

## **Features**

- 1620 SSG is an outside glazed structurally silicone glazed curtain wall
- 1620 SSG has a 2" (50.8) sightline
- Standard 6" (152.4) or 7-1/2" (190.5) depth systems
- Standard infill options 1/4" (6.4) and 1" (25.4)
- Thermally Broken by means of a continuous 1/4" (6.4) low conductance spacer
- Concealed fastener joinery creates smooth, monolithic appearance
- Open-back horizontals and perimeters are available for cost savings
- Shear block fabrication method
- Corner mullions
- Offers integrated entrance framing systems
- Silicone compatible glazing materials for long-lasting seals
- Two color option
- Permanodic® anodized finishes option
- Painted finishes in standard and custom choices

## **Optional Features**

- Steel reinforcing
- Rain screen and backpans
- Deep covers
- Fiberglass pressure plates
- Heavy-weight mullions
- Profit\$Maker® Plus die sets

## **Product Applications**

- Ideal for low to mid-rise applications where high performance is desired

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:

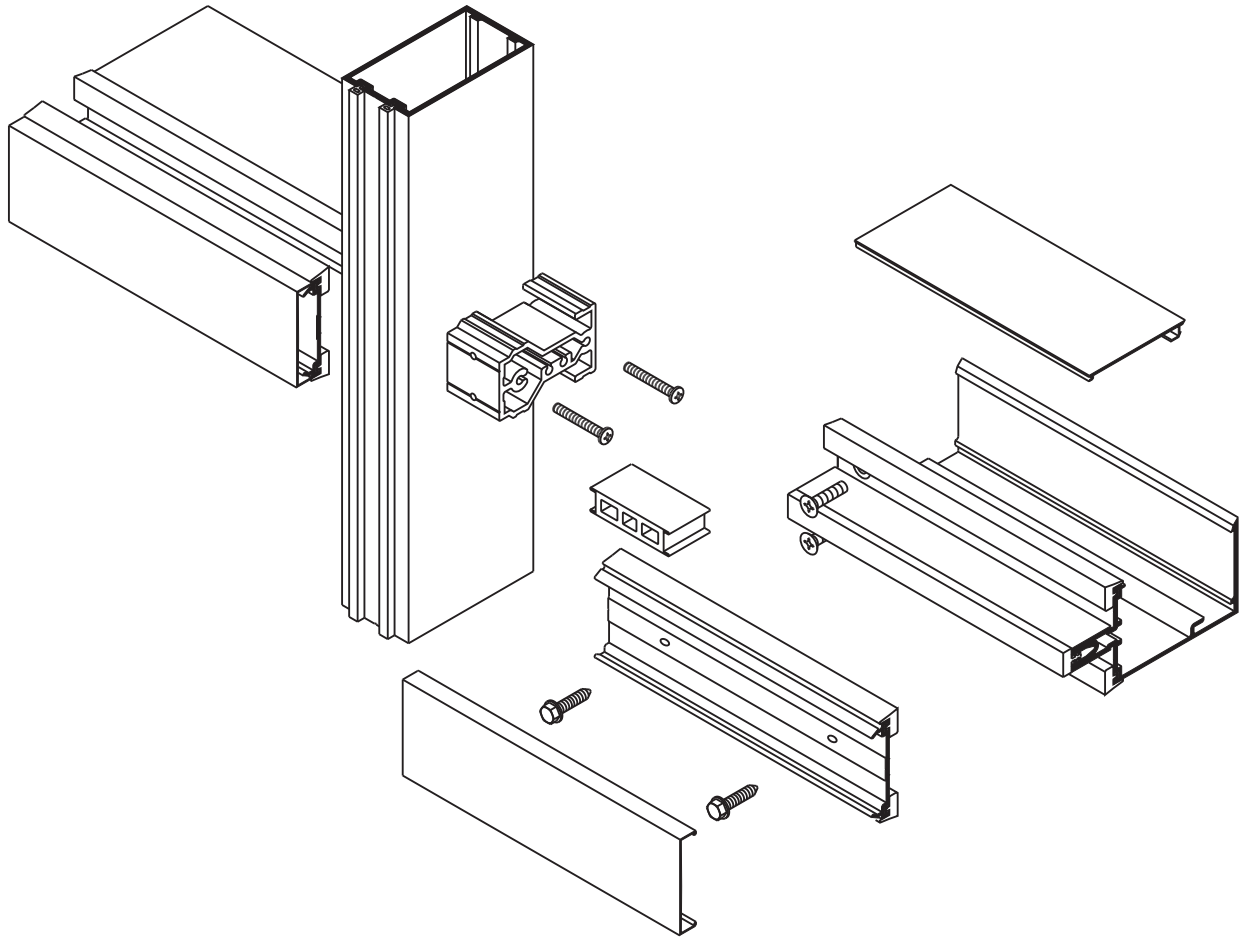
- m – meter
- cm – centimeter
- mm – millimeter
- s – second
- Pa – pascal
- MPa – megapascal

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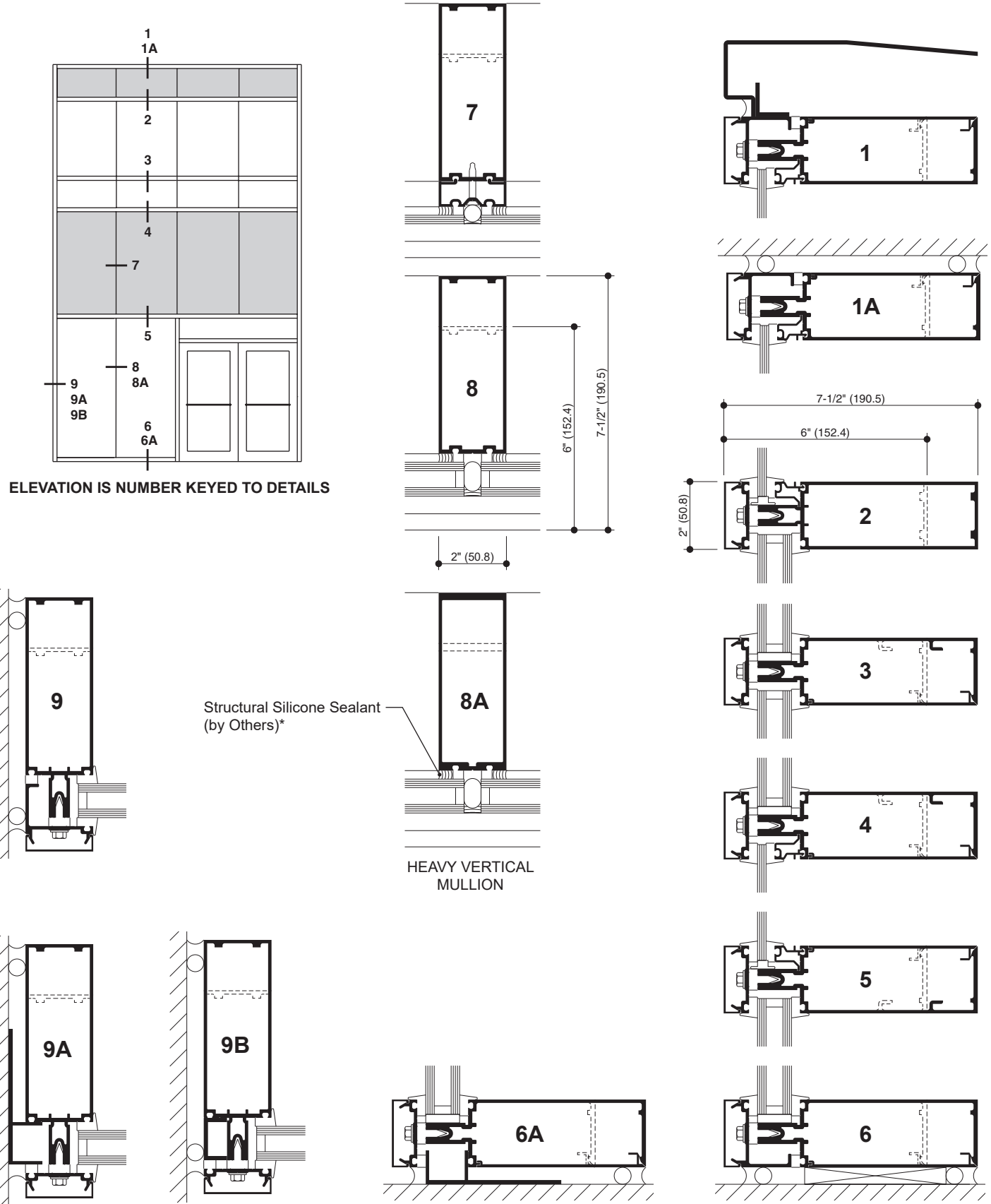
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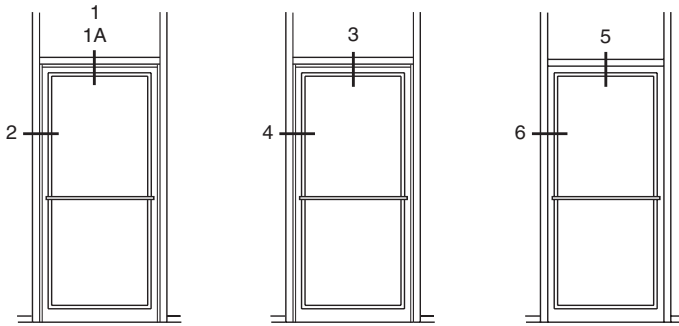
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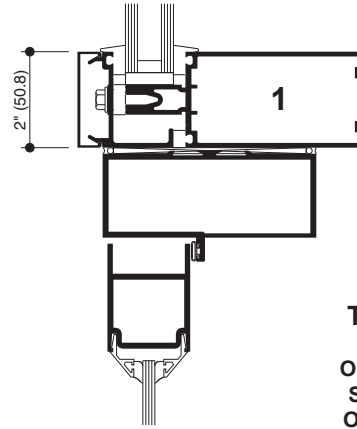


B/H OR O/P

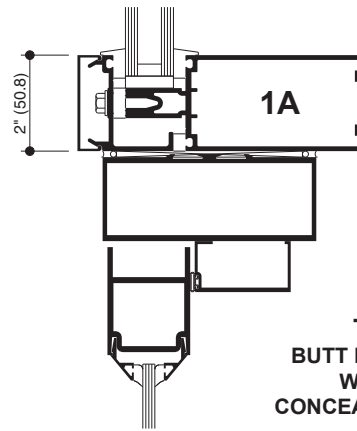
C/H

B/H OR O/P

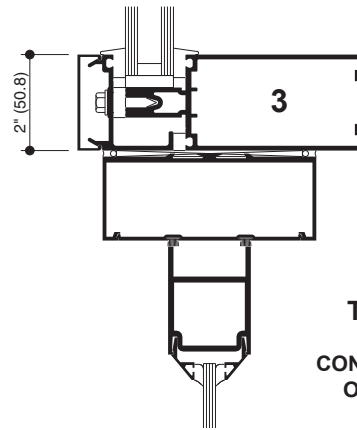
ELEVATION IS NUMBER KEYED TO DETAILS



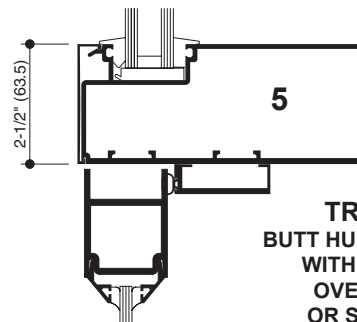
**TRANSOM BAR**  
BUTT HUNG OR  
OFFSET PIVOT WITH  
SURFACE CLOSER  
OR FLOOR CLOSER



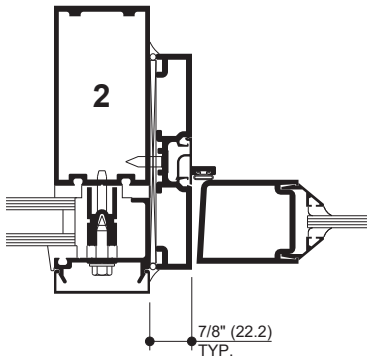
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BUTT HUNG OR OFFSET PIVOT  
WITH SINGLE ACTING  
CONCEALED OVERHEAD CLOSER



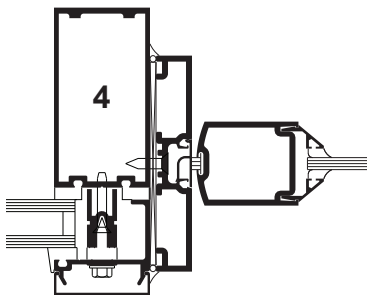
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CENTER HUNG  
CONCEALED OVERHEAD  
OR FLOOR CLOSER



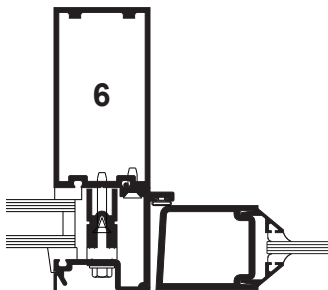
**TRANSOM BAR**  
BUTT HUNG OR OFFSET PIVOT  
WITH LCN CONCEALED  
OVER HEAD CLOSER  
OR SURFACE CLOSER



**DOOR JAMB**  
BUTT HUNG OR  
OFFSET PIVOT

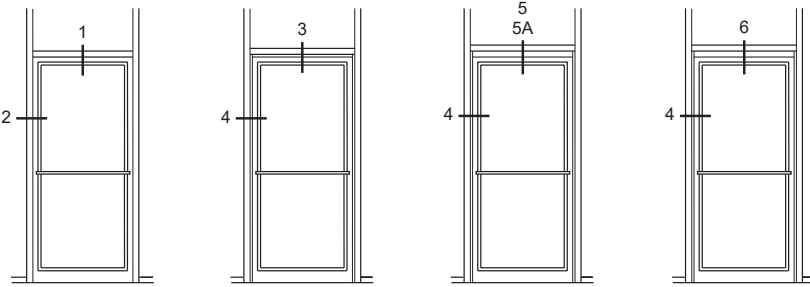


**DOOR JAMB**  
CENTER HUNG



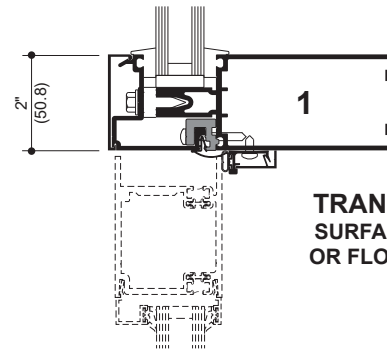
**DOOR JAMB**  
BUTT HUNG OR  
OFFSET PIVOT

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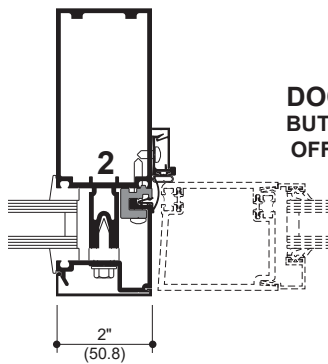


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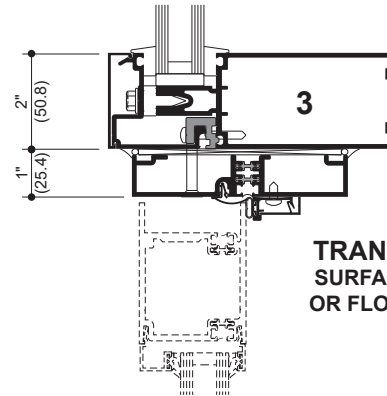
ELEVATION IS NUMBER KEYED TO DETAILS



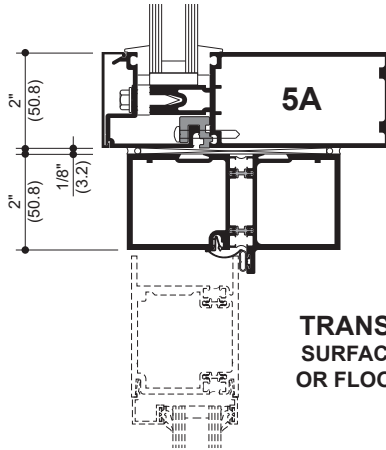
**TRANSOM BAR  
SURFACE CLOSER  
OR FLOOR CLOSER**



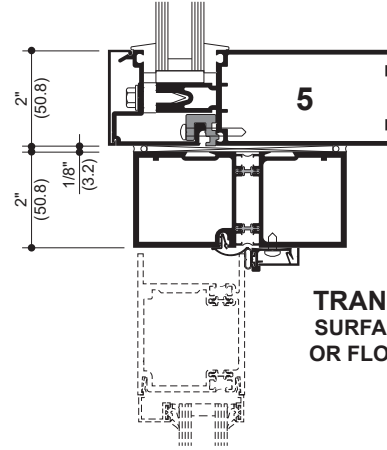
**DOOR JAMB  
BUTT HUNG OR  
OFFSET PIVOT**



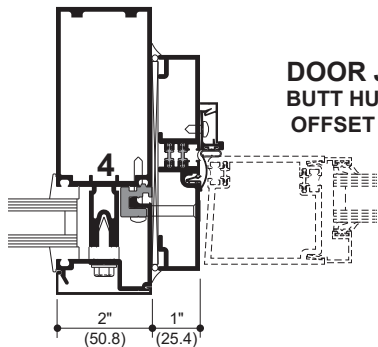
**TRANSOM BAR  
SURFACE CLOSER  
OR FLOOR CLOSER**



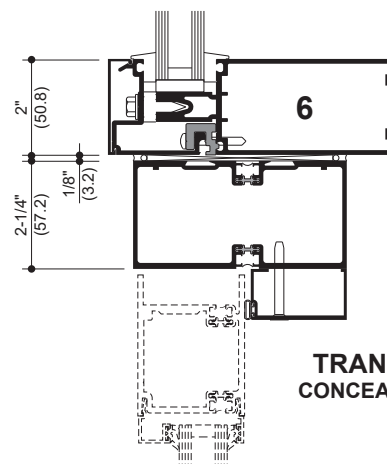
**TRANSOM BAR  
SURFACE CLOSER  
OR FLOOR CLOSER**



**TRANSOM BAR  
SURFACE CLOSER  
OR FLOOR CLOSER**



**DOOR JAMB  
BUTT HUNG OR  
OFFSET PIVOT**



**TRANSOM BAR  
CONCEALED CLOSER**

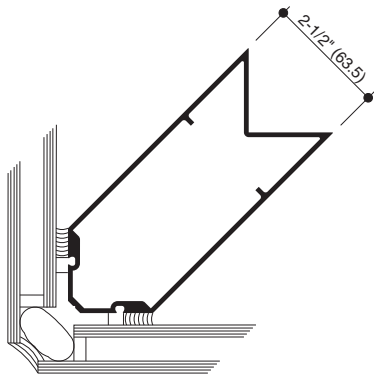
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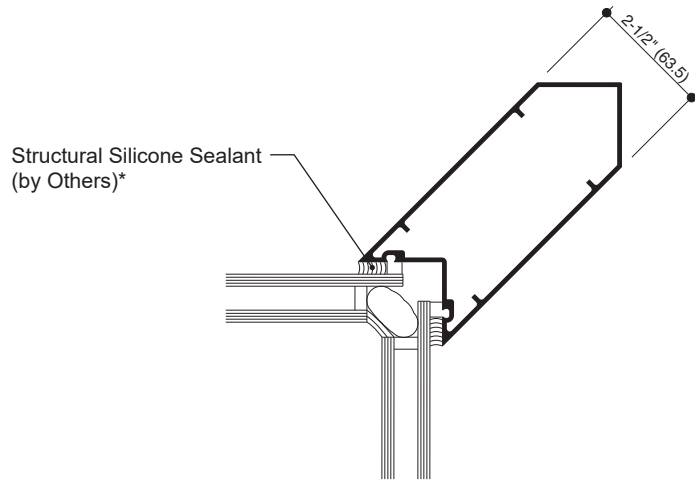


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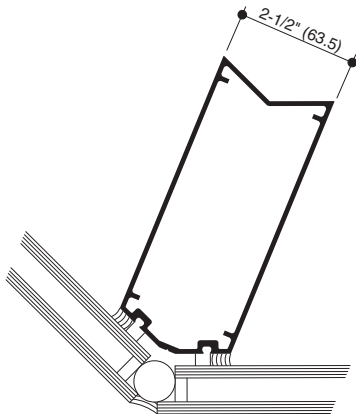
NOTE: 1" SYSTEM SHOWN, 1/4" SYSTEM SIMILAR.



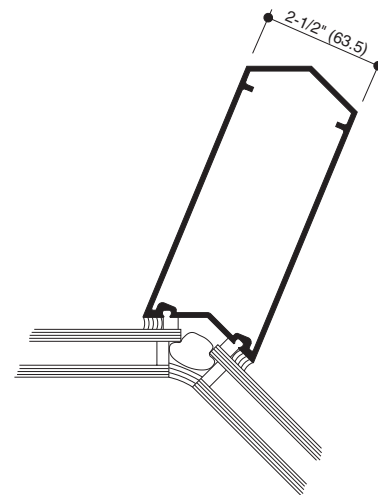
90° OUTSIDE CORNER



90° INSIDE CORNER



135° OUTSIDE CORNER



135° INSIDE CORNER

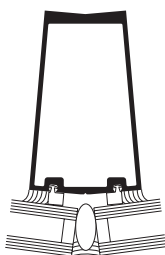
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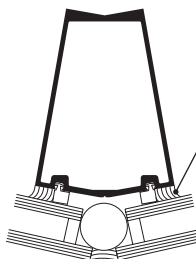
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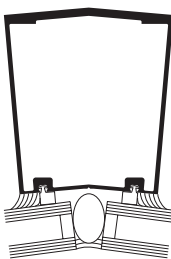
10°



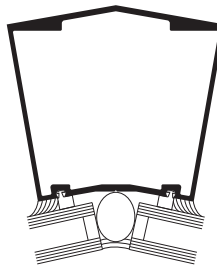
20°

Structural Silicone Sealant  
(by Others)\*

### OUTSIDE SPLAYED MULLIONS



10°

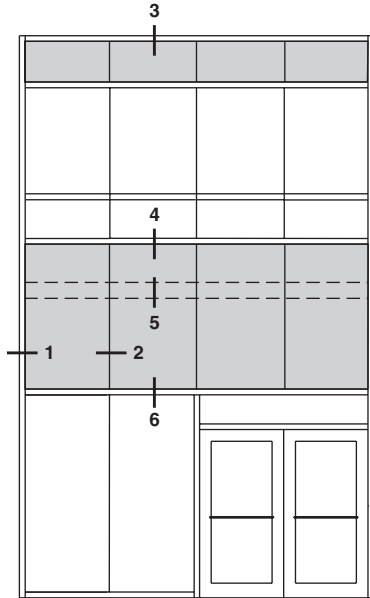


20°

### INSIDE SPLAYED MULLIONS

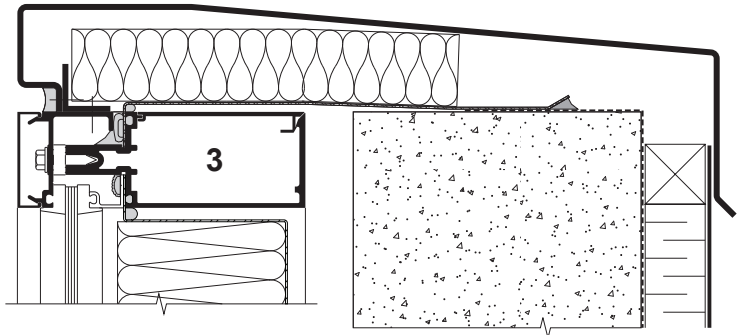
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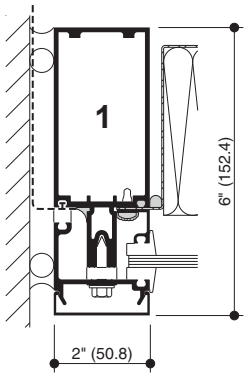
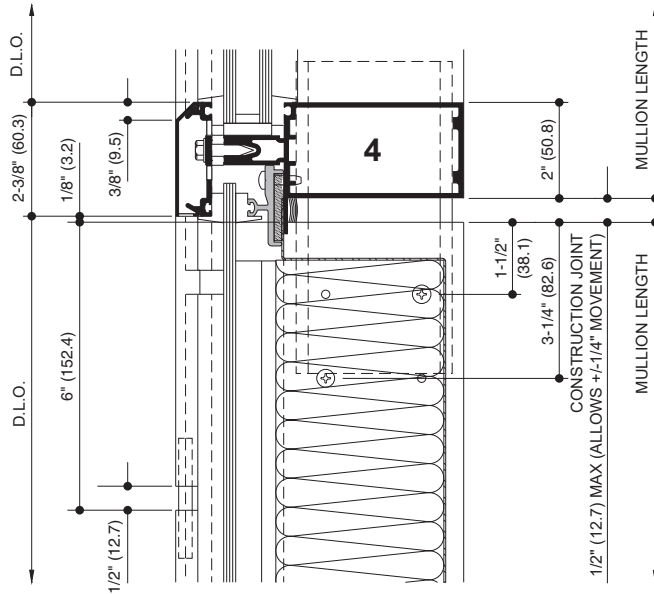


ELEVATION IS NUMBER KEYED TO DETAILS

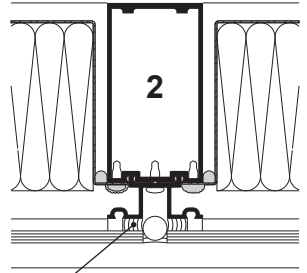
NOTE: 6" SYSTEM SHOWN,  
7-1/2" SYSTEM SIMILAR



HEAD TRANSOM AT PARAPET FLASHING

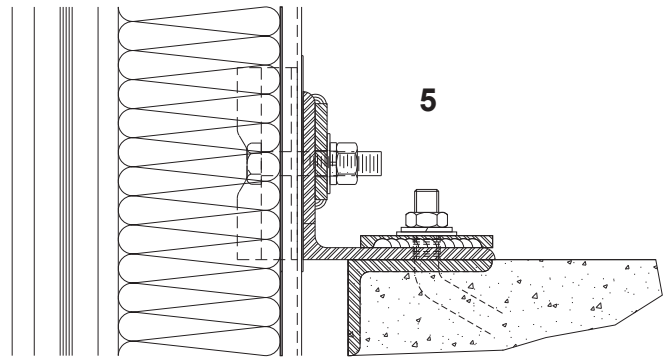


JAMB MULLION AT SPANDREL  
(With vapor barrier tie-in)



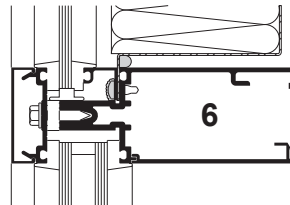
MULLION AT SPANDREL  
Structural Silicone Sealant (by Others)\*

EXPANSION JOINT



TYPICAL DEADLOAD ANCHOR

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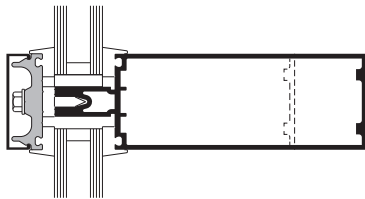
TRANSOM - SPANDREL OVER VISION

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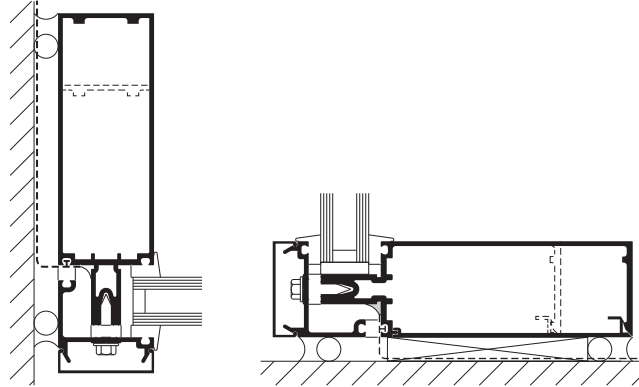
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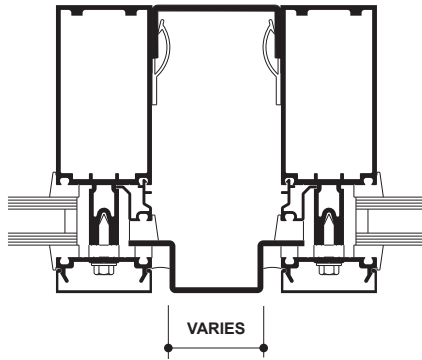
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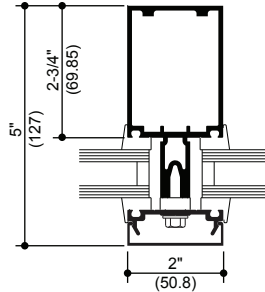
WITH FIBERGLASS PRESSURE PLATE



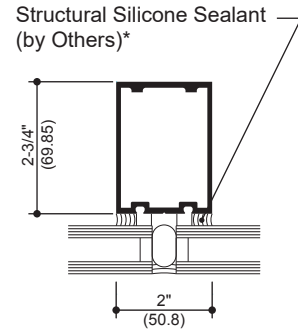
WITH VAPOR BARRIER TIE-IN



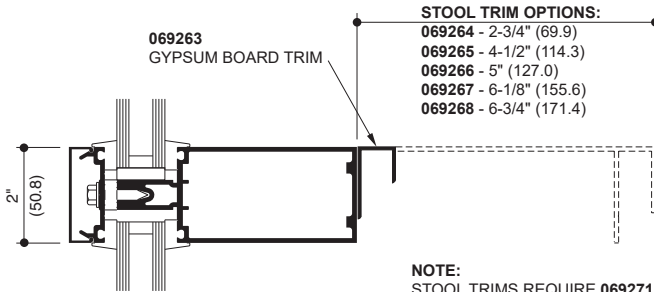
DOUBLE MULLION



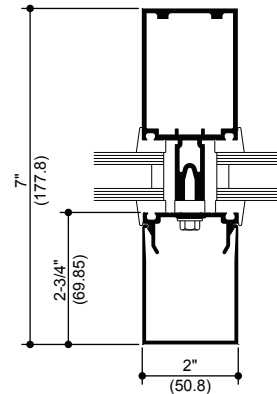
OPTIONAL MULLION



OPTIONAL SSG MULLION



INTERIOR STOOL TRIM



OPTIONAL MULLION  
OPTIONAL COVER

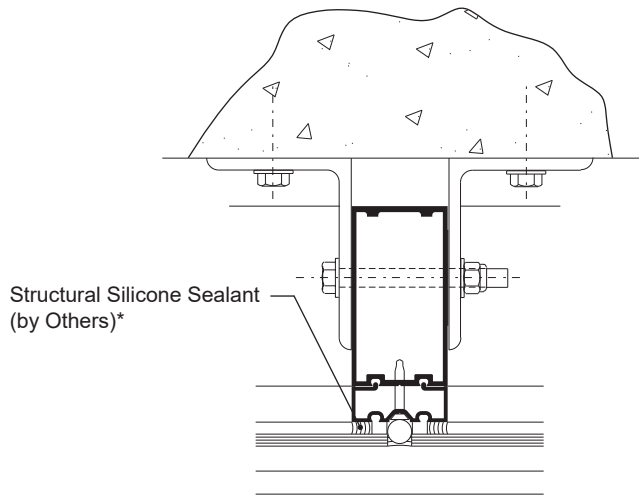
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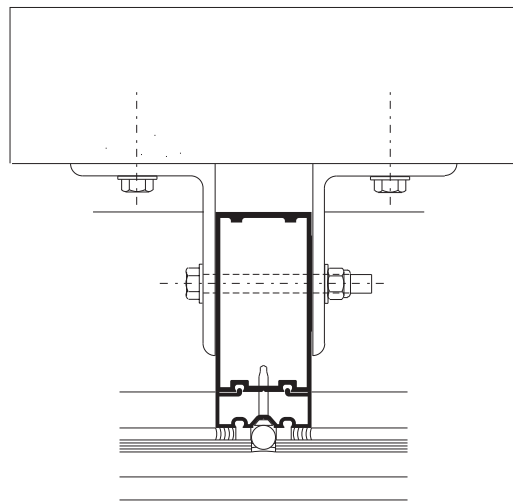
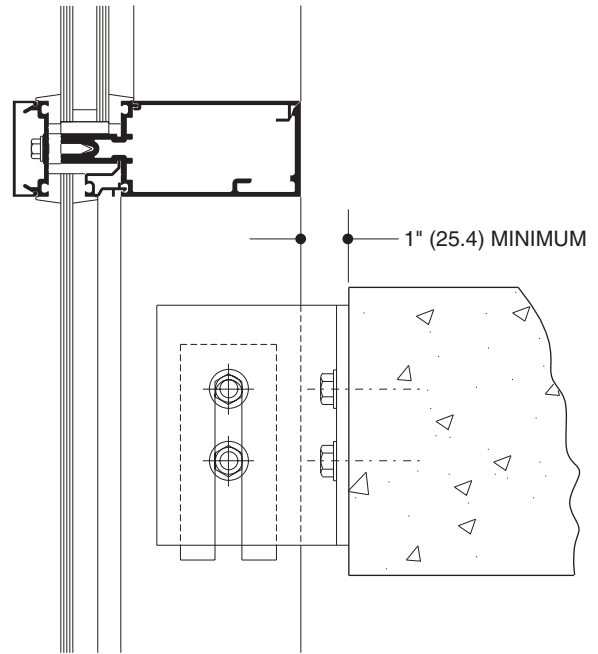
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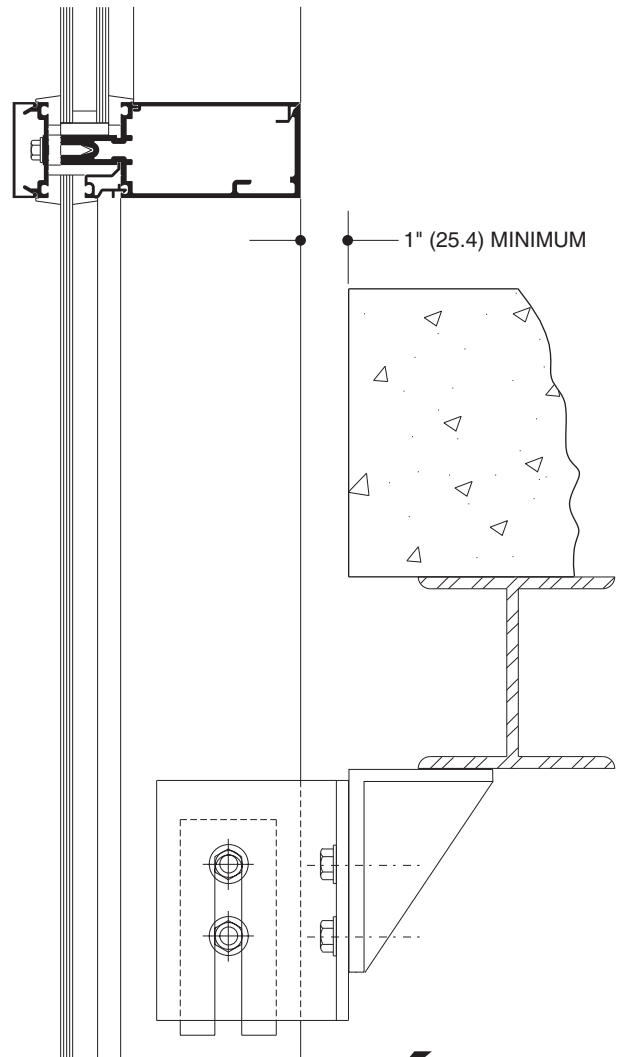
Actual project conditions will determine specific anchor design. Details on this page are for reference only.



**ANCHORING TO FLOOR SLAB**



**ANCHORING TO SUPPORT STEEL**

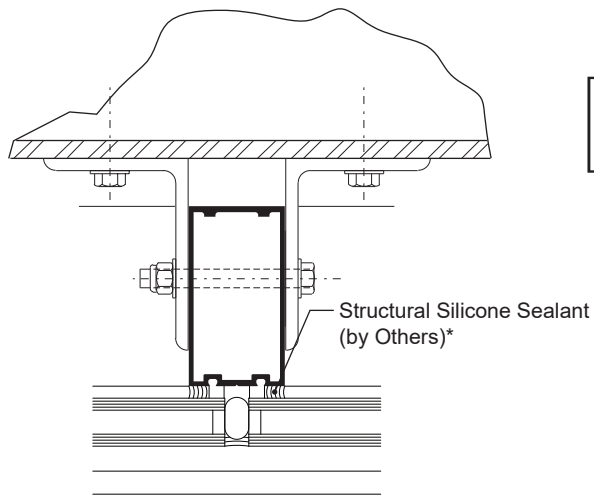


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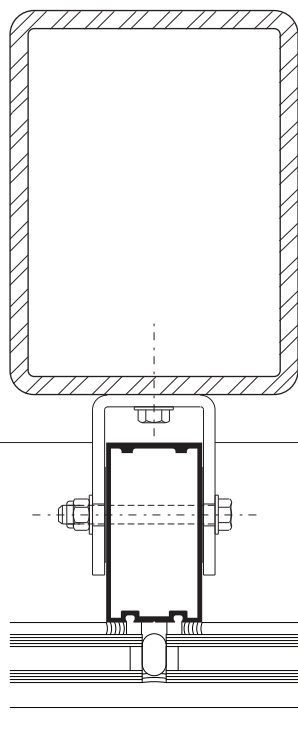
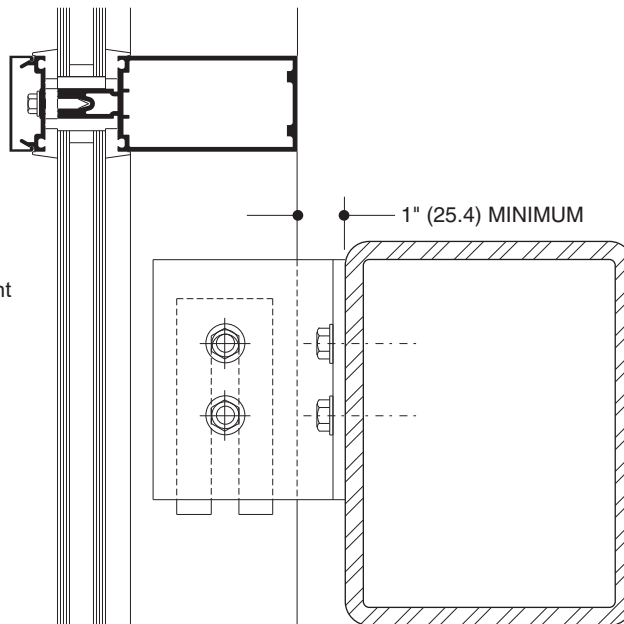
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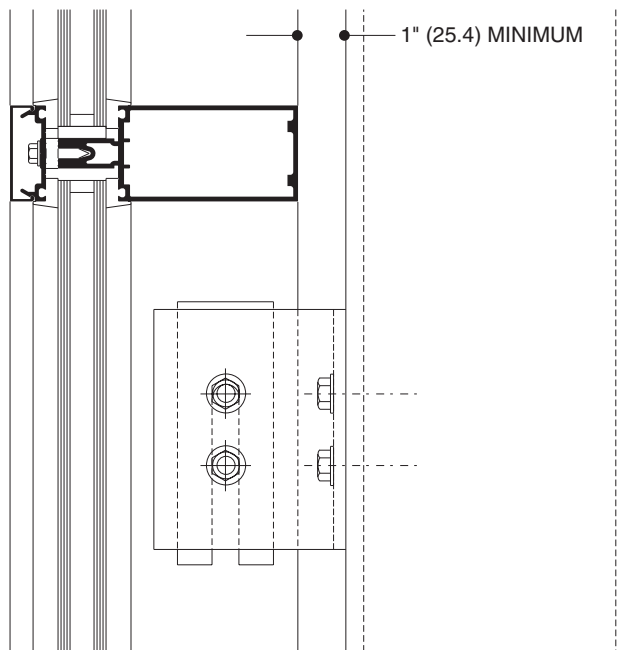
Actual project conditions will determine specific anchor design. Details on this page are for reference only.



**ANCHORING TO HORIZONTAL STRUCTURAL STEEL**



**ANCHORING TO VERTICAL STRUCTURAL STEEL**



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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.

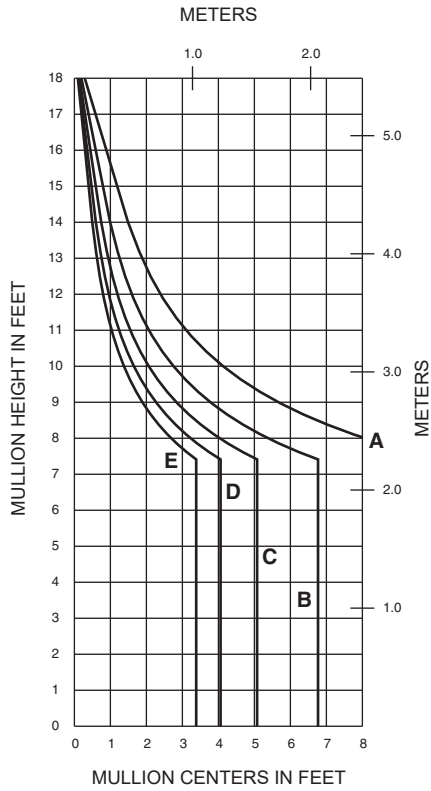
## DEADLOAD CHARTS

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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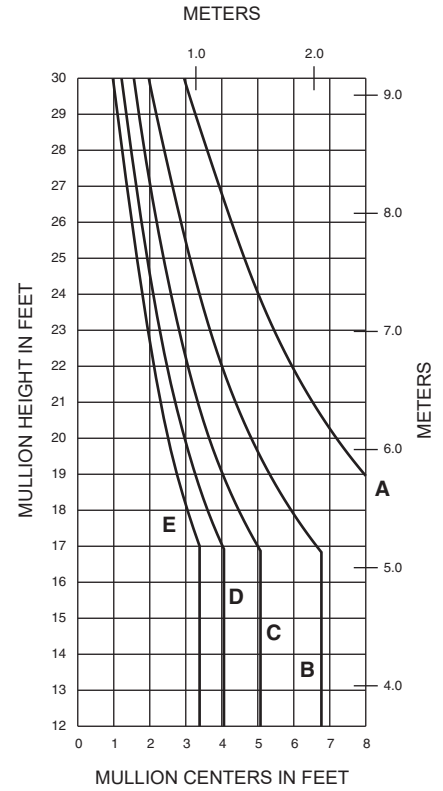
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## SINGLE SPAN

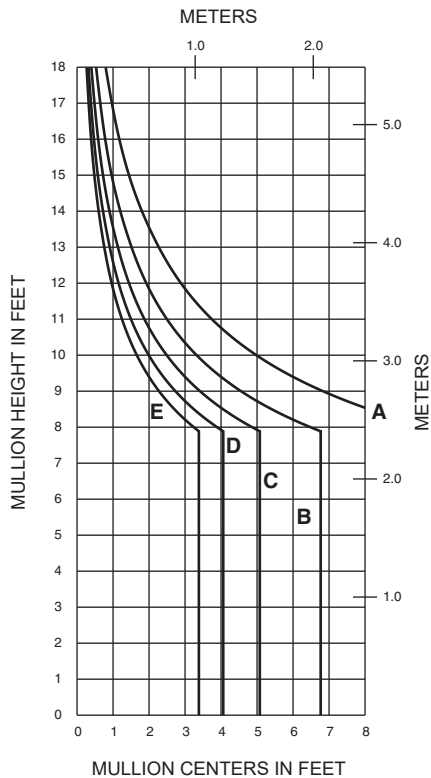


	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	20 PSF (960)	33 PSF (1580)
B =	30 PSF (1440)	50 PSF (2400)
C =	40 PSF (1920)	67 PSF (3200)
D =	50 PSF (2400)	83 PSF (4000)
E =	60 PSF (2880)	100 PSF (4790)

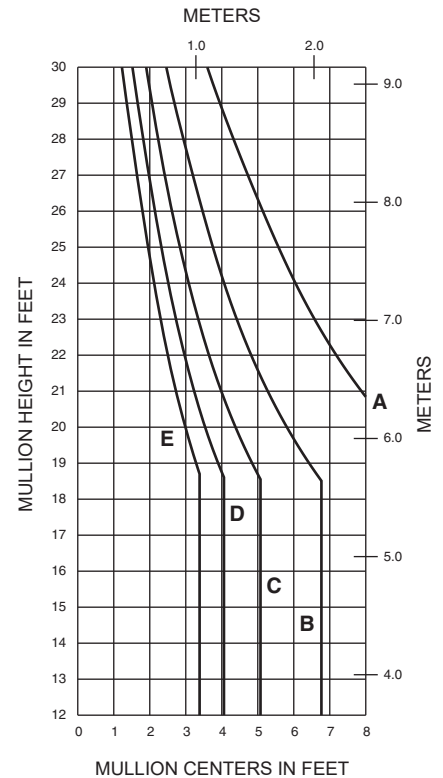
## TWIN SPAN



## SINGLE SPAN



## TWIN SPAN

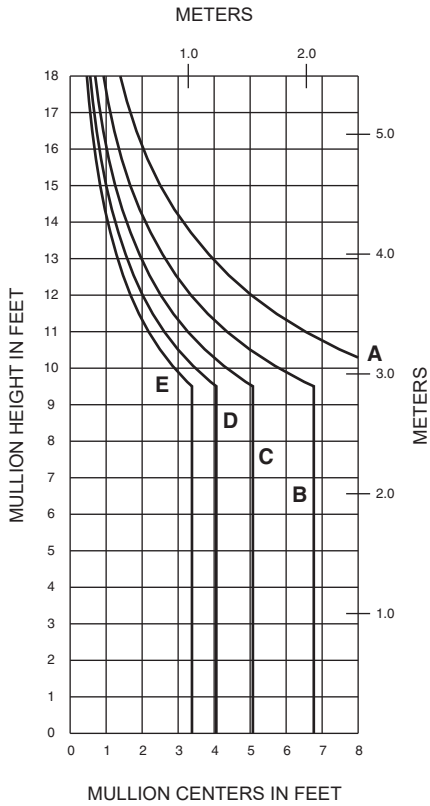


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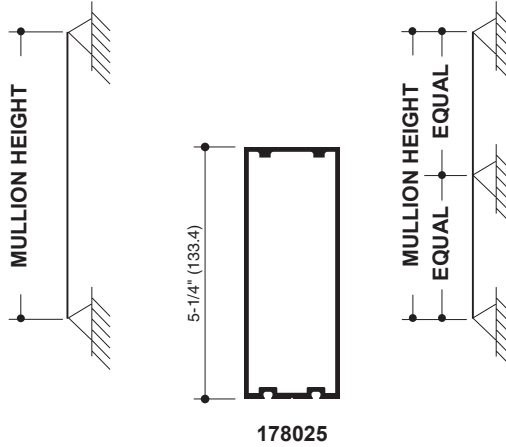
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## SINGLE SPAN

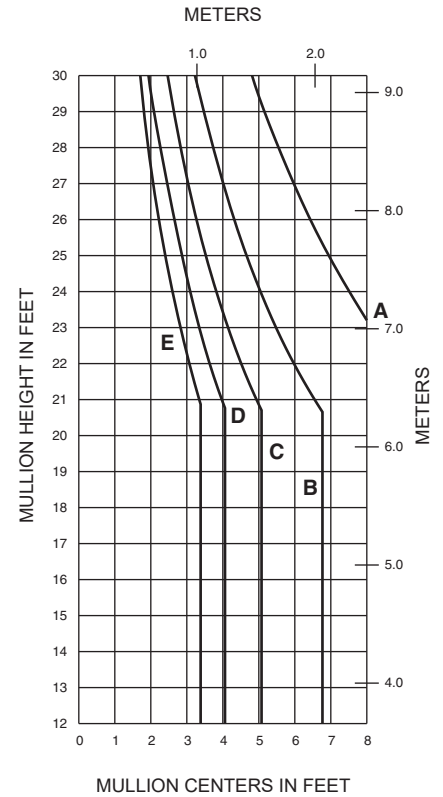


	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	20 PSF (960)	33 PSF (1580)
B =	30 PSF (1440)	50 PSF (2400)
C =	40 PSF (1920)	67 PSF (3200)
D =	50 PSF (2400)	83 PSF (4000)
E =	60 PSF (2880)	100 PSF (4790)

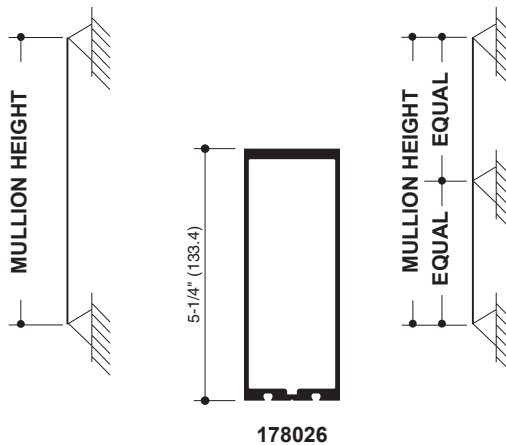
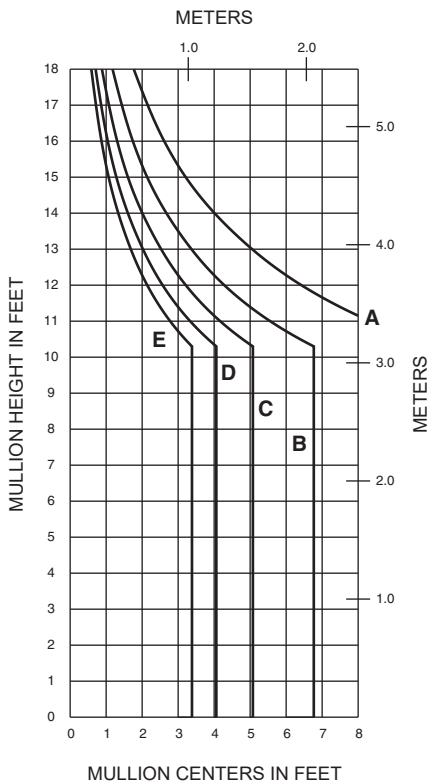


I = 5.707(237.54 x 10<sup>4</sup>)  
S = 2.132(34.94 x 10<sup>3</sup>)

## TWIN SPAN

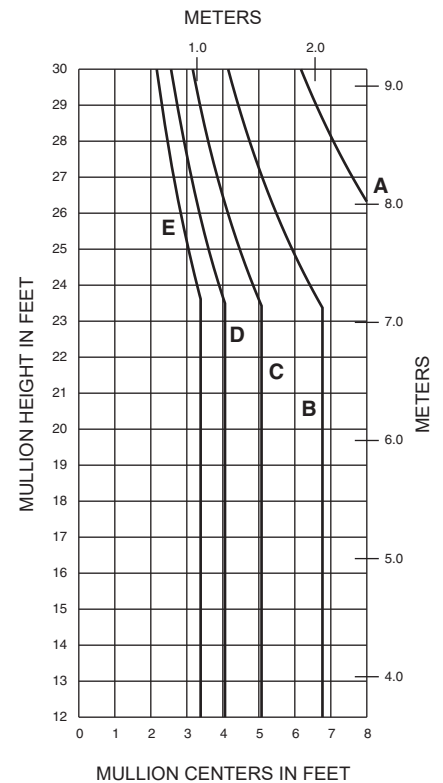


## SINGLE SPAN



I = 7.257(302.06 x 10<sup>4</sup>)  
S = 2.730(44.74 x 10<sup>3</sup>)

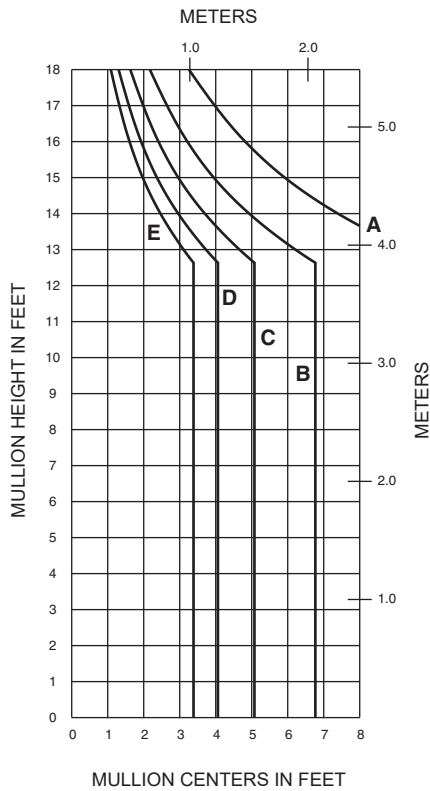
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## SINGLE SPAN

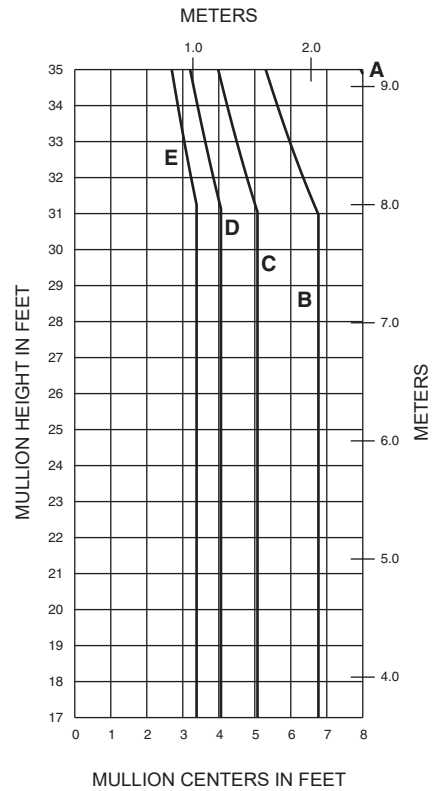


	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	20 PSF (960)	33 PSF (1580)
B =	30 PSF (1440)	50 PSF (2400)
C =	40 PSF (1920)	67 PSF (3200)
D =	50 PSF (2400)	83 PSF (4000)
E =	60 PSF (2880)	100 PSF (4790)

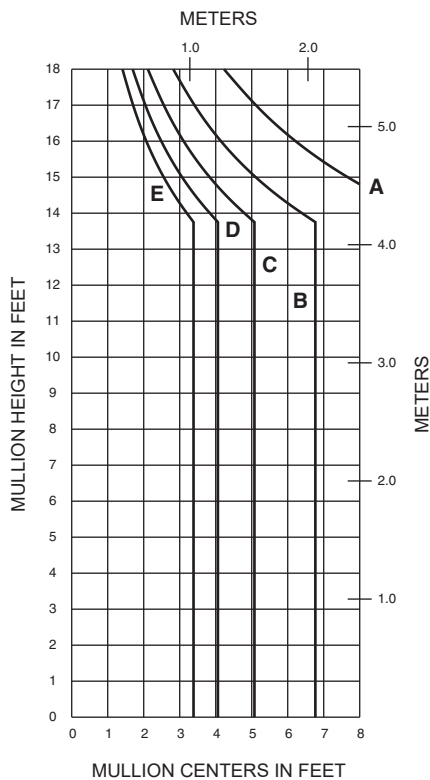
**178026**  
**W/162302**

la = 7.257(302.06 x 10<sup>4</sup>)  
Sa = 2.730(44.74 x 10<sup>3</sup>)  
ls = 2.111(87.87 x 10<sup>4</sup>)  
Ss = 1.108(18.16 x 10<sup>3</sup>)

## TWIN SPAN



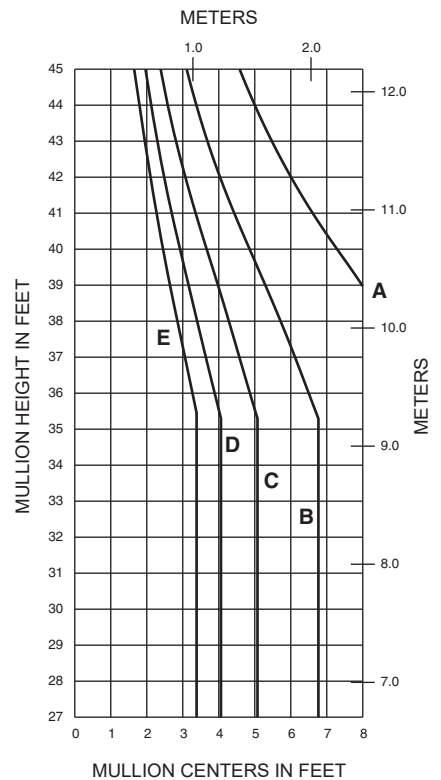
## SINGLE SPAN



**178026**  
**W/162302/303**

la = 7.257(302.06 x 10<sup>4</sup>)  
Sa = 2.730(44.74 x 10<sup>3</sup>)  
ls = 3.489(145.22 x 10<sup>4</sup>)  
Ss = 1.831(30.00 x 10<sup>3</sup>)

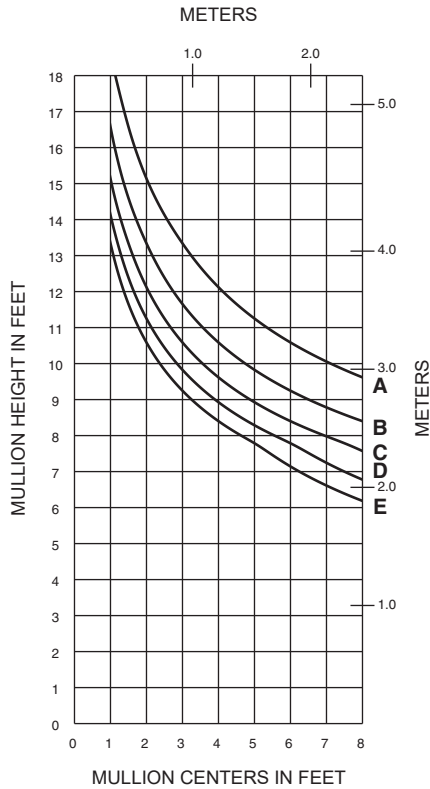
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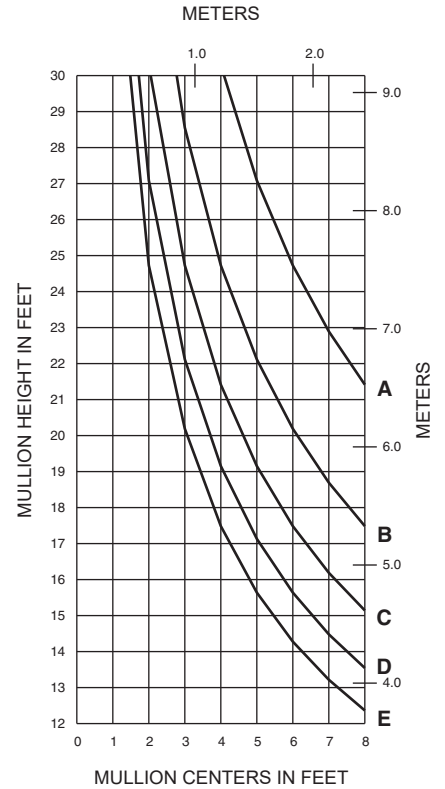
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## SINGLE SPAN

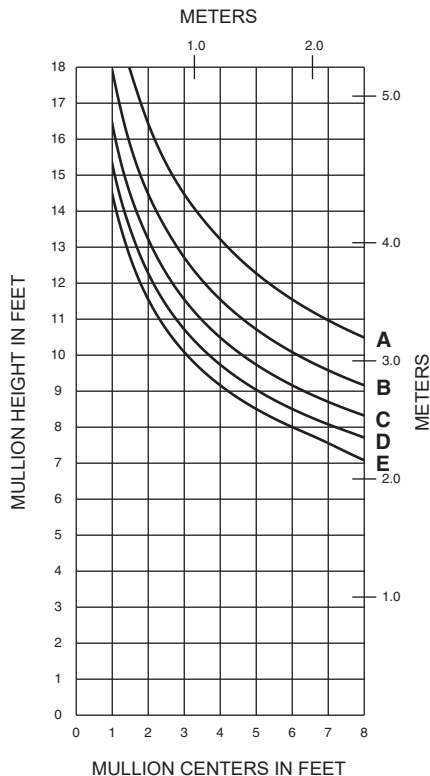


	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	20 PSF (960)	33 PSF (1580)
B =	30 PSF (1440)	50 PSF (2400)
C =	40 PSF (1920)	67 PSF (3200)
D =	50 PSF (2400)	83 PSF (4000)
E =	60 PSF (2880)	100 PSF (4790)

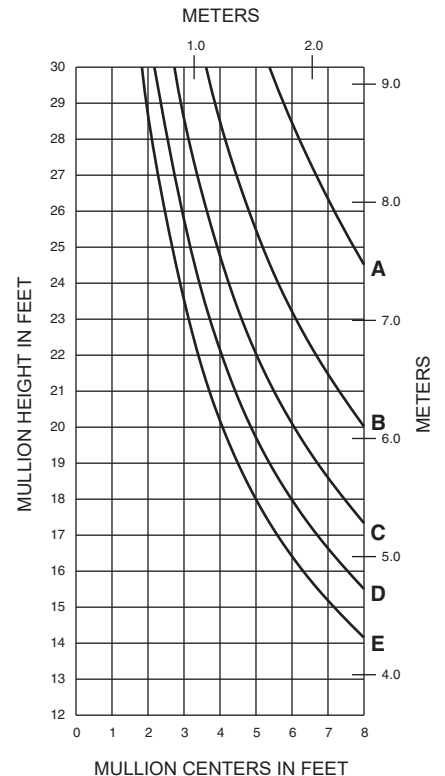
## TWIN SPAN



## SINGLE SPAN



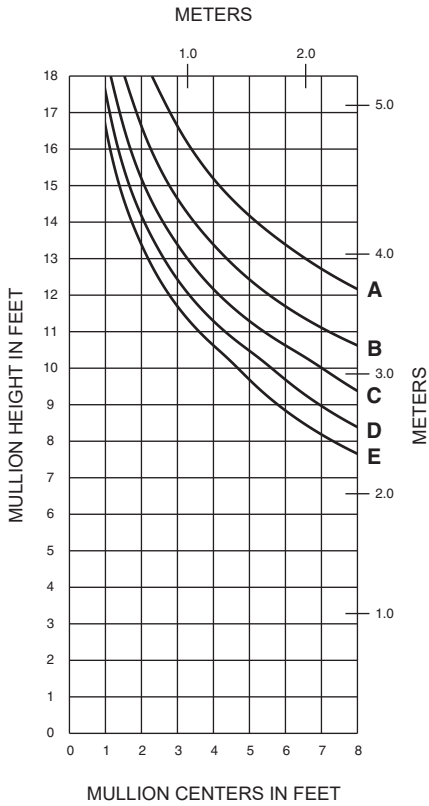
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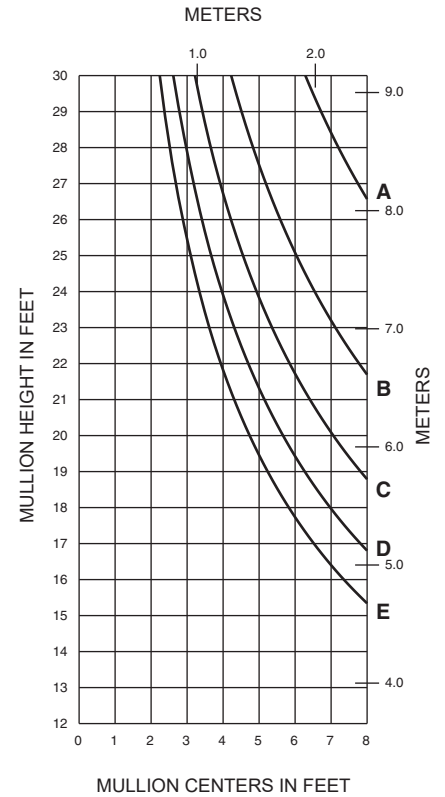
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## SINGLE SPAN

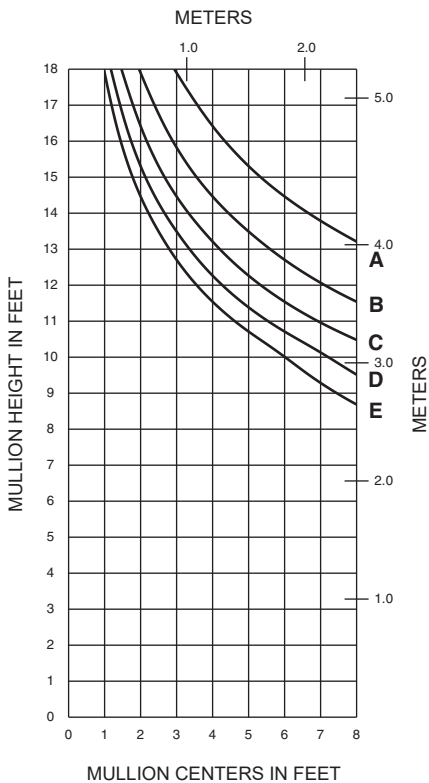


	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	20 PSF (960)	33 PSF (1580)
B =	30 PSF (1440)	50 PSF (2400)
C =	40 PSF (1920)	67 PSF (3200)
D =	50 PSF (2400)	83 PSF (4000)
E =	60 PSF (2880)	100 PSF (4790)

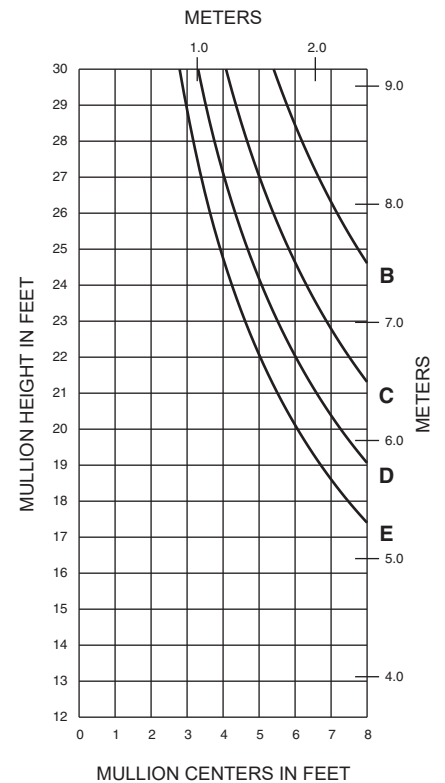
## TWIN SPAN



## SINGLE SPAN



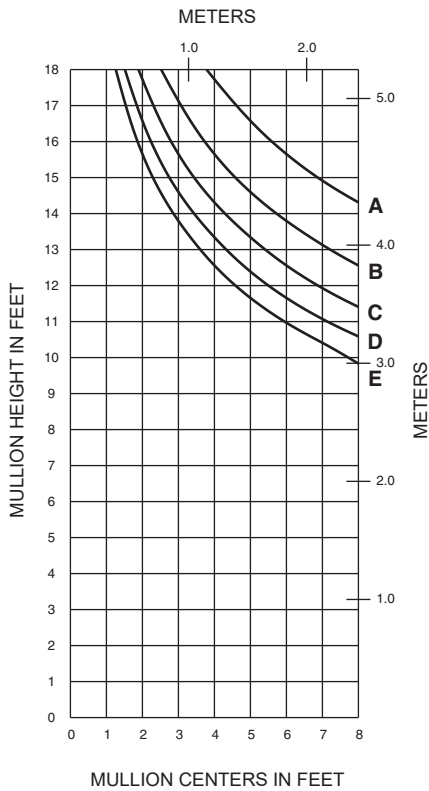
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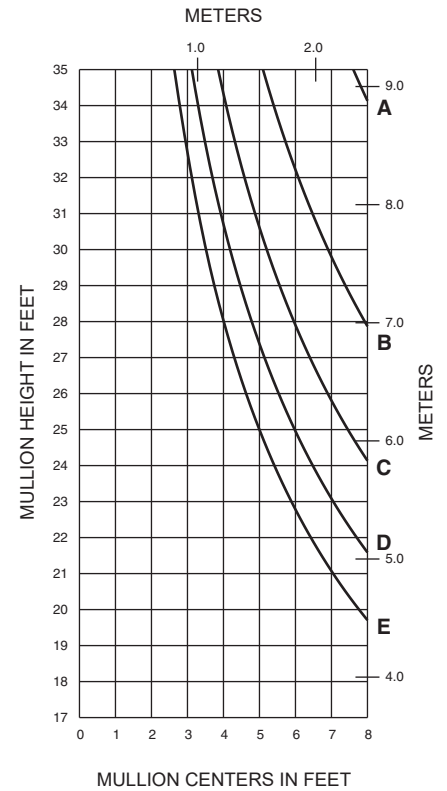
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## SINGLE SPAN

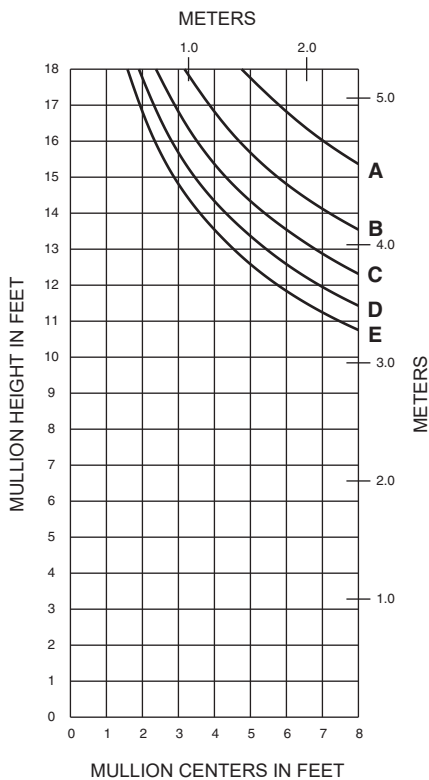


	Allowable Stress Design Load	LRFD Ultimate Design Load
<b>A =</b>	<b>20 PSF (960)</b>	<b>33 PSF (1580)</b>
<b>B =</b>	<b>30 PSF (1440)</b>	<b>50 PSF (2400)</b>
<b>C =</b>	<b>40 PSF (1920)</b>	<b>67 PSF (3200)</b>
<b>D =</b>	<b>50 PSF (2400)</b>	<b>83 PSF (4000)</b>
<b>E =</b>	<b>60 PSF (2880)</b>	<b>100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

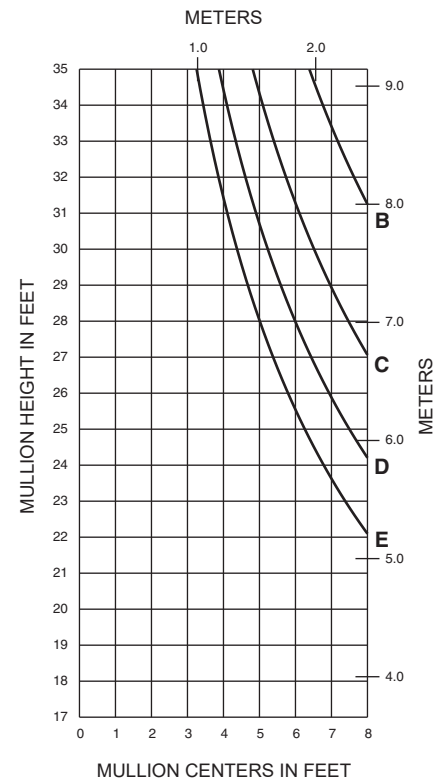
## TWIN SPAN



## SINGLE SPAN



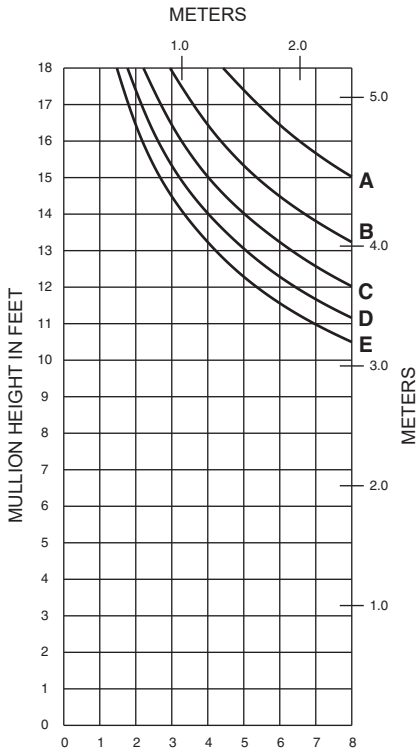
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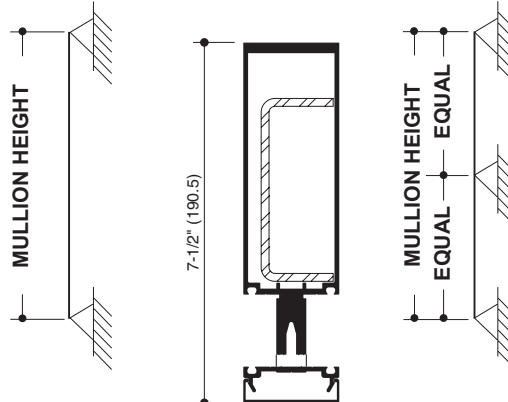
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## SINGLE SPAN



MULLION CENTERS IN FEET

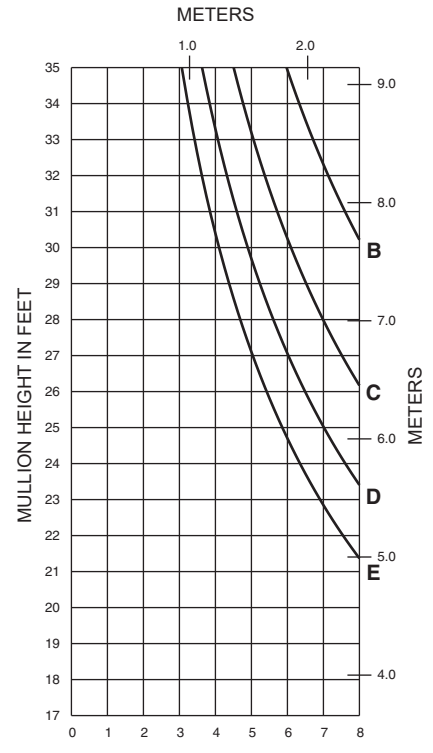
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	20 PSF (960)	33 PSF (1580)
B =	30 PSF (1440)	50 PSF (2400)
C =	40 PSF (1920)	67 PSF (3200)
D =	50 PSF (2400)	83 PSF (4000)
E =	60 PSF (2880)	100 PSF (4790)



**178004  
W/162302**

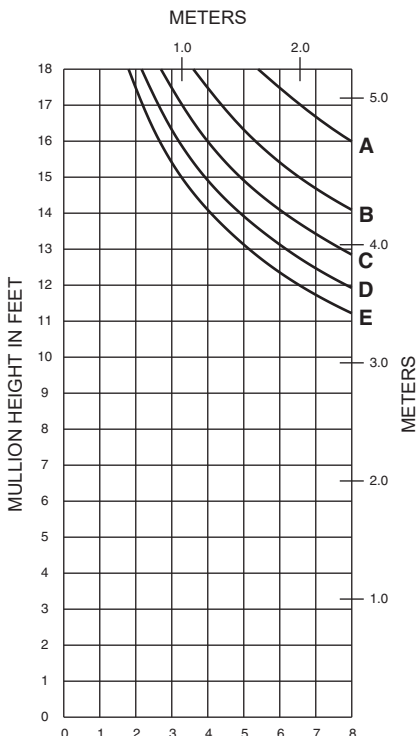
$I_a = 12.059(501.93 \times 10^4)$   
 $S_a = 3.580(58.67 \times 10^3)$   
 $I_s = 2.111(87.87 \times 10^4)$   
 $S_s = 1.108(18.16 \times 10^3)$

## TWIN SPAN

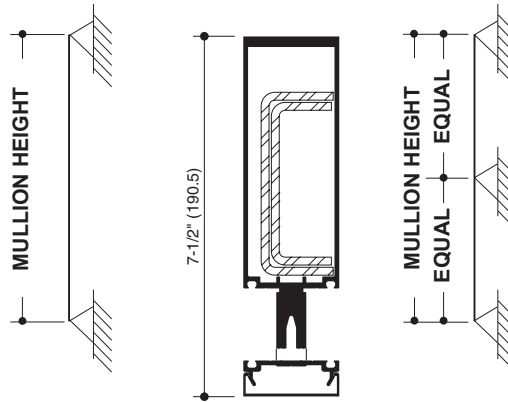


MULLION CENTERS IN FEET

## SINGLE SPAN



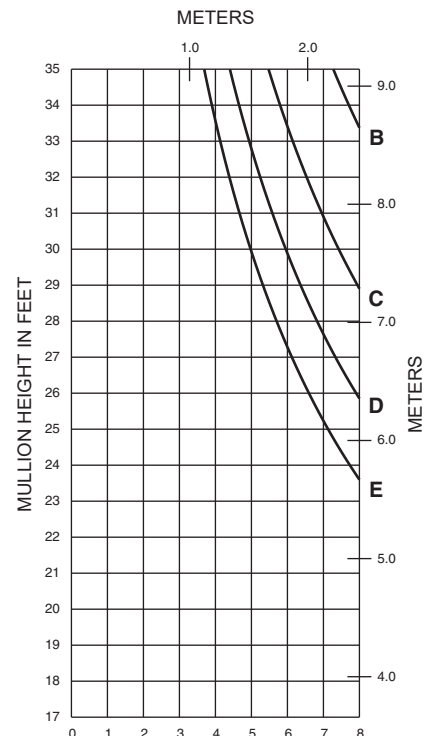
MULLION CENTERS IN FEET



**178004  
W/162302/303**

$I_a = 12.059(501.93 \times 10^4)$   
 $S_a = 3.580(58.67 \times 10^3)$   
 $I_s = 3.489(145.22 \times 10^4)$   
 $S_s = 1.831(30.00 \times 10^3)$

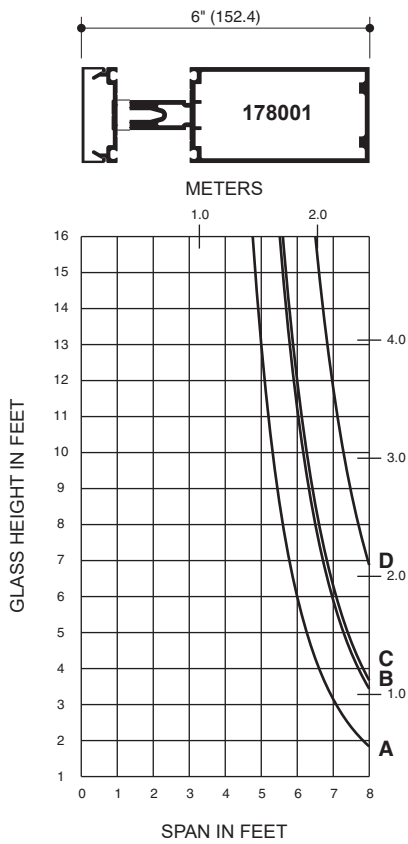
## TWIN SPAN



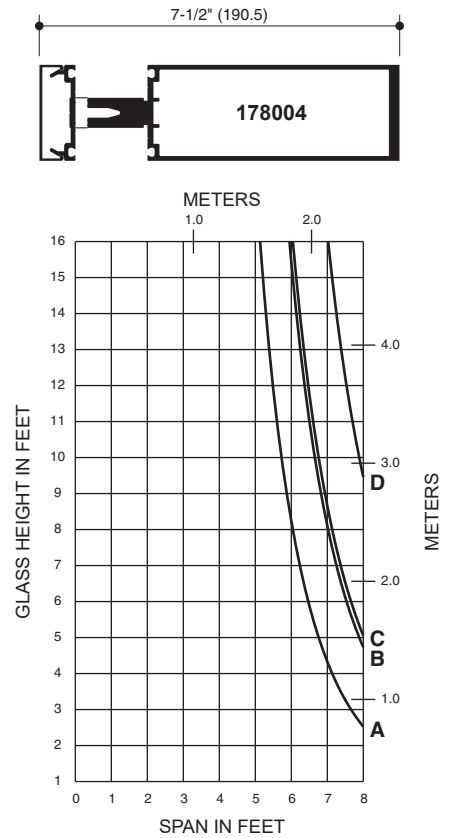
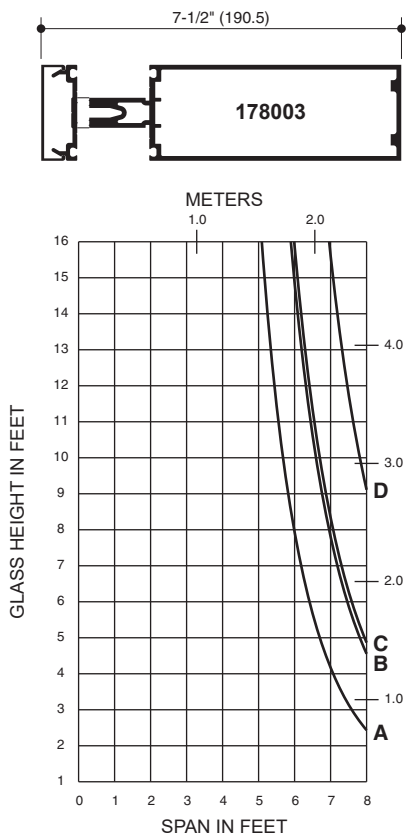
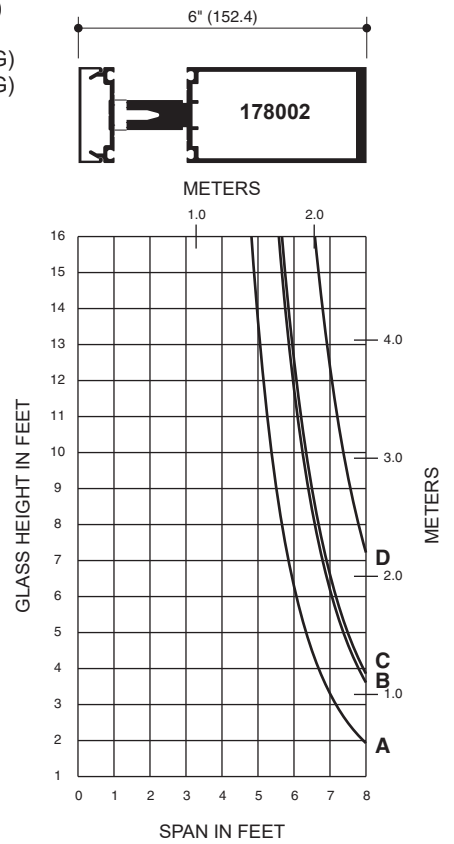
MULLION CENTERS IN FEET

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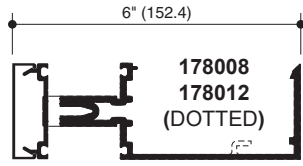


- A - 1" GLASS (1/4 POINT LOADING)
- B - 1" GLASS (1/8 POINT LOADING)
- C - 1/4" GLASS (1/4 POINT LOADING)
- D - 1/4" GLASS (1/8 POINT LOADING)

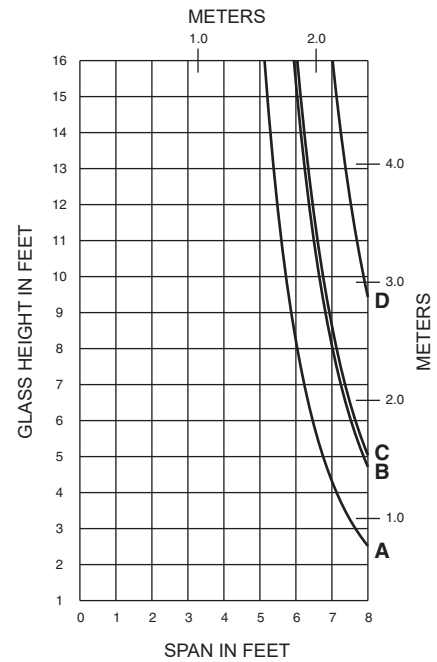
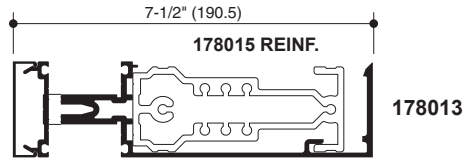
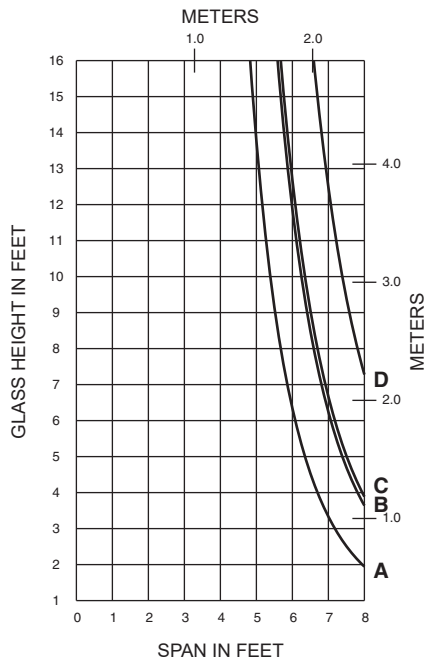
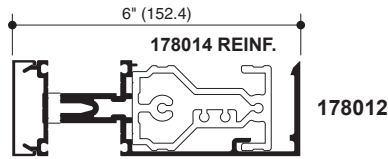
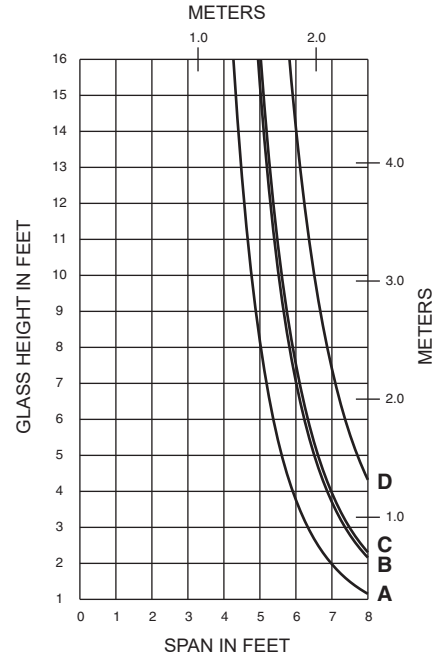
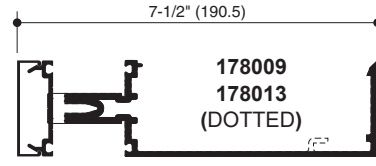
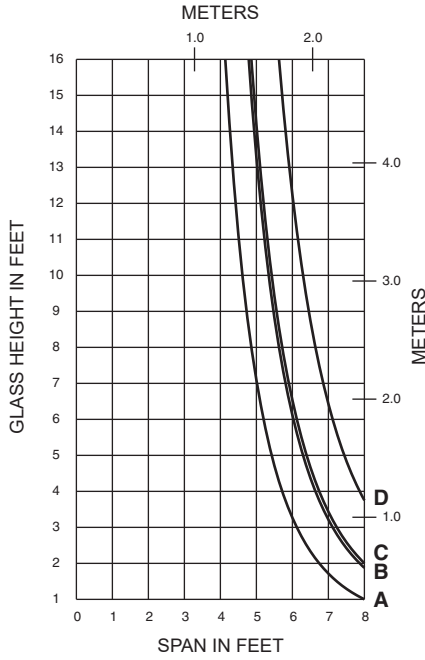


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- A - 1" GLASS (1/4 POINT LOADING)
- B - 1" GLASS (1/8 POINT LOADING)
- C - 1/4" GLASS (1/4 POINT LOADING)
- D - 1/4" GLASS (1/8 POINT LOADING)

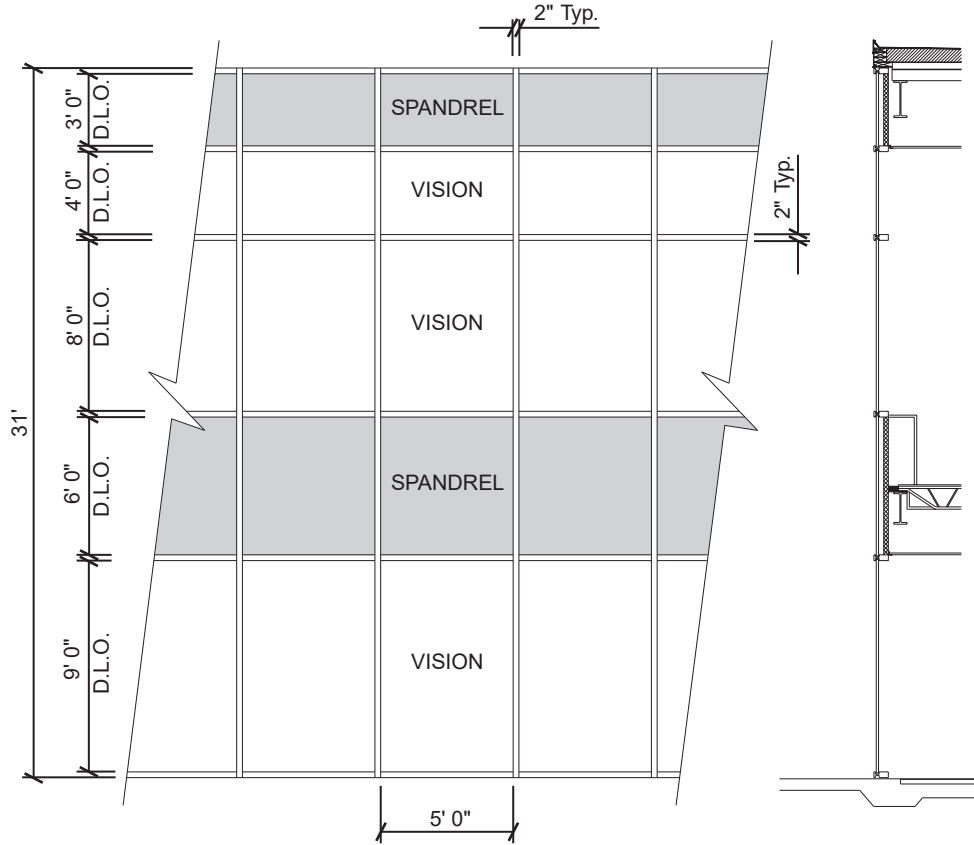


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**Generic Project Specific U-factor Example Calculation**  
**(Percent of Glass will vary on specific products depending on sitelines)**  
 (Based on single bay of Curtain Wall/Window Wall)



**Vision Area**

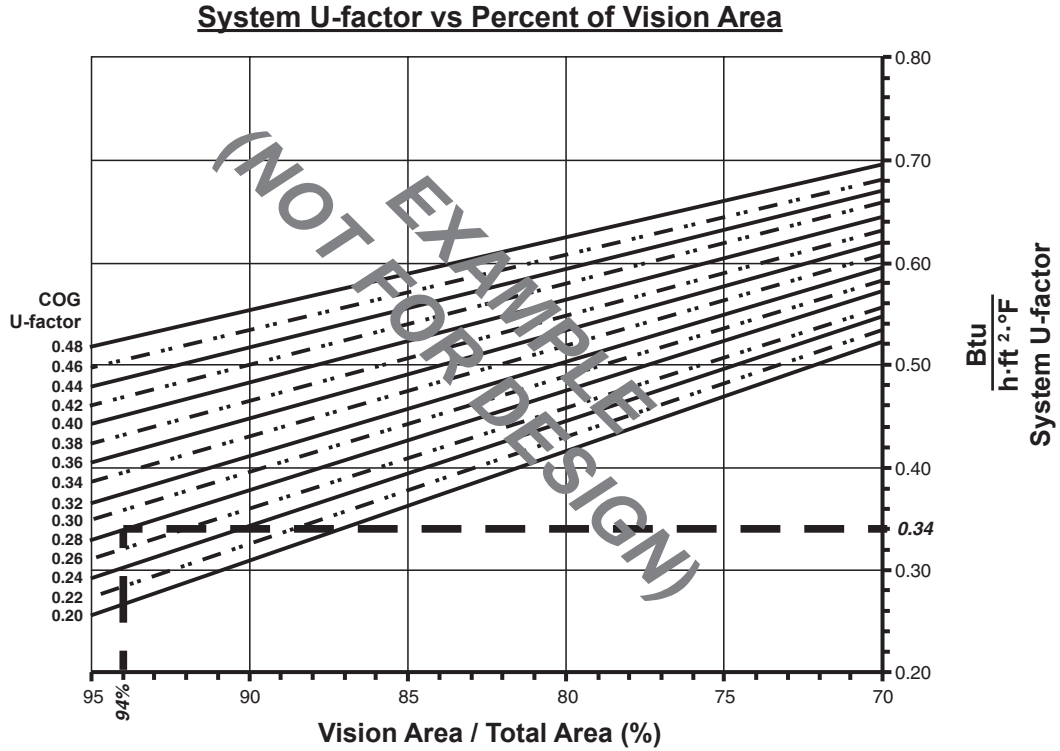
Example Glass U-factor	= 0.28 Btu/(ft <sup>2</sup> · h · °F)
Vision Area	= 5(9 + 8 + 4) = 105.0 ft <sup>2</sup>
Total Area (Vision)*	= 5' 2" (9' 3" + 8' 2" + 4' 2") = 111.5 ft <sup>2</sup>
Percentage of Vision Glass	= (Vision Area ÷ Total Area)100 = (105.0 ÷ 111.5)100 = 94%

\* Area taken to the centerlines of vertical mullions and centerline of horizontal at spandrels.

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Vision Area Chart



**Based on a single curtain wall bay of 94% vision glass and center of glass U-factor of 0.28, System U-factor is equal to 0.34 Btu/(h·ft<sup>2</sup>·°F)**

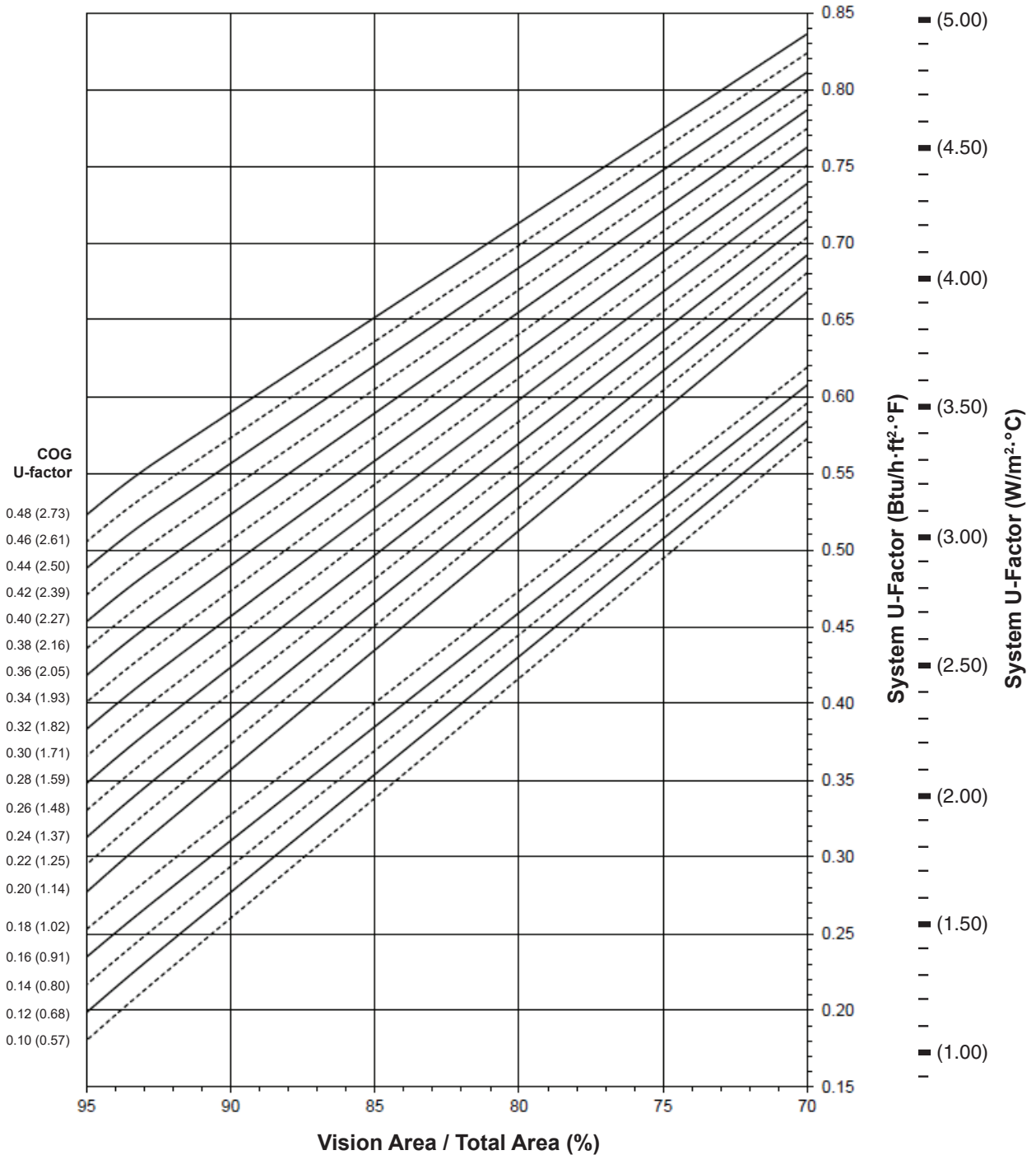
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### Aluminum Pressure Plate 1" Double Glazed - Aluminum Glazing Spacer

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

#### System U-Factor for Vision Glass

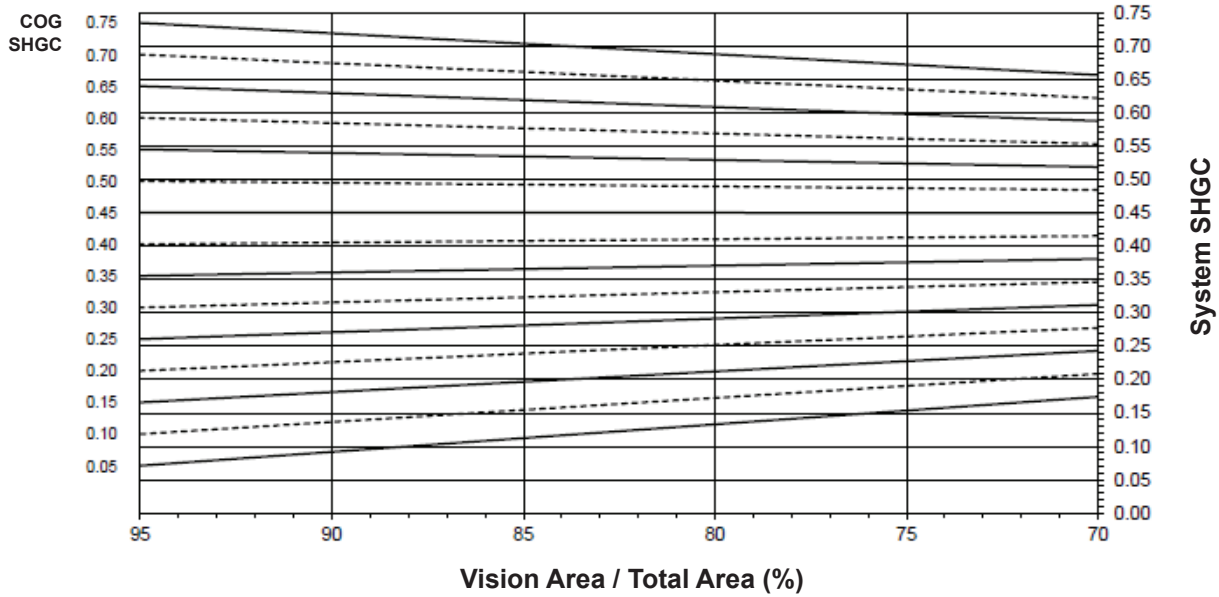


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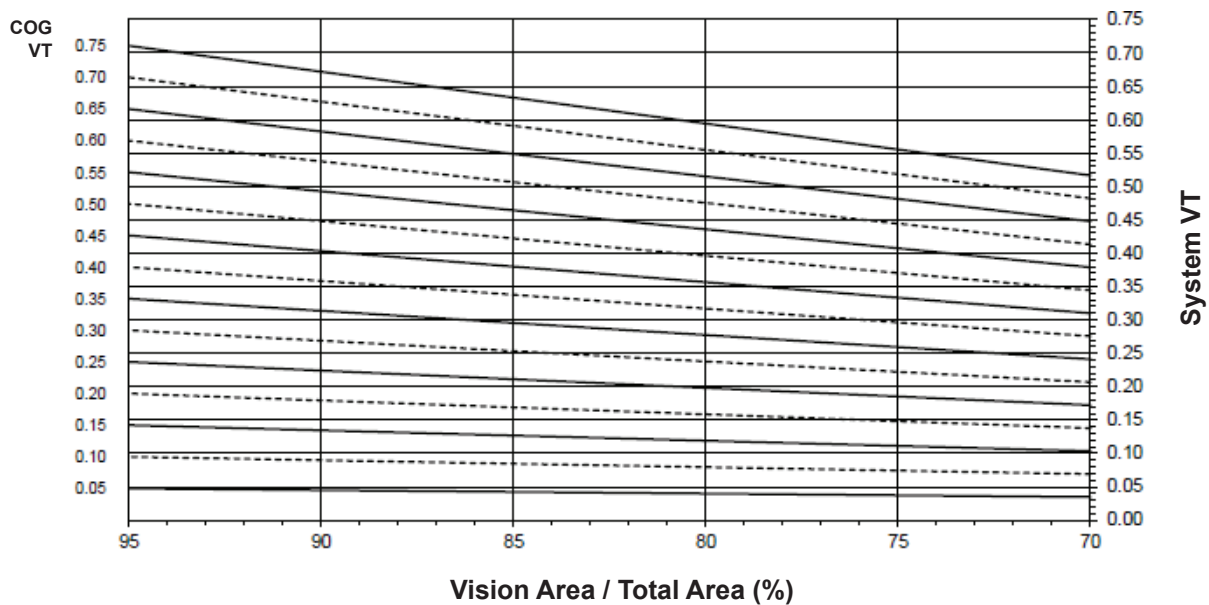
## Aluminum Pressure Plate 1" Double Glazed - Aluminum Glazing Spacer

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



Charts are generated per AAMA 507.

### System Visible Transmittance (VT) vs Percent of Vision Area



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	0.56
0.46	0.54
0.44	0.52
0.42	0.51
0.40	0.49
0.38	0.47
0.36	0.46
0.34	0.44
0.32	0.42
0.30	0.40
0.28	0.39
0.26	0.37
0.24	0.35
0.22	0.34
0.20	0.32
0.18	0.29
0.16	0.27
0.14	0.26
0.12	0.24
0.10	0.22

### Aluminum Pressure Plate 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	0.73
0.70	0.68
0.65	0.63
0.60	0.59
0.55	0.54
0.50	0.50
0.45	0.45
0.40	0.40
0.35	0.36
0.30	0.31
0.25	0.27
0.20	0.22
0.15	0.17
0.10	0.13
0.05	0.08

### Visible Transmittance <sup>2</sup>

Glass VT <sup>3</sup>	Overall VT <sup>4</sup>
0.75	0.69
0.70	0.65
0.65	0.60
0.60	0.55
0.55	0.51
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	0.18
0.15	0.14
0.10	0.09
0.05	0.05

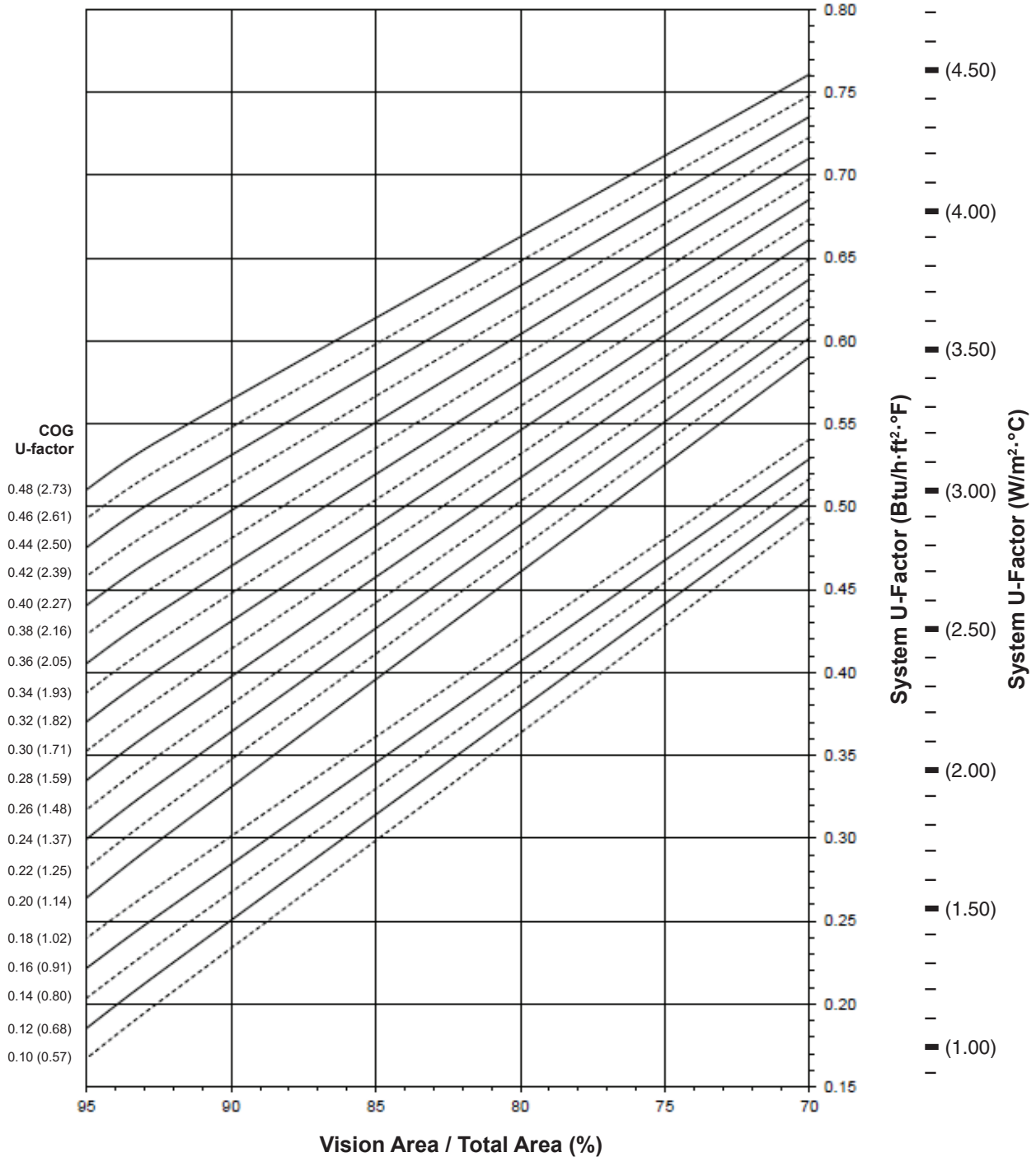
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Fiberglass Pressure Plate  
1" Double Glazed - Aluminum Glazing Spacer

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

System U-Factor for Vision Glass



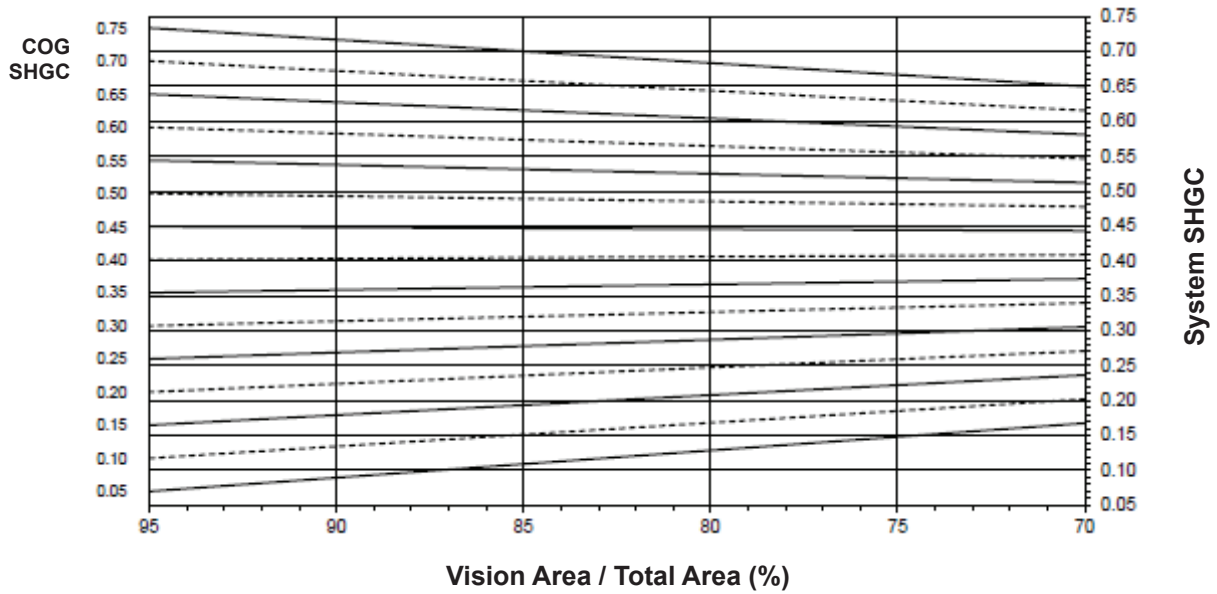
Notes for System U-factor, SHGC and VT charts:  
For glass values that are not listed, linear interpolation is permitted.  
Glass properties are based on center of glass values and are obtained from your glass supplier.

Laws and building and safety codes governing the design and use of 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.

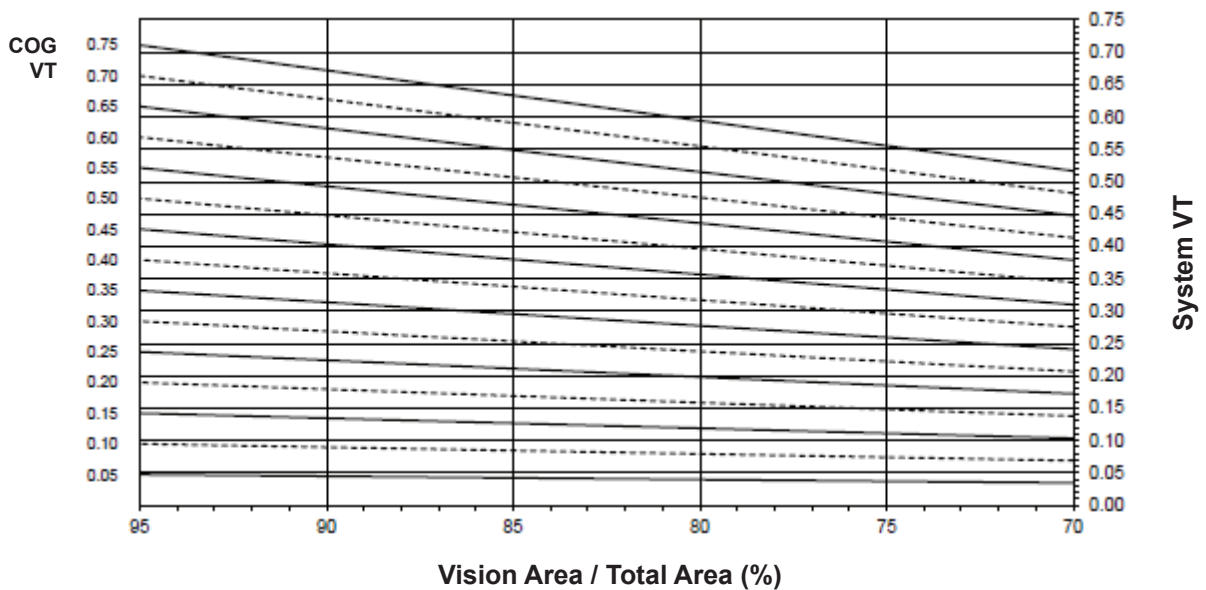
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## Fiberglass Pressure Plate 1" Double Glazed - Aluminum Glazing Spacer

### 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>
0.48	0.54
0.46	0.52
0.44	0.51
0.42	0.49
0.40	0.47
0.38	0.45
0.36	0.44
0.34	0.42
0.32	0.40
0.30	0.38
0.28	0.37
0.26	0.35
0.24	0.33
0.22	0.32
0.20	0.30
0.18	0.27
0.16	0.25
0.14	0.24
0.12	0.22
0.10	0.20

**Fiberglass Pressure Plate  
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	0.73
0.70	0.68
0.65	0.63
0.60	0.59
0.55	0.54
0.50	0.49
0.45	0.45
0.40	0.40
0.35	0.36
0.30	0.31
0.25	0.26
0.20	0.22
0.15	0.17
0.10	0.13
0.05	0.08

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

Glass VT <sup>3</sup>	Overall VT <sup>4</sup>
0.75	0.69
0.70	0.65
0.65	0.60
0.60	0.55
0.55	0.51
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	0.18
0.15	0.14
0.10	0.09
0.05	0.05

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CONDENSATION RESISTANCE

Glazing Infill	Pressure Plate Type	Condensation Resistance Factor (CRF) AAMA 1503		Temperature Index (TI) CSA A440-0	
		Frame	Glass	Frame	Glass
1" Double	Aluminum	76	70	67	59

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