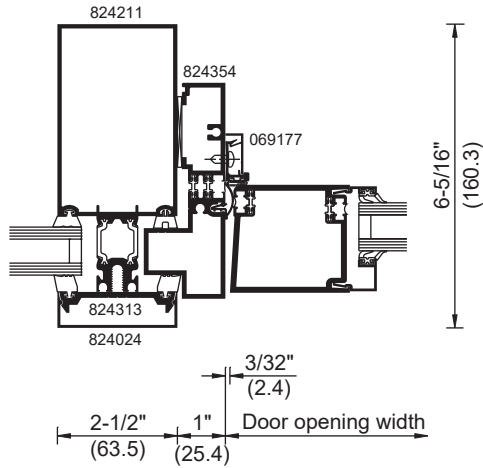
**3**  
**THRESHOLD (7525 and 7550)**

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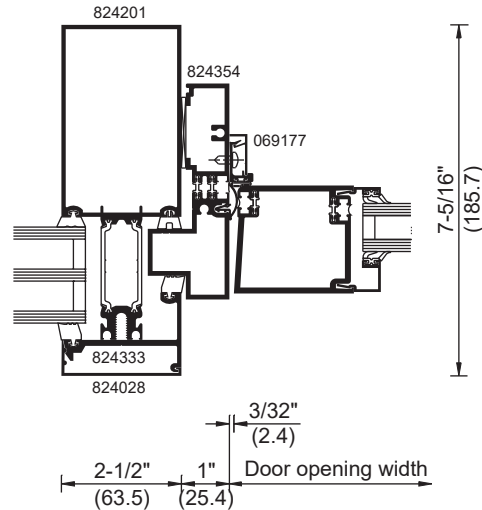
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**7525 - 25mm DOUBLE GLAZED**  
(Shown with 250T Insulpour® Thermal Entrance)

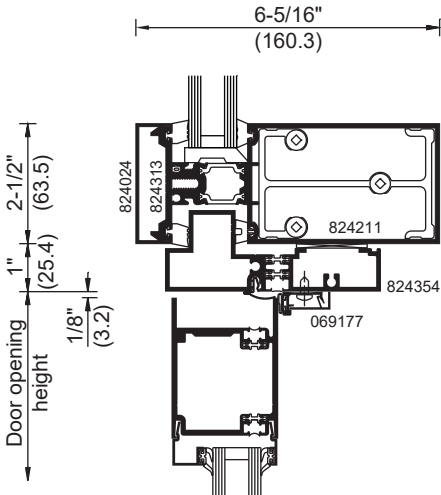


**1**  
**DOOR JAMB**  
**OFFSET PIVOT OR BUTT HUNG**

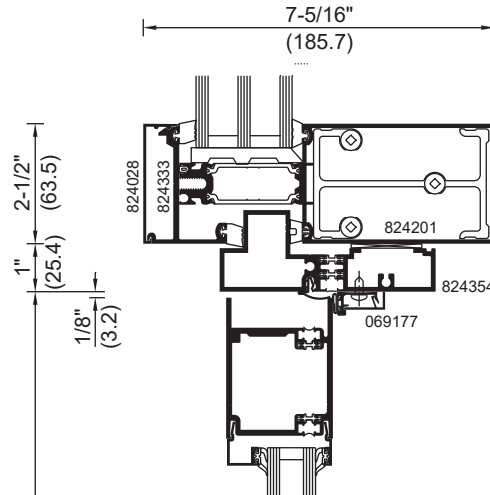
**7550 - 50mm TRIPLE GLAZED**  
(Shown with 250T Insulpour® Thermal Entrance)



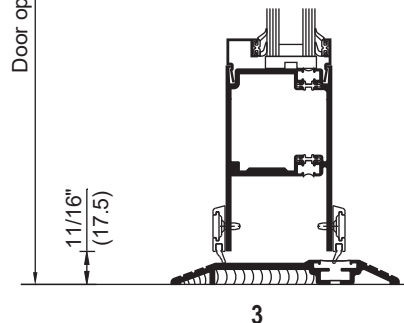
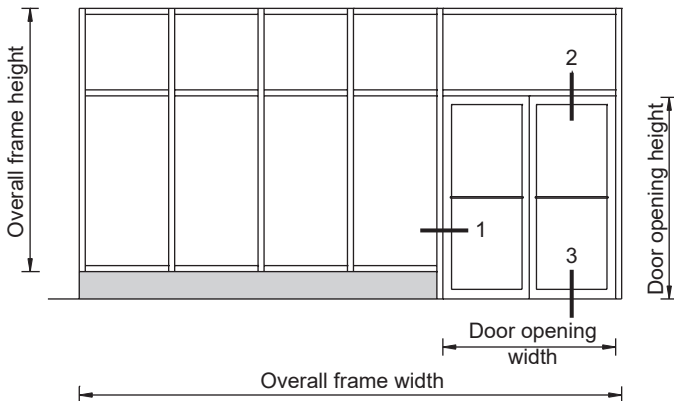
**1**  
**DOOR JAMB**  
**OFFSET PIVOT OR BUTT HUNG**



**2**  
**DOOR TRANSOM**



**2**  
**DOOR TRANSOM**



**3**  
**THRESHOLD (7525 and 7550)**

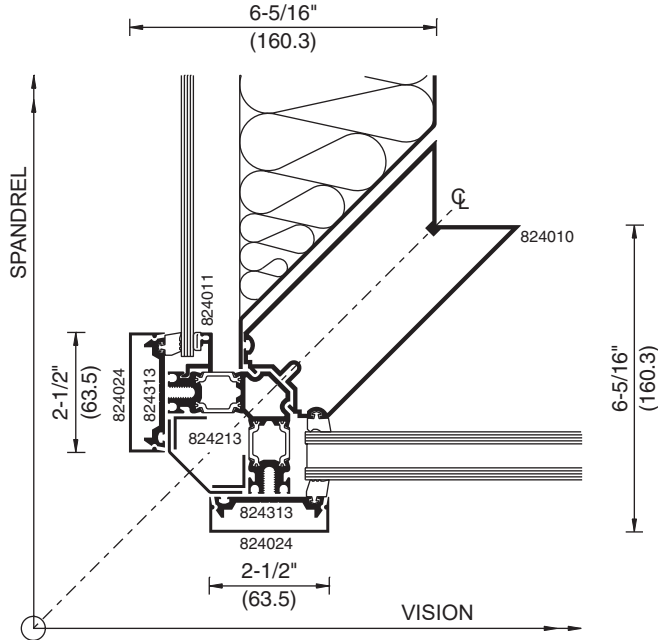
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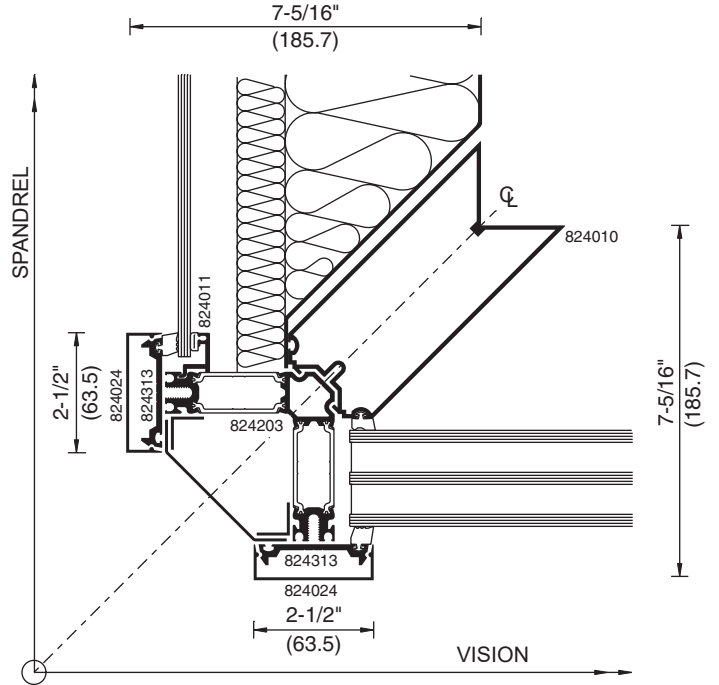
7525 - 25mm DOUBLE GLAZED

90° OUTSIDE CORNERS

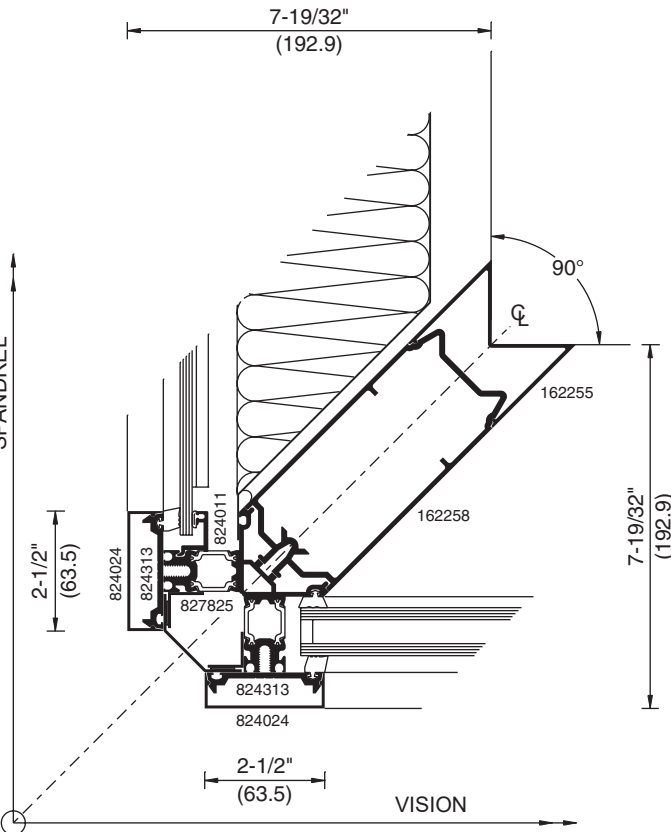


7550 - 50mm TRIPLE GLAZED

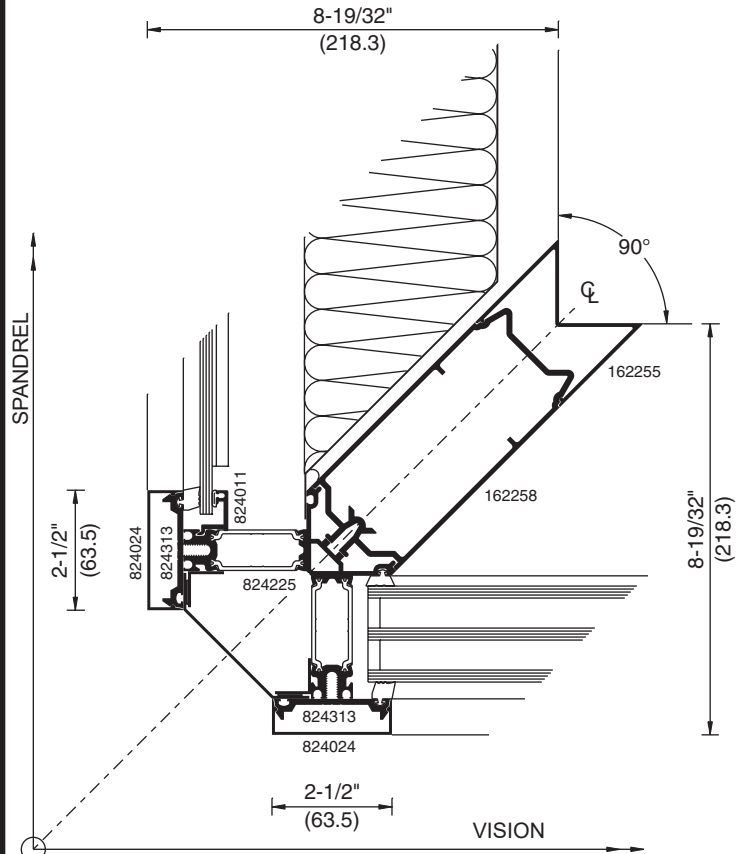
90° OUTSIDE CORNERS



7-19/32\"/>



8-19/32\"/>



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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.

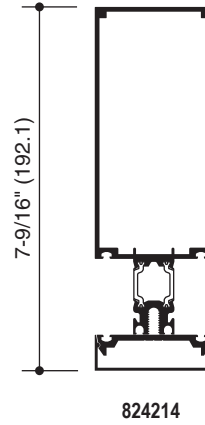
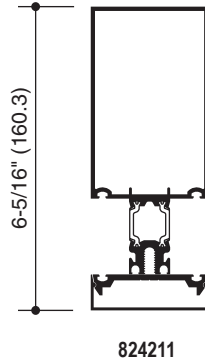
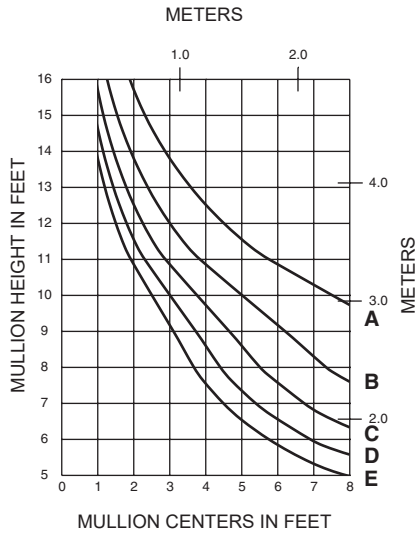
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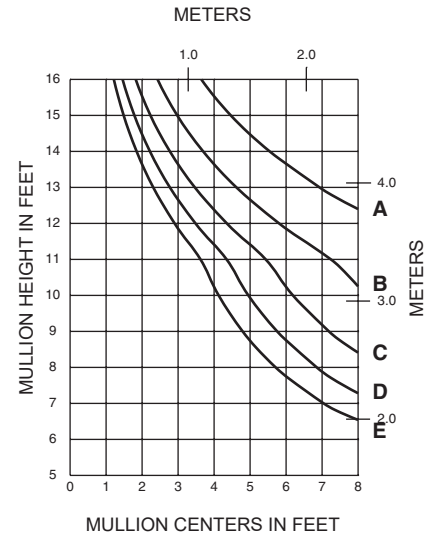


	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	20 PSF (960)	33 PSF (1580)
B =	30 PSF (1440)	50 PSF (2400)
C =	40 PSF (1920)	67 PSF (3200)
D =	50 PSF (2400)	83 PSF (4000)
E =	60 PSF (2880)	100 PSF (4790)

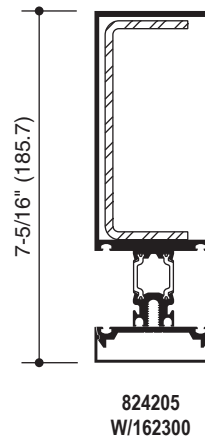
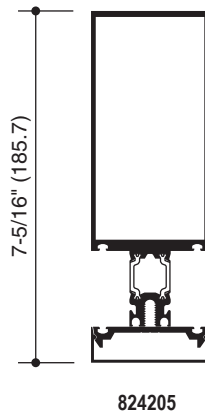
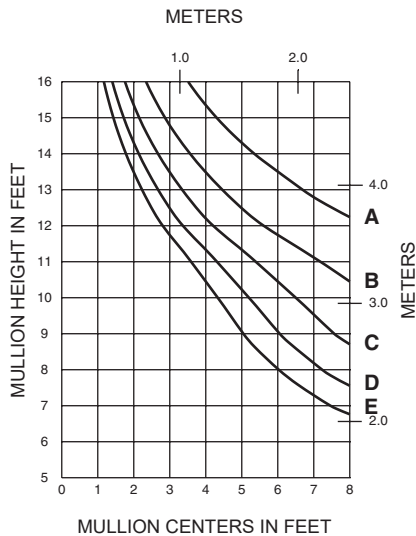
SINGLE SPAN



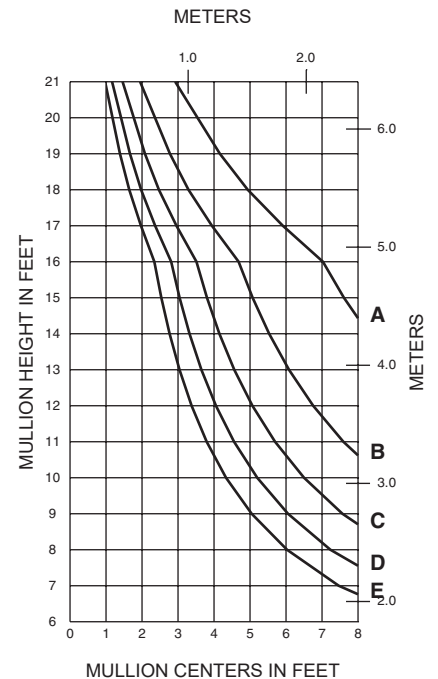
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SINGLE SPAN



SINGLE SPAN



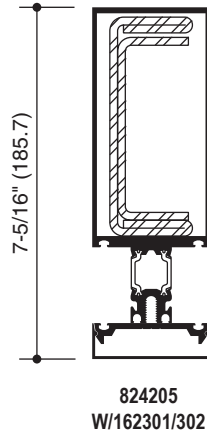
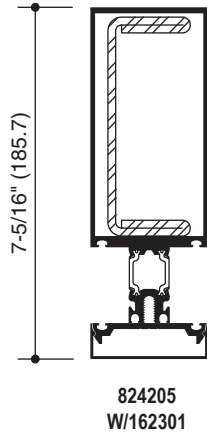
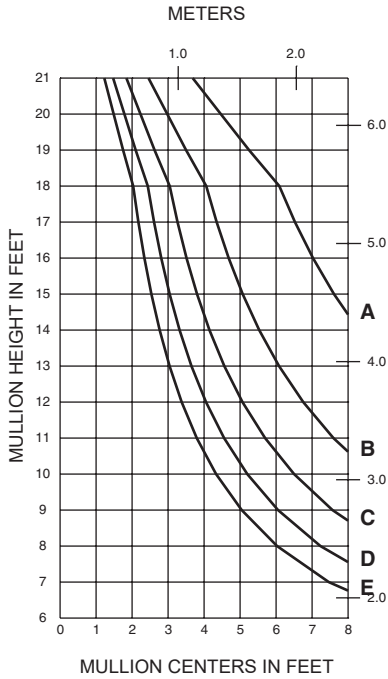
WINDLOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505

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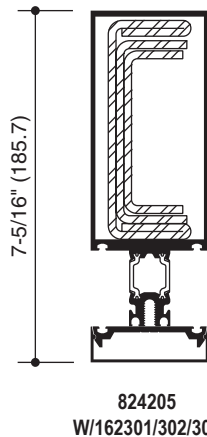
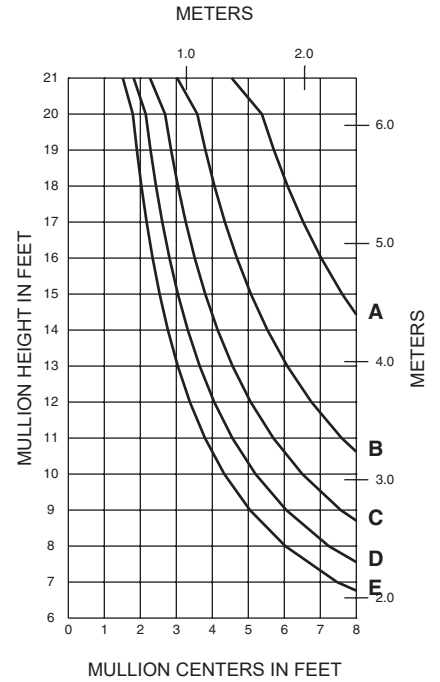
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D =	50 PSF (2400)	83 PSF (4000)
E =	60 PSF (2880)	100 PSF (4790)

## SINGLE SPAN

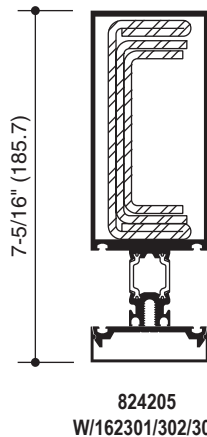
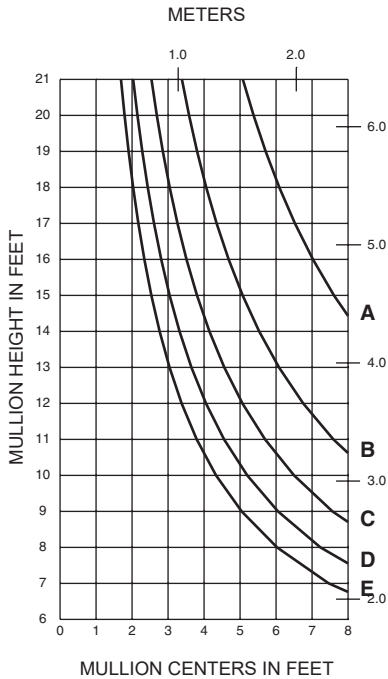


## SINGLE SPAN



WINDLOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505

## SINGLE SPAN

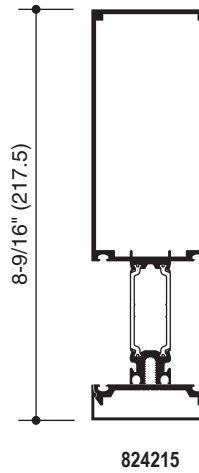
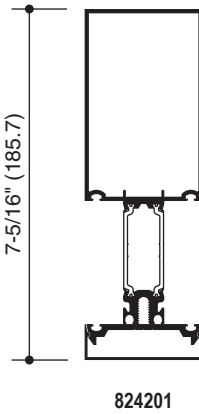
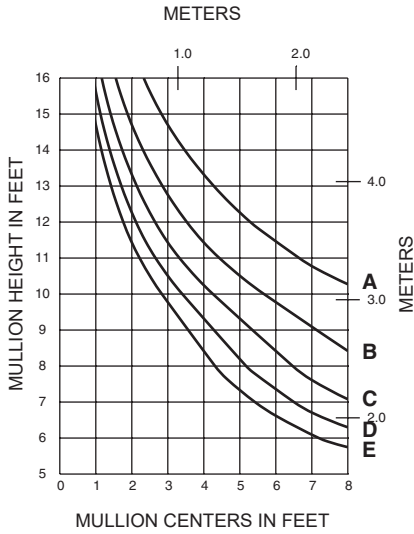


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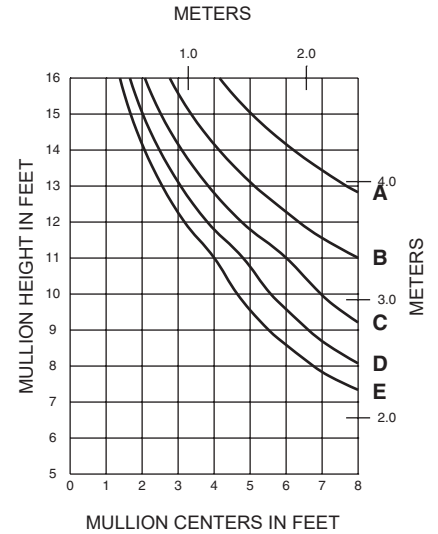
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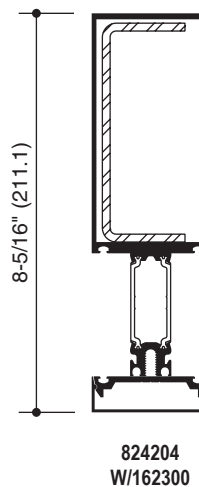
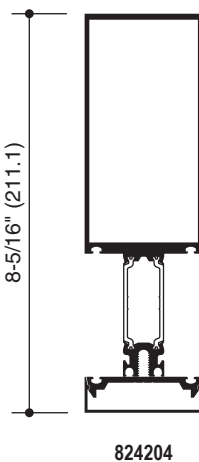
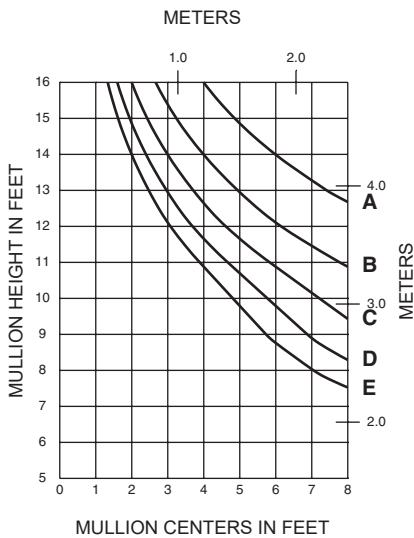
SINGLE SPAN



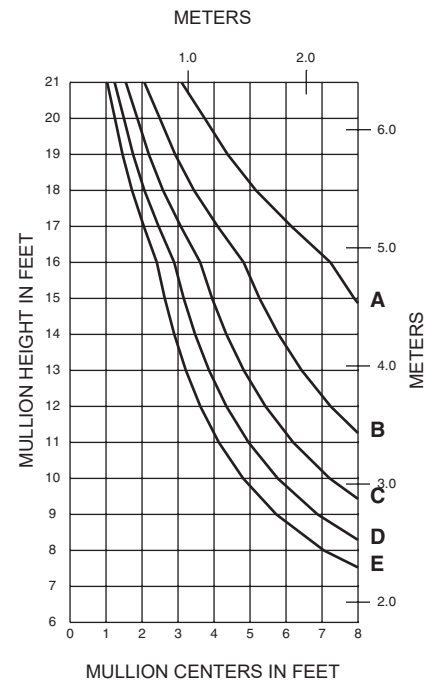
SINGLE SPAN



SINGLE SPAN



SINGLE SPAN



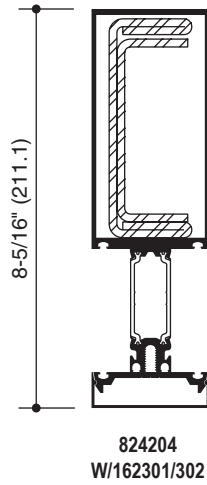
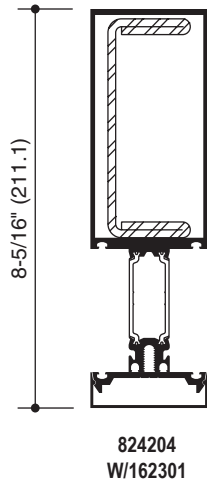
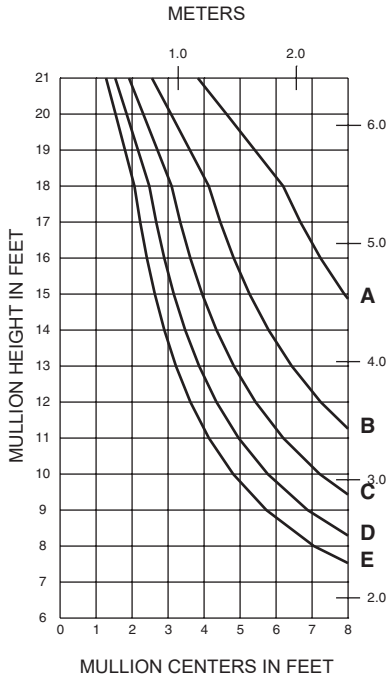
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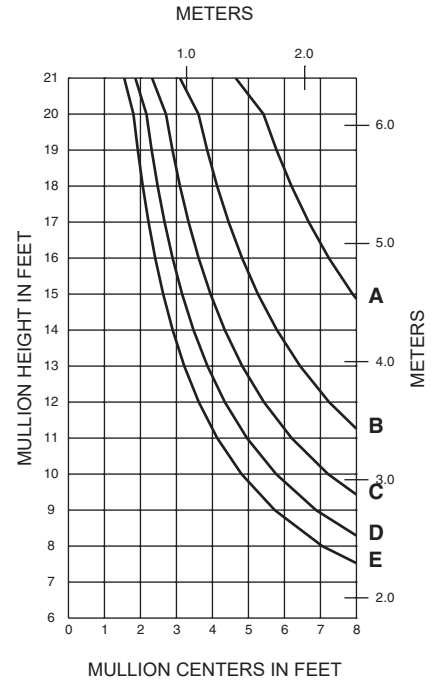
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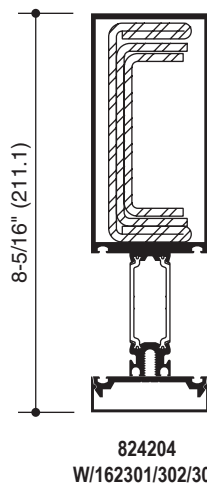
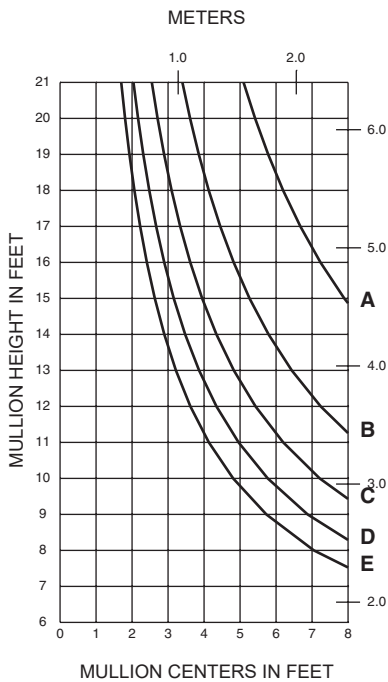
## SINGLE SPAN



## SINGLE SPAN



## SINGLE SPAN

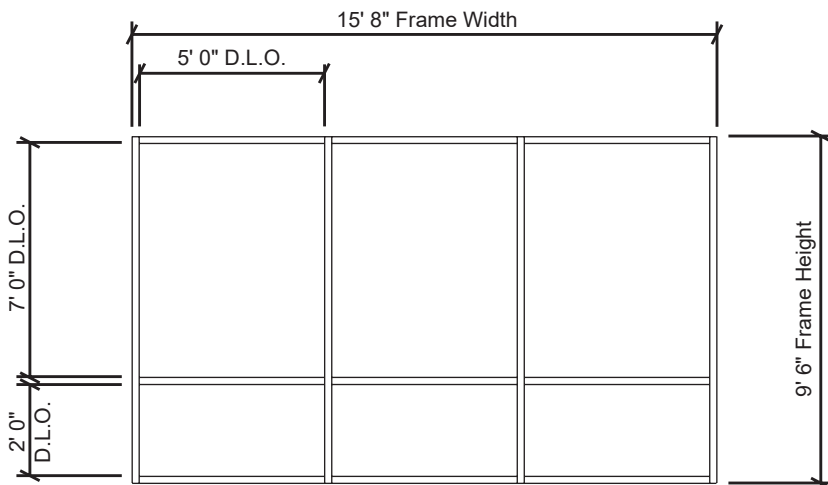


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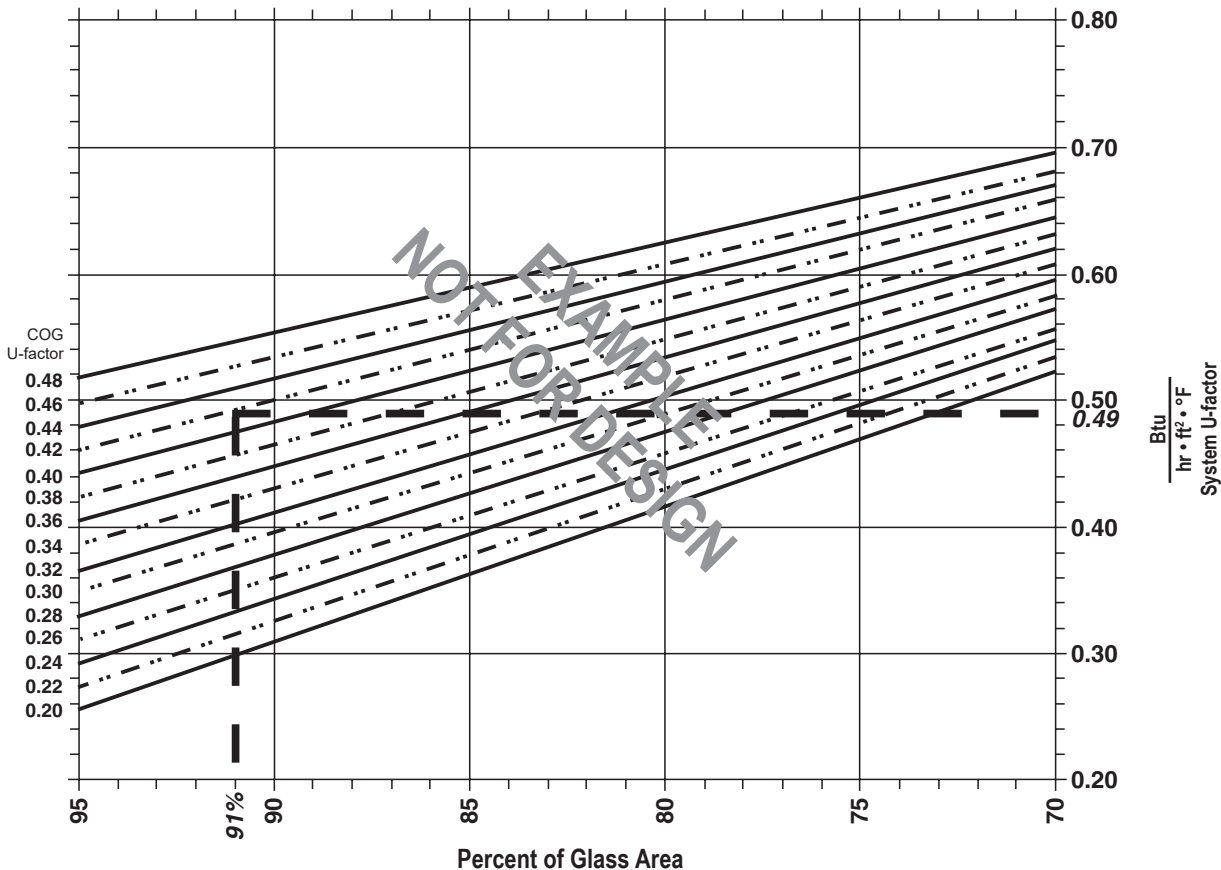
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Project Specific U-Factor  
Example Calculation



Example Glass U-Factor = 0.42 Btu/(ft<sup>2</sup>·h·°F)  
 Total Daylight (Vision) Area = 3(5' x 7') + 3(5' x 2') = 135 ft<sup>2</sup>  
 Projected Total Area = 15' 8" x 9' 6" = 148.83 ft<sup>2</sup>  
 Percent of Vision Glass = (Total Daylight Area ÷ Projected Total Area)100  
 = (135 ÷ 148.83)100 = 91%

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 · ft<sup>2</sup> · °F

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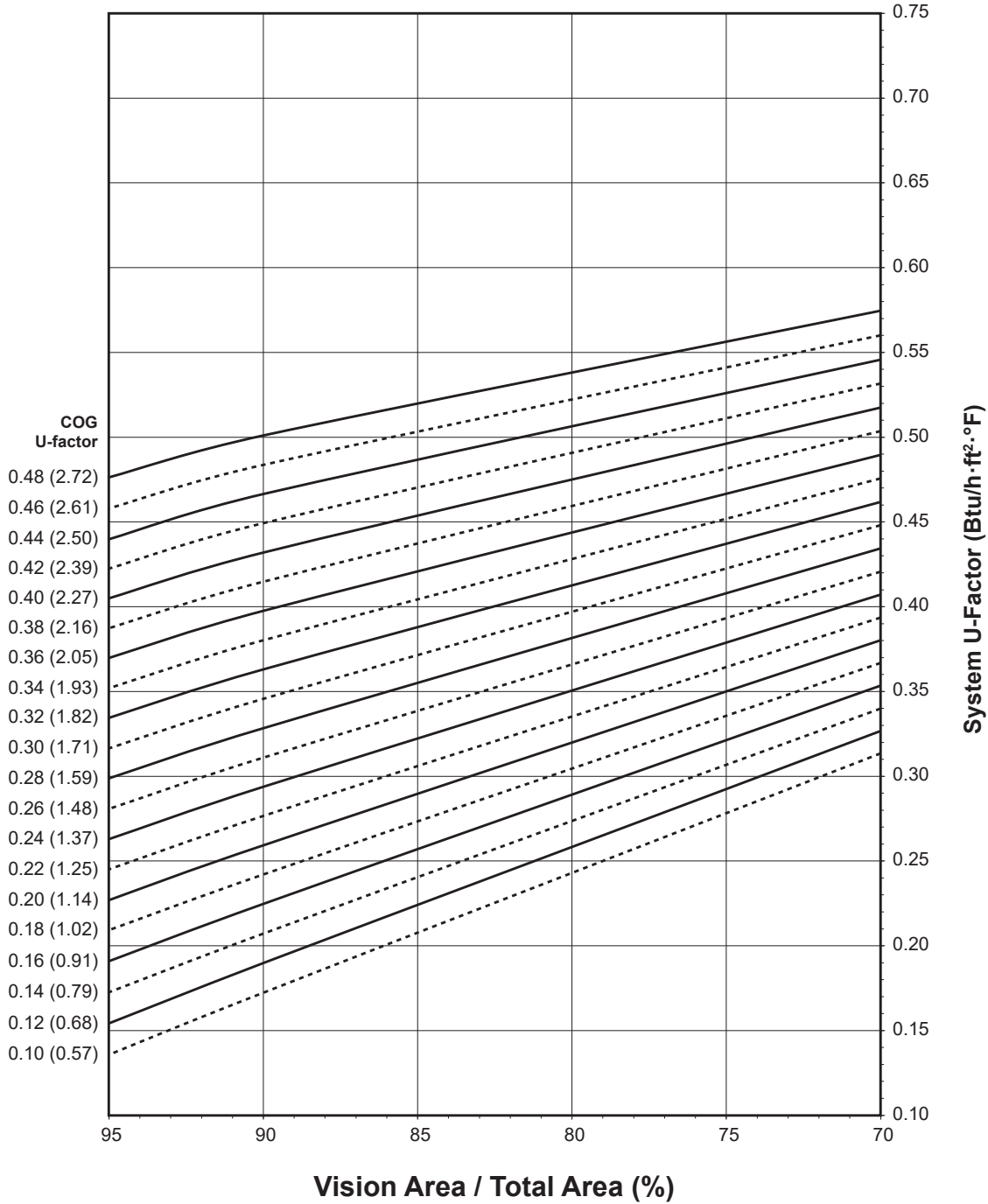
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**7525 Wall (Double Glazed)  
Aluminum Pressure Plate: Warm-Edge Glazing Spacer**

**Note:**

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

**System U-Factor for Vision Glass**



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

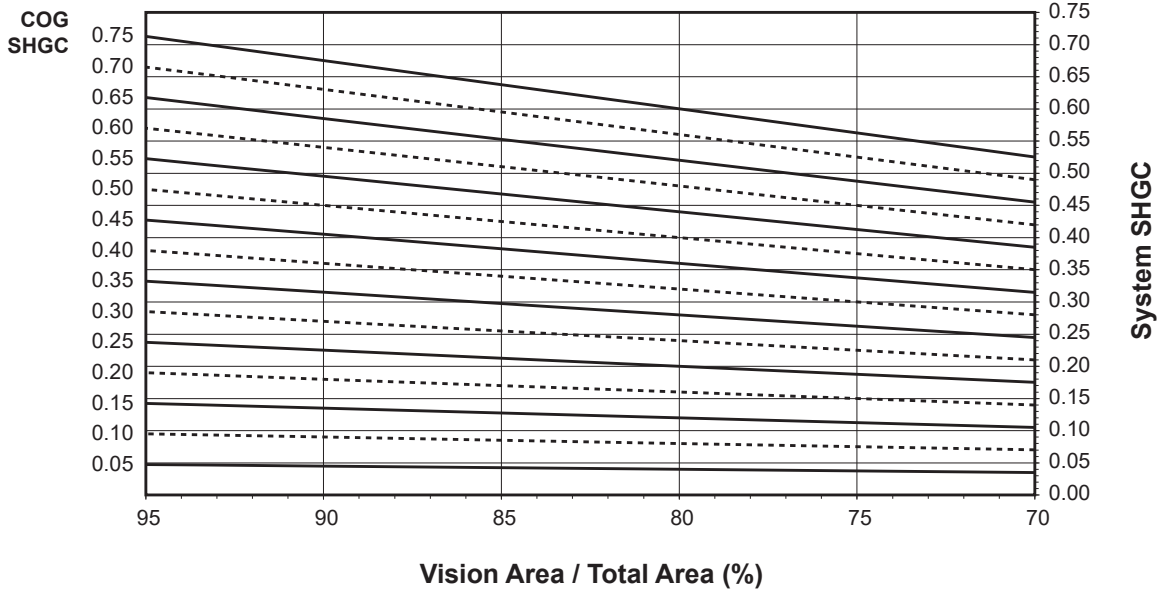
For glass values that are not listed, linear interpolation is permitted.  
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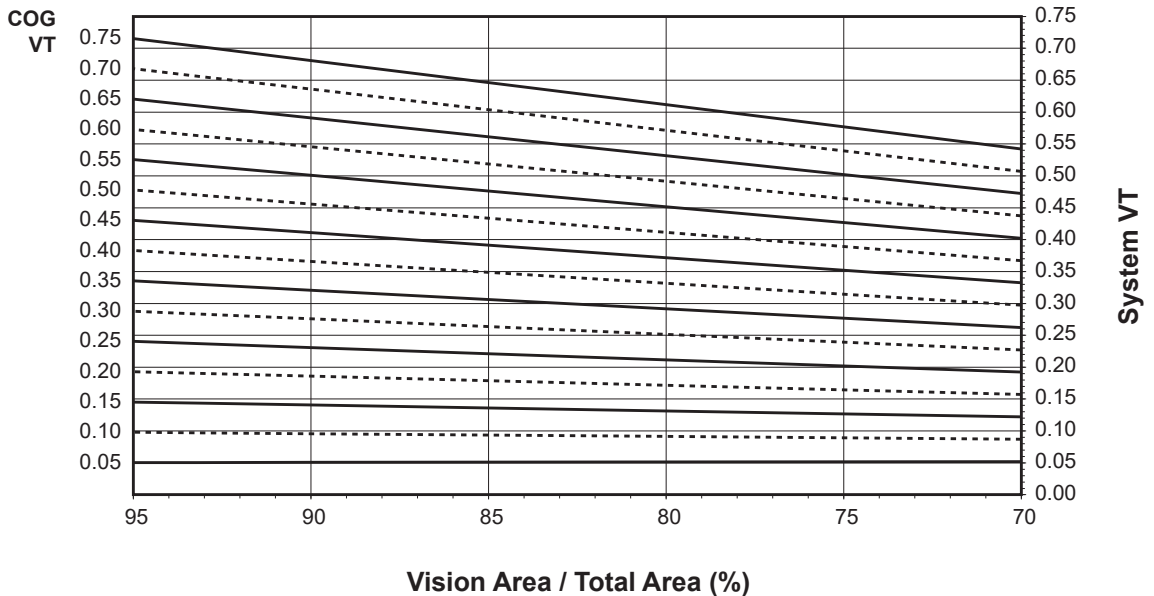
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7525 Wall (Double Glazed)
Aluminum Pressure Plate: Warm-Edge Glazing Spacer

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 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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**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	0.50
0.46	0.48
0.44	0.47
0.42	0.45
0.40	0.43
0.38	0.42
0.36	0.40
0.34	0.38
0.32	0.36
0.30	0.35
0.28	0.33
0.26	0.31
0.24	0.29
0.22	0.28
0.20	0.26
0.18	0.24
0.16	0.23
0.14	0.21
0.12	0.19
0.10	0.17

### 7525 Wall (Double Glazed) Aluminum Pressure Plate 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 Matrices 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	0,68
0.70	0,64
0.65	0,59
0.60	0,55
0.55	0,50
0.50	0,46
0.45	0,41
0.40	0,37
0.35	0,32
0.30	0,28
0.25	0,23
0.20	0,19
0.15	0,14
0.10	0,10
0.05	0,05

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

Glass VT <sup>3</sup>	Overall VT <sup>4</sup>
0.75	0,67
0.70	0,63
0.65	0,58
0.60	0,54
0.55	0,49
0.50	0,45
0.45	0,40
0.40	0,36
0.35	0,31
0.30	0,27
0.25	0,22
0.20	0,18
0.15	0,13
0.10	0,09
0.05	0,04

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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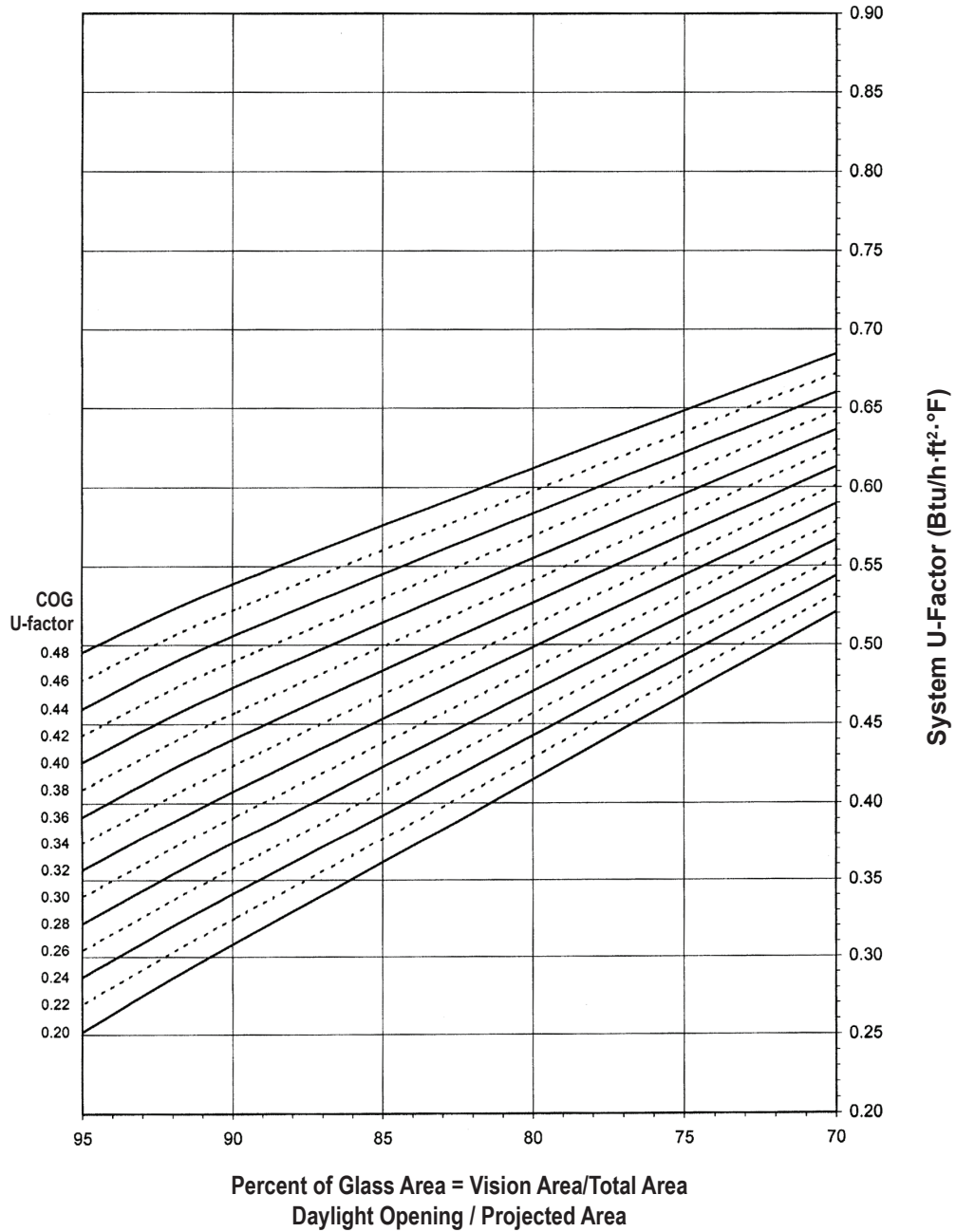


**7525 Wall (Double Glazed)  
Aluminum Pressure Plate: Aluminum Glazing Spacer**

**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 U-factor, SHGC and VT charts:**

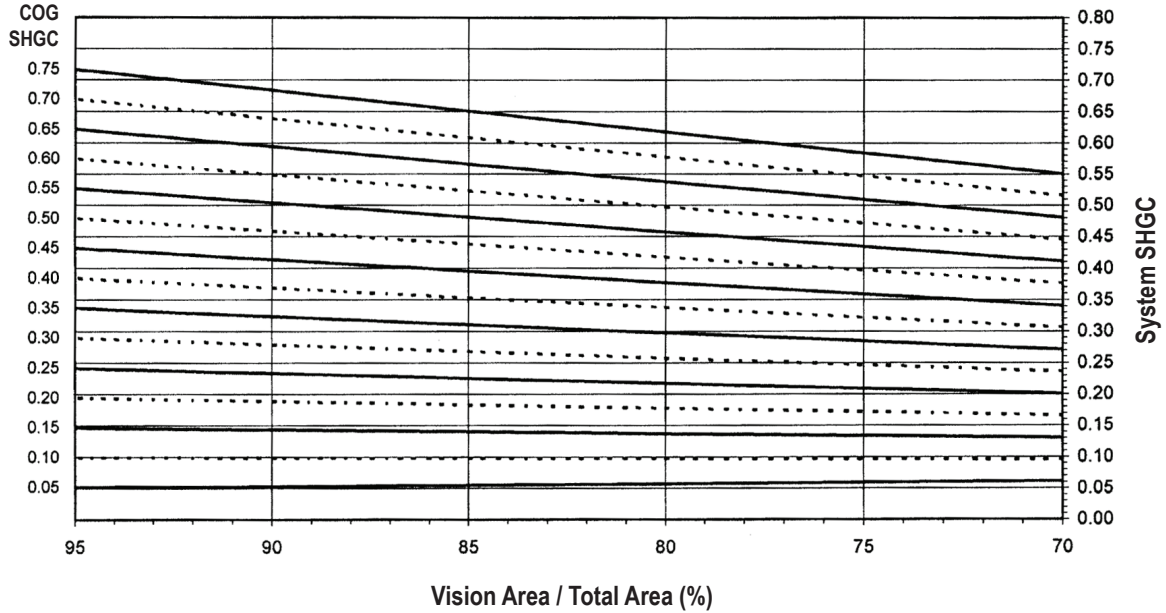
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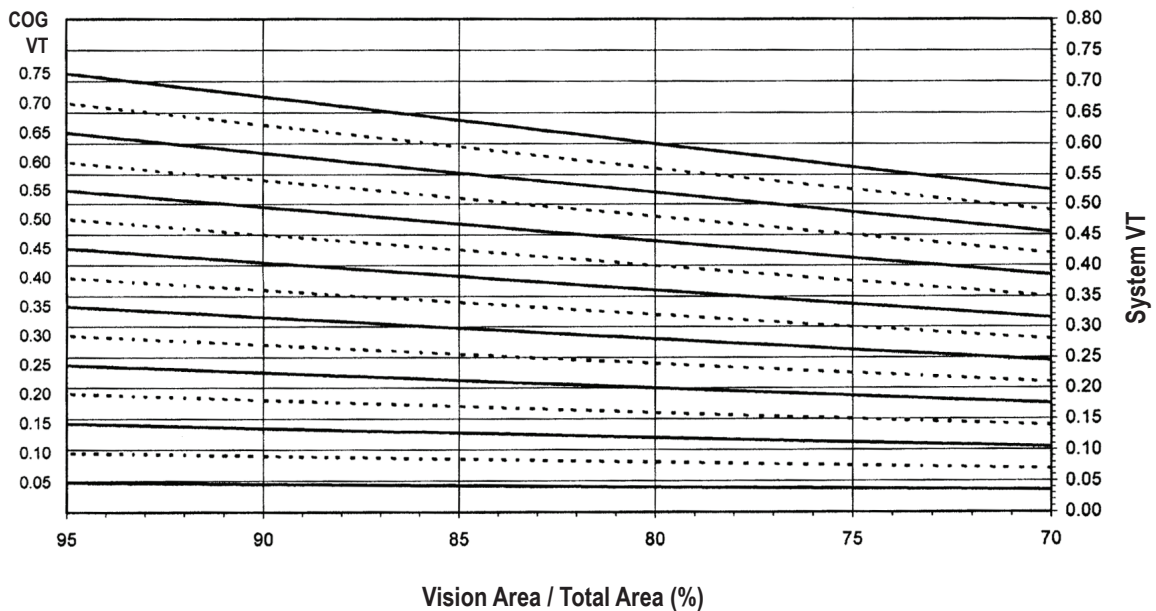
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**7525 Wall (Double Glazed)  
Aluminum Pressure Plate: Aluminum Glazing Spacer**

**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 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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**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	0.54
0.46	0.52
0.44	0.51
0.42	0.49
0.40	0.47
0.38	0.46
0.36	0.44
0.34	0.42
0.32	0.41
0.30	0.39
0.28	0.37
0.26	0.36
0.24	0.34
0.22	0.33
0.20	0.31

**7525 Wall (Double Glazed)  
Aluminum Pressure Plate  
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	0.68
0.70	0.64
0.65	0.59
0.60	0.55
0.55	0.50
0.50	0.46
0.45	0.41
0.40	0.37
0.35	0.32
0.30	0.28
0.25	0.23
0.20	0.19
0.15	0.14
0.10	0.10
0.05	0.05

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

Glass VT <sup>3</sup>	Overall VT <sup>4</sup>
0.75	0.67
0.70	0.63
0.65	0.58
0.60	0.54
0.55	0.49
0.50	0.45
0.45	0.40
0.40	0.36
0.35	0.31
0.30	0.27
0.25	0.22
0.20	0.18
0.15	0.13
0.10	0.09
0.05	0.04

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.

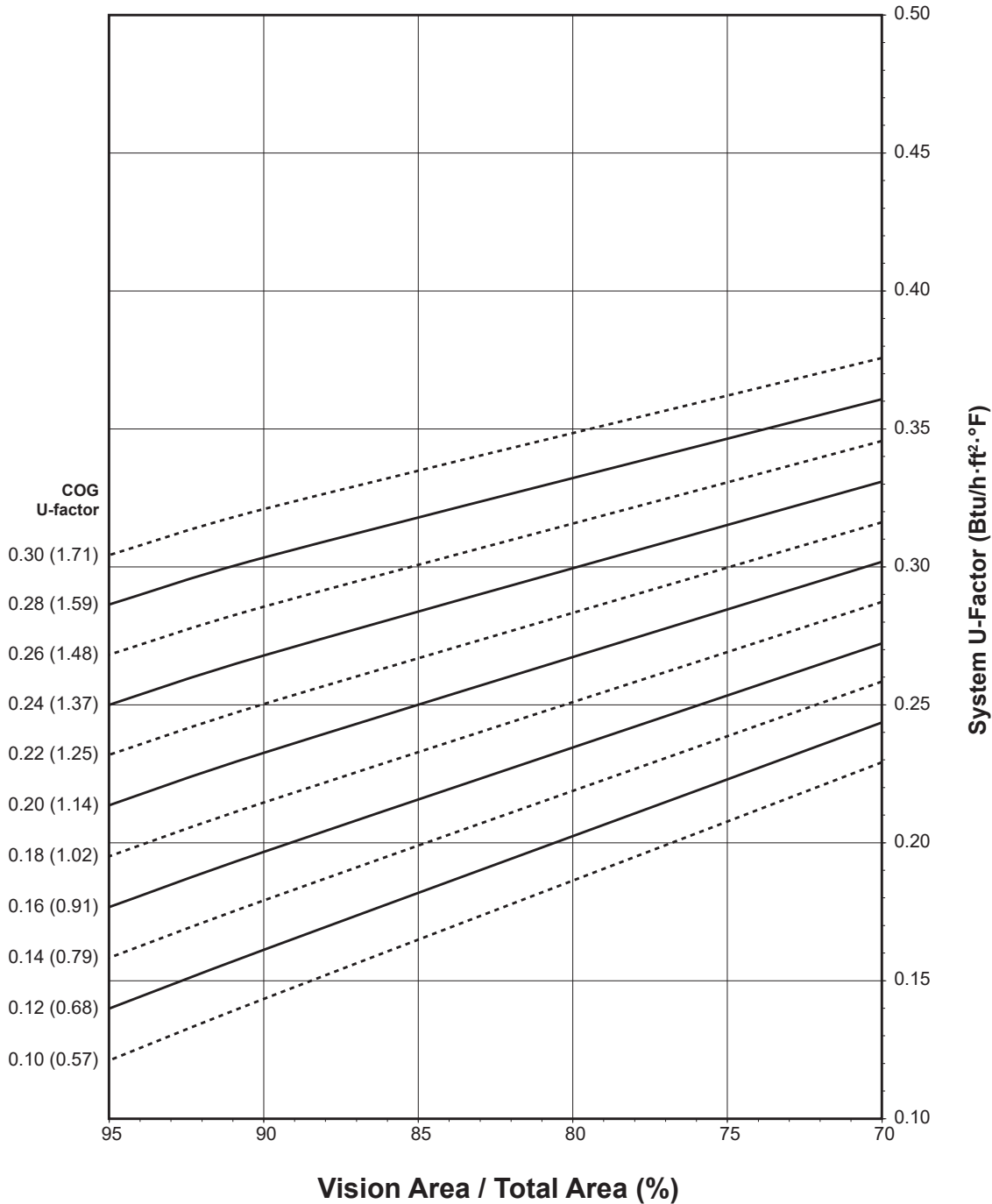
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**7500 Wall (Triple Glazed)  
Aluminum Pressure Plate: Warm-Edge Glazing Spacer**

**Note:**

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

**System U-Factor for Vision Glass**



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

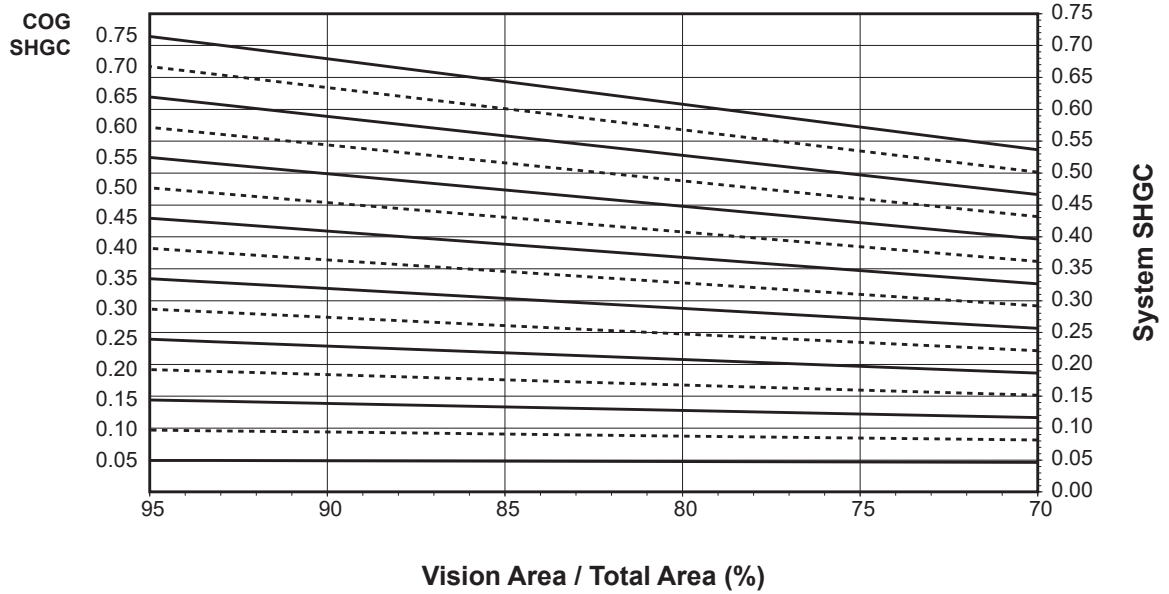
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Glass properties are based on center of glass values and are obtained from your glass supplier.

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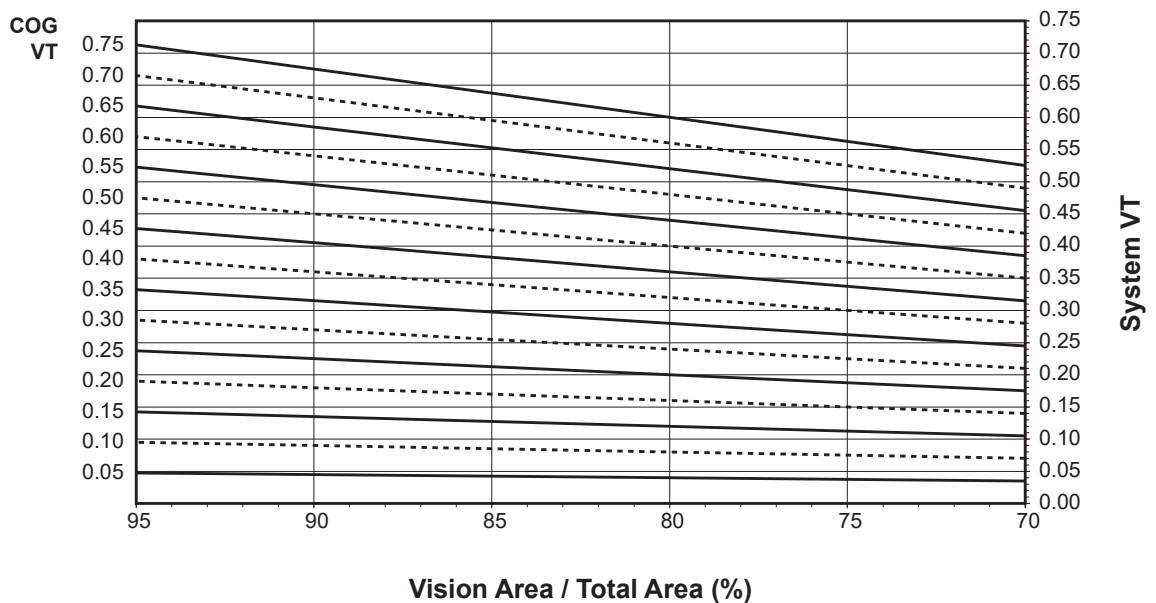
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7550 Wall (Triple Glazed)
Aluminum Pressure Plate: Warm-Edge Glazing Spacer

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

Glass U-Factor <sup>3</sup>	Overall U-Factor <sup>4</sup>
0.30	0.32
0.28	0.30
0.26	0.29
0.24	0.27
0.22	0.25
0.20	0.23
0.18	0.21
0.16	0.20
0.14	0.18
0.12	0.16
0.10	0.14

### 7500 Wall (Triple Glazed) Aluminum Pressure Plate 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 Matrices 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	0.68
0.70	0.63
0.65	0.59
0.60	0.54
0.55	0.50
0.50	0.45
0.45	0.41
0.40	0.36
0.35	0.32
0.30	0.27
0.25	0.23
0.20	0.18
0.15	0.14
0.10	0.09
0.05	0.05

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

Glass VT <sup>3</sup>	Overall VT <sup>4</sup>
0.75	0.67
0.70	0.63
0.65	0.58
0.60	0.54
0.55	0.49
0.50	0.45
0.45	0.40
0.40	0.36
0.35	0.31
0.30	0.27
0.25	0.22
0.20	0.18
0.15	0.13
0.10	0.09
0.05	0.04

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.

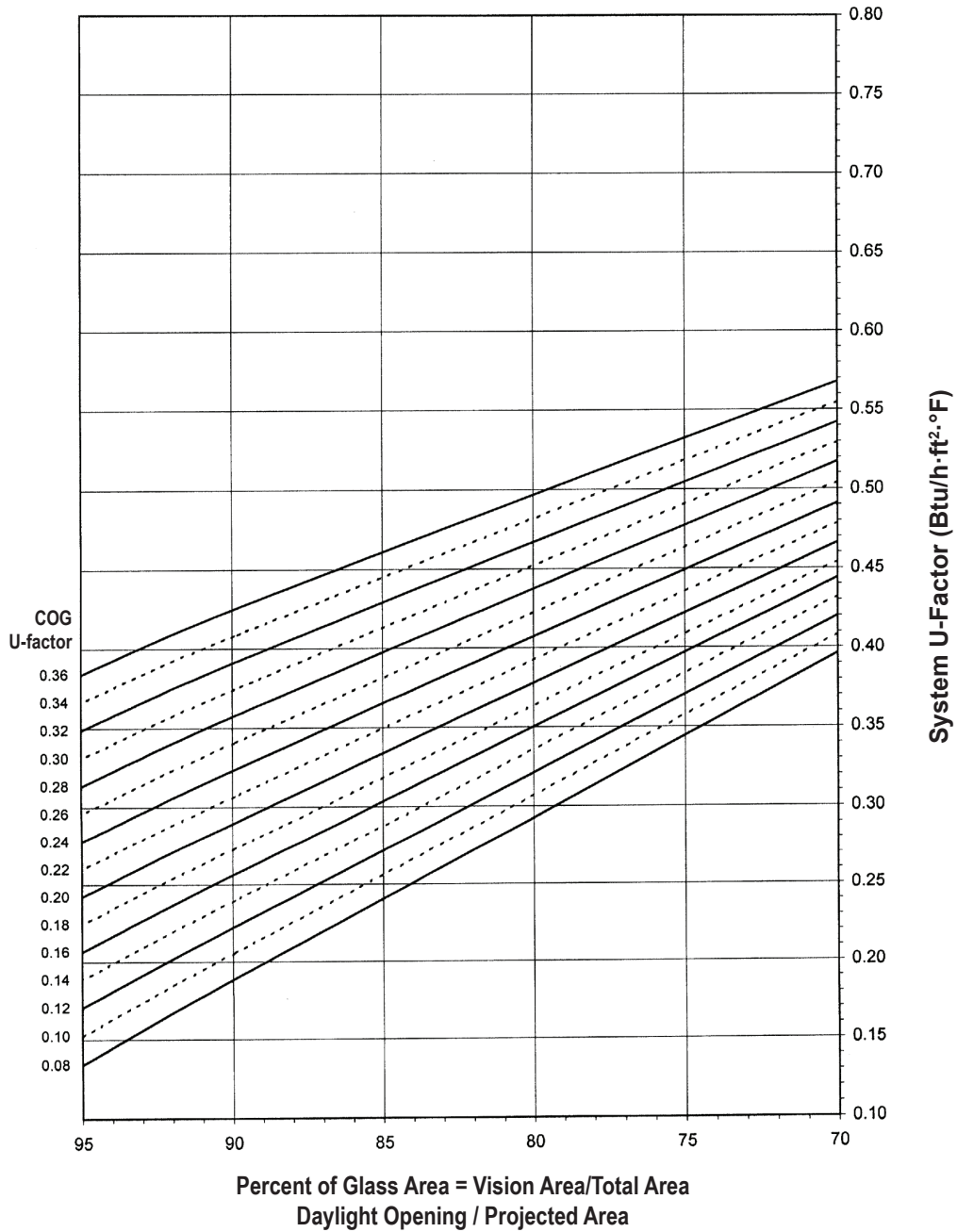
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**7550 Wall (Triple Glazed)  
Aluminum Pressure Plate: Aluminum Glazing Spacer**

**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 U-factor, SHGC and VT charts:**

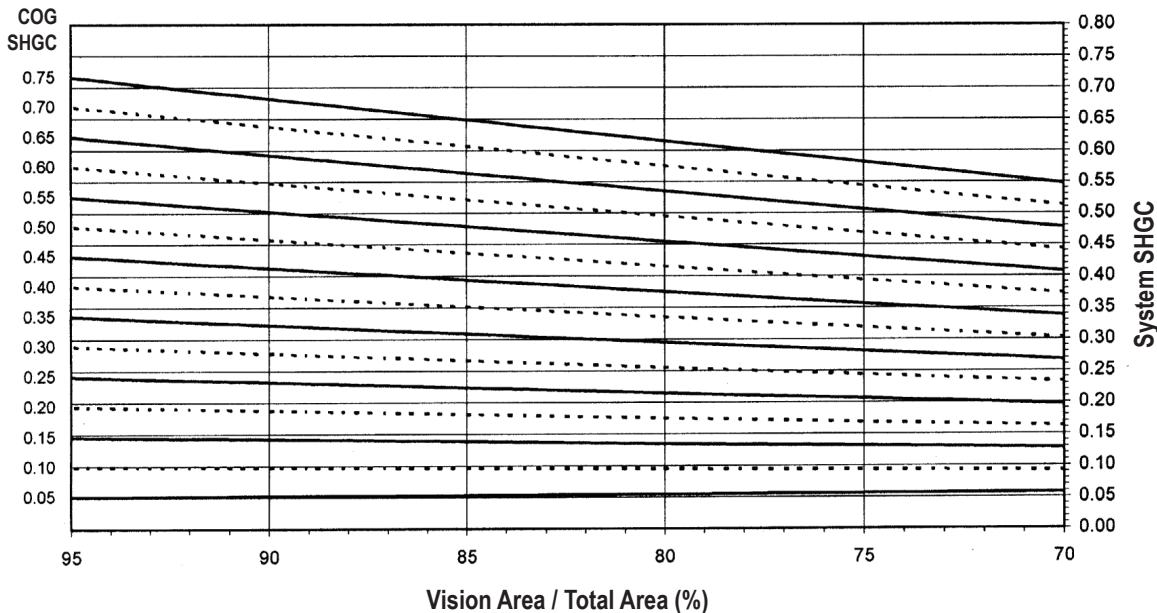
For glass values that are not listed, linear interpolation is permitted.  
Glass properties are based on center of glass values and are obtained from your glass supplier.

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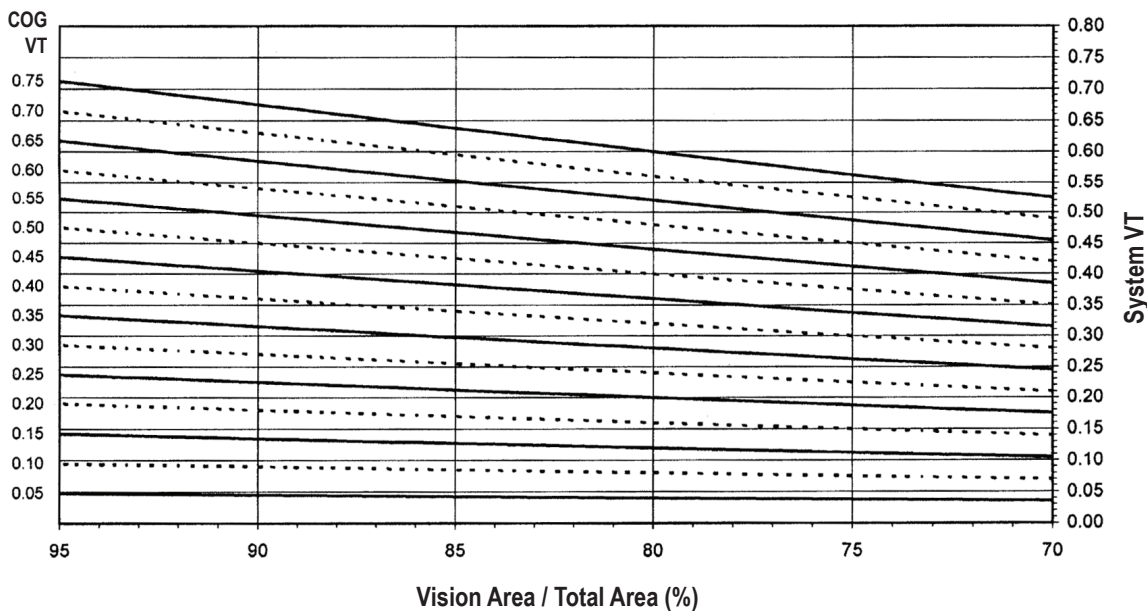
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**7500 Wall (Triple Glazed)  
Aluminum Pressure Plate: Aluminum Glazing Spacer**

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

Glass U-Factor <sup>3</sup>	Overall U-Factor <sup>4</sup>
0.36	0.43
0.34	0.41
0.32	0.39
0.30	0.37
0.28	0.36
0.26	0.34
0.24	0.32
0.22	0.31
0.20	0.29
0.18	0.27
0.16	0.26
0.14	0.24
0.12	0.22
0.10	0.21
0.08	0.19

**7500 Wall (Triple Glazed)  
Aluminum Pressure Plate  
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	0.68
0.70	0.64
0.65	0.59
0.60	0.55
0.55	0.50
0.50	0.46
0.45	0.41
0.40	0.37
0.35	0.32
0.30	0.28
0.25	0.23
0.20	0.19
0.15	0.14
0.10	0.10
0.05	0.05

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

Glass VT <sup>3</sup>	Overall VT <sup>4</sup>
0.75	0.67
0.70	0.63
0.65	0.58
0.60	0.54
0.55	0.49
0.50	0.45
0.45	0.40
0.40	0.36
0.35	0.31
0.30	0.27
0.25	0.22
0.20	0.18
0.15	0.13
0.10	0.09
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
7525 Wall®	1" Double	83	72	76	65
7550 Wall®	2" Triple	85	80	85	80

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