

Features

- 1600 Wall System^{®2} is an outside glazed structurally silicone glazed curtain wall
- 1600 Wall System^{®2} has a 2-1/2" (63.5) sightline
- Standard 6" (152.4) or 7-1/2" (190.5) depth systems
- Standard infill options 1/4" (6.4) and 1" (25.4), other infills available
- 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
- Corners and splayed mullions
- Offers integrated entrance framing systems
- Silicon compatible glazing materials for long-lasting seals
- 1600 Wall System^{®2} has been small and large missile impact and cycle tested
- Two color option
- Permanodic[®] anodized finishes option
- Painted finishes in standard and custom choices

Optional Features

- Steel reinforcing
- Rain screen and backpans
- Optional deep profile and bull-nose covers
- Deep and heavy-weight mullions
- Fiberglass pressure plates
- Veneer system
- Integrates with standard Kawneer windows and GLASSvent[®] windows for curtain wall
- Integrates with Versoleil[®] SunShade Outrigger System and Horizontal Single Blade Systems
- Profit\$Maker[®] Plus die sets
- Hurricane impact resistant framing option: 7-13/16" (198.4)
- Seismic performance tested with AAMA 501.4 and AAMA 501.6 standards

Product Applications

- Ideal for low to mid-rise applications where high performance is desired
- It is also the right choice for high span applications

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:

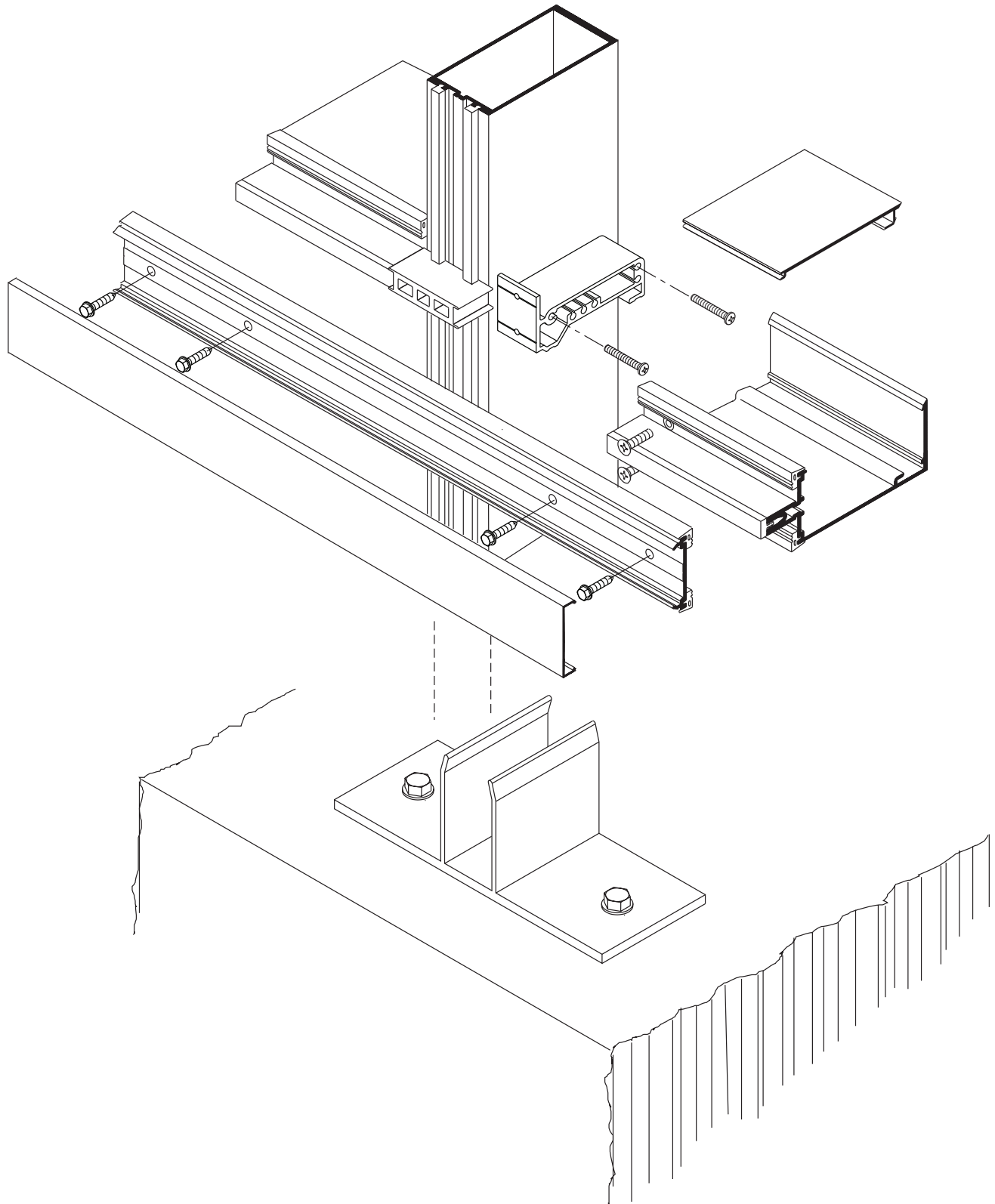
- m – meter
- cm – centimeter
- mm – millimeter
- s – second
- Pa – pascal
- MPa – megapascal

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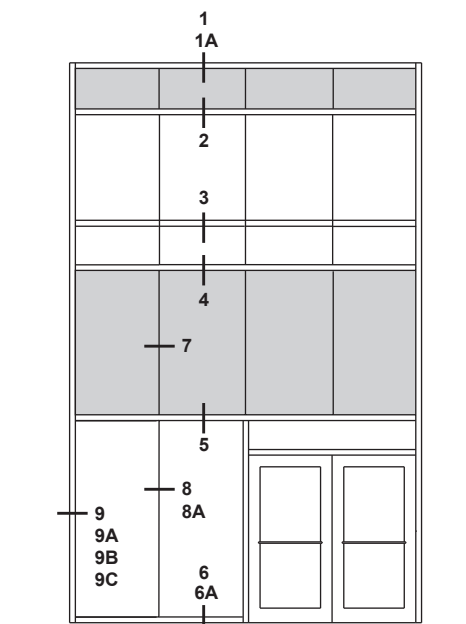
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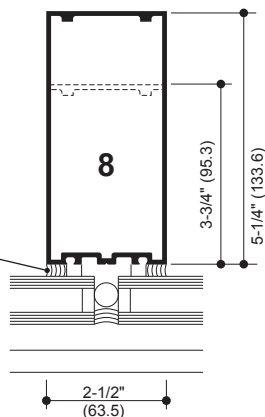
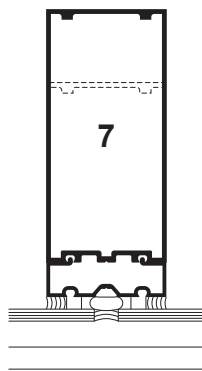
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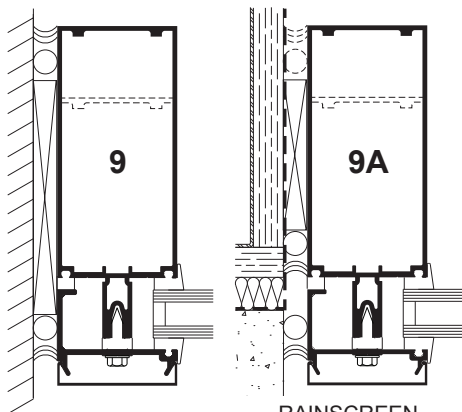
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ELEVATION IS NUMBER KEYED TO DETAILS

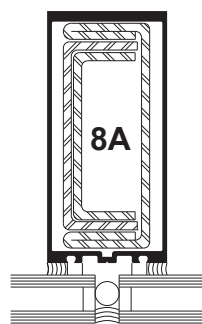


Structural Silicone Sealant (by Others)*

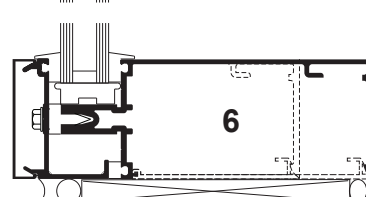
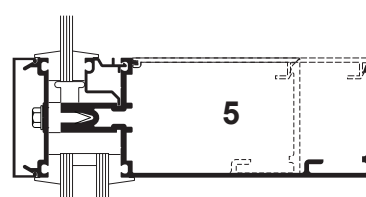
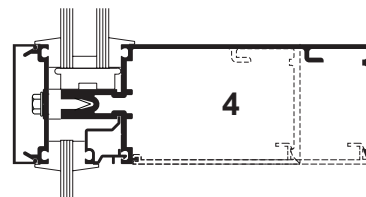
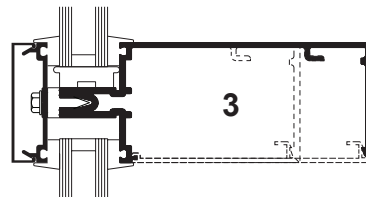
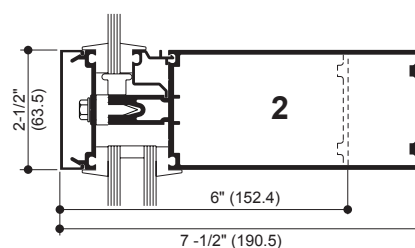
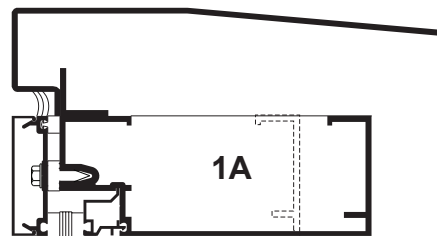
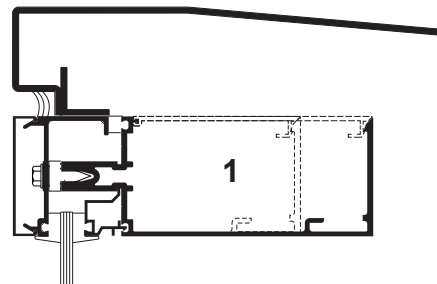
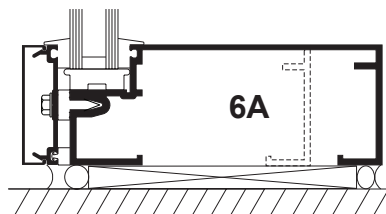
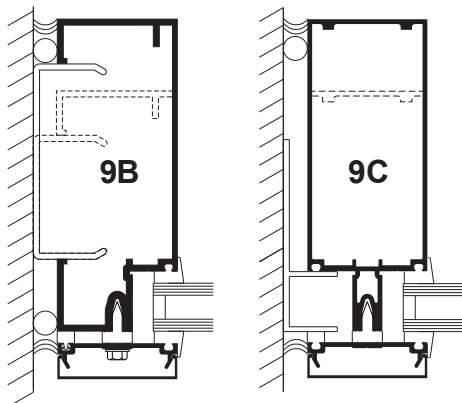


RAINSCREEN AIR/WATER SEAL

Note: Jamb detail shown only, other perimeter details similar.



OPTIONAL STEEL REINFORCING AS REQUIRED



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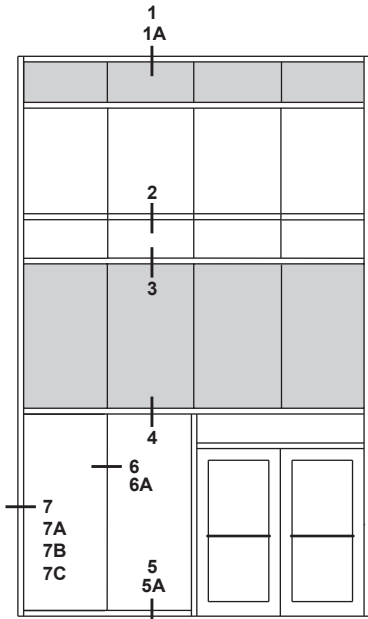
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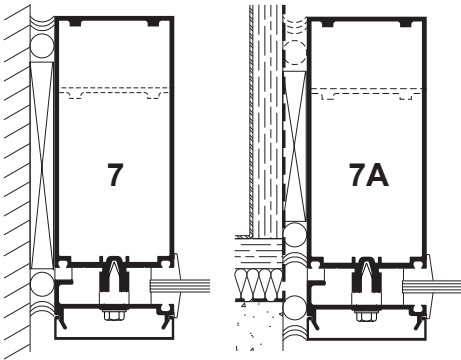
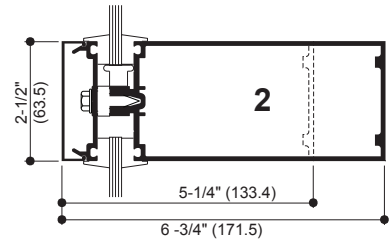
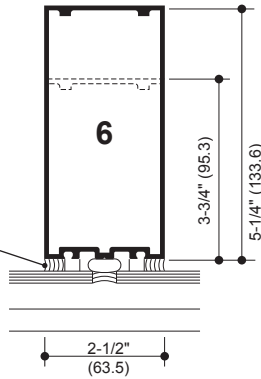
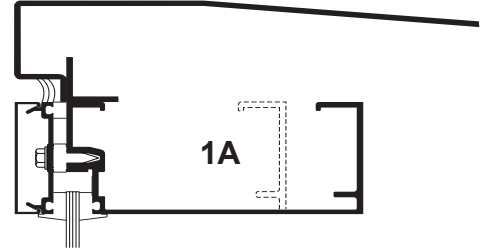
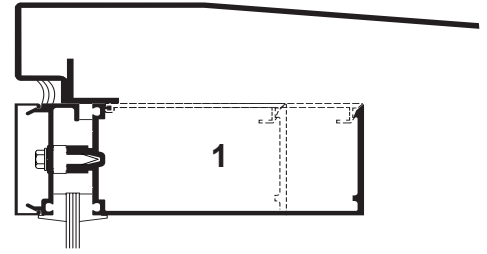
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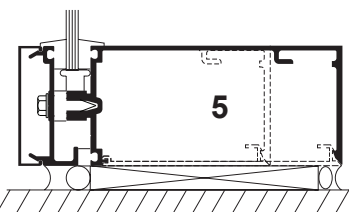
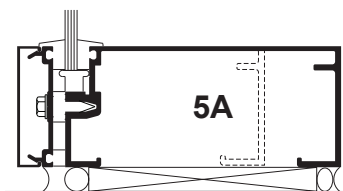
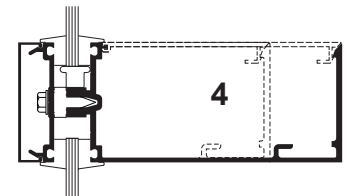
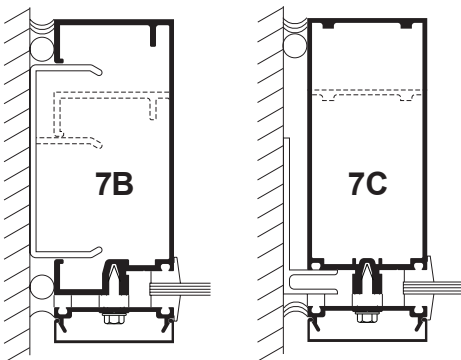
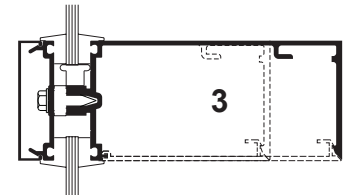
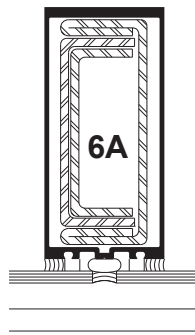
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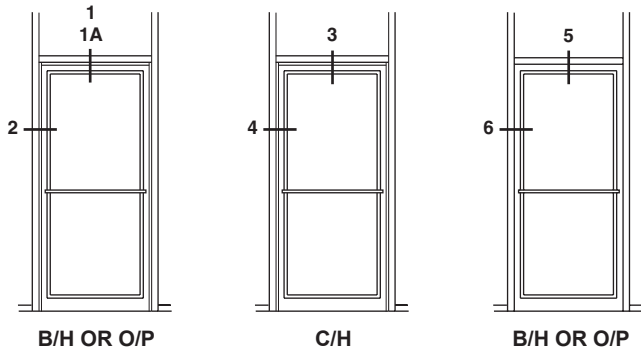


RAINSCREEN AIR/WATER SEAL
Note: Jamb detail shown only, other perimeter details similar.

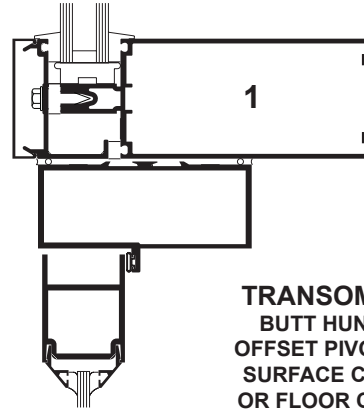


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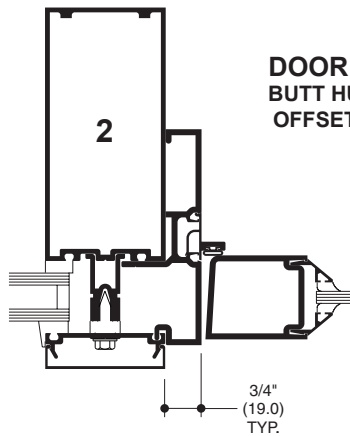
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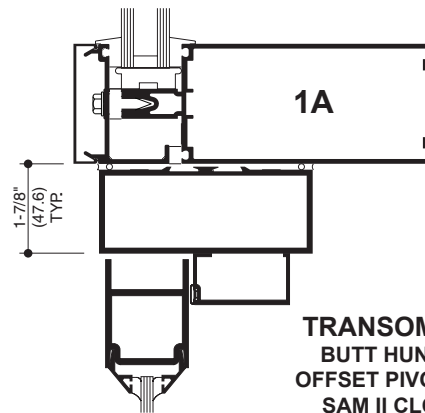
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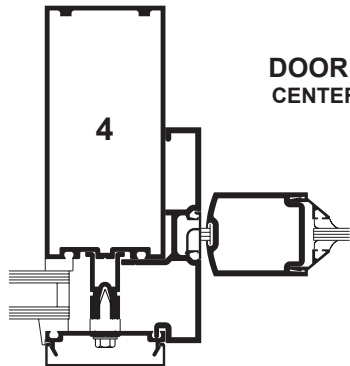
**TRANSOM BAR
BUTT HUNG OR
OFFSET PIVOT WITH
SURFACE CLOSER
OR FLOOR CLOSER**



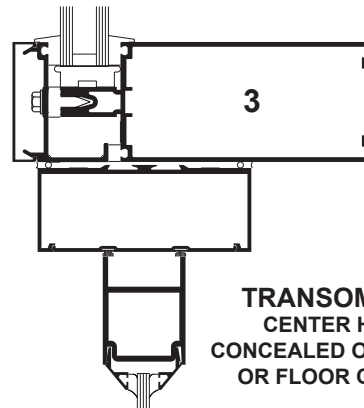
**DOOR JAMB
BUTT HUNG OR
OFFSET PIVOT**



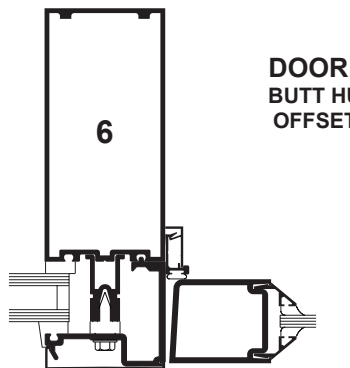
**TRANSOM BAR
BUTT HUNG OR
OFFSET PIVOT WITH
SAM II CLOSER**



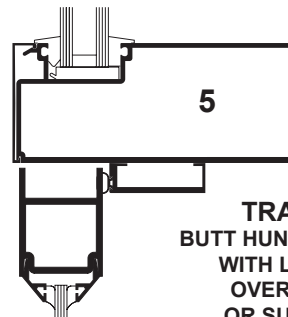
**DOOR JAMB
CENTER HUNG**



**TRANSOM BAR
CENTER HUNG
CONCEALED OVERHEAD
OR FLOOR CLOSER**



**DOOR JAMB
BUTT HUNG OR
OFFSET PIVOT**

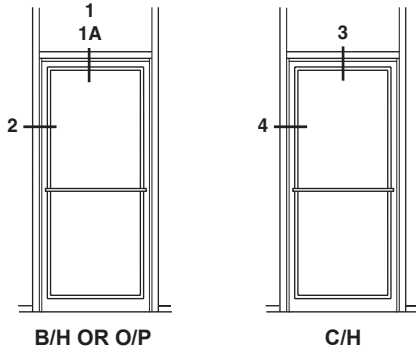


**TRANSOM BAR
BUTT HUNG OR OFFSET PIVOT
WITH LCN CONCEALED
OVER HEAD CLOSER
OR SURFACE CLOSER**

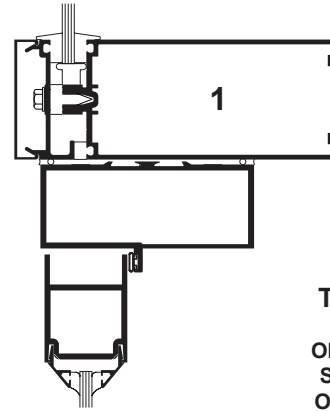
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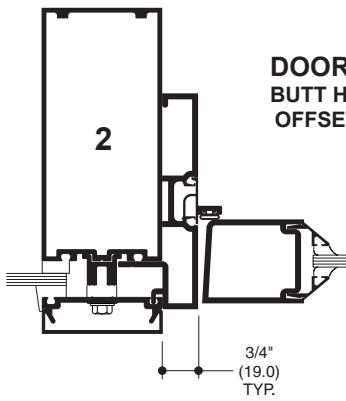
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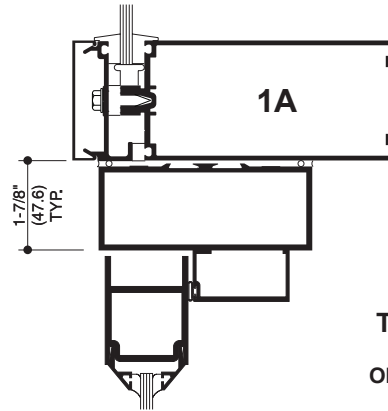
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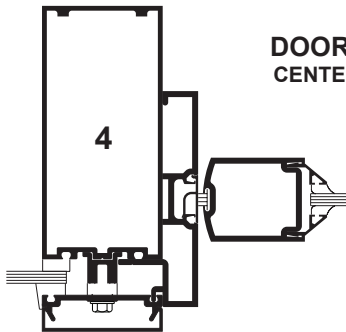
**TRANSOM BAR
BUTT HUNG OR
OFFSET PIVOT WITH
SURFACE CLOSER
OR FLOOR CLOSER**



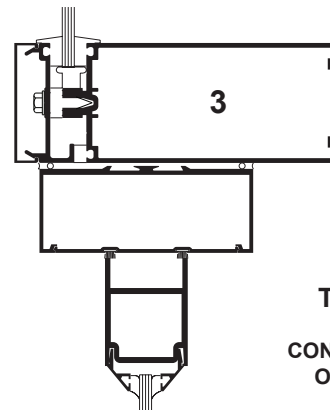
**DOOR JAMB
BUTT HUNG OR
OFFSET PIVOT**



**TRANSOM BAR
BUTT HUNG OR
OFFSET PIVOT WITH
SAM II CLOSER**



**DOOR JAMB
CENTER HUNG**



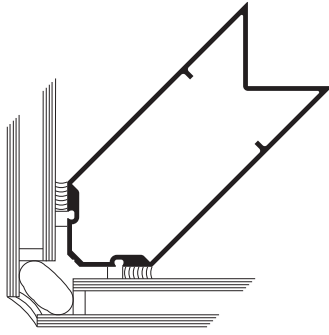
**TRANSOM BAR
CENTER HUNG
CONCEALED OVERHEAD
OR FLOOR CLOSER**

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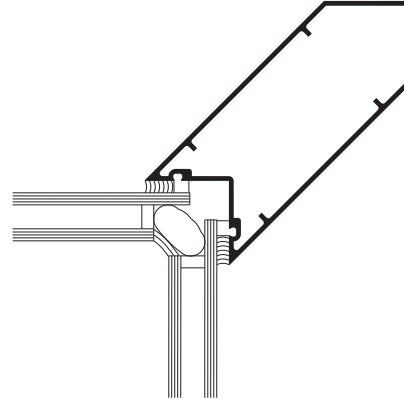
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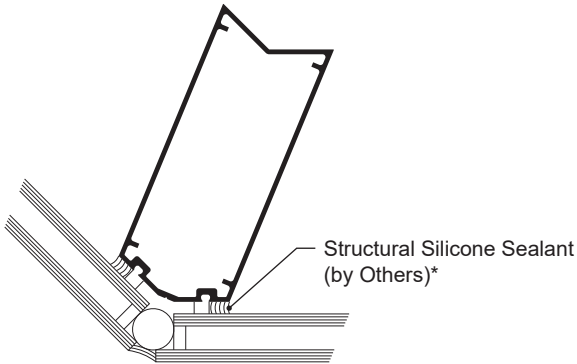
NOTE: 1" SYSTEM SHOWN, 1/4" SYSTEM SIMILAR.



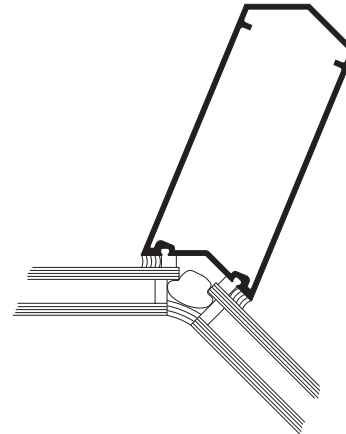
90° OUTSIDE CORNER



90° INSIDE CORNER



135° OUTSIDE CORNER



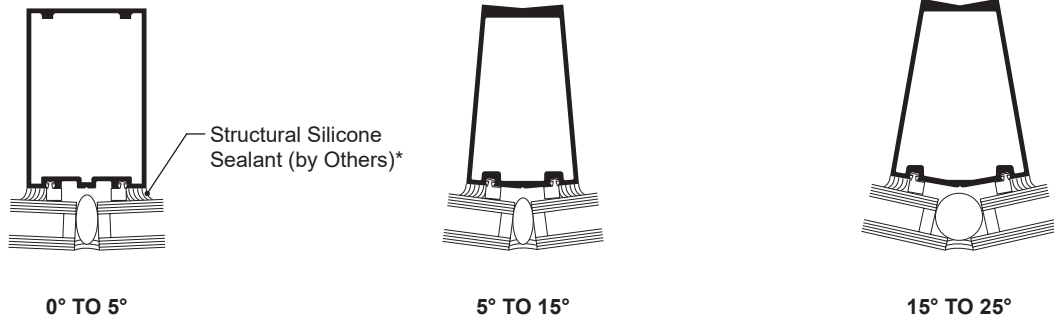
135° INSIDE CORNER

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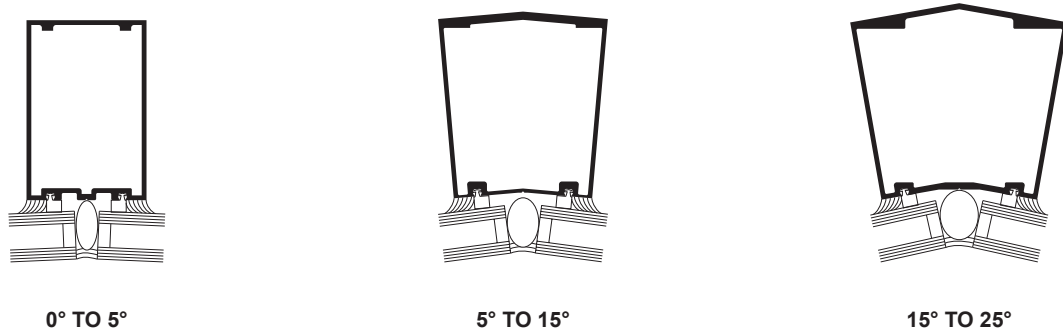
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OUTSIDE SPLAYED MULLIONS



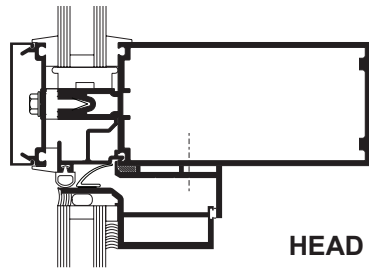
INSIDE SPLAYED MULLIONS

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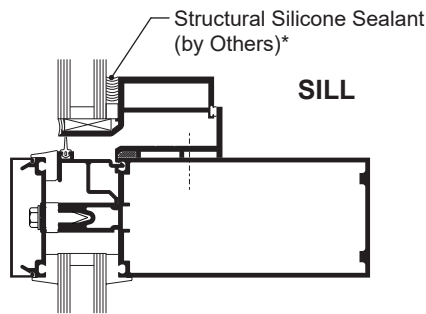
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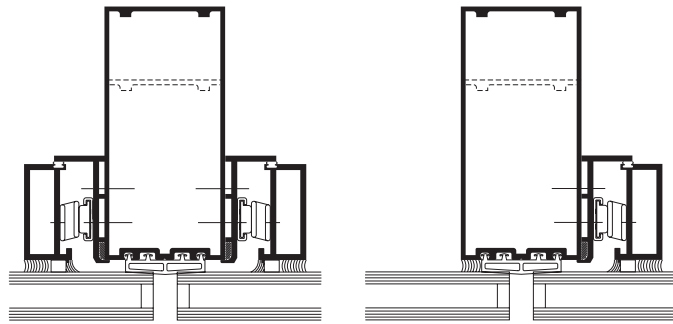


HEAD



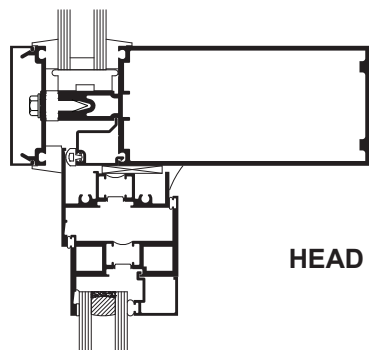
SILL

GLASSvent[®] WINDOWS FOR CURTAIN WALL

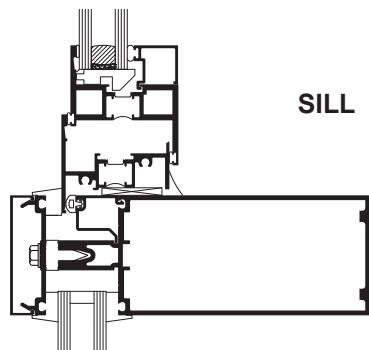


JAMB

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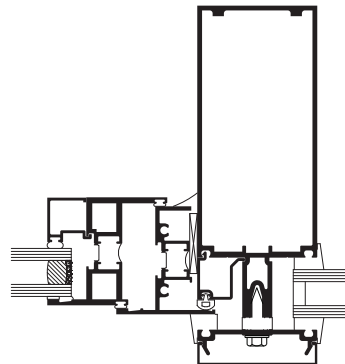
HEAD



SILL

8225TL THERMAL WINDOWS

NOTE: Other vent types can be accommodated.
Contact your Kawneer representative for other options.



JAMB

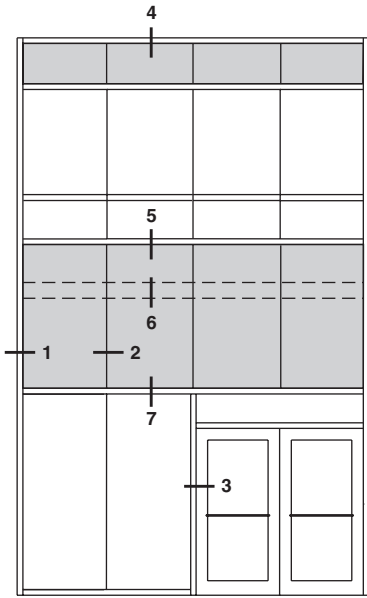
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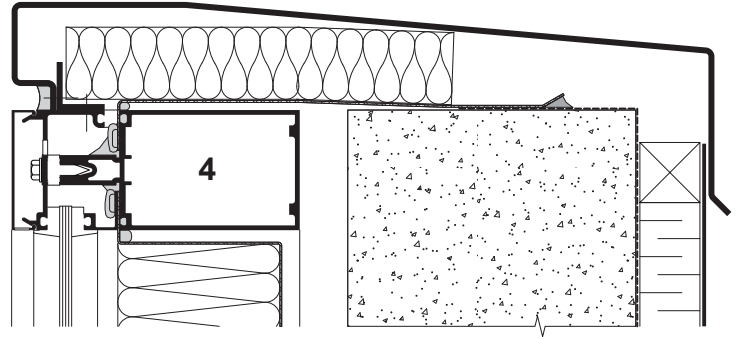
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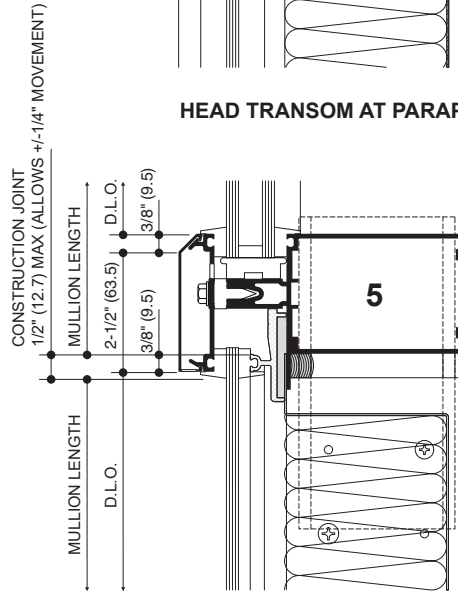


ELEVATION IS NUMBER KEYED TO DETAILS

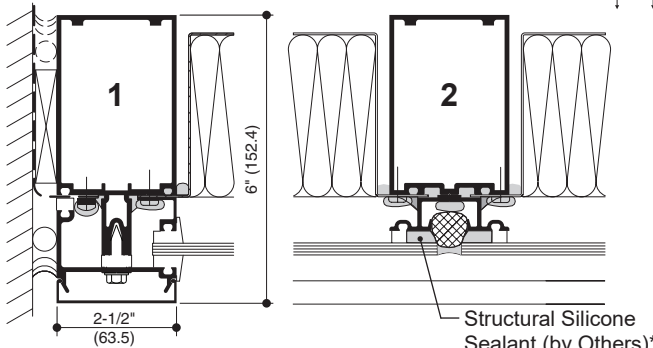
NOTE: 6" SYSTEM SHOWN, 7-1/2" SYSTEM SIMILAR



HEAD TRANSOM AT PARAPET FLASHING

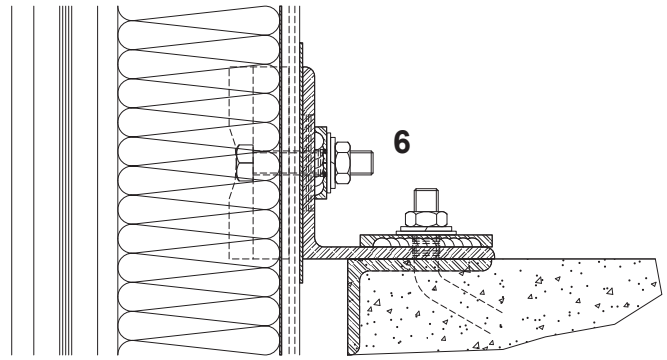


EXPANSION JOINT

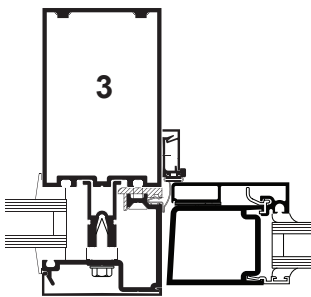


JAMB MULLION AT SPANDREL (With vapor barrier tie-in)

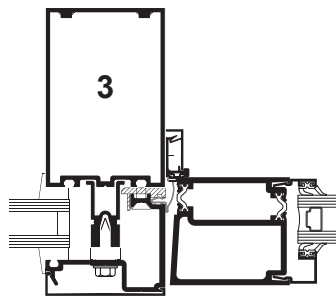
MULLION AT SPANDREL



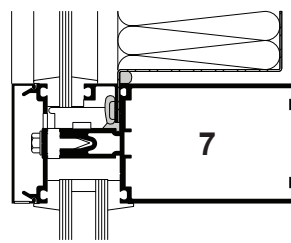
TYPICAL DEADLOAD ANCHOR



THERMALLY BROKEN DOOR ADAPTOR FOR INSULCLAD DOORS



AA 250 THERMAL ENTRANCE

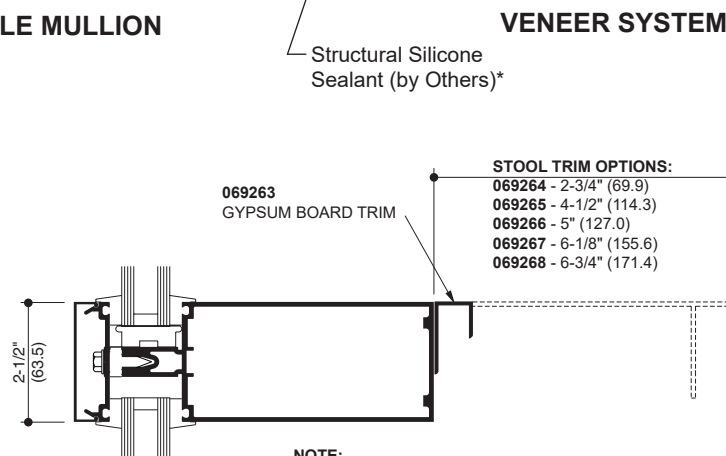
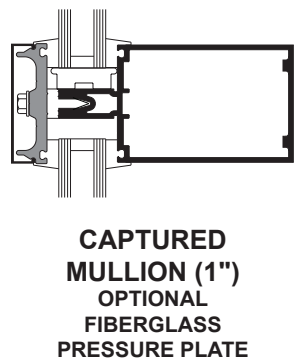
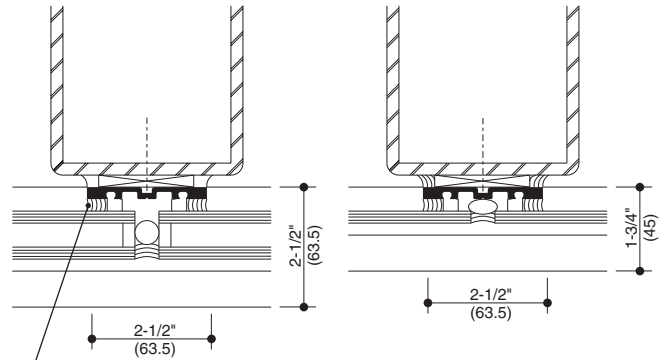
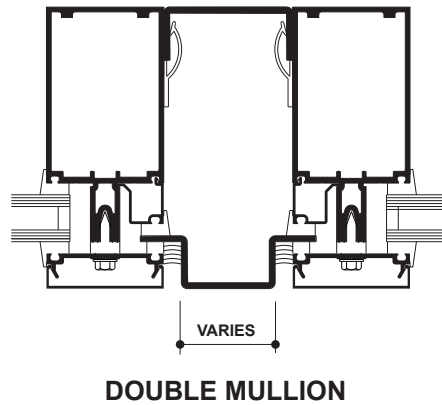
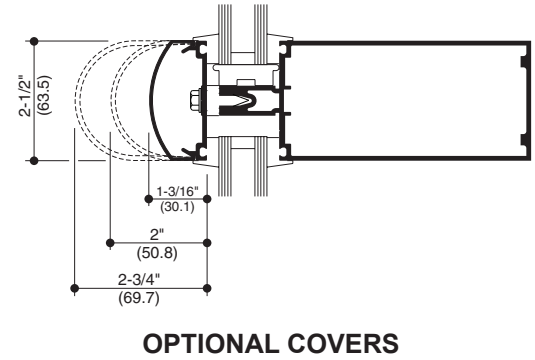
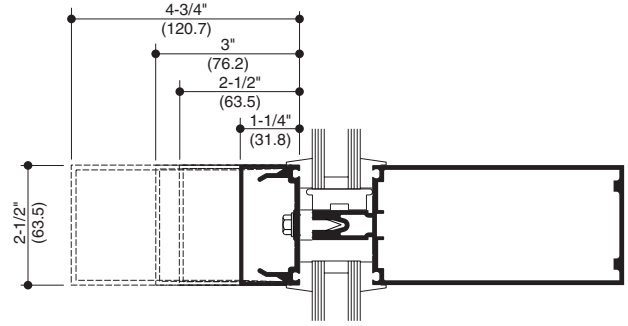
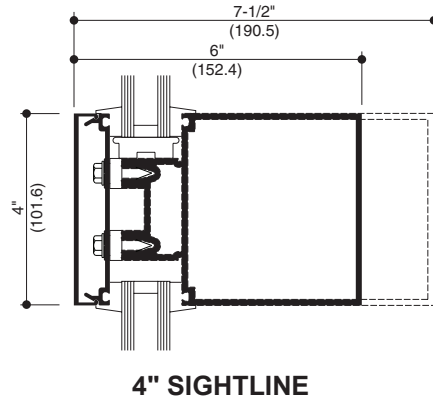
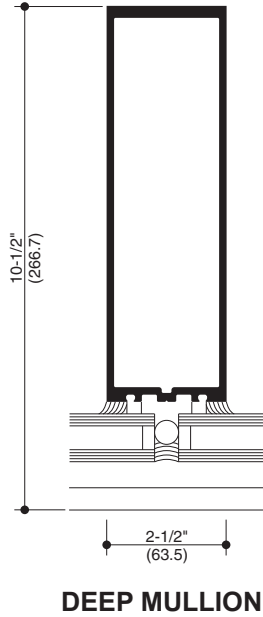


TRANSOM - SPANDREL OVER VISION

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

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

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.



INTERIOR STOOL TRIM

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

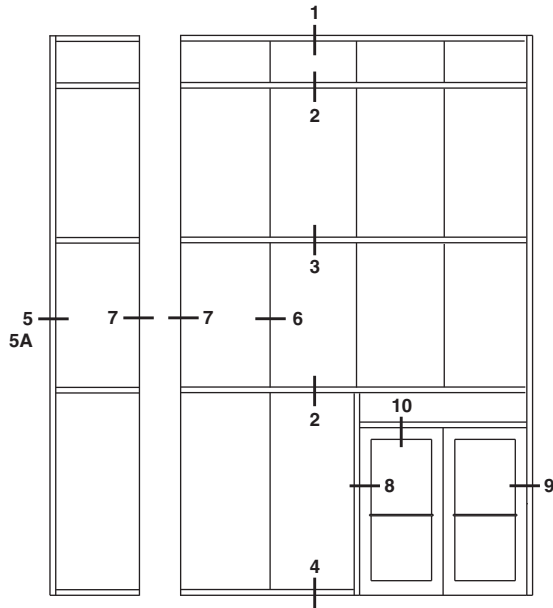
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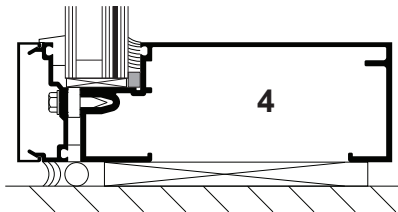
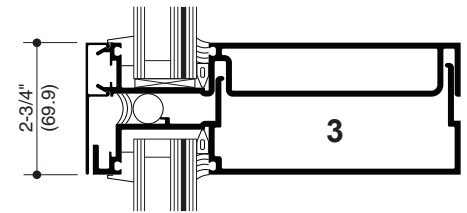
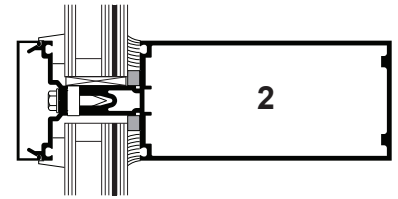
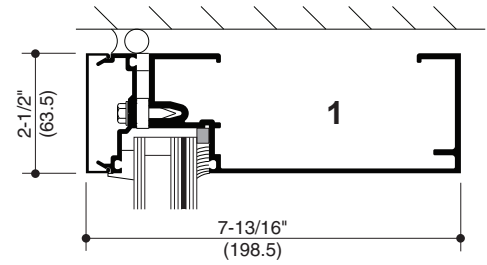
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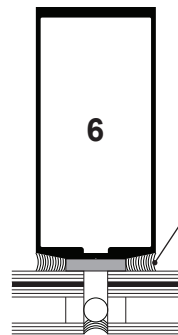
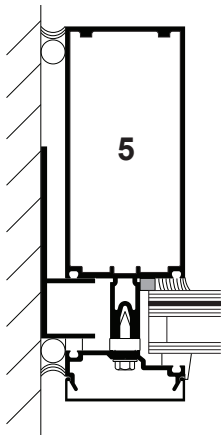
NOTE: DETAILS SHOWN WITH 1-5/16" INFILL AND ARE GLAZED FOR LARGE MISSILE IMPACT (LMI).
 SEE NEXT PAGE FOR OTHER GLAZING OPTIONS.



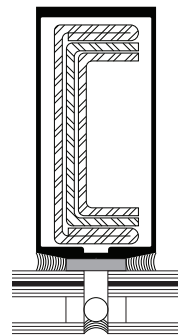
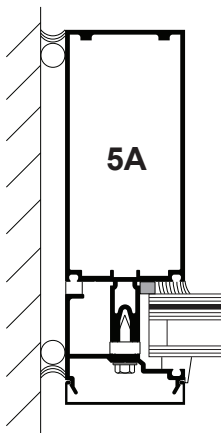
ELEVATION IS NUMBER KEYED TO DETAILS



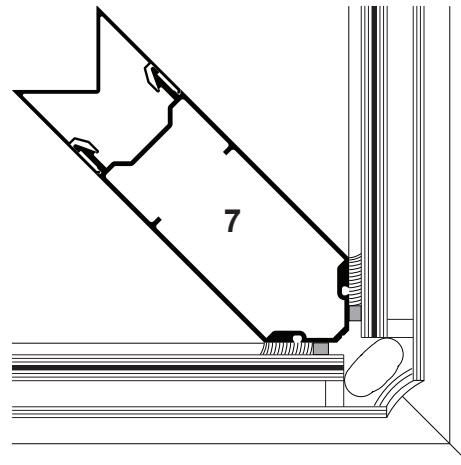
EXPANSION
 HORIZONTAL



Structural Silicone
 Sealant (by Others)*



OPTIONAL STEEL
 REINFORCING
 AS REQUIRED



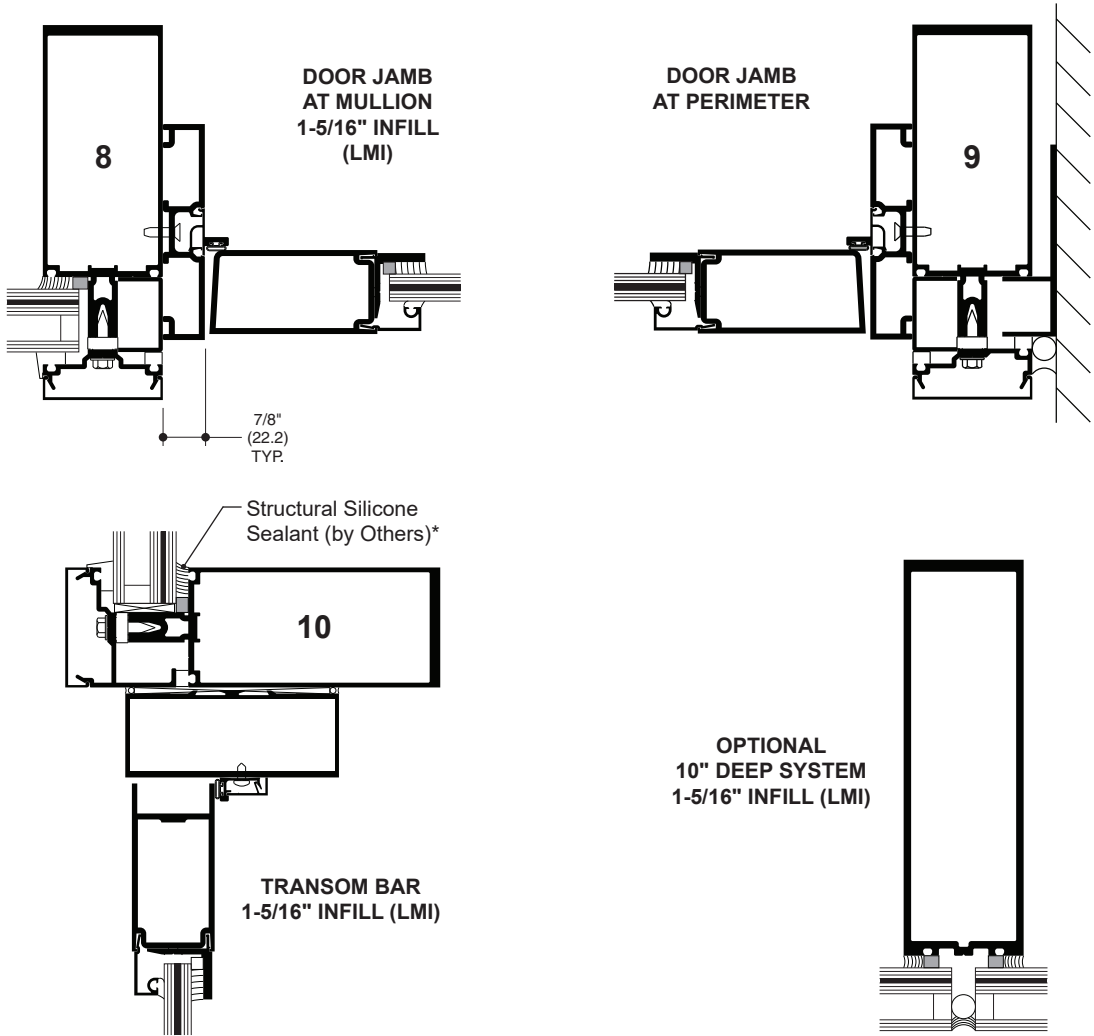
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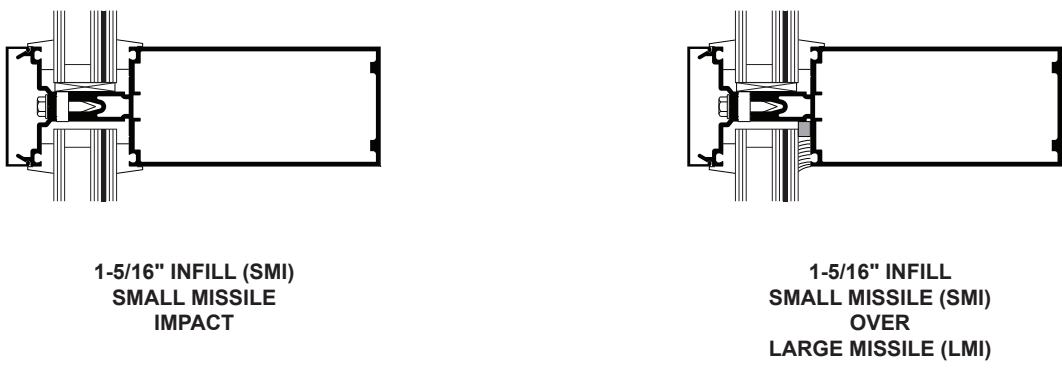
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NOTE: 350 IR DOORS ARE USED WITH IMPACT FRAMING.
DOORS ARE GLAZED WITH 9/16" INFILL.



GLAZING OPTIONS



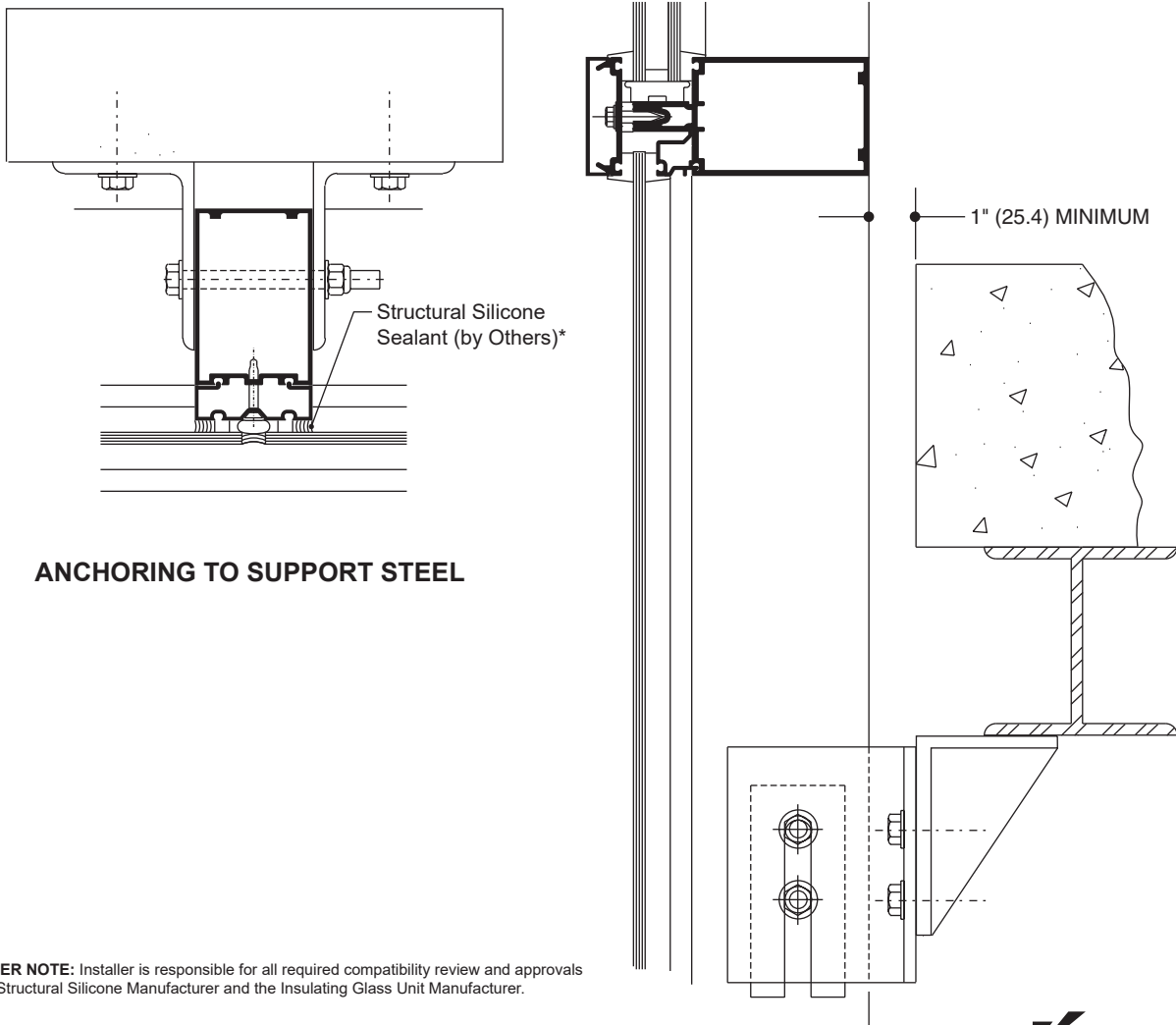
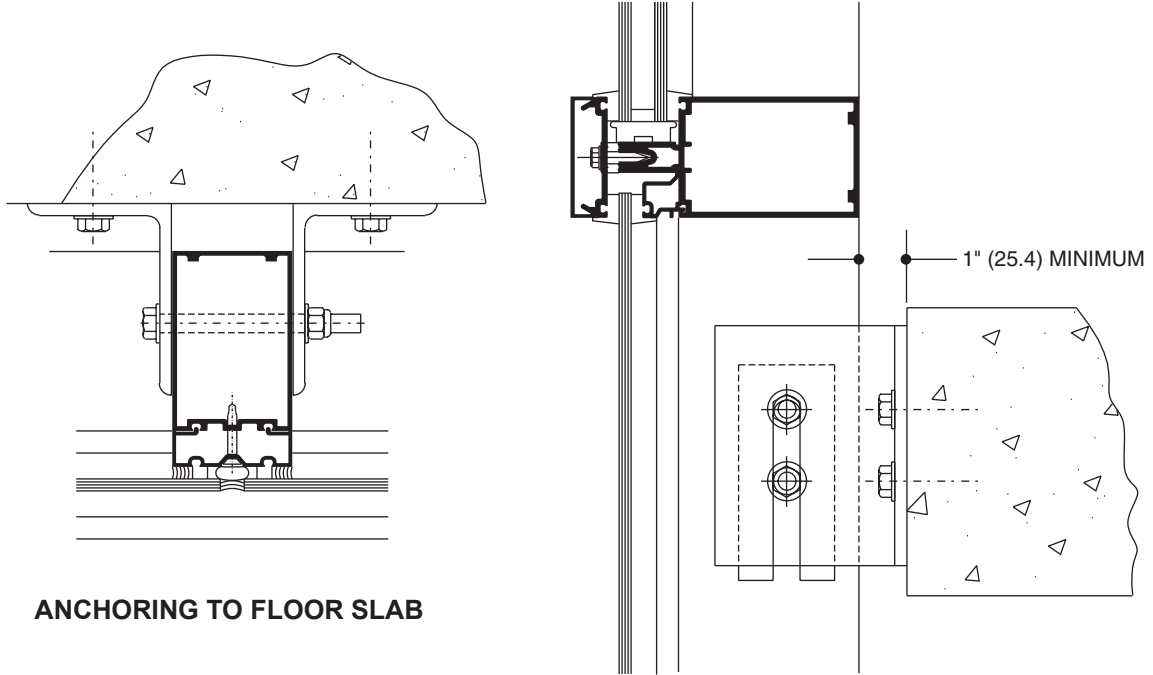
* INSTALLER NOTE: Installer is responsible for all required compatibility review and approvals with the Structural Silicone Manufacturer and the Insulating Glass Unit Manufacturer.

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

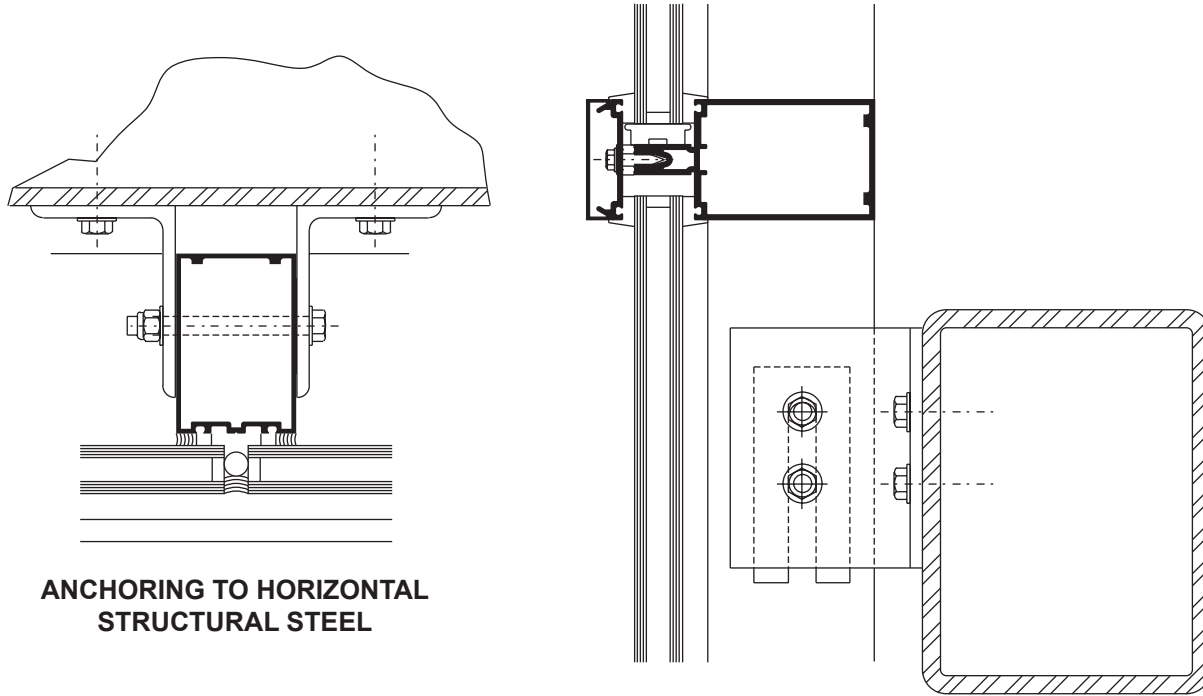


*** INSTALLER NOTE:** Installer is responsible for all required compatibility review and approvals with the Structural Silicone Manufacturer and the Insulating Glass Unit Manufacturer.

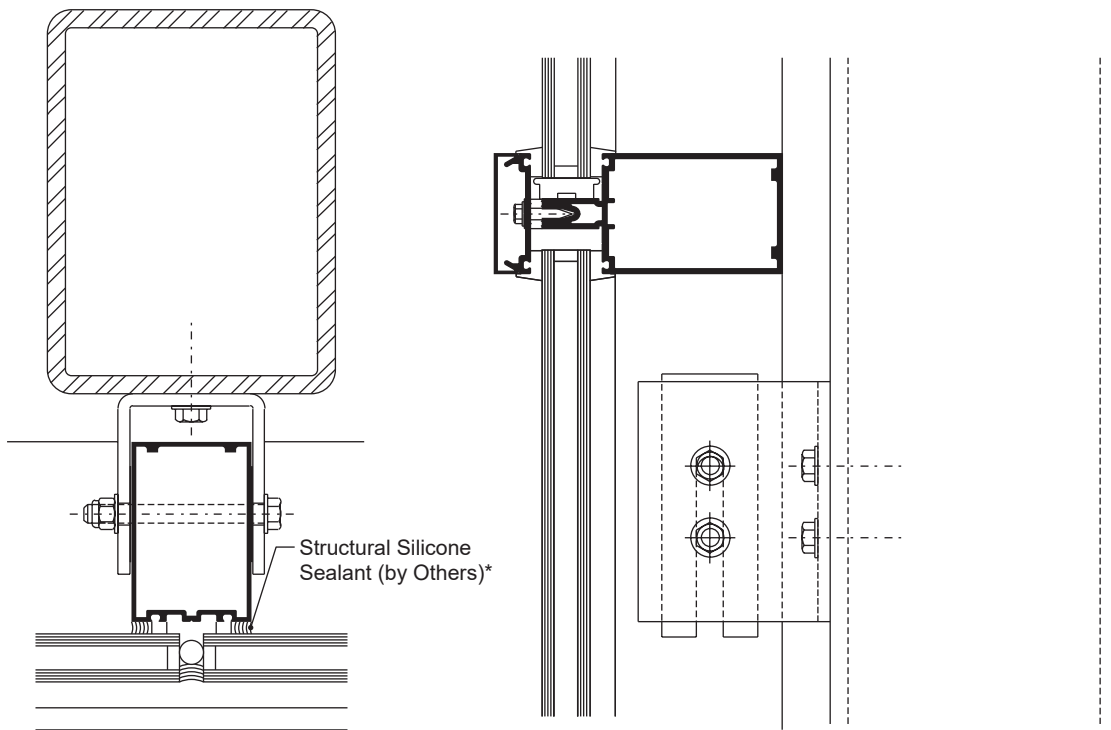
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ANCHORING TO HORIZONTAL STRUCTURAL STEEL



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.

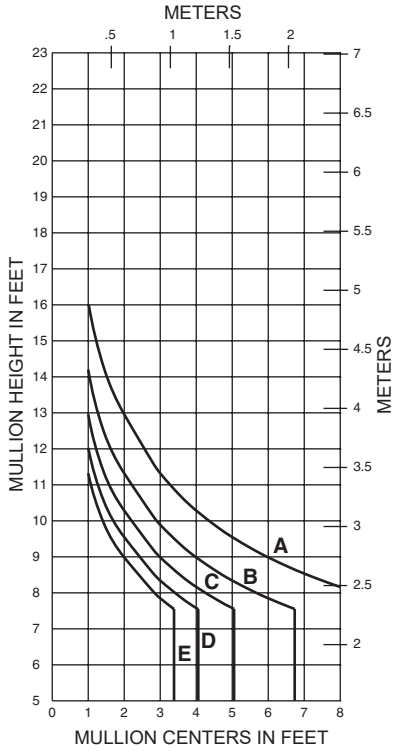
DEADLOAD CHARTS

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.

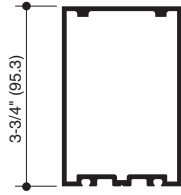
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SINGLE SPAN



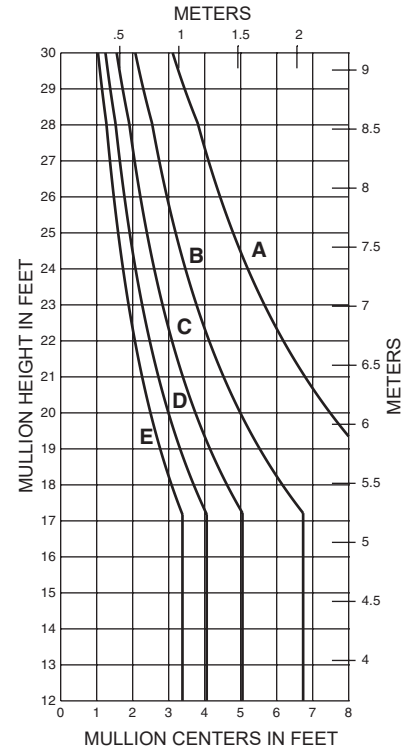
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	20 PSF (960)	33 PSF (1580)
B =	30 PSF (1440)	50 PSF (2400)
C =	40 PSF (1920)	67 PSF (3200)
D =	50 PSF (2400)	83 PSF (4000)
E =	60 PSF (2880)	100 PSF (4790)



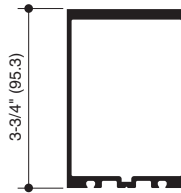
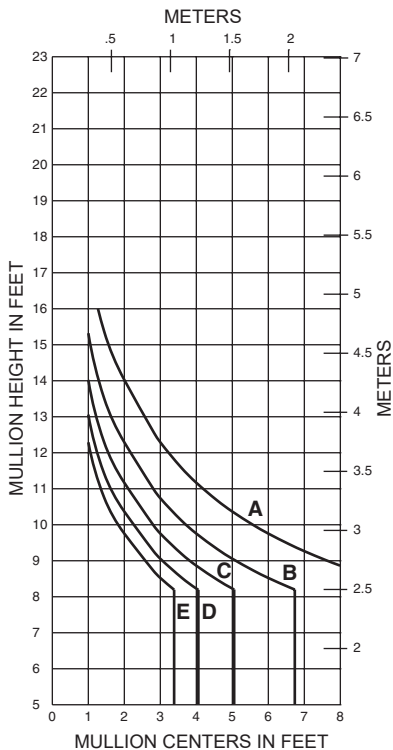
162025
 $I = 2.860 (119.04 \times 10^4)$
 $S = 1.482 (24.28 \times 10^3)$



TWIN SPAN



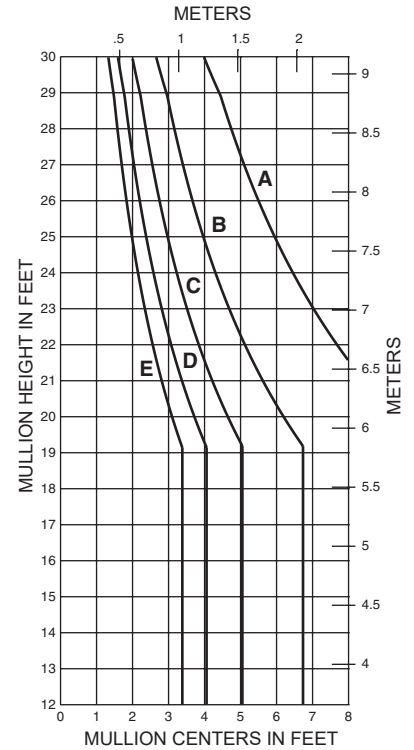
SINGLE SPAN



162026
 $I = 3.660 (152.34 \times 10^4)$
 $S = 1.840 (30.15 \times 10^3)$



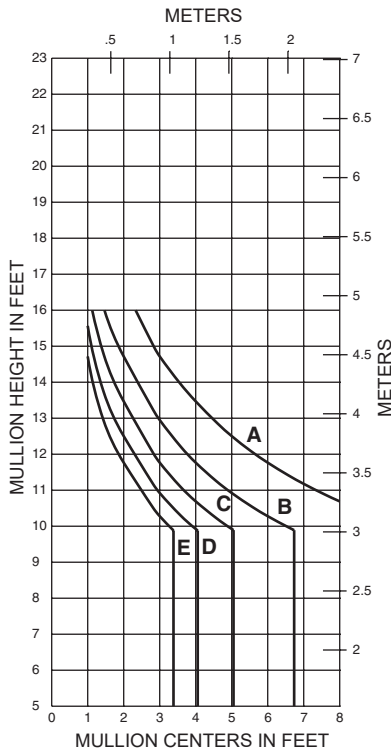
TWIN SPAN



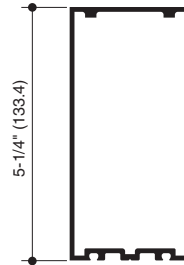
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SINGLE SPAN



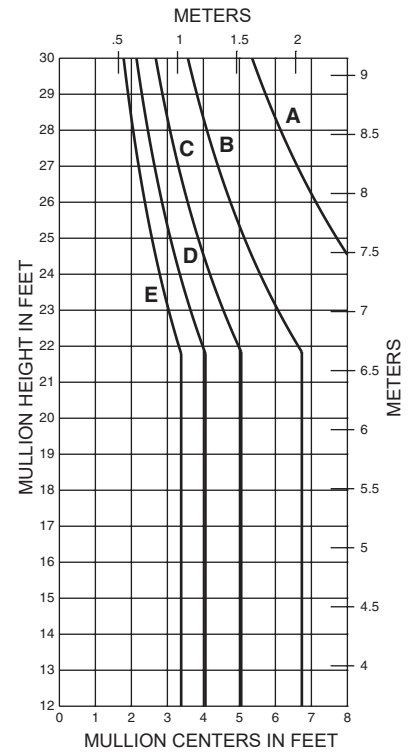
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	20 PSF (960)	33 PSF (1580)
B =	30 PSF (1440)	50 PSF (2400)
C =	40 PSF (1920)	67 PSF (3200)
D =	50 PSF (2400)	83 PSF (4000)
E =	60 PSF (2880)	100 PSF (4790)



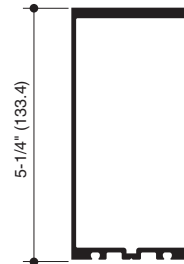
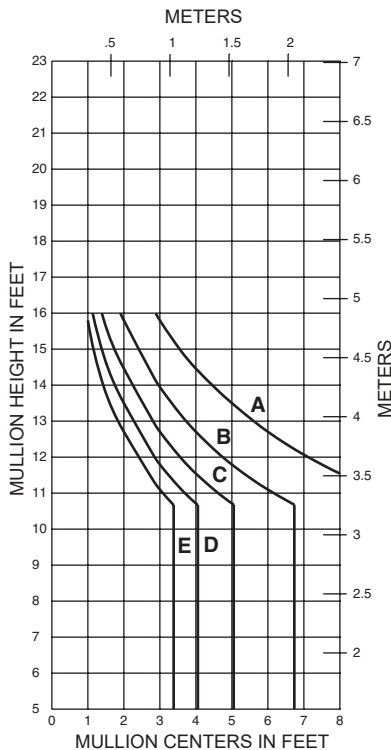
162027
I = 6.424 (267.38 x 10⁴)
S = 2.385 (39.08 x 10³)



TWIN SPAN



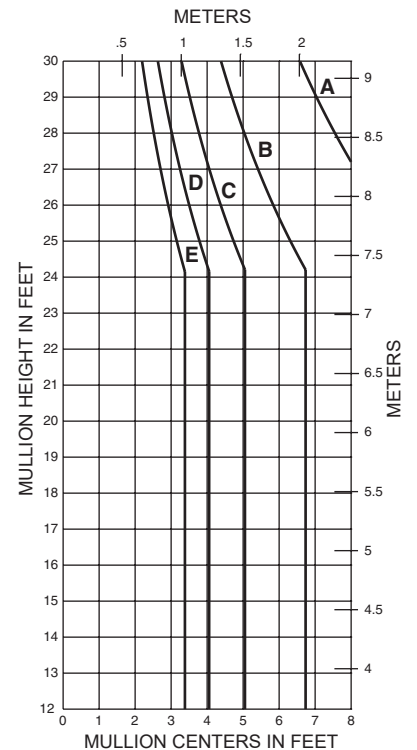
SINGLE SPAN



162028
I = 8.088 (336.64 x 10⁴)
S = 2.930 (48.01 x 10³)



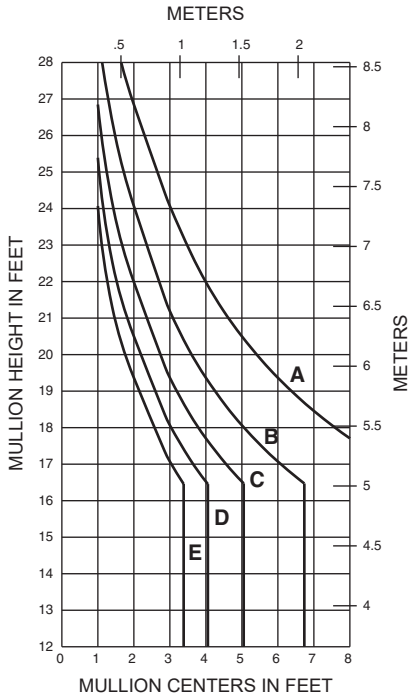
TWIN SPAN



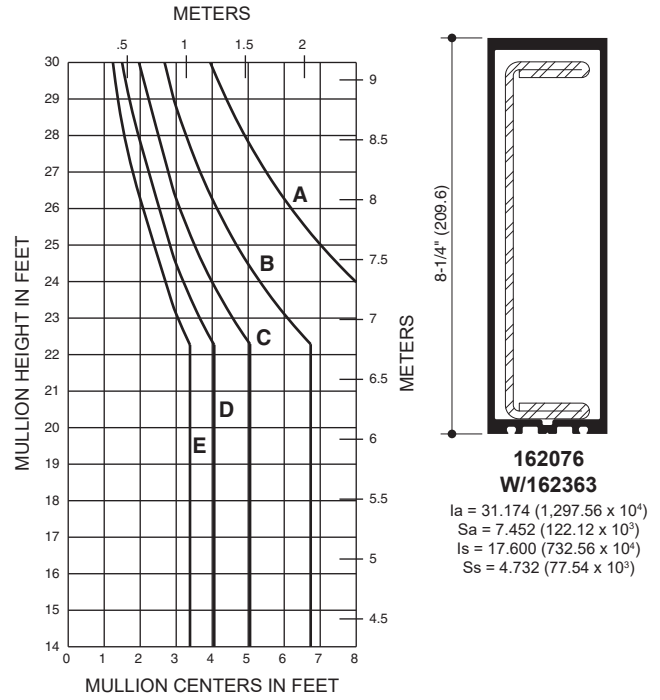
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SINGLE SPAN

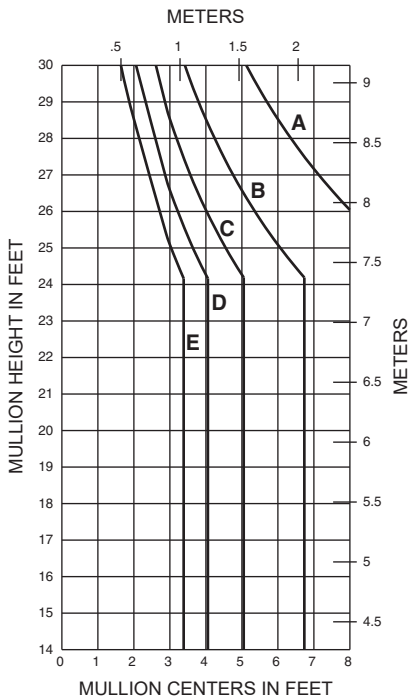


SINGLE SPAN

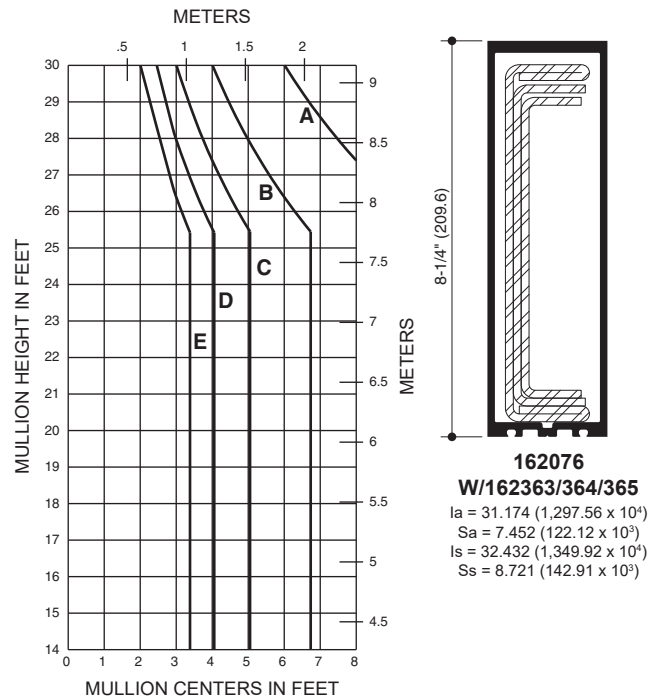


	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	20 PSF (960)	33 PSF (1580)
B =	30 PSF (1440)	50 PSF (2400)
C =	40 PSF (1920)	67 PSF (3200)
D =	50 PSF (2400)	83 PSF (4000)
E =	60 PSF (2880)	100 PSF (4790)

SINGLE SPAN



SINGLE SPAN

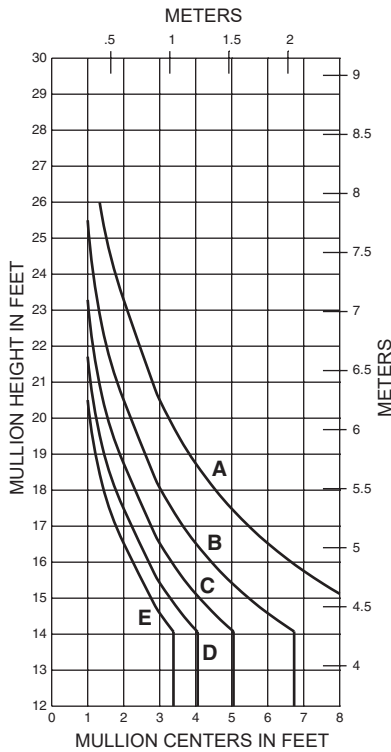


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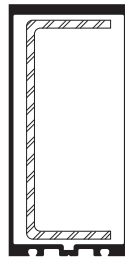
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SINGLE SPAN

162028 W/162300

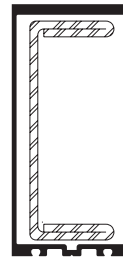


	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	20 PSF (960)	33 PSF (1580)
B =	30 PSF (1440)	50 PSF (2400)
C =	40 PSF (1920)	67 PSF (3200)
D =	50 PSF (2400)	83 PSF (4000)
E =	60 PSF (2880)	100 PSF (4790)



162028 with 162300

$I_a = 8.088 (336.64 \times 10^4)$
 $S_a = 2.930 (48.01 \times 10^3)$
 $I_s = 3.805 (158.37 \times 10^4)$
 $S_s = 1.669 (27.35 \times 10^3)$

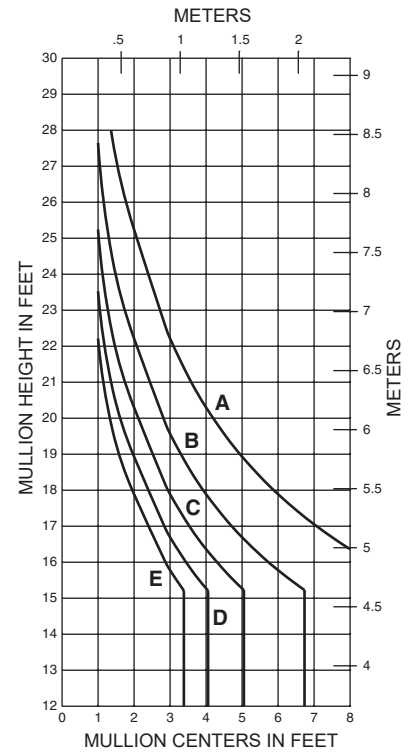


162028 with 162301

$I_a = 8.088 (336.64 \times 10^4)$
 $S_a = 2.930 (48.01 \times 10^3)$
 $I_s = 5.684 (236.59 \times 10^4)$
 $S_s = 2.493 (40.85 \times 10^3)$

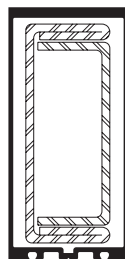
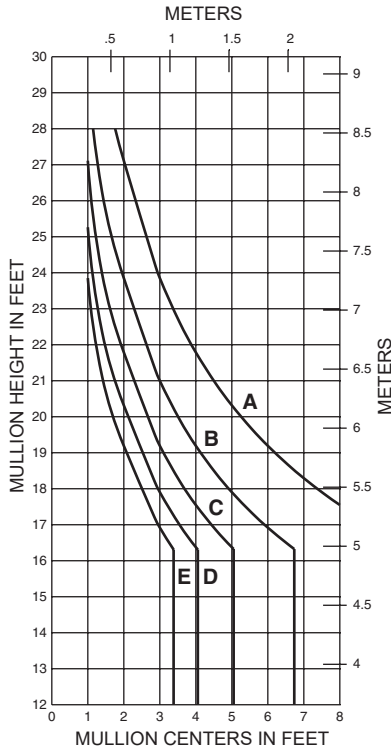
SINGLE SPAN

162028 W/162301



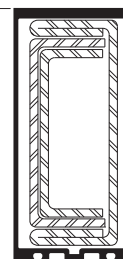
SINGLE SPAN

162028 W/162301/302



162028 with 162301/302

$I_a = 8.088 (336.64 \times 10^4)$
 $S_a = 2.930 (48.01 \times 10^3)$
 $I_s = 7.893 (328.53 \times 10^4)$
 $S_s = 3.462 (56.73 \times 10^3)$

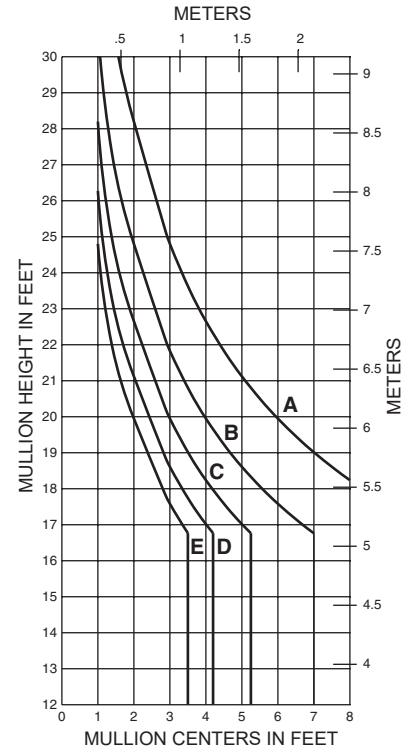


162028 with 162301/302/303

$I_a = 8.088 (336.64 \times 10^4)$
 $S_a = 2.930 (48.01 \times 10^3)$
 $I_s = 9.347 (389.05 \times 10^4)$
 $S_s = 4.100 (67.19 \times 10^3)$

SINGLE SPAN

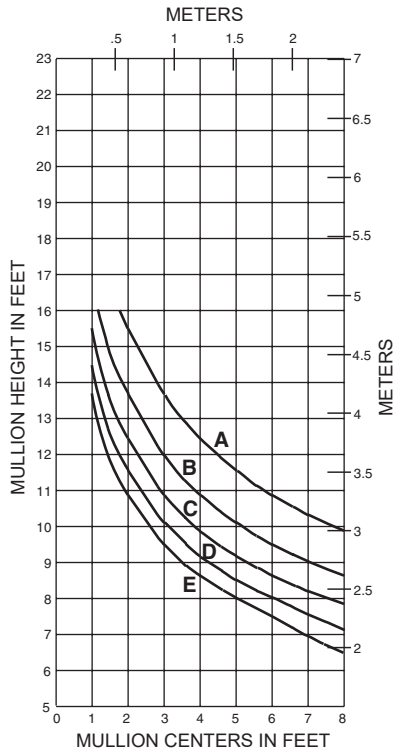
162028 W/162301/302/303



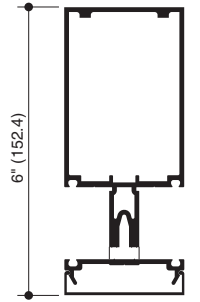
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SINGLE SPAN



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B =	30 PSF (1440)	50 PSF (2400)
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D =	50 PSF (2400)	83 PSF (4000)
E =	60 PSF (2880)	100 PSF (4790)

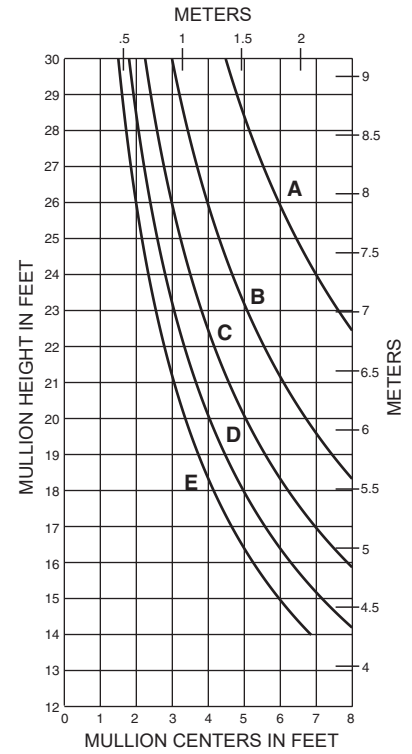


162001

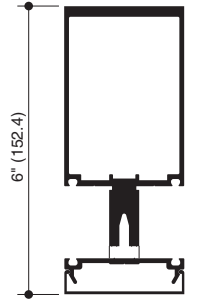
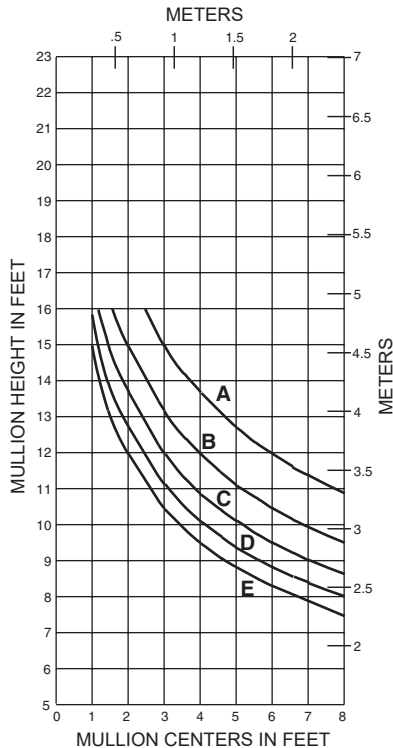
I = 5.035 (209.57 x 10⁴)
S = 1.993 (32.66 x 10³)



TWIN SPAN



SINGLE SPAN

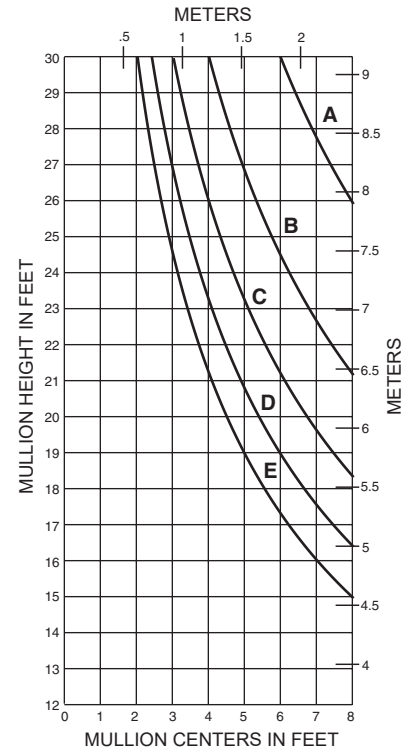


162002

I = 6.779 (282.16 x 10⁴)
S = 2.652 (43.46 x 10³)



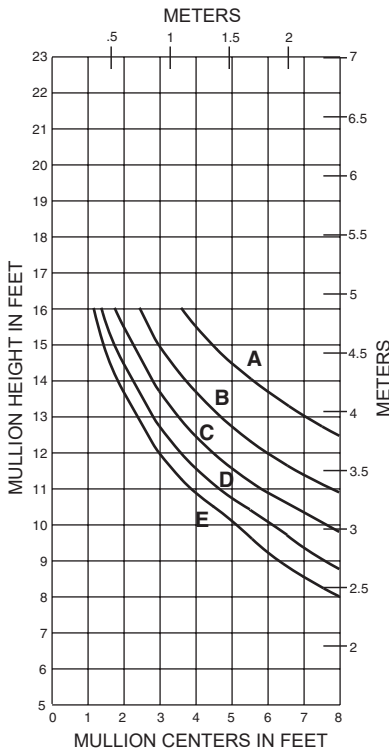
TWIN SPAN



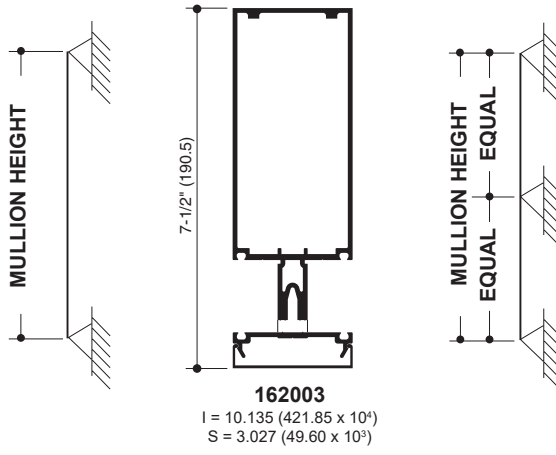
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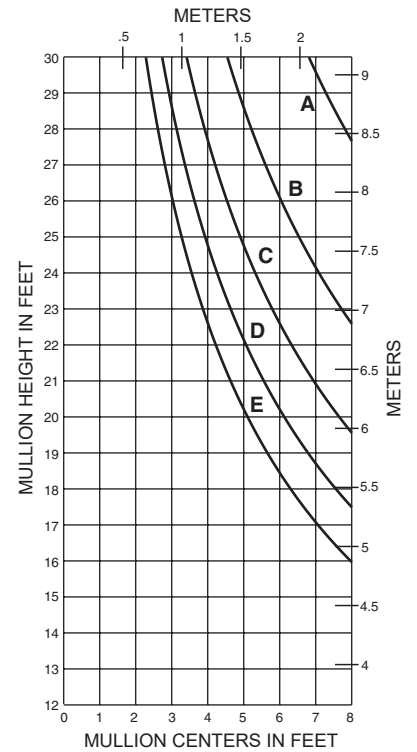
SINGLE SPAN



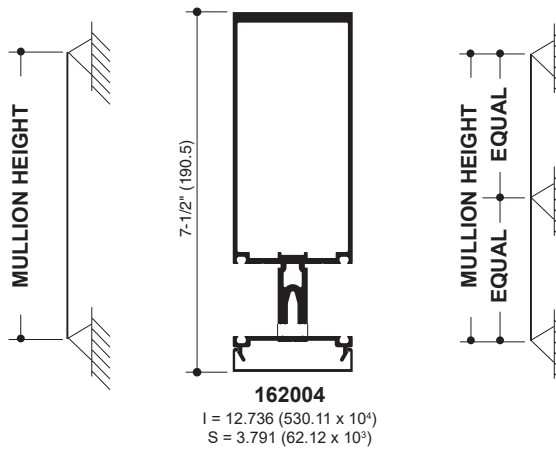
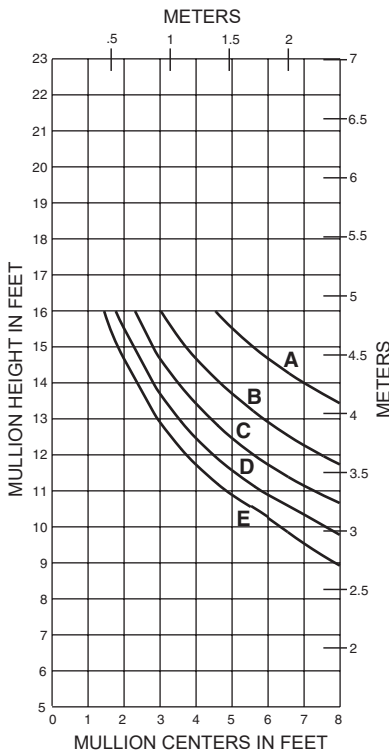
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	20 PSF (960)	33 PSF (1580)
B =	30 PSF (1440)	50 PSF (2400)
C =	40 PSF (1920)	67 PSF (3200)
D =	50 PSF (2400)	83 PSF (4000)
E =	60 PSF (2880)	100 PSF (4790)



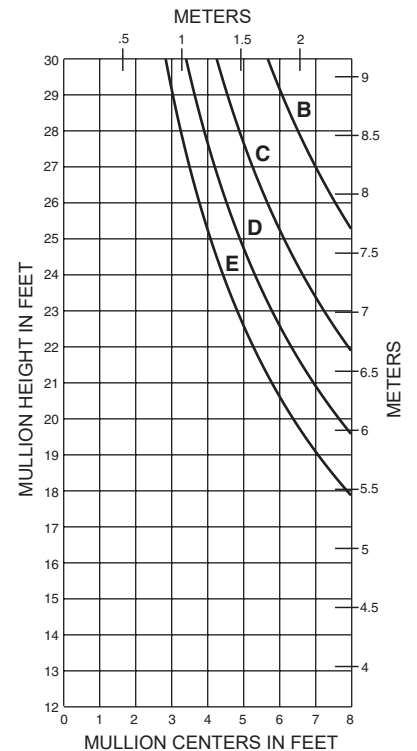
TWIN SPAN



SINGLE SPAN



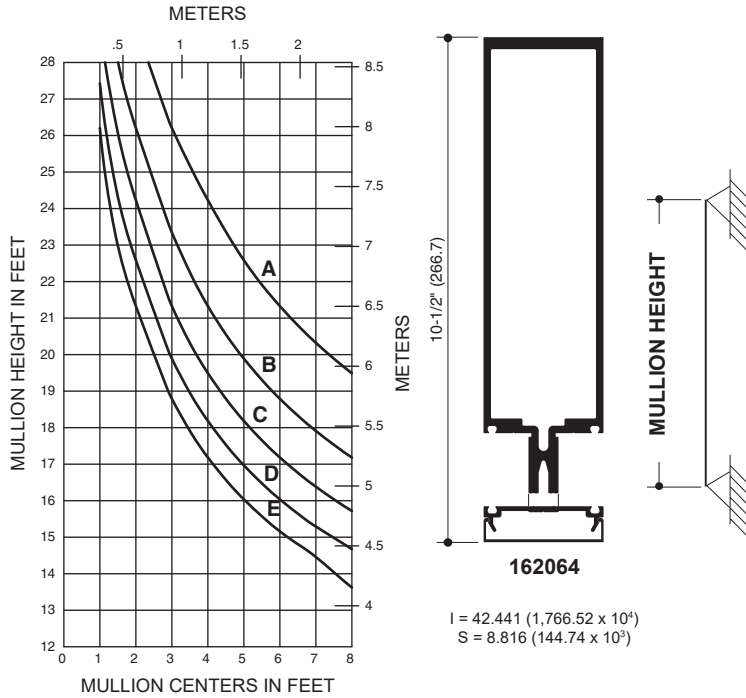
TWIN SPAN



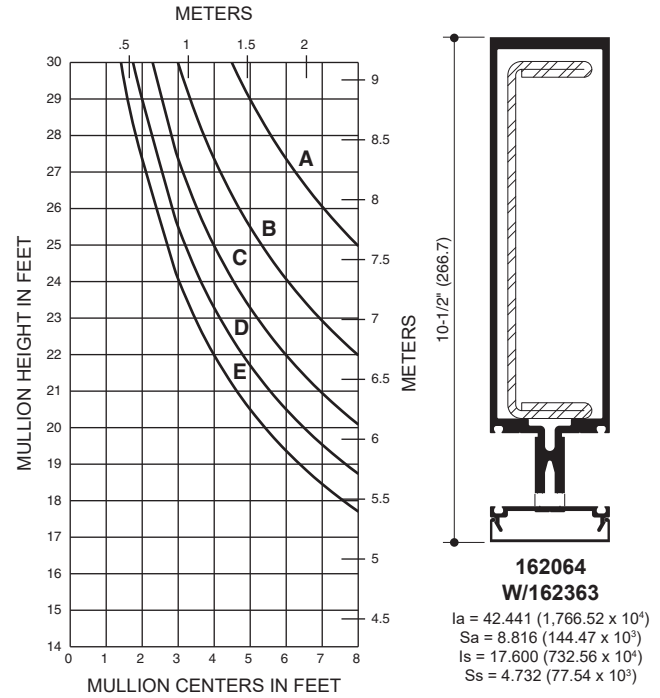
Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

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SINGLE SPAN

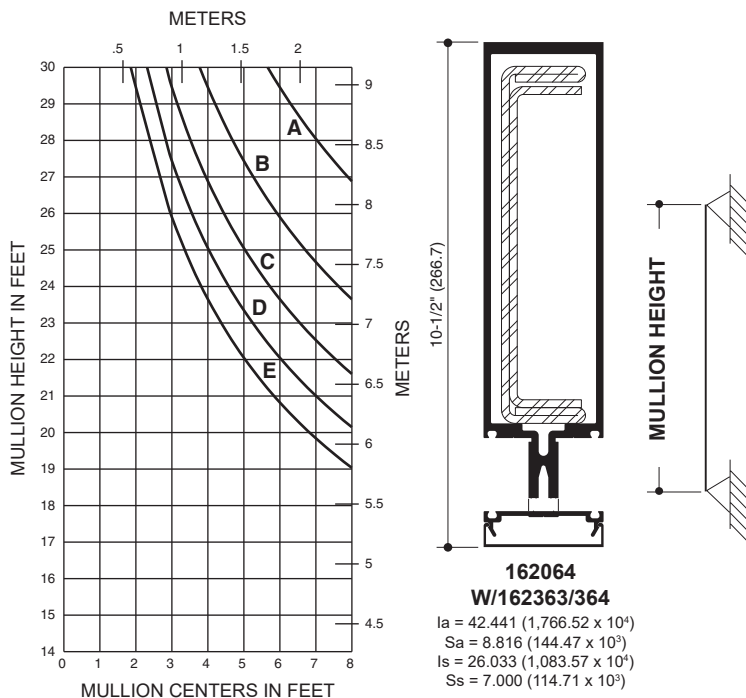


SINGLE SPAN

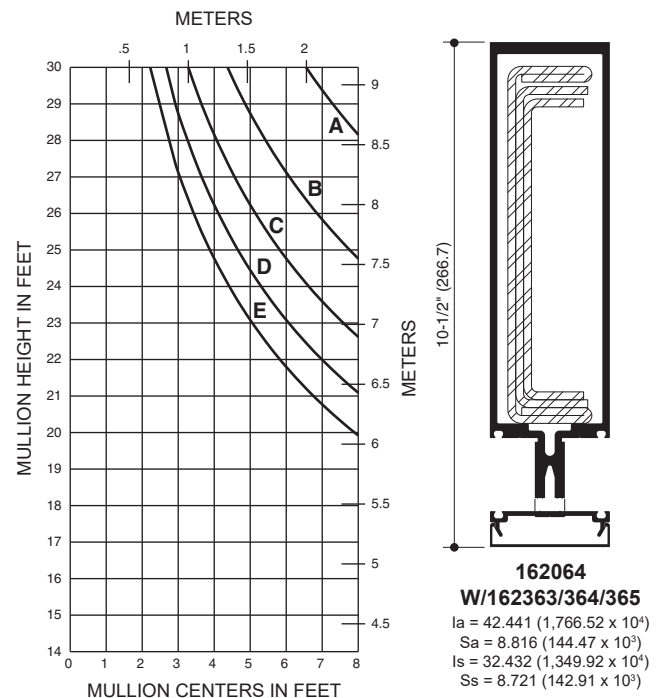


	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	20 PSF (960)	33 PSF (1580)
B =	30 PSF (1440)	50 PSF (2400)
C =	40 PSF (1920)	67 PSF (3200)
D =	50 PSF (2400)	83 PSF (4000)
E =	60 PSF (2880)	100 PSF (4790)

SINGLE SPAN



SINGLE SPAN

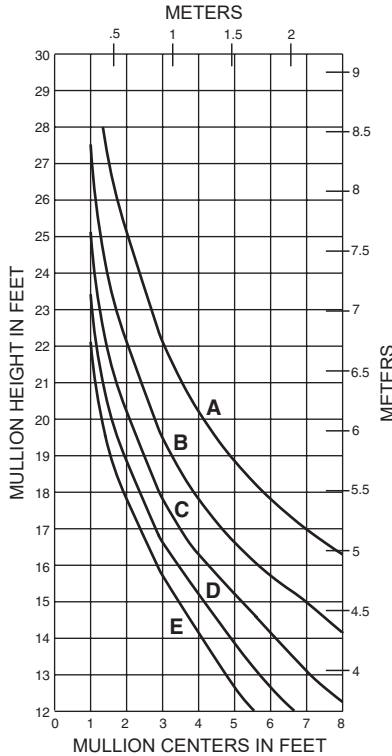


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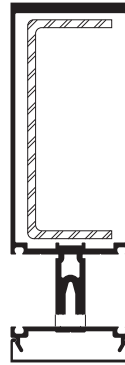
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SINGLE SPAN

162004 W/162300

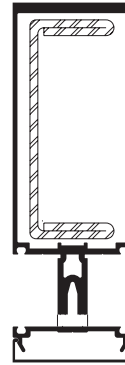


	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	20 PSF (960)	33 PSF (1580)
B =	30 PSF (1440)	50 PSF (2400)
C =	40 PSF (1920)	67 PSF (3200)
D =	50 PSF (2400)	83 PSF (4000)
E =	60 PSF (2880)	100 PSF (4790)



162004 with 162300

la = 12.736 (530.11 x 10⁴)
Sa = 3.791 (62.12 x 10³)
ls = 3.805 (158.37 x 10⁴)
Ss = 1.669 (27.35 x 10³)

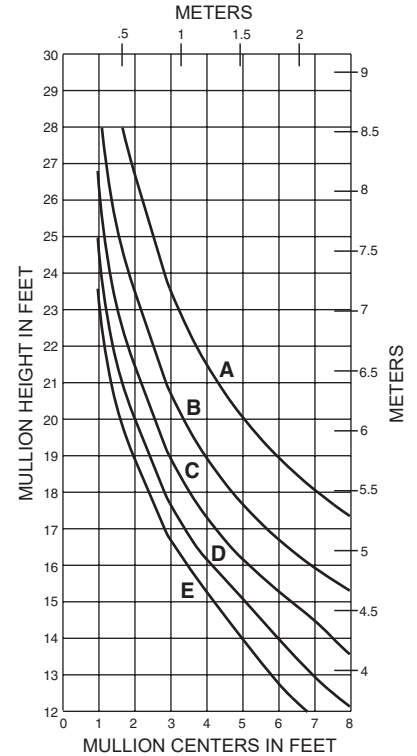


162004 with 162301

la = 12.736 (530.11 x 10⁴)
Sa = 3.791 (62.12 x 10³)
ls = 5.684 (236.59 x 10⁴)
Ss = 2.493 (40.85 x 10³)

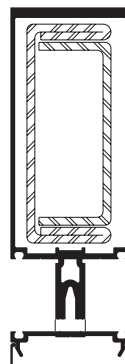
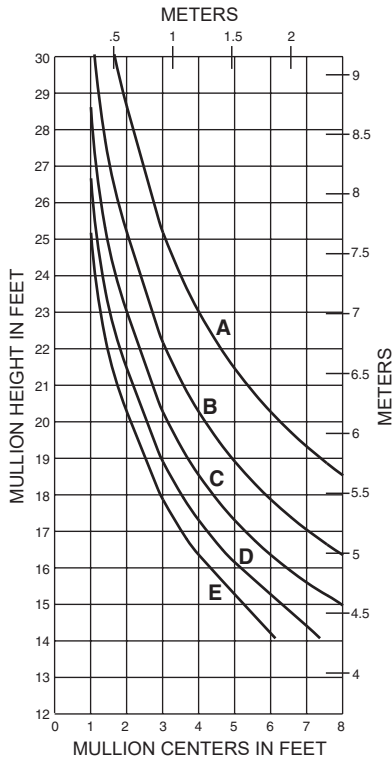
SINGLE SPAN

162004 W/162301



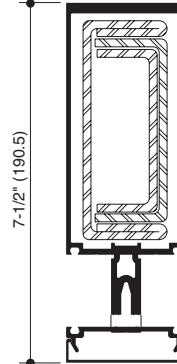
SINGLE SPAN

162004 W/162301/302



162004 with 162301/302

la = 12.736 (530.11 x 10⁴)
Sa = 3.791 (62.12 x 10³)
ls = 7.893 (328.53 x 10⁴)
Ss = 3.462 (56.73 x 10³)

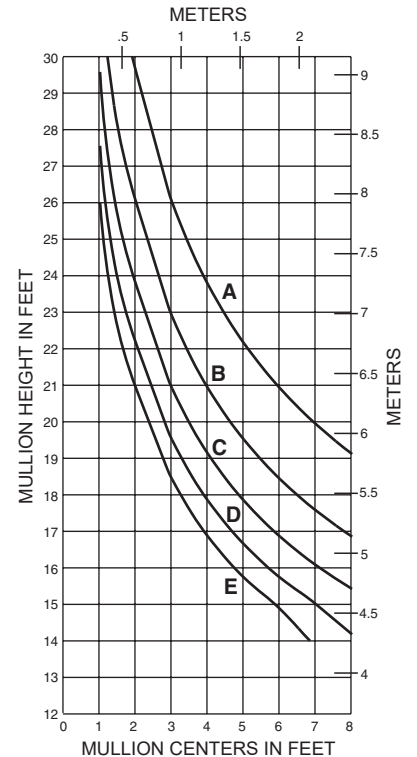


162004 with 162301/302/303

la = 12.736 (530.11 x 10⁴)
Sa = 3.791 (62.12 x 10³)
ls = 9.347 (389.05 x 10⁴)
Ss = 4.100 (67.19 x 10³)

SINGLE SPAN

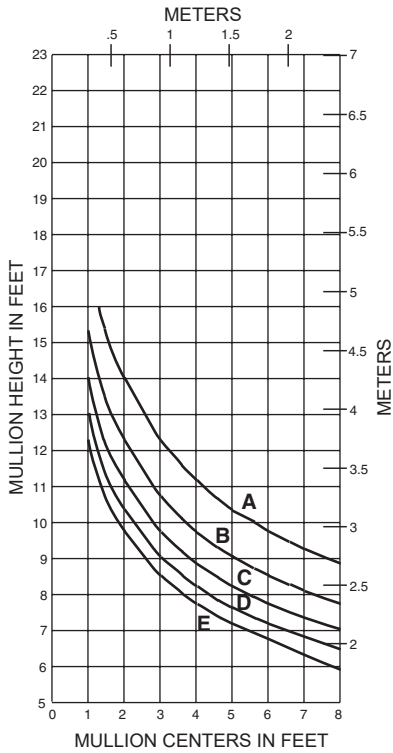
162004 W/162301/302/303



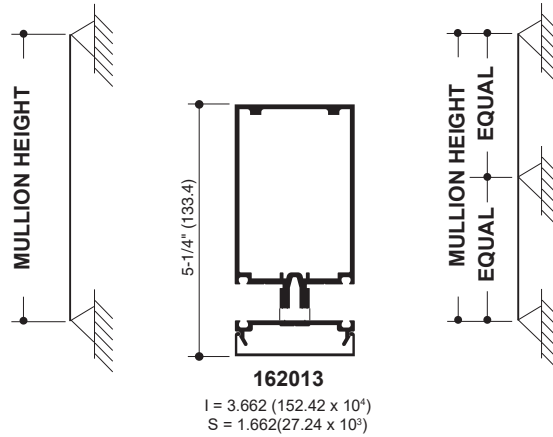
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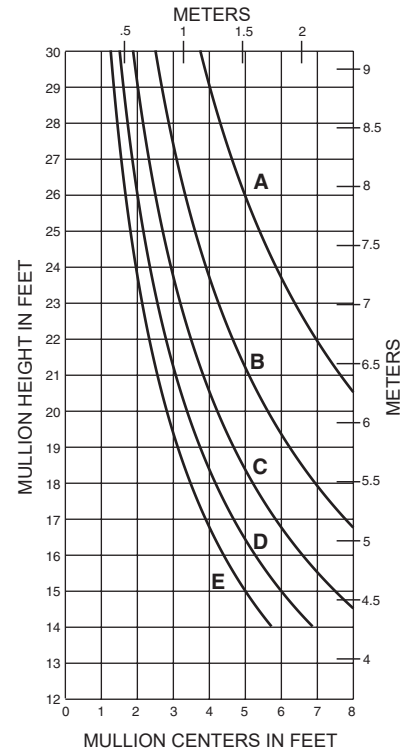
SINGLE SPAN



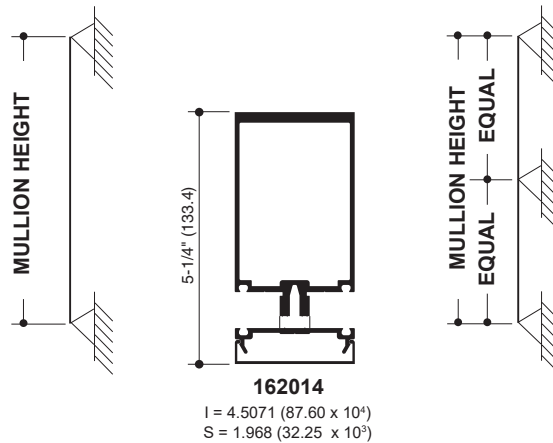
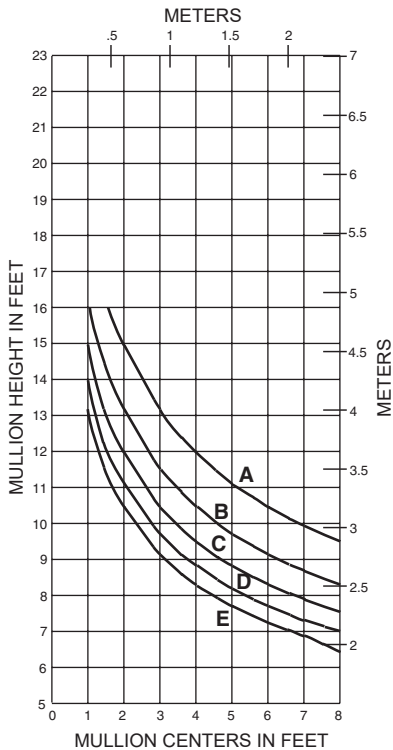
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	20 PSF (960)	33 PSF (1580)
B =	30 PSF (1440)	50 PSF (2400)
C =	40 PSF (1920)	67 PSF (3200)
D =	50 PSF (2400)	83 PSF (4000)
E =	60 PSF (2880)	100 PSF (4790)



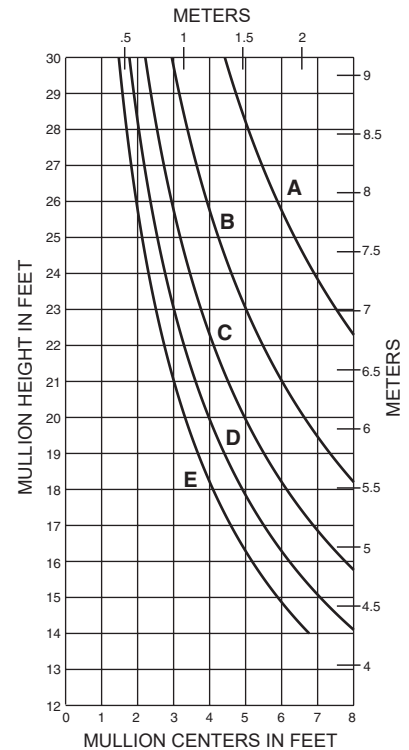
TWIN SPAN



SINGLE SPAN



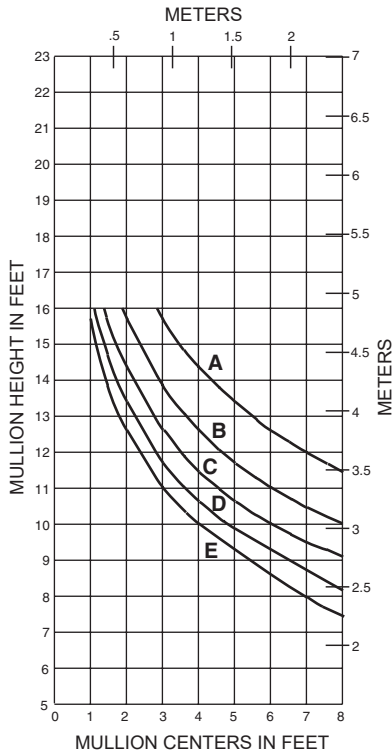
TWIN SPAN



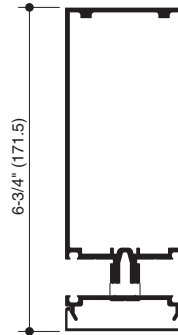
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SINGLE SPAN



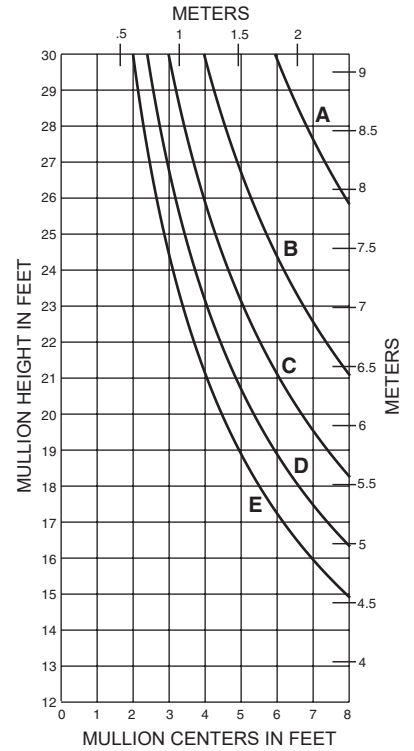
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	20 PSF (960)	33 PSF (1580)
B =	30 PSF (1440)	50 PSF (2400)
C =	40 PSF (1920)	67 PSF (3200)
D =	50 PSF (2400)	83 PSF (4000)
E =	60 PSF (2880)	100 PSF (4790)



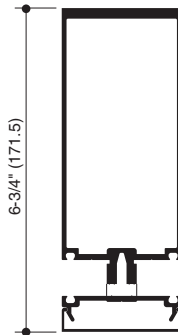
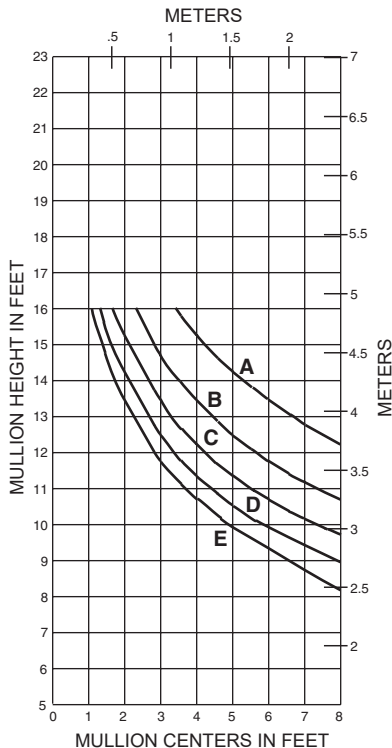
162015
 $I = 7.915 (329.45 \times 10^6)$
 $S = 2.635 (43.18 \times 10^3)$



TWIN SPAN



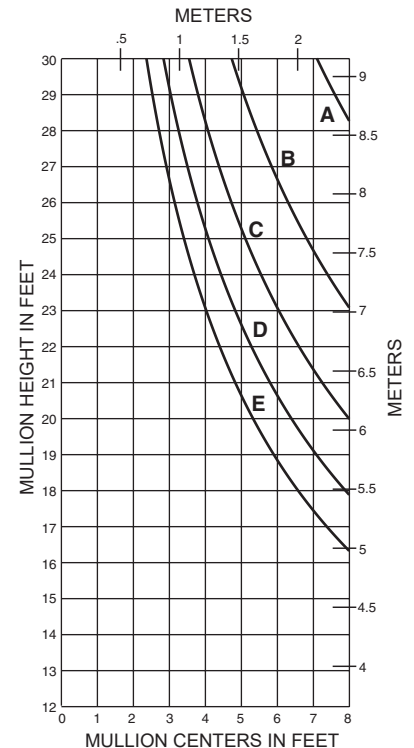
SINGLE SPAN



162016
 $I = 9.594 (399.33 \times 10^6)$
 $S = 3.163 (51.83 \times 10^3)$



TWIN SPAN

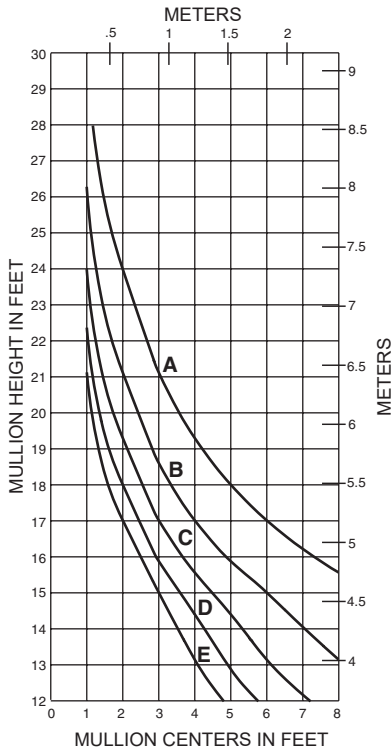


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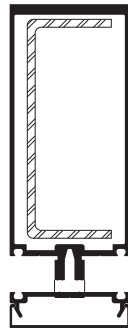
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SINGLE SPAN

162016 W/162300

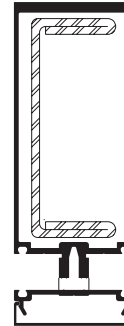


	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	20 PSF (960)	33 PSF (1580)
B =	30 PSF (1440)	50 PSF (2400)
C =	40 PSF (1920)	67 PSF (3200)
D =	50 PSF (2400)	83 PSF (4000)
E =	60 PSF (2880)	100 PSF (4790)



162016 with 162300

$I_a = 9.594 (399.33 \times 10^4)$
 $S_a = 3.163 (51.83 \times 10^3)$
 $I_s = 3.805 (158.37 \times 10^4)$
 $S_s = 1.669 (27.35 \times 10^3)$

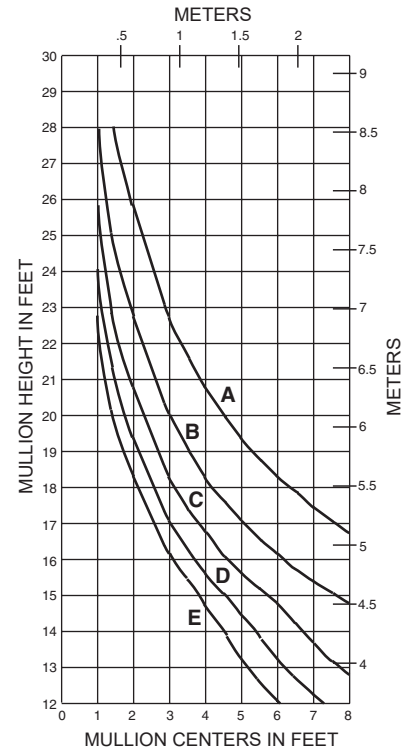


162016 with 162301

$I_a = 9.594 (399.33 \times 10^4)$
 $S_a = 3.163 (51.83 \times 10^3)$
 $I_s = 5.684 (236.59 \times 10^4)$
 $S_s = 2.493 (40.85 \times 10^3)$

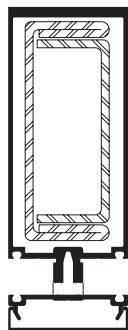
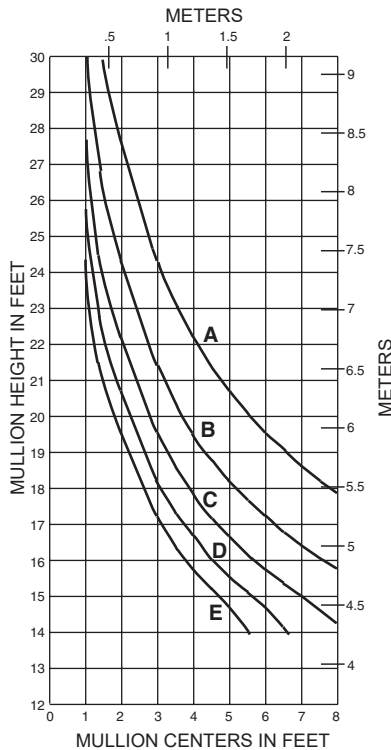
SINGLE SPAN

162016 W/162301



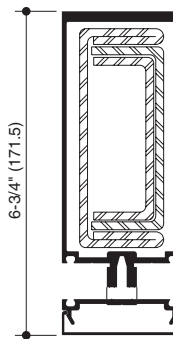
SINGLE SPAN

162016 W/162301/302



162016 with 162301/302

$I_a = 9.594 (399.33 \times 10^4)$
 $S_a = 3.163 (51.83 \times 10^3)$
 $I_s = 7.893 (328.53 \times 10^4)$
 $S_s = 3.462 (56.73 \times 10^3)$

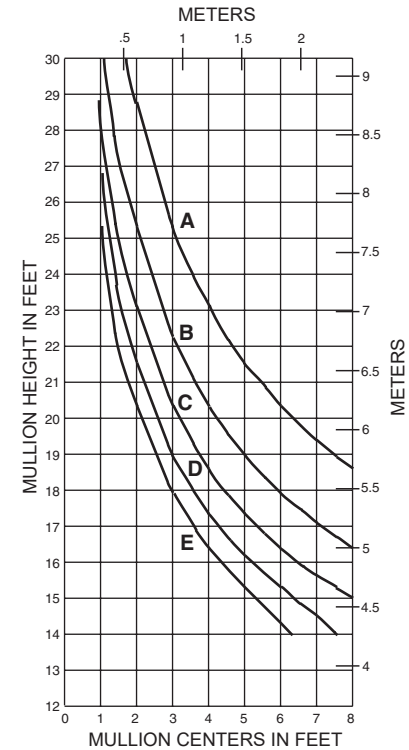


162016 with 162301/302/303

$I_a = 9.594 (399.33 \times 10^4)$
 $S_a = 3.163 (51.83 \times 10^3)$
 $I_s = 9.347 (389.05 \times 10^4)$
 $S_s = 4.100 (67.19 \times 10^3)$

SINGLE SPAN

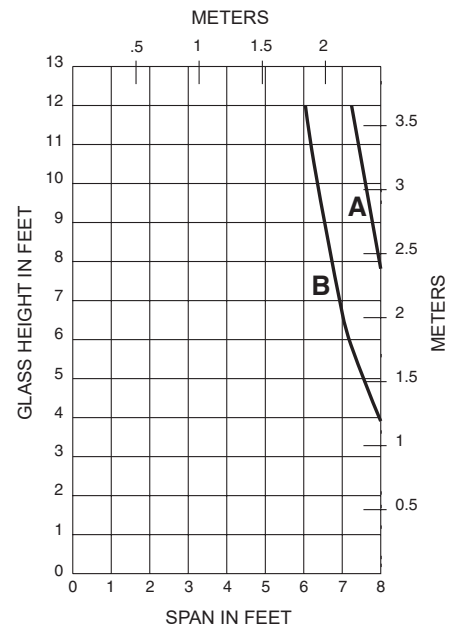
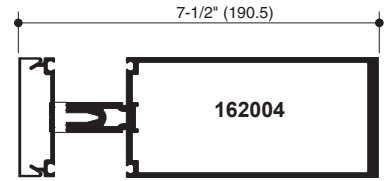
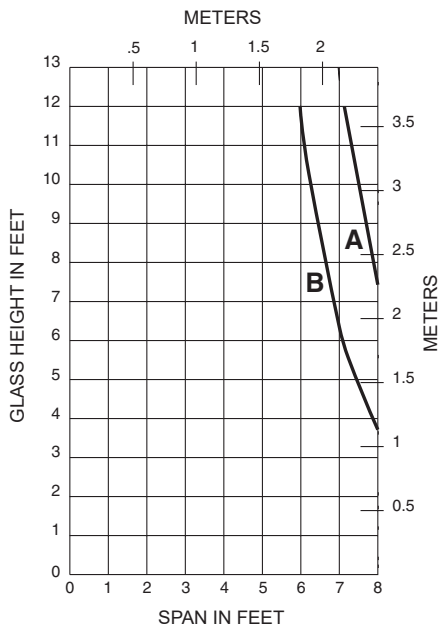
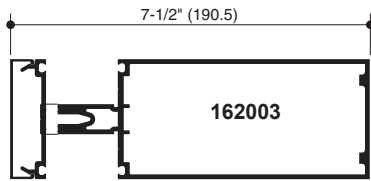
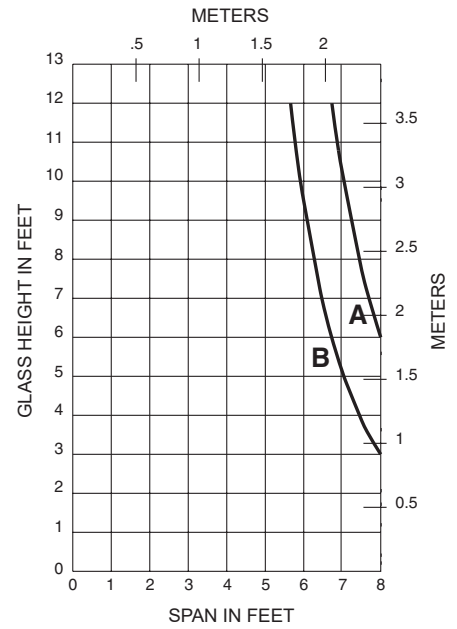
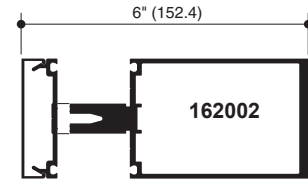
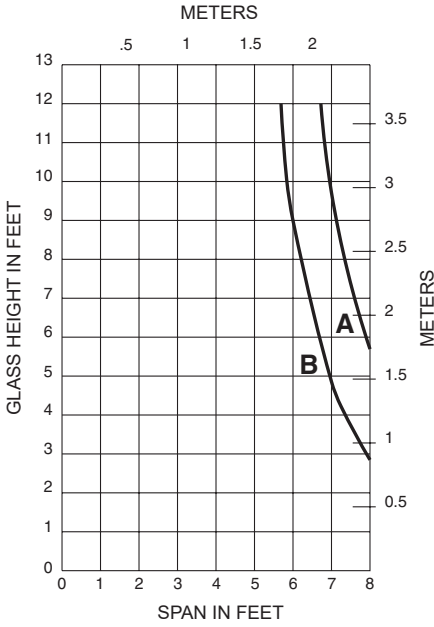
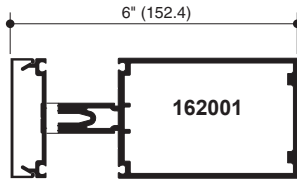
162016 W/162301/302/303



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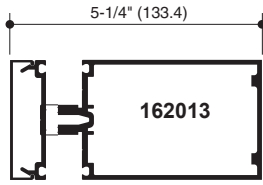
A - 1/4" GLASS (1/4 POINT LOADING)
B - 1" GLASS (1/4 POINT LOADING)



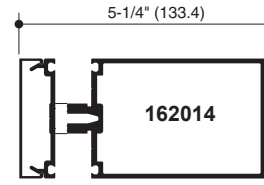
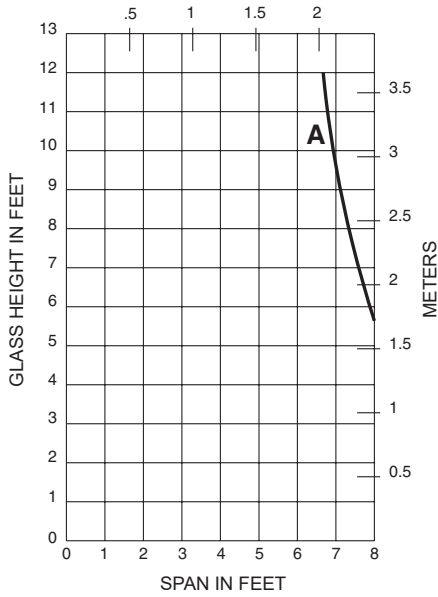
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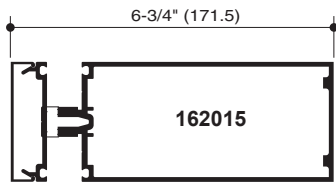
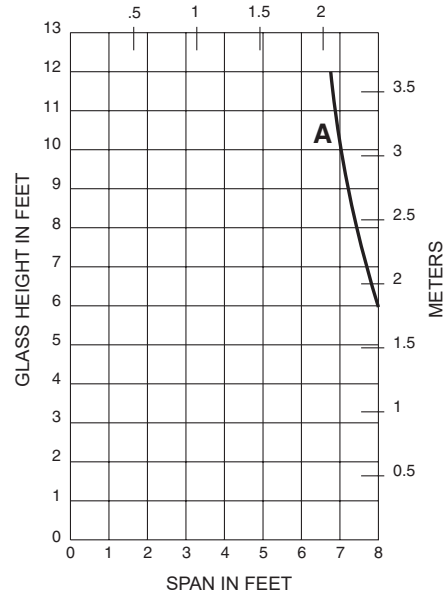
A - 1/4" GLASS (1/4 POINT LOADING)



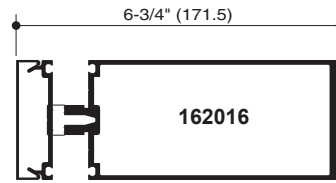
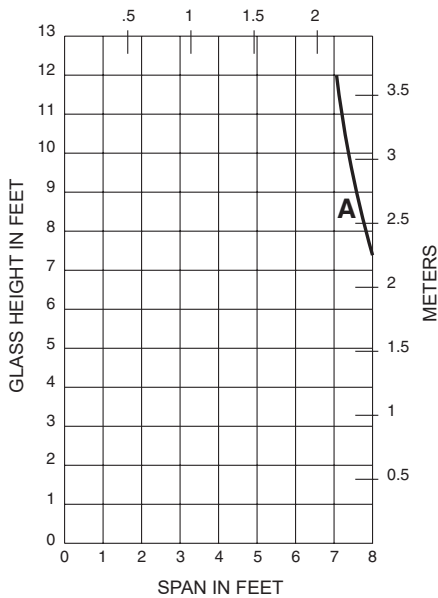
METERS



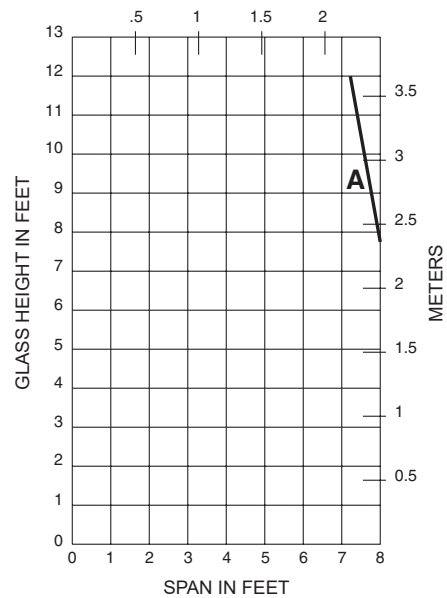
METERS



METERS



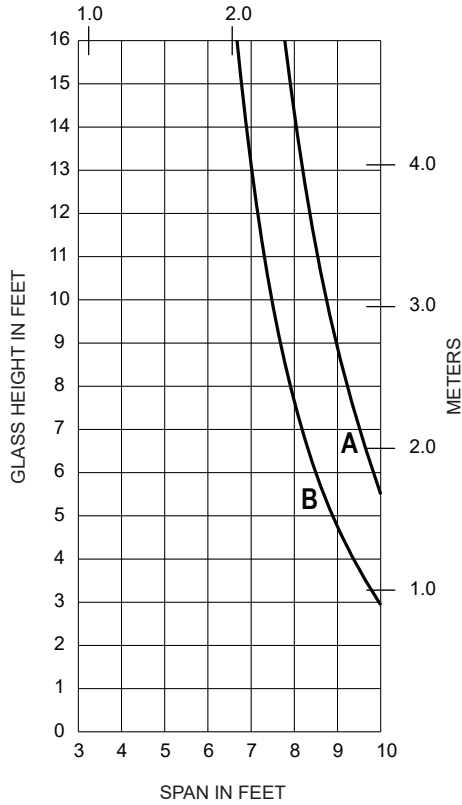
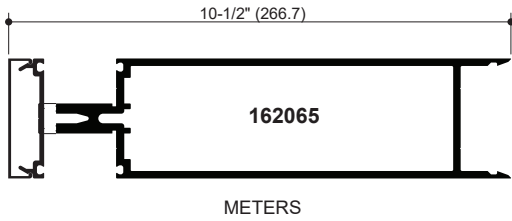
METERS



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



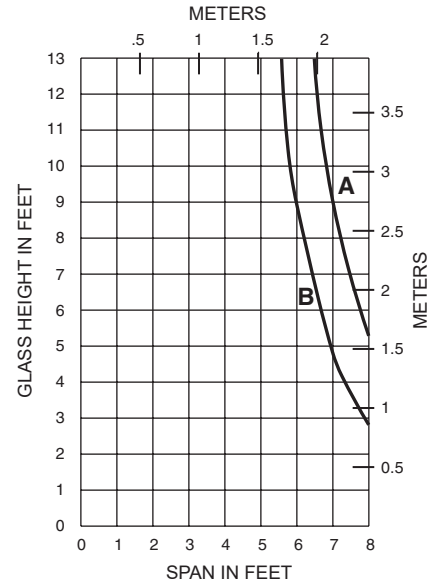
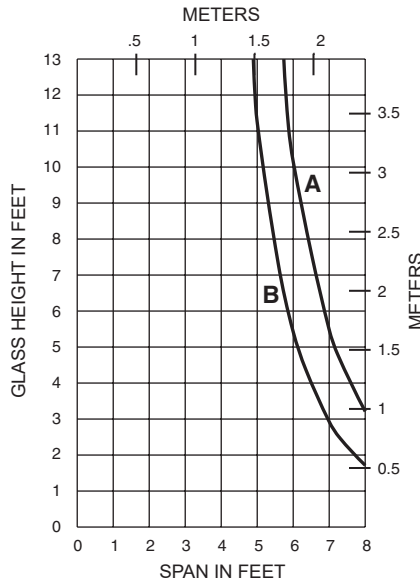
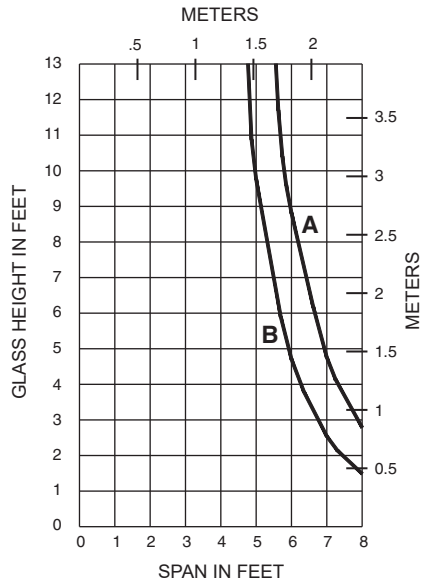
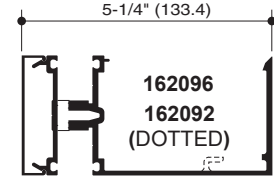
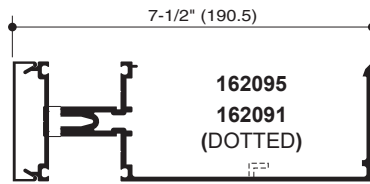
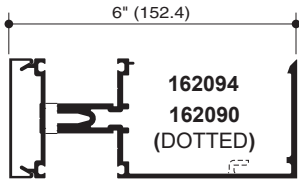
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A - 1" GLASS (1/8 POINT LOADING)
B - 1" GLASS (1/4 POINT LOADING)

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

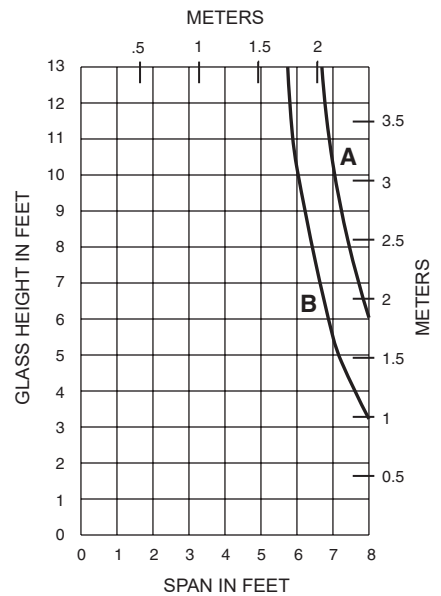
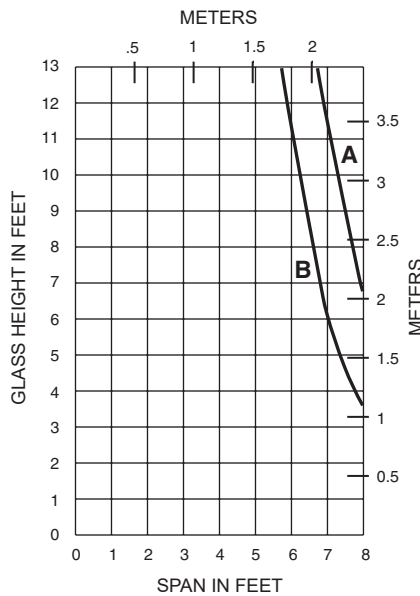
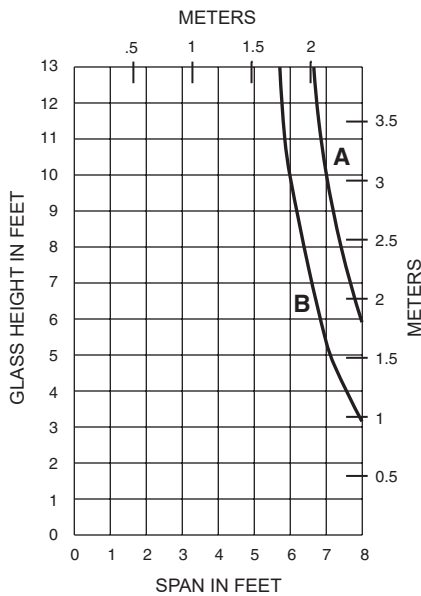
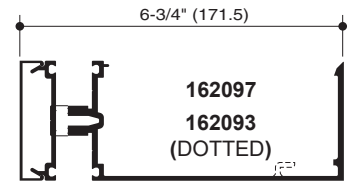
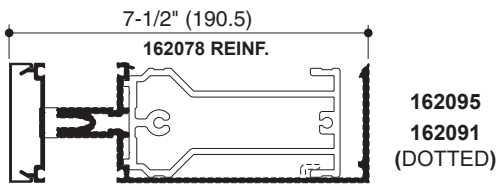
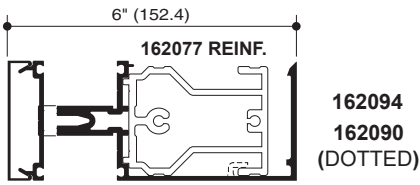
A - 1/4" GLASS (1/8 POINT LOADING)
B - 1/4" GLASS (1/4 POINT LOADING)



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

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

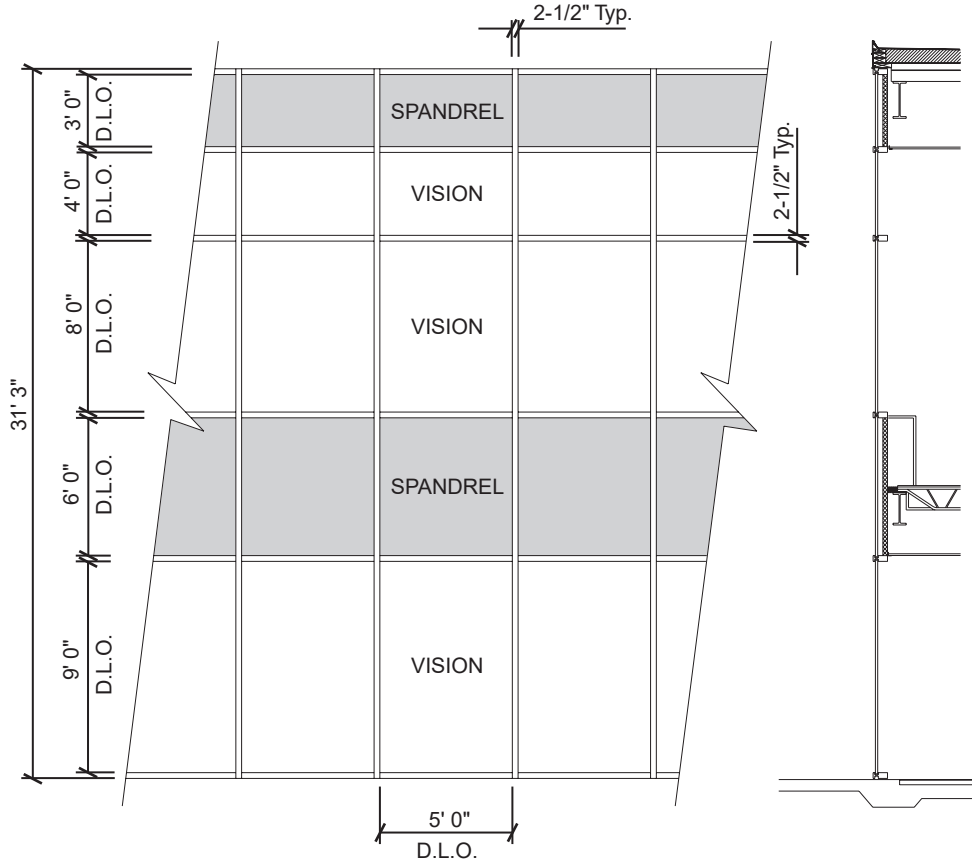
A - 1/4" GLASS (1/8 POINT LOADING)
B - 1/4" GLASS (1/4 POINT LOADING)



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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	= 0.48 Btu/(ft ² · h · °F)
Vision Area	= 5(9 + 8 + 4) = 105.0 ft ²
Total Area (Vision)	= 5' 2-1/2" (9' 3-3/4" + 8' 2-1/2" + 4' 2-1/2") = 113.2 ft ²
Percentage of Vision Glass	= (Vision Area ÷ Total Area)100 = (105.0 ÷ 113.2)100 = 93%

Spandrel Area

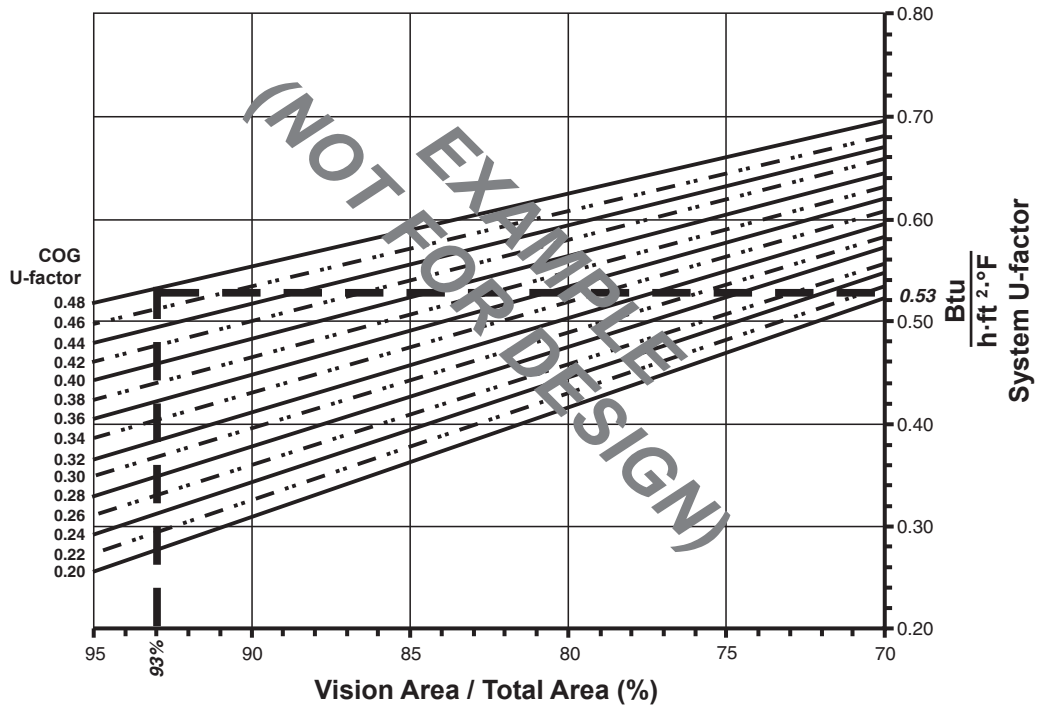
Example Spandrel R-value	= 15 (ft ² · h · °F)/Btu
Spandrel Area	= 5(6 + 3) = 45.0 ft ²
Total Area (Spandrel)	= 5' 2-1/2" (6' 2-1/2" + 3' 3-3/4") = 49.6 ft ²
Percent of Spandrel	= (Spandrel Area ÷ Total Area)100 = (49.0 ÷ 49.6)100 = 91%

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Vision Area Chart

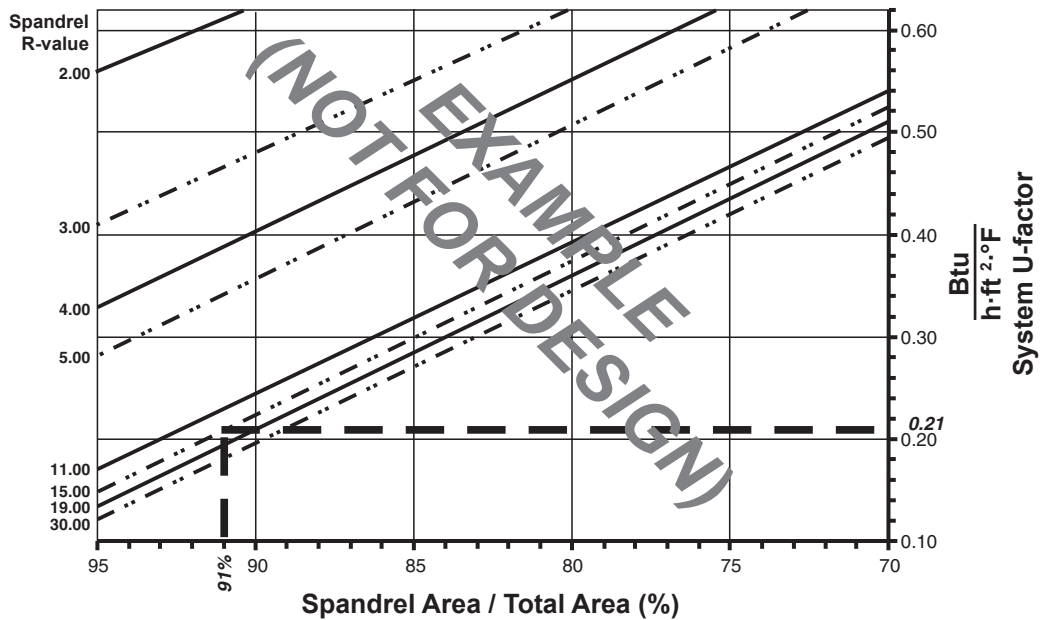
System U-factor vs Percent of Vision Area



Based on a single curtain wall bay of 93% vision glass and center of glass U-factor of 0.48, System U-factor is equal to 0.53 Btu/(h·ft²·°F)

Spandrel Area Chart

System U-factor vs Percent of Spandrel Area



Based on a single curtain wall bay of 91% spandrel and center of spandrel R-value of 15, system U-factor is equal to 0.21 Btu/(h·ft²·°F)

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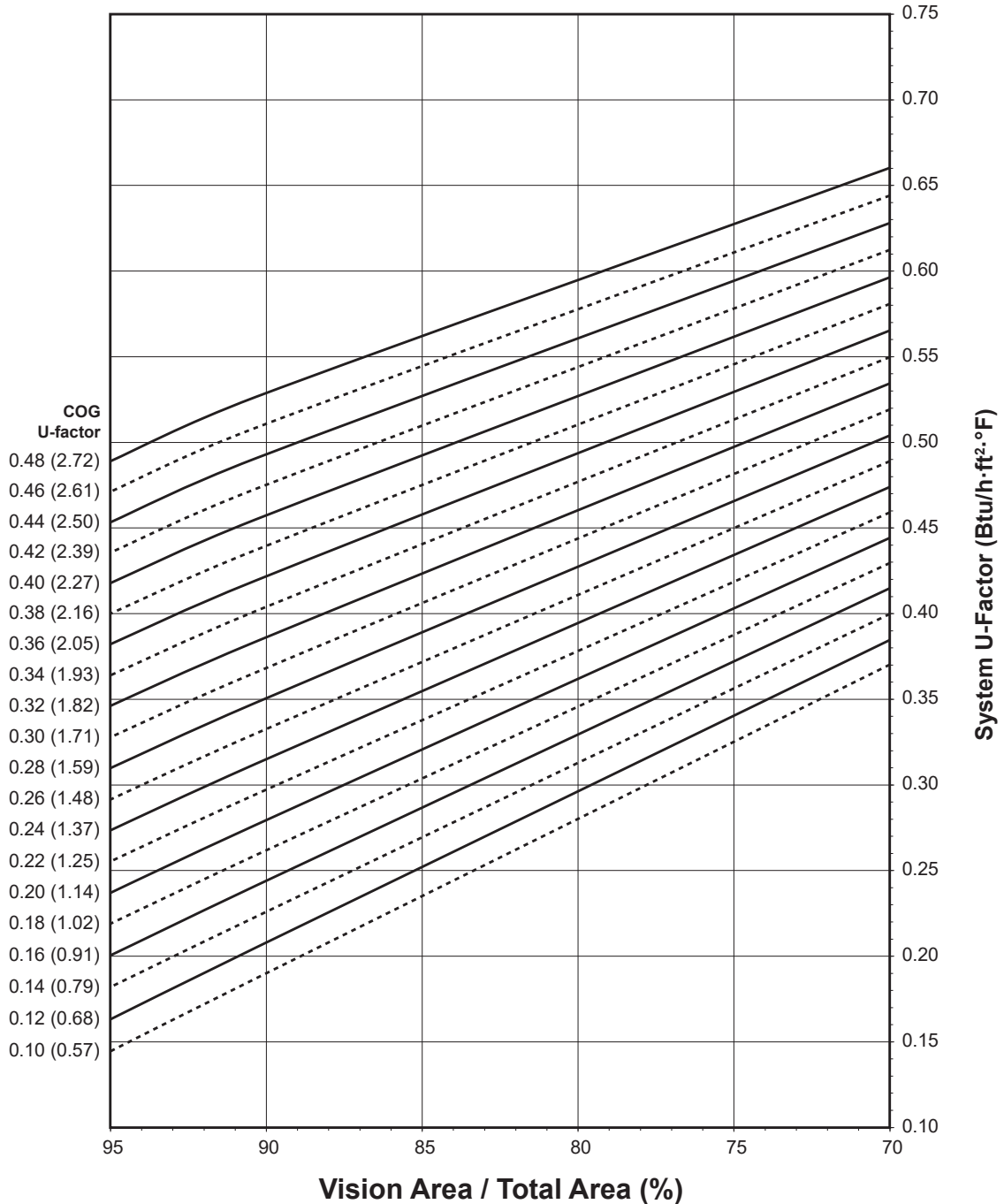
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**Vertical SSG - Aluminum Pressure Plate
1" Double Glazed - Warm-Edge Glazing Spacer**

Note:

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

System U-Factor for Vision Glass



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

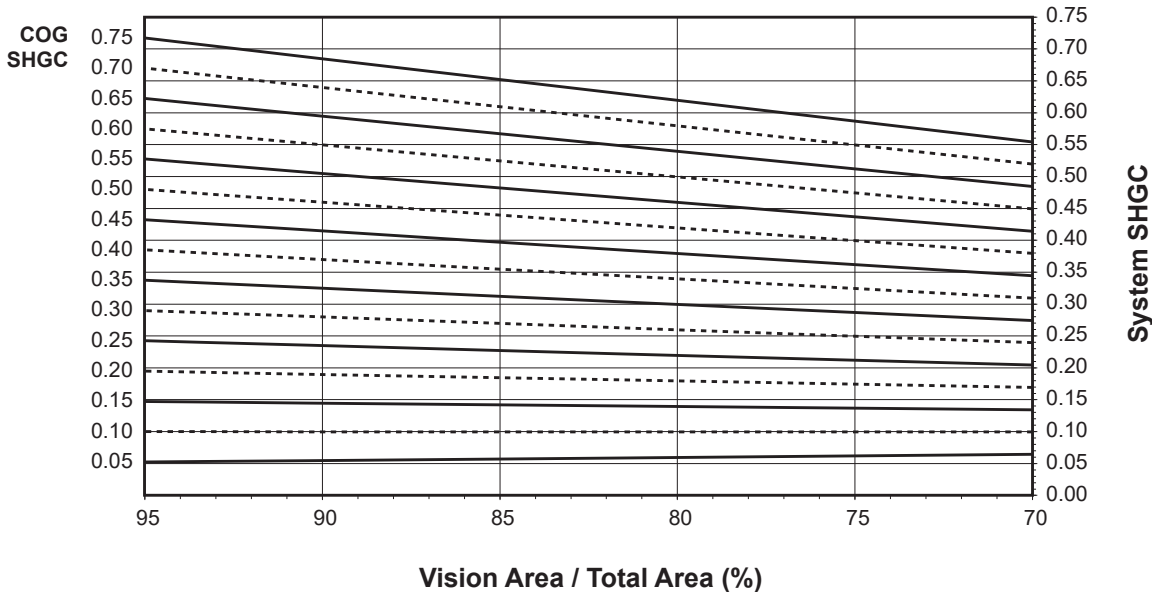
For glass values that are not listed, linear interpolation is permitted.
Glass properties are based on center of glass values and are obtained from your glass supplier.

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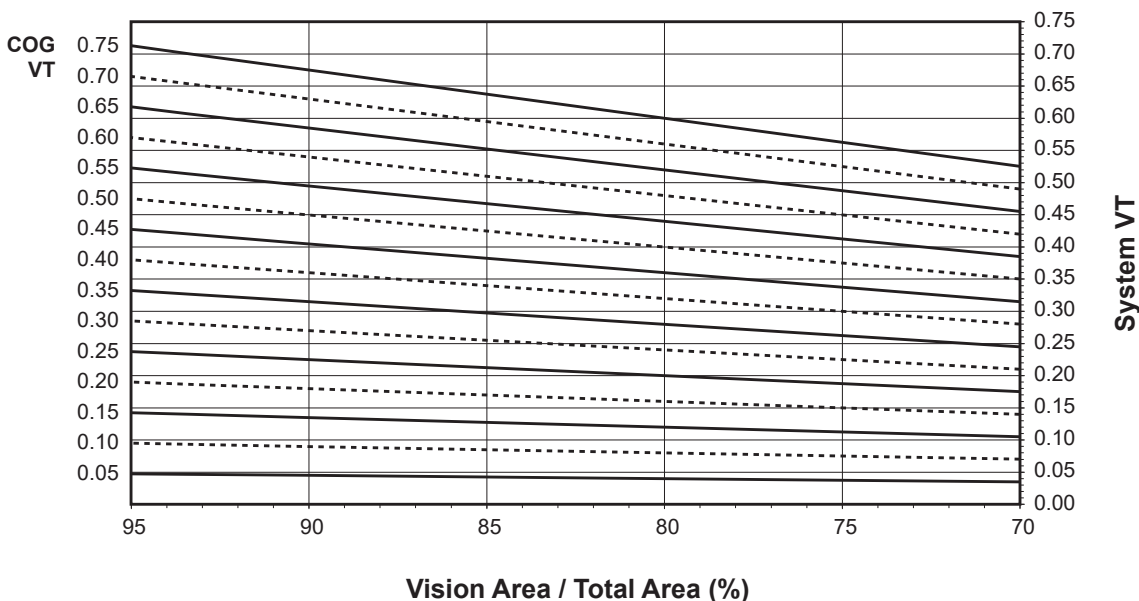
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**Vertical SSG - Aluminum Pressure Plate
1" Double Glazed - Warm-Edge Glazing Spacer**

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 ¹ (BTU/hr • ft ² • °F)

Glass U-Factor ³	Overall U-Factor ⁴
0.48	0.53
0.46	0.51
0.44	0.49
0.42	0.47
0.40	0.45
0.38	0.44
0.36	0.42
0.34	0.40
0.32	0.38
0.30	0.37
0.28	0.35
0.26	0.33
0.24	0.31
0.22	0.29
0.20	0.28
0.18	0.26
0.16	0.24
0.14	0.22
0.12	0.20
0.10	0.19

Vertical SSG Aluminum Pressure Plate 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 ²

Glass SHGC ³	Overall SHGC ⁴
0.75	0.69
0.70	0.64
0.65	0.60
0.60	0.55
0.55	0.51
0.50	0.46
0.45	0.42
0.40	0.37
0.35	0.33
0.30	0.28
0.25	0.24
0.20	0.19
0.15	0.14
0.10	0.10
0.05	0.05

Visible Transmittance ²

Glass VT ³	Overall VT ⁴
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

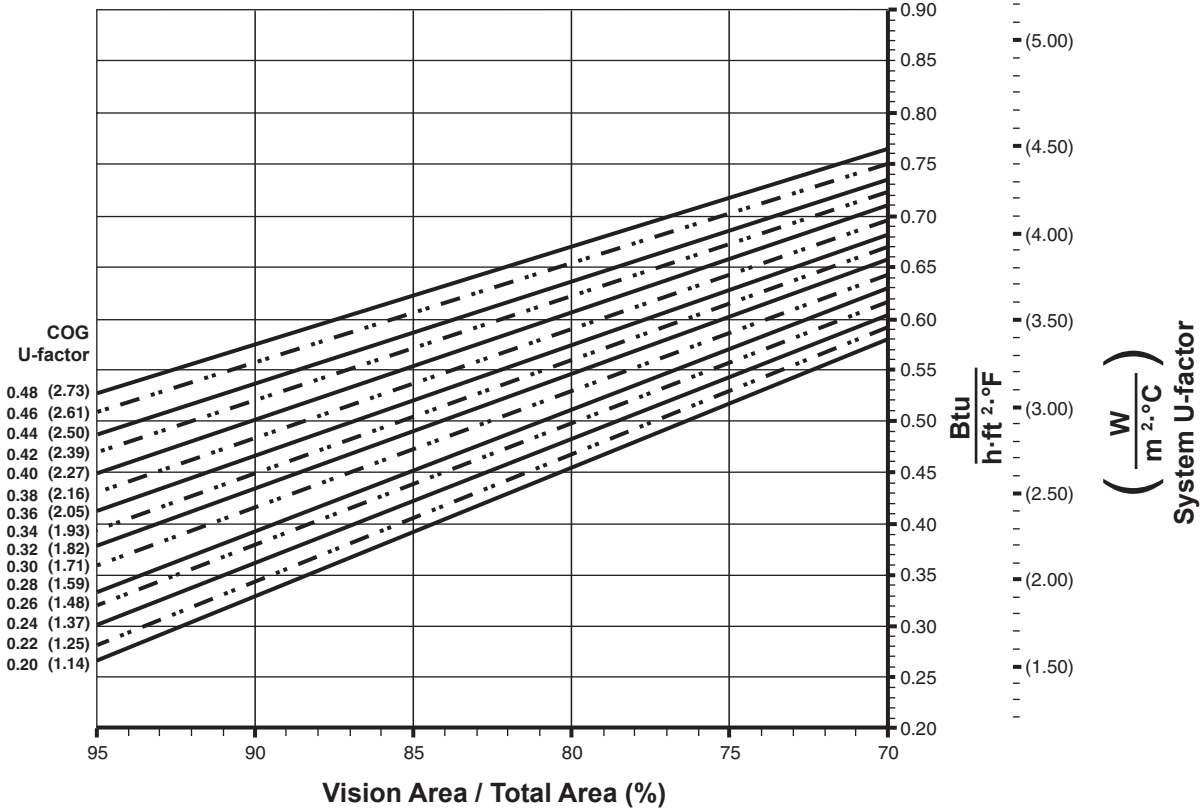
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**Vertical SSG - Aluminum Pressure Plate
1" Double Glazed - Aluminum Glazing Spacer**

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

System U-Factor for Vision Glass



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 (winter conditions) and are obtained from your glass supplier.

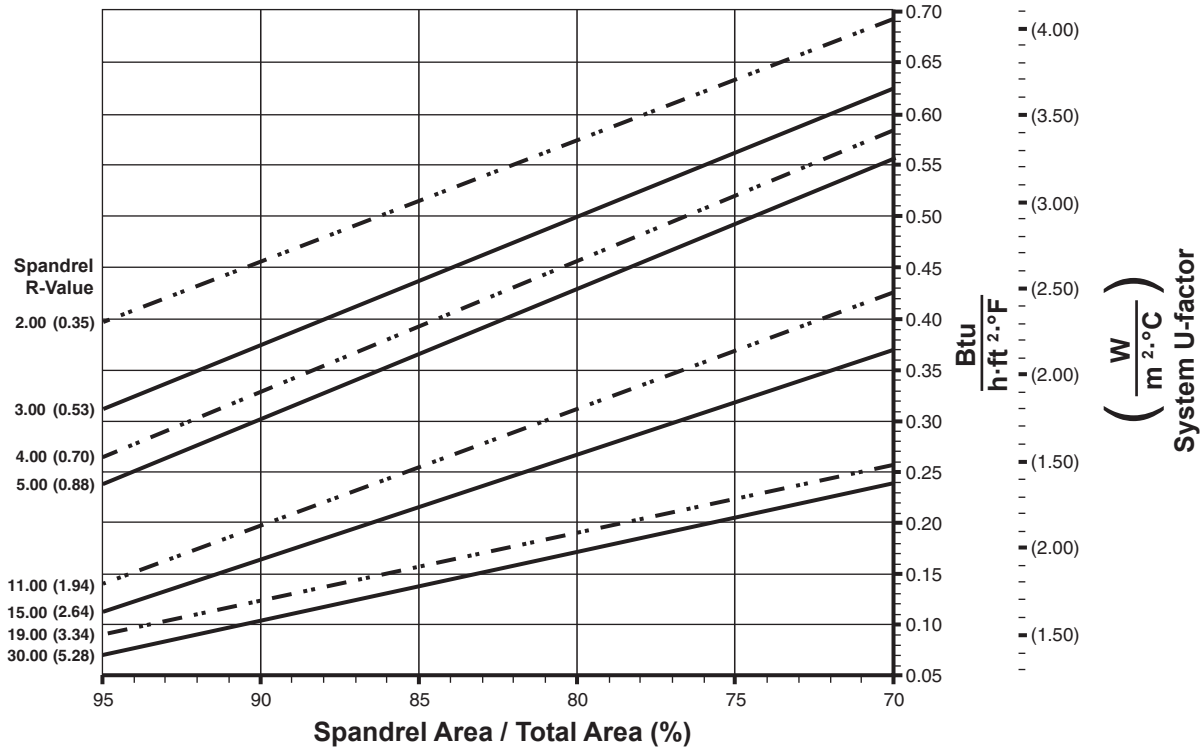
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**Vertical SSG - Aluminum Pressure Plate
1/4" Single Glazed**

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

System U-Factors for Spandrel Glass



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

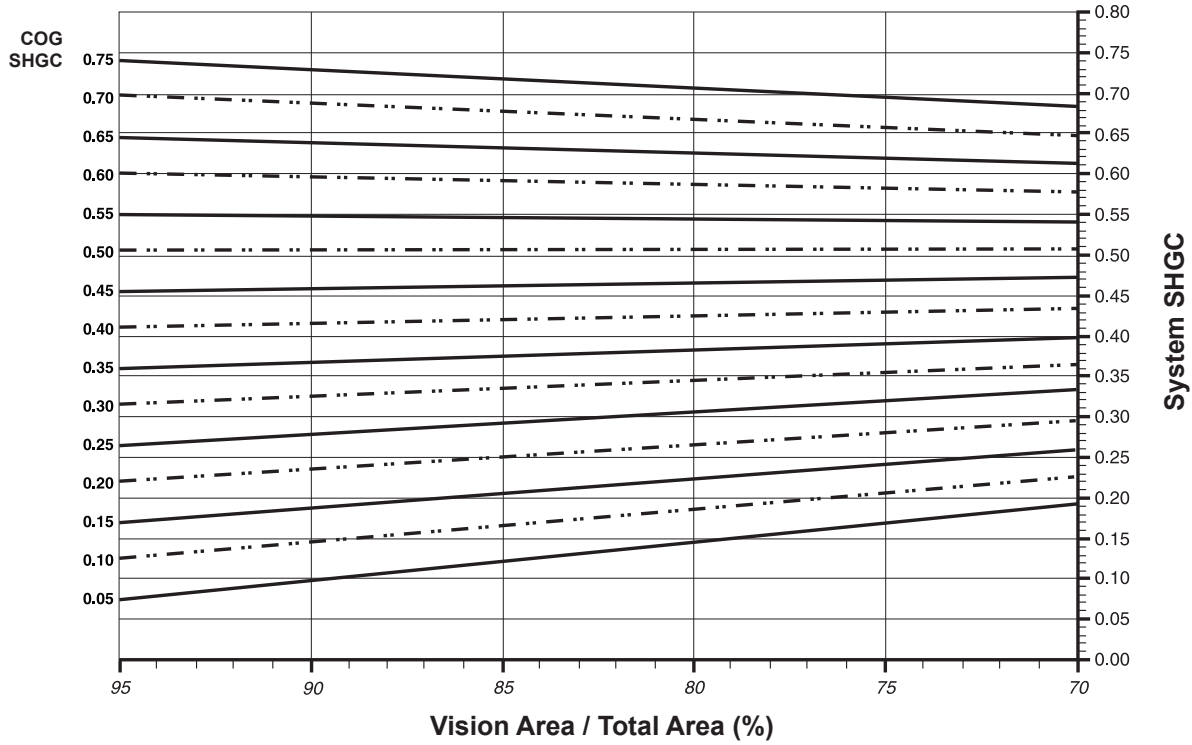
For glass values that are not listed, linear interpolation is permitted.
Glass properties are based on center of glass values (winter conditions) and are obtained from your glass supplier.

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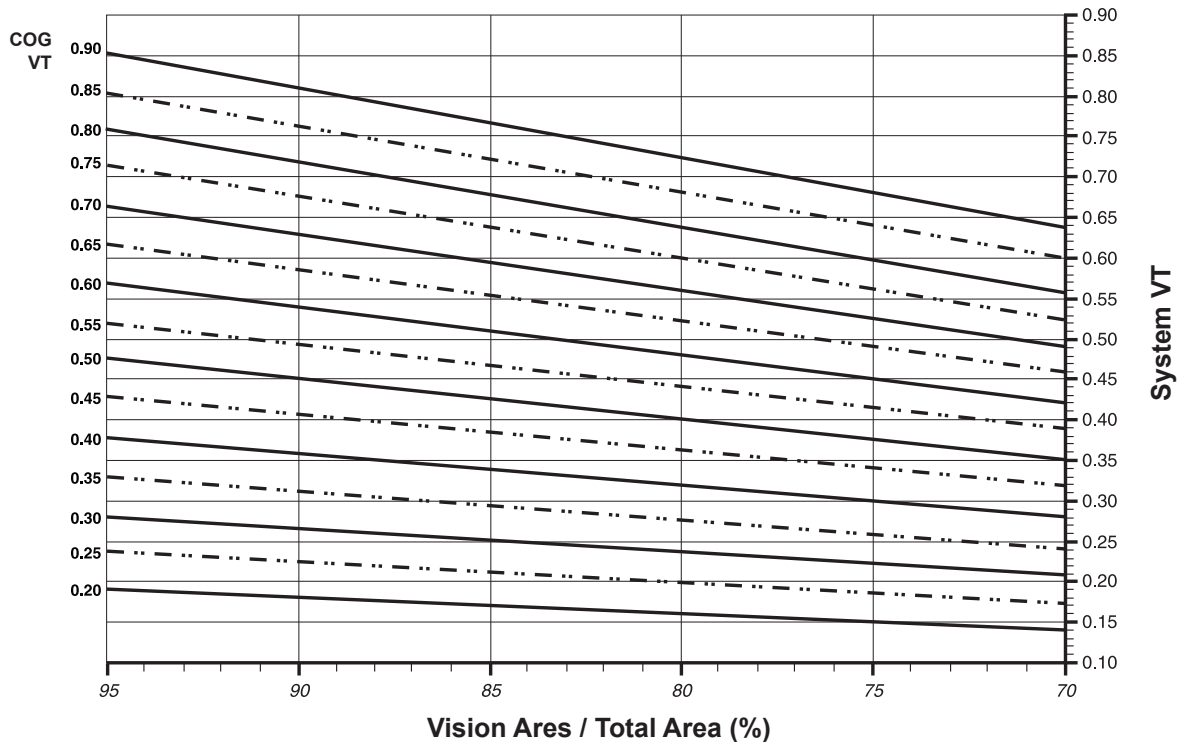
**Vertical SSG - Aluminum Pressure Plate
1" Double Glazed - Aluminum Glazing Spacer**

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



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 ¹ (BTU/hr • ft ² • °F)

Glass U-Factor ³	Overall U-Factor ⁴
0.48	0.56
0.46	0.54
0.44	0.53
0.42	0.51
0.40	0.49
0.38	0.48
0.36	0.46
0.34	0.44
0.32	0.42
0.30	0.41
0.28	0.39
0.26	0.37
0.24	0.36
0.22	0.34
0.20	0.32

**Vertical SSG
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 ²

Glass SHGC ³	Overall SHGC ⁴
0.75	0.73
0.70	0.68
0.65	0.64
0.60	0.59
0.55	0.55
0.50	0.50
0.45	0.46
0.40	0.41
0.35	0.37
0.30	0.32
0.25	0.28
0.20	0.23
0.15	0.19
0.10	0.14
0.05	0.10

Visible Transmittance ²

Glass VT ³	Overall VT ⁴
0.90	0.81
0.85	0.77
0.80	0.72
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

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.

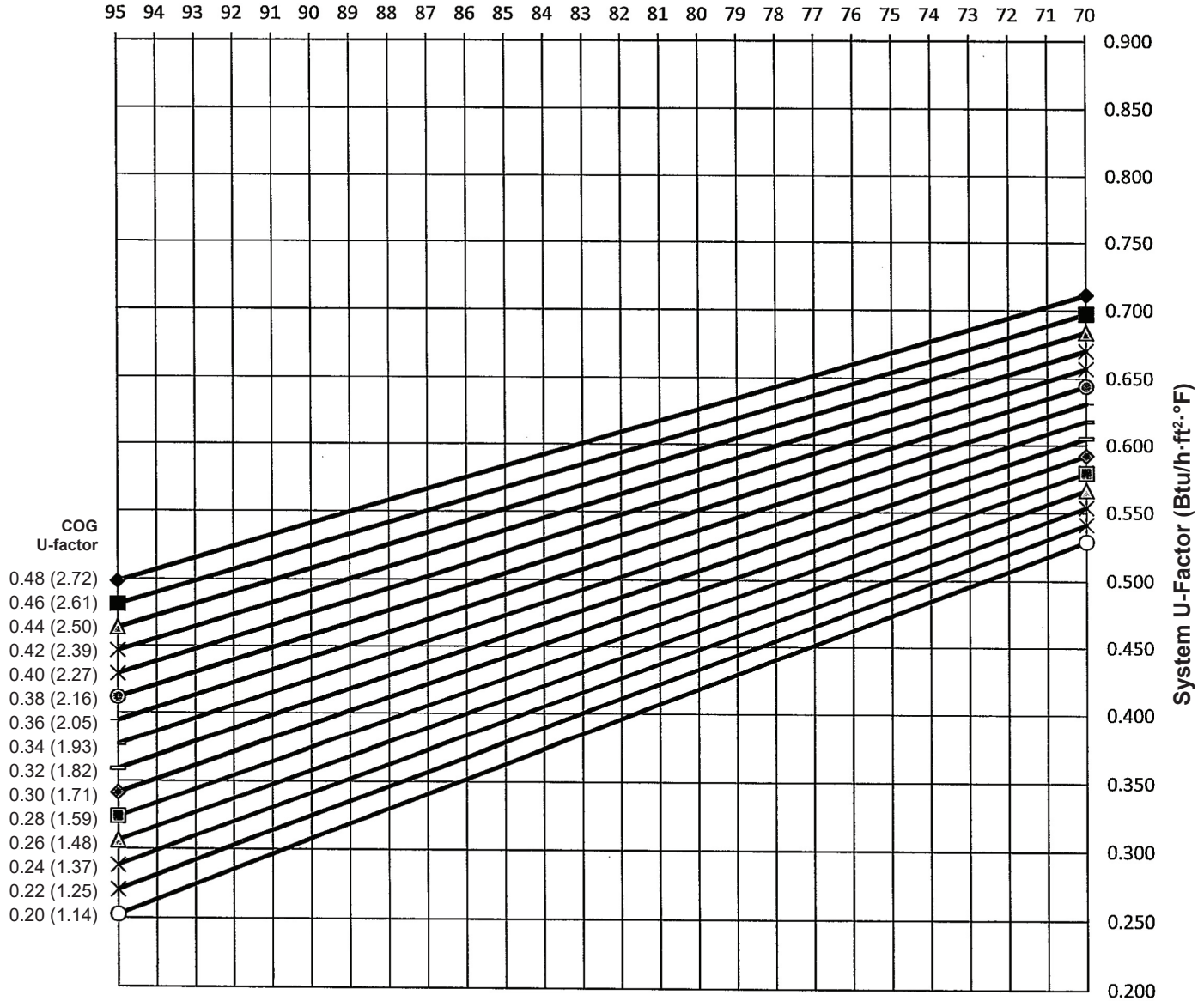
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**Vertical SSG - Fiberglass Pressure Plate
1" Double Glazed - Aluminum Glazing Spacer**

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

System U-Factor for Vision Glass

Vision Area / Total Area (%)



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

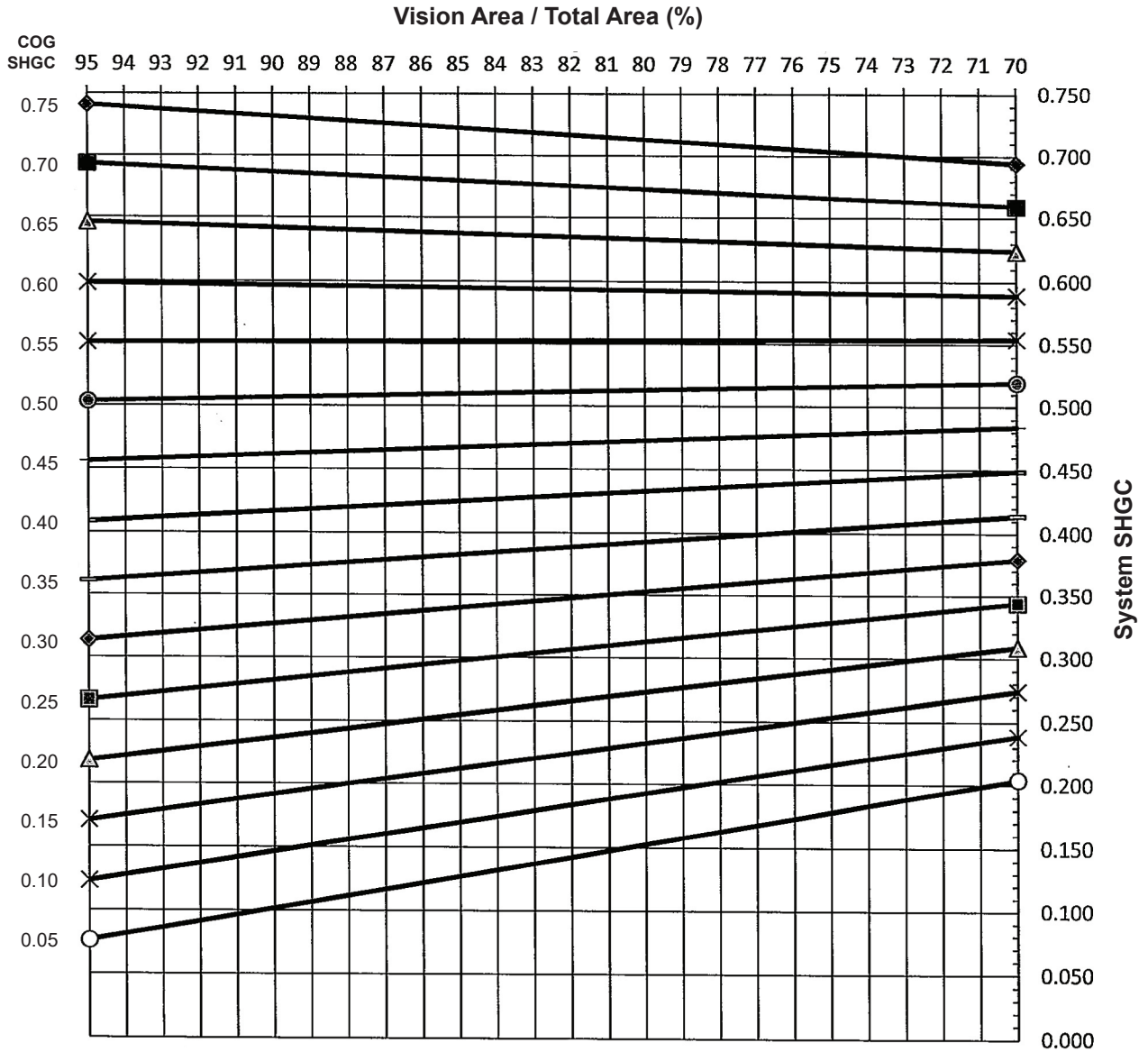
For glass values that are not listed, linear interpolation is permitted.
Glass properties are based on center of glass values (winter conditions) and are obtained from your glass supplier.

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Vertical SSG - Fiberglass Pressure Plate
1" Double Glazed - Aluminum Glazing Spacer

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



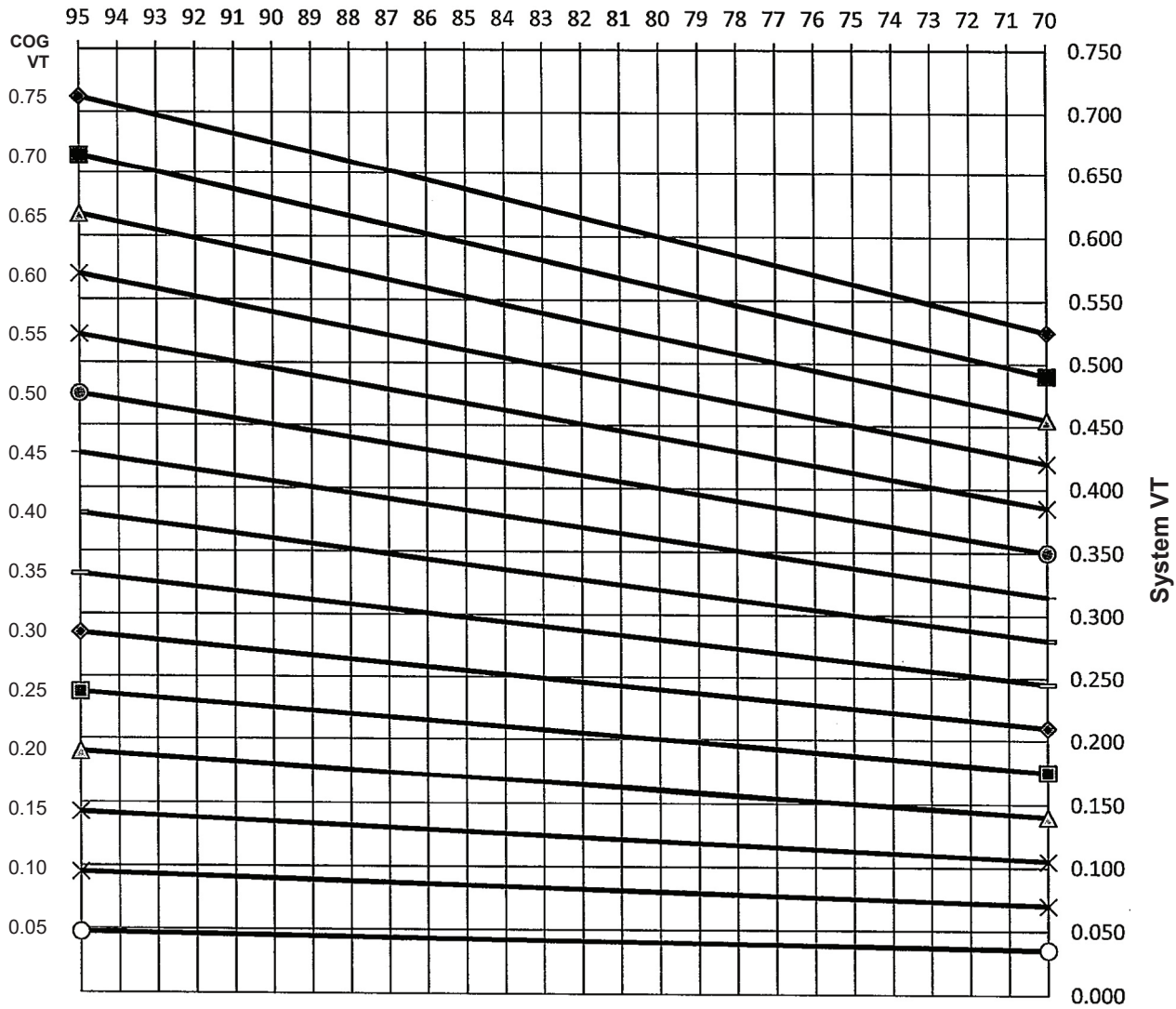
Charts are generated per AAMA 507.

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Vertical SSG - Fiberglass Pressure Plate
1" Double Glazed - Aluminum Glazing Spacer

System Visible Transmittance (VT) vs Percent of Vision Area
Vision Area / Total Area (%)



Charts are generated per AAMA 507.

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Thermal Transmittance ¹ (BTU/hr • ft ² • °F)

Glass U-Factor ³	Overall U-Factor ⁴
0.48	0.54
0.46	0.53
0.44	0.51
0.42	0.49
0.40	0.48
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	0.32
0.20	0.31

**Vertical SSG
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 ²

Glass SHGC ³	Overall SHGC ⁴
0.75	0.73
0.70	0.69
0.65	0.64
0.60	0.60
0.55	0.55
0.50	0.51
0.45	0.46
0.40	0.42
0.35	0.37
0.30	0.33
0.25	0.28
0.20	0.24
0.15	0.19
0.10	0.15
0.05	0.10

Visible Transmittance ²

Glass VT ³	Overall VT ⁴
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

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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	75	72	65	62
1" Double (No Low-e)	Aluminum	68	59	---	---
	Fiberglass	77	61	---	---

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