

Features

- 1600 SS is an outside glazed captured or SSG curtain wall system
- 1600 SS has 2-1/2" (63.5) sight lines
- Standard 6" (152.4) or 7-1/2" (190.5) depth systems
- Infill options up to 1-1/8" (28.6)
- A pre-glazed option, 1600 SS (Preglazed), is also available
- Perimeter seal can be installed at the pressure plate or mullion shoulder
- 1600 SS can be supplied fabricated and KD or in stock lengths
- Interlocking mullion design eliminates need for anti-buckling clips
- Concealed fastener joinery creates smooth, monolithic appearance
- EPDM gaskets and thermal break
- Screw spline joinery method allows shop assembly of ladder sections, reducing field labor
- Corners available with shear block fabrication method
- Offers integrated entrance framing systems
- Silicone compatible glazing materials for long-lasting seals
- Two color option
- Permanodic™ anodized finishes in seven choices
- Painted finishes in standard and custom choices

Optional Features

- Captured system thermal separator can be pre-installed into pressure plate
- Captured and SSG systems integrate with concealed GLASSvent™ for curtain wall
- Captured system Integrates with standard Kawneer windows
- Deep and bullnose covers available
- Integrates with Versoleil™ Sunshade Outrigger System and Horizontal or Vertical Single Blade System
- Profit\$Maker™ plus die sets available

Product Applications

- Ideal for low to mid-rise applications where high performance is desired
- Most of the product assembly can be done in the shop rather than the field.
This allows for better quality control and reduces expensive field labor.

For specific product applications,
Consult your Kawneer representative.

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

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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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LAWS AND BUILDING AND SAFETY CODES GOVERNING THE DESIGN AND USE OF GLAZED ENTRANCE, WINDOW, AND CURTAIN WALL PRODUCTS VARY WIDELY. KAWNEER DOES NOT CONTROL THE SELECTION OF PRODUCT CONFIGURATIONS, OPERATING HARDWARE, OR GLAZING MATERIALS, AND ASSUMES NO RESPONSIBILITY THEREFOR.

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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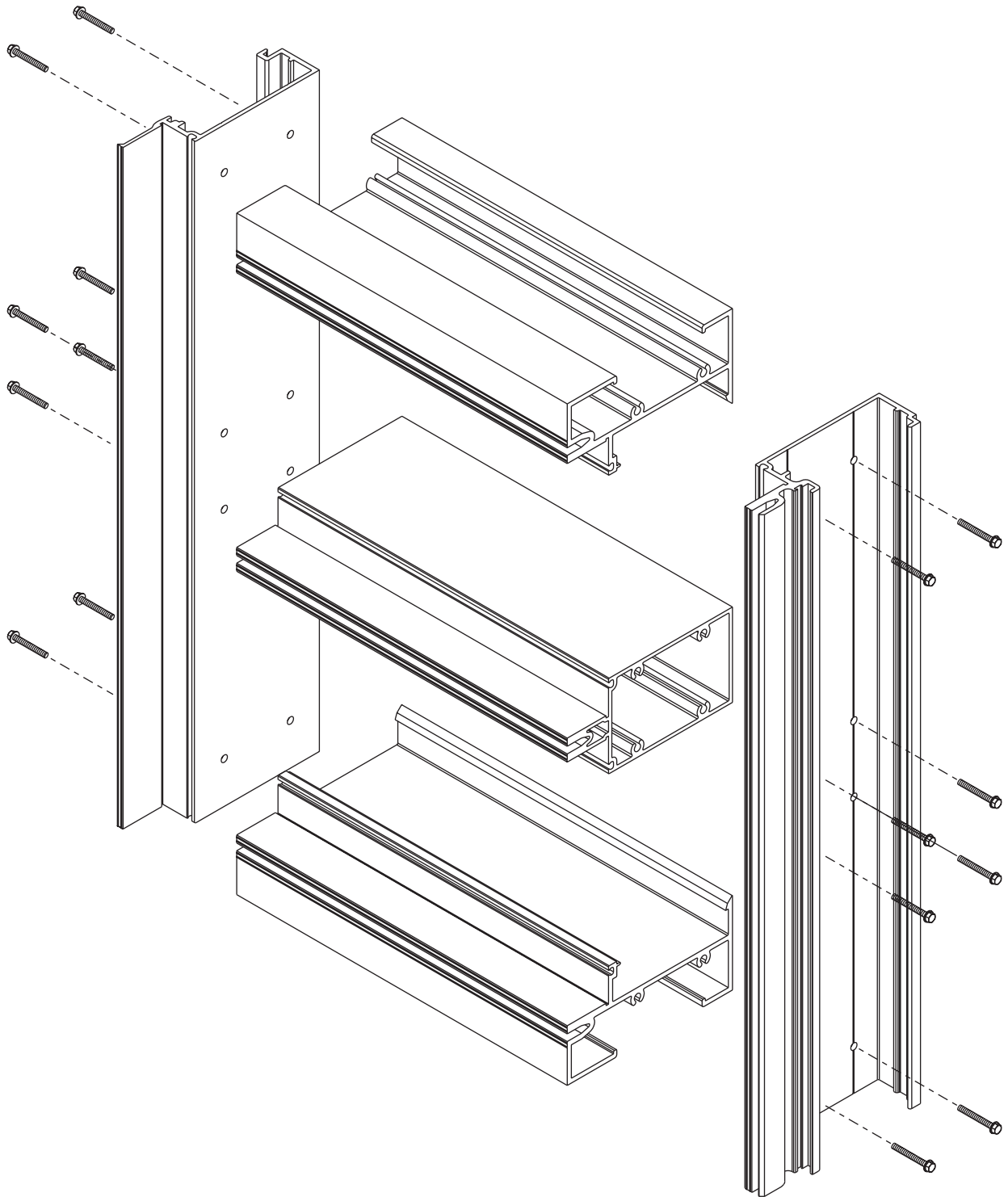
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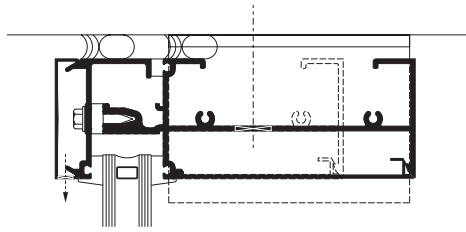
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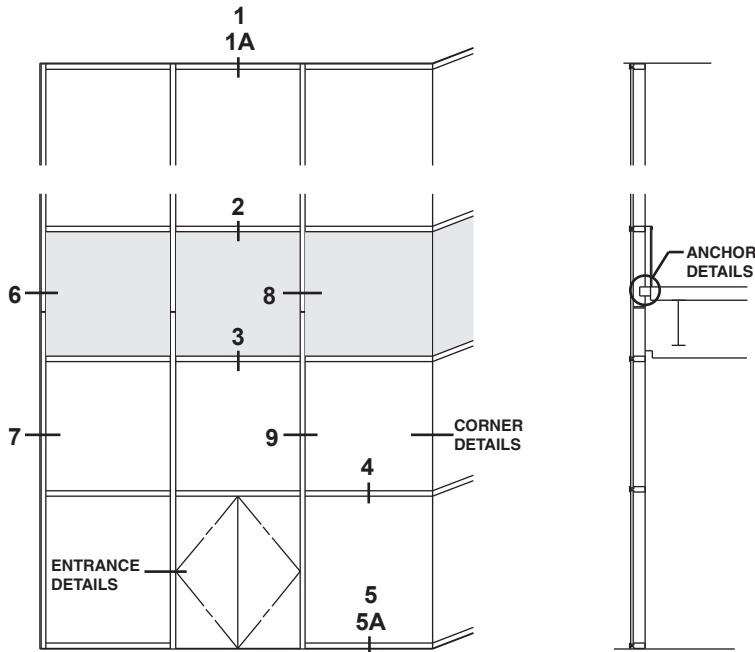
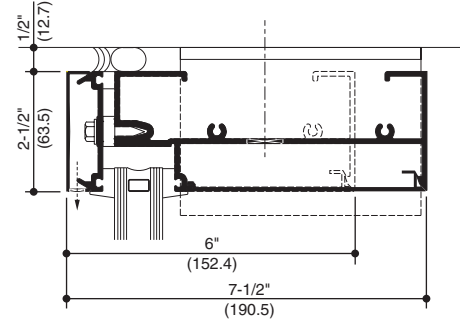
PERIMETER PRESSURE PLATE

1A HEAD



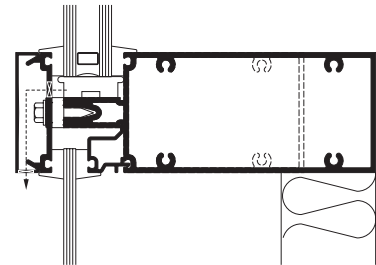
PERIMETER MULLION

1 HEAD

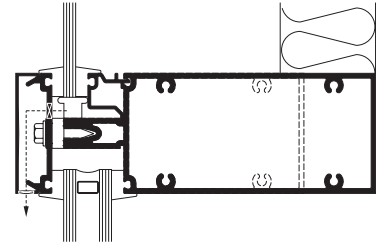


CAPTURED MULLION ELEVATION
ELEVATION IS NUMBER KEYED TO DETAILS

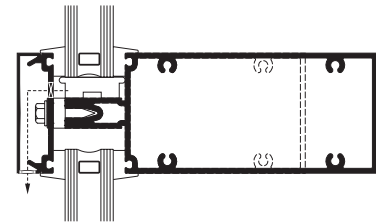
2 HORIZONTAL



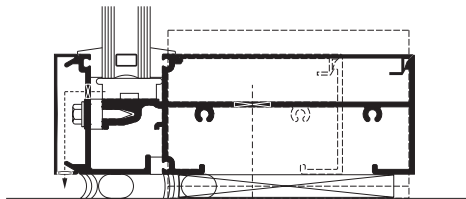
3 HORIZONTAL



4 HORIZONTAL

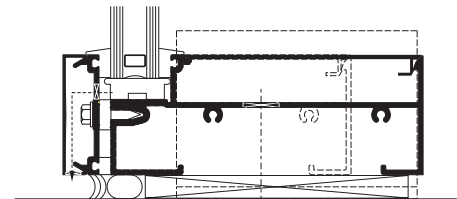


5A SILL



PERIMETER PRESSURE PLATE

5 SILL



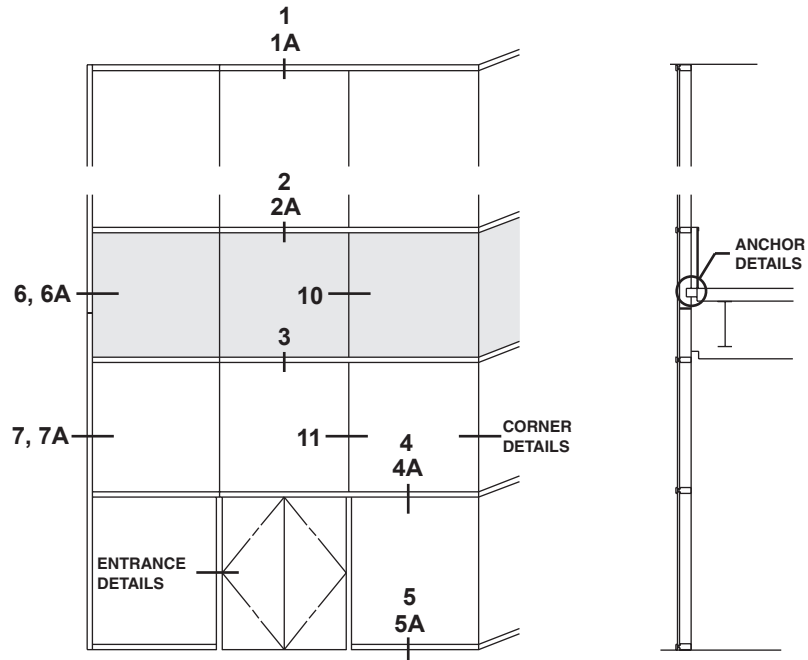
PERIMETER MULLION

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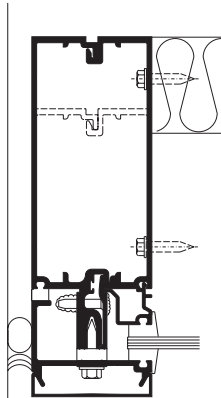
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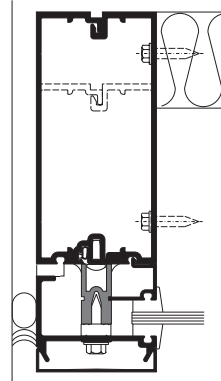


SSG MULLION ELEVATION

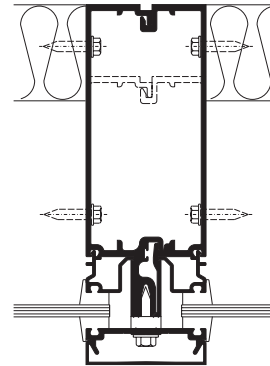
ELEVATION IS NUMBER KEYED TO DETAILS



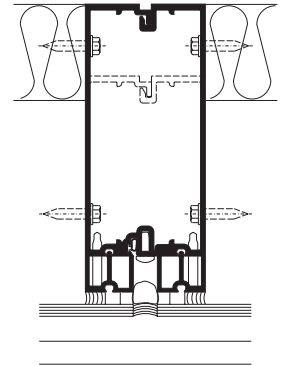
6
JAMB
(1/4" INFILL)



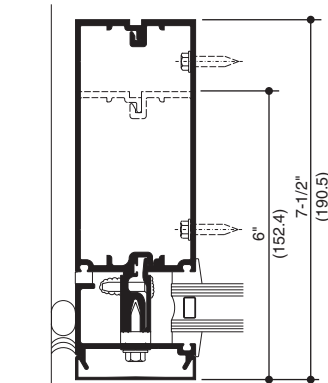
6A
SSG MULLION
AT JAMB (1/4")



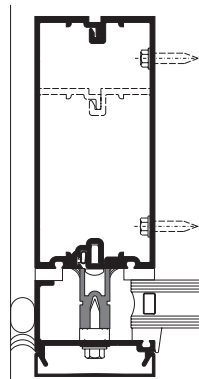
8
CAPTURED
MULLION (1/4")



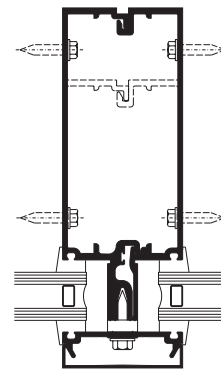
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SSG MULLION
(1/4" INFILL)



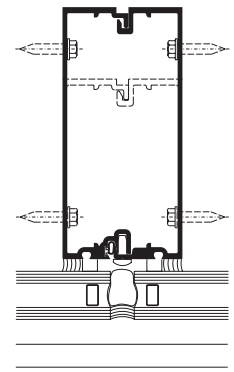
7
JAMB
(1" INFILL)



7A
SSG MULLION
AT JAMB (1")



9
CAPTURED
MULLION (1")



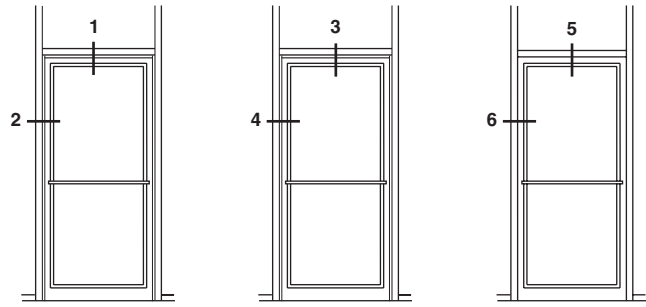
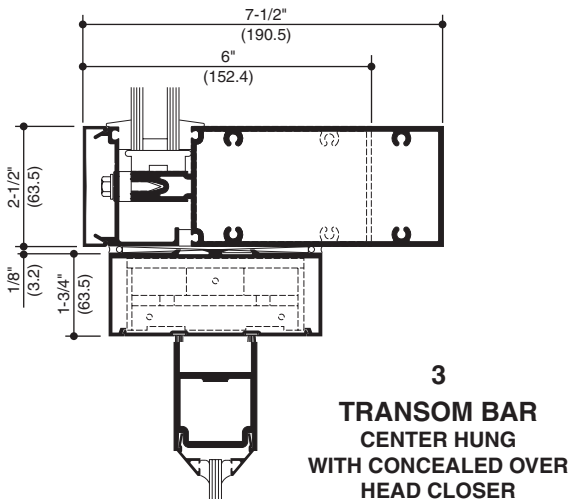
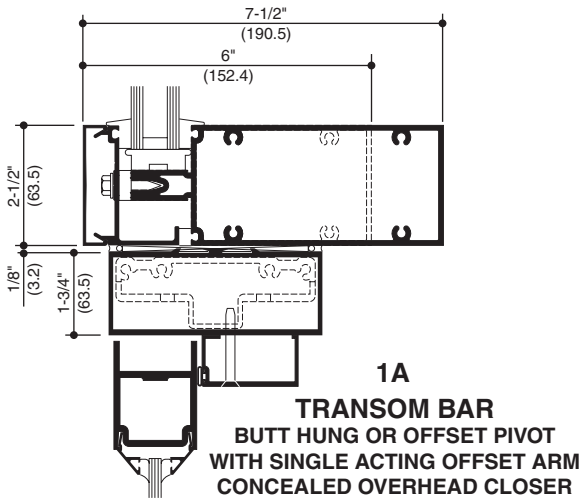
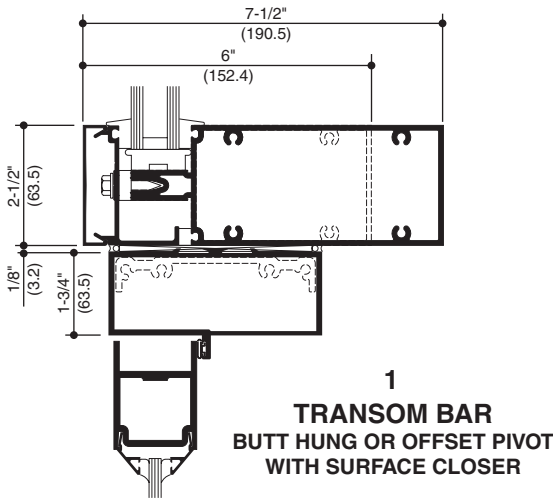
11
SSG MULLION
(1" INFILL)

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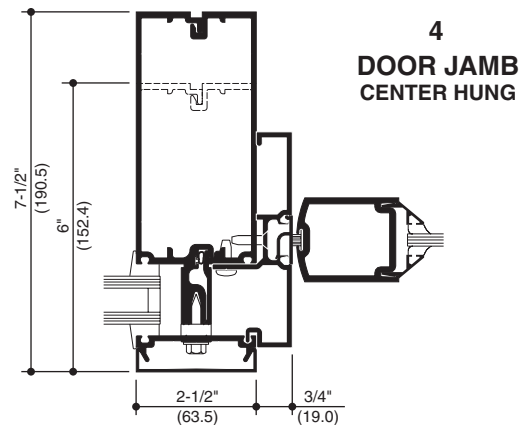
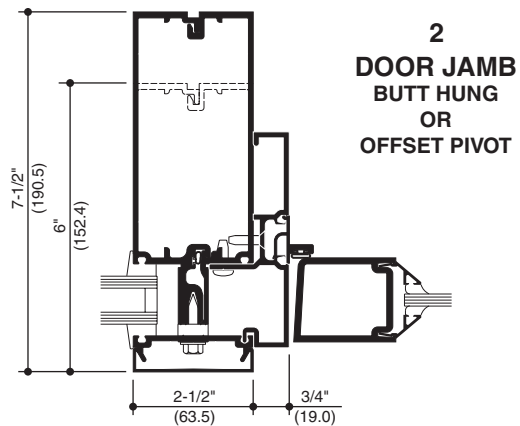


B/H or O/P

C/H

B/H or O/P

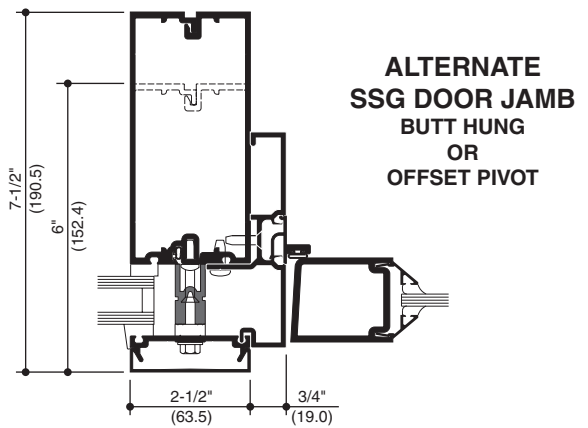
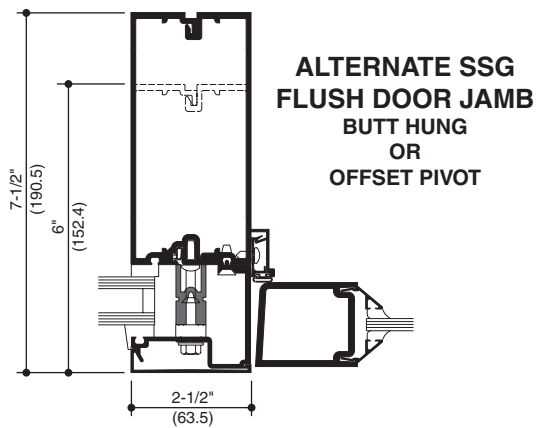
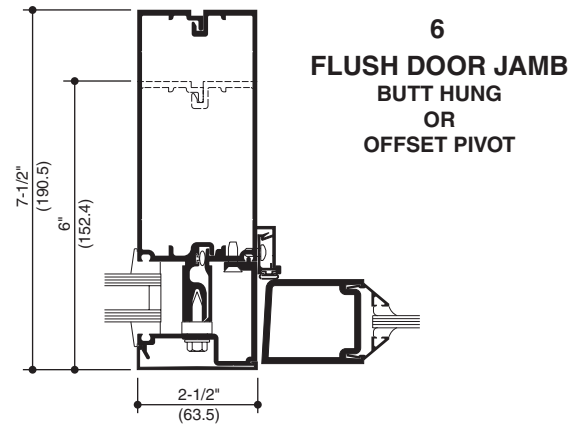
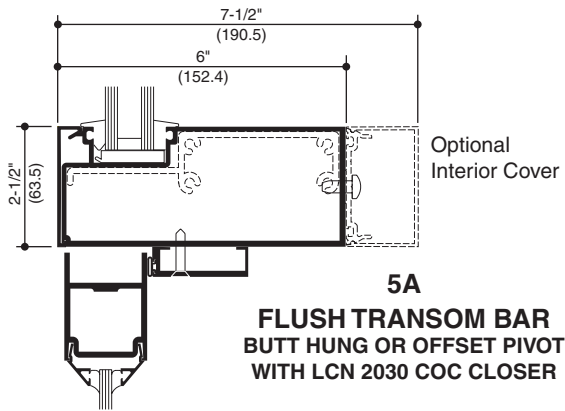
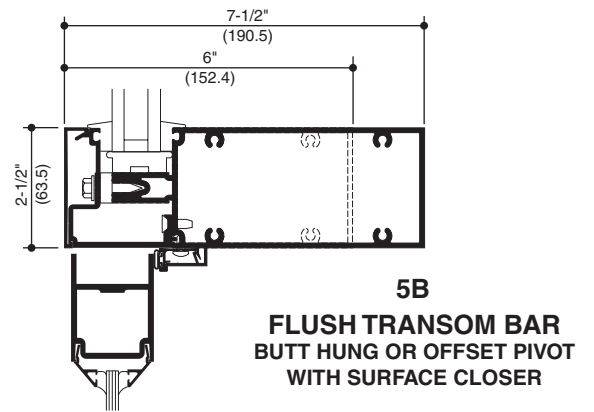
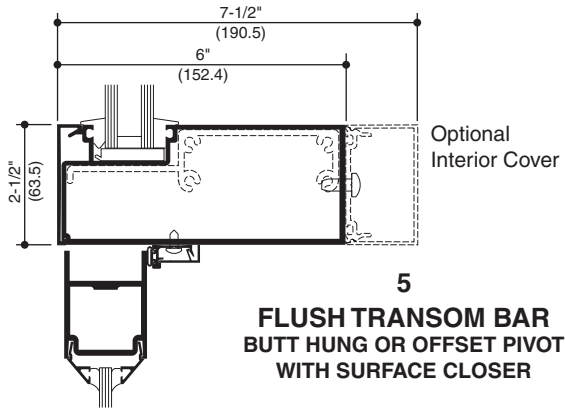
ENTRANCE ELEVATION
ELEVATION IS NUMBER KEYED TO DETAILS



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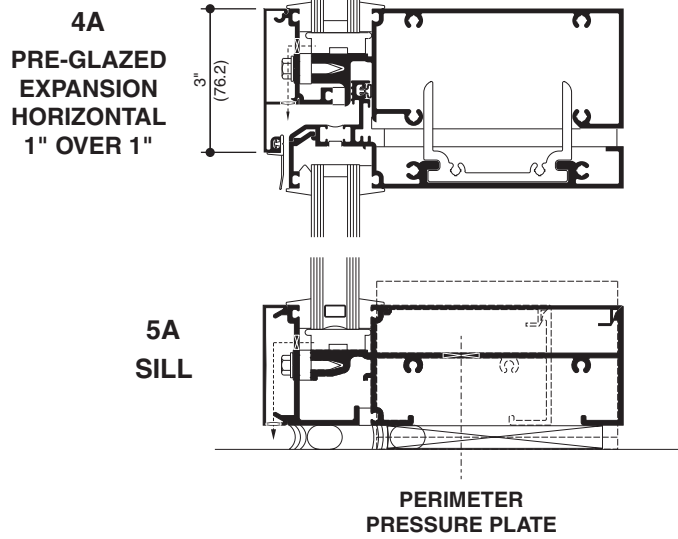
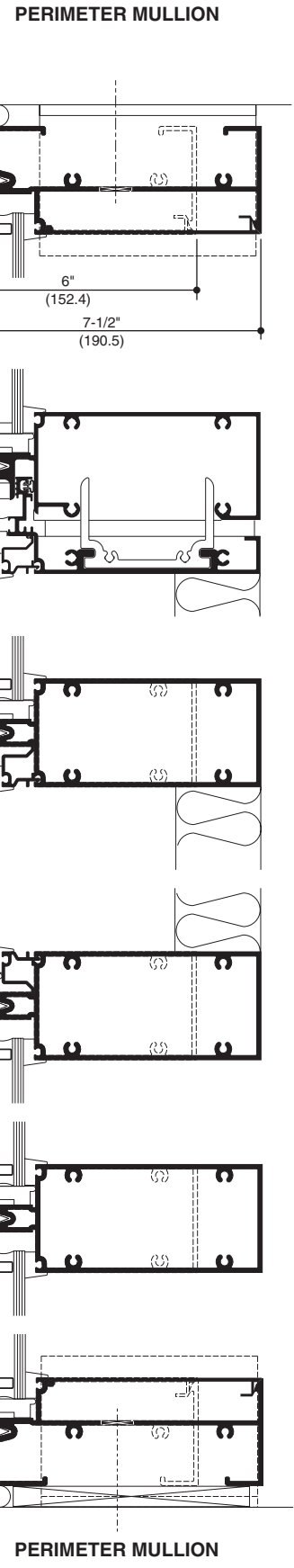
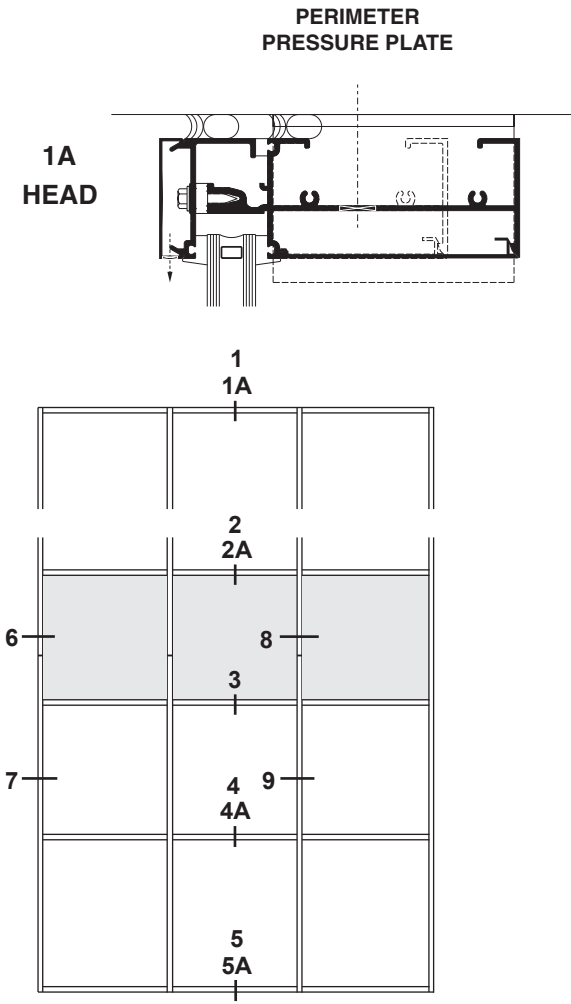
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SCALE 3" = 1'-0"

NOTE: SEE PAGE 7 FOR VERTICAL MULLION DETAILS



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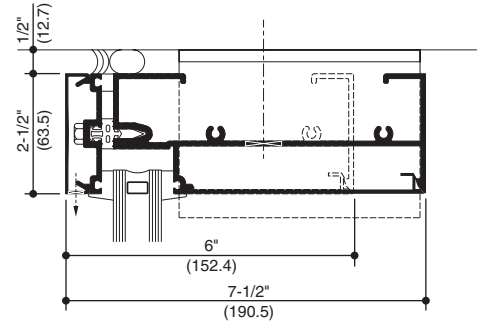
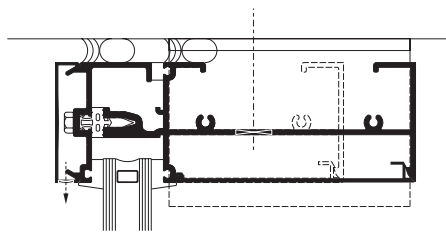
(RTS) - Reversed Thermal Separator

PERIMETER PRESSURE PLATE

PERIMETER MULLION

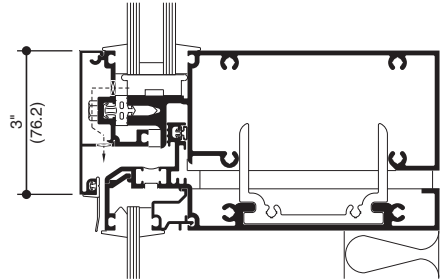
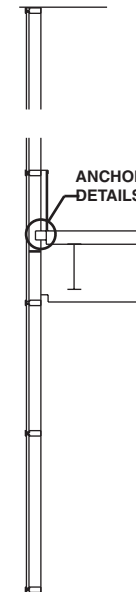
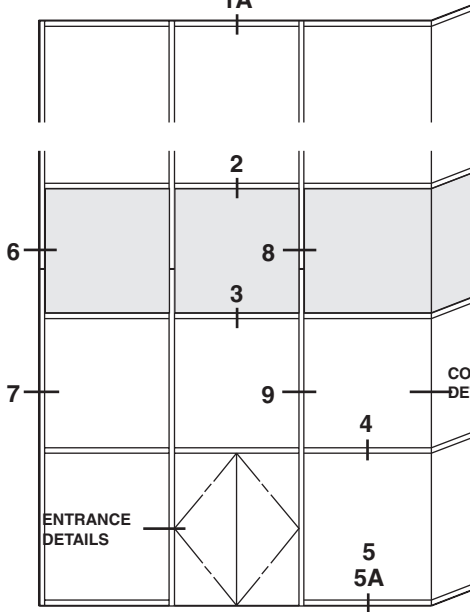
1A HEAD

1 HEAD

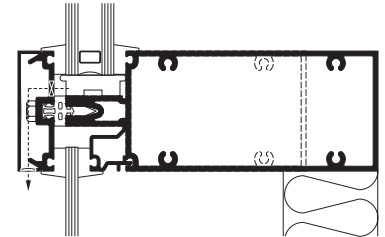


1
1A

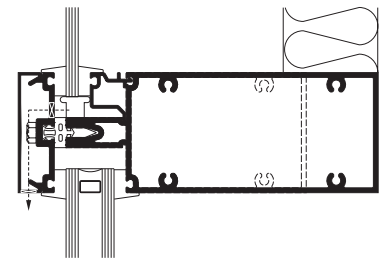
2A
PRE-GLAZED
EXPANSION
HORIZONTAL
1" OVER 1/4"



2
HORIZONTAL

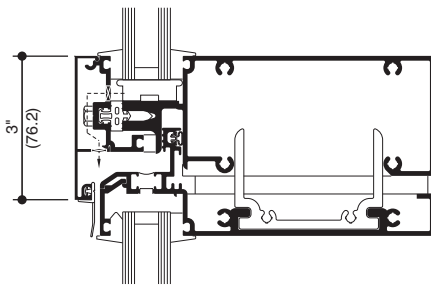


3
HORIZONTAL

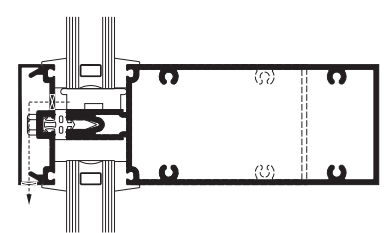


(RTS) CAPTURED MULLION ELEVATION
ELEVATION IS NUMBER KEYED TO DETAILS

4A
PRE-GLAZED
EXPANSION
HORIZONTAL
1" OVER 1"

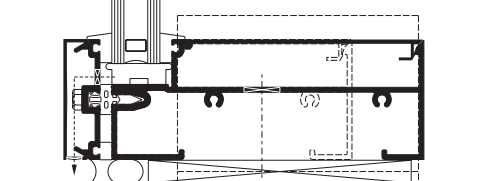
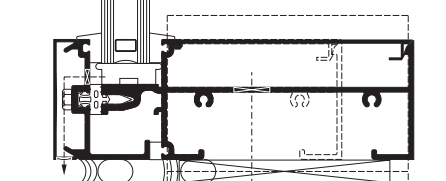


4
HORIZONTAL



5A
SILL

5
SILL



PERIMETER PRESSURE PLATE

PERIMETER MULLION

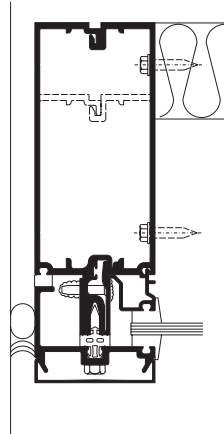
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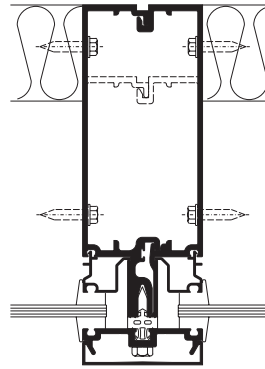
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SCALE 3" = 1'-0"

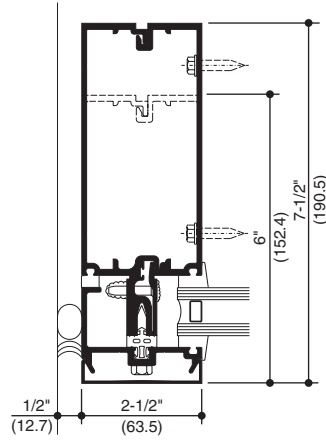
(RTS) - Reversed Thermal Separator



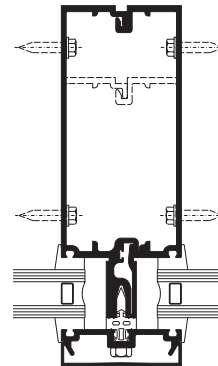
6
JAMB
(1/4" INFILL)



8
MULLION



7
JAMB
(1" INFILL)



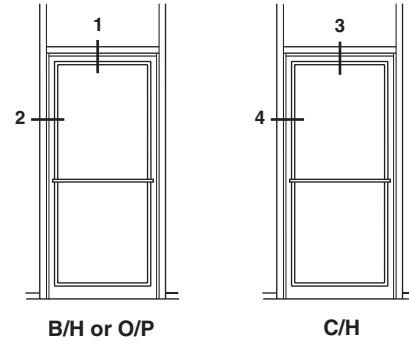
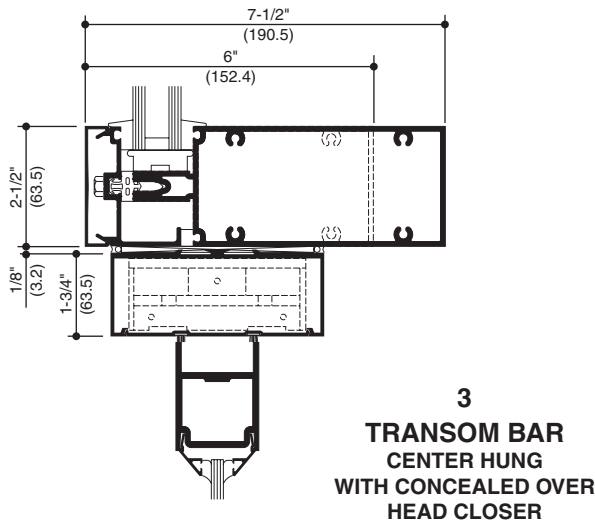
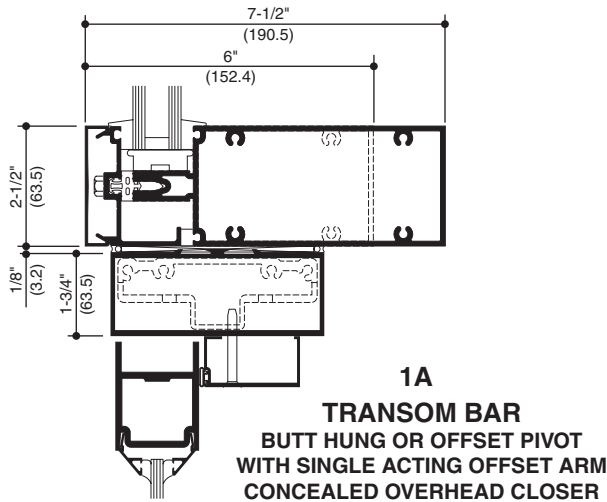
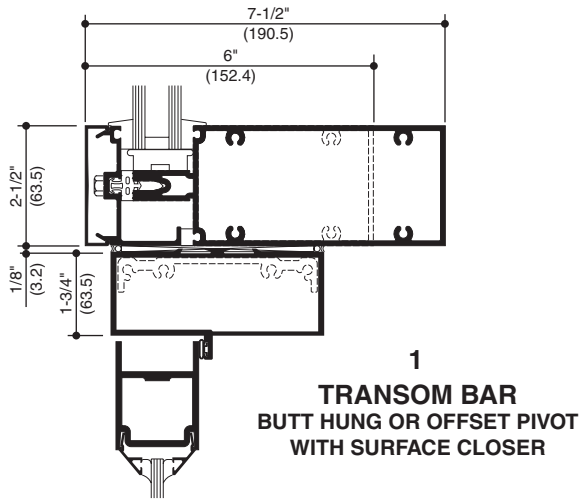
9
MULLION

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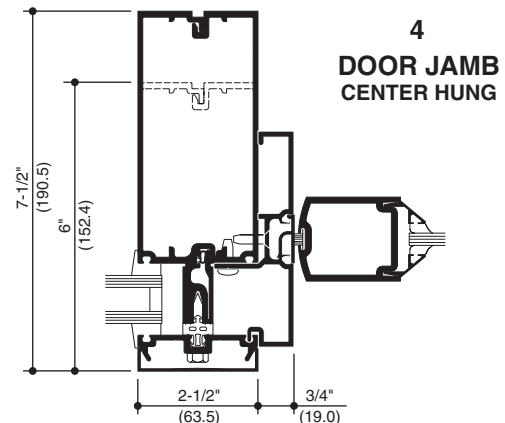
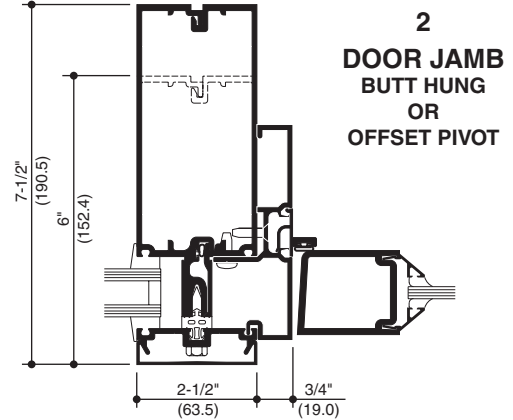
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SCALE 3" = 1'-0"

(RTS) - Reversed Thermal Separator



(RTS) ENTRANCE ELEVATION
ELEVATION IS NUMBER KEYED TO DETAILS

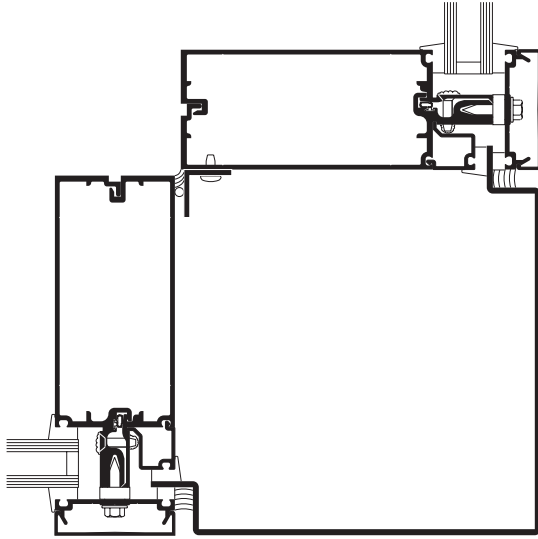


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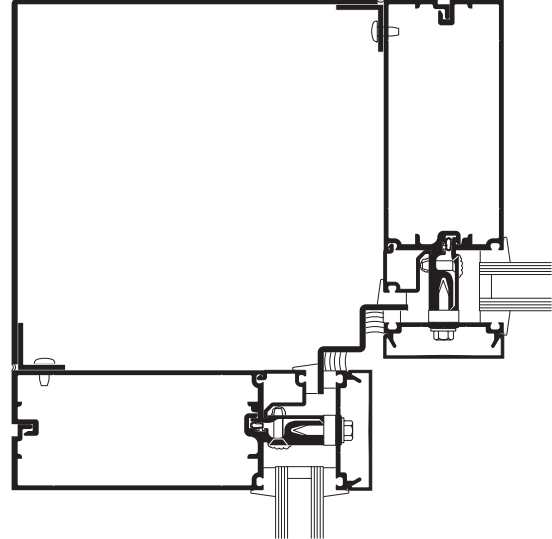
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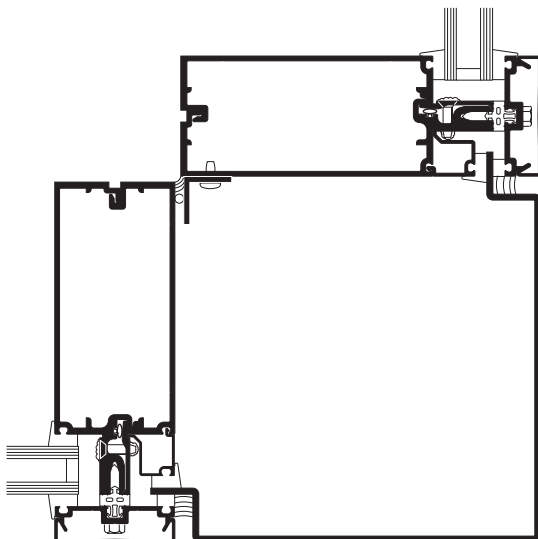
SCALE 3" = 1'-0"



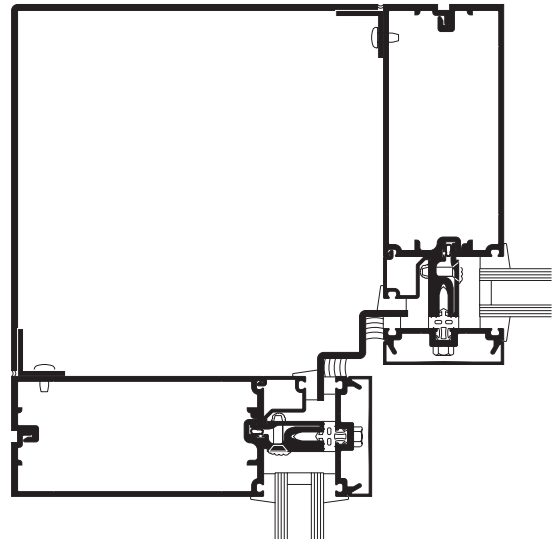
90° OUTSIDE CORNER



90° INSIDE CORNER



90° OUTSIDE CORNER (RTS)

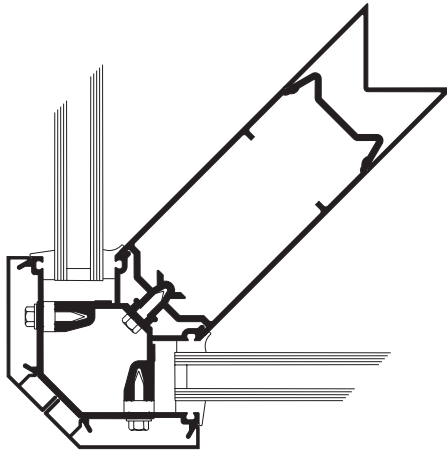


90° INSIDE CORNER (RTS)

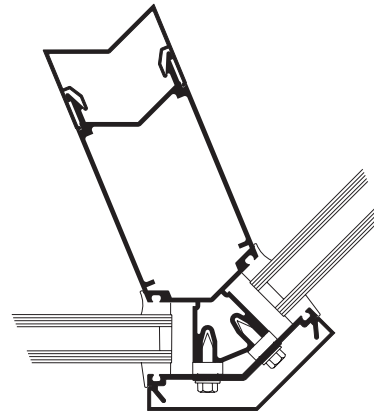
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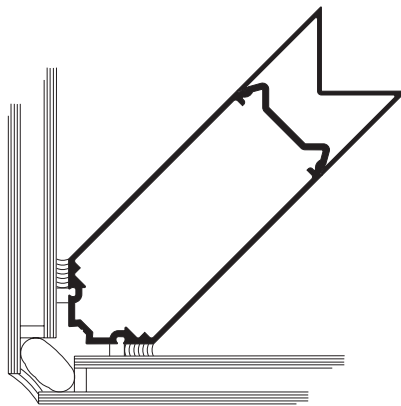
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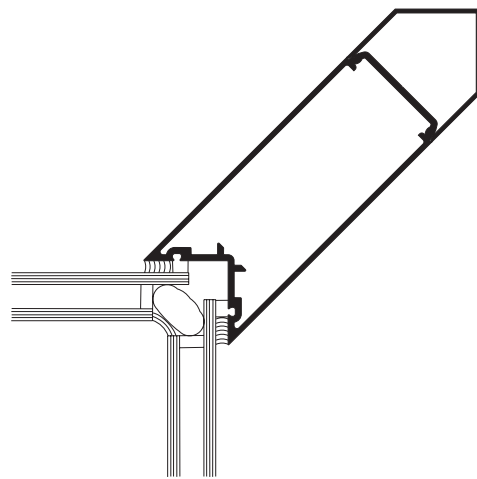
90° OUTSIDE CORNER



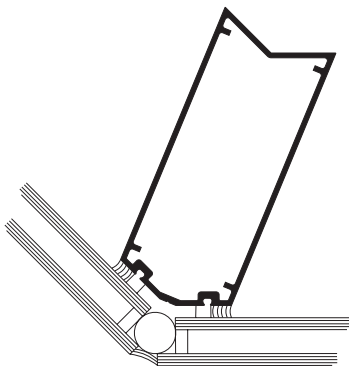
135° OUTSIDE CORNER



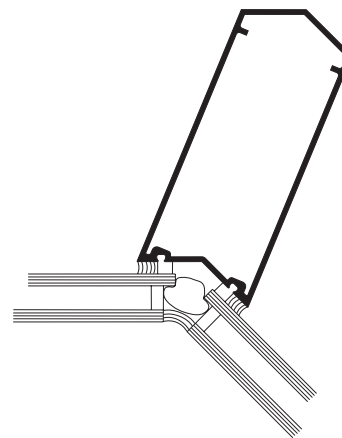
90° OUTSIDE SSG CORNER



90° INSIDE SSG CORNER



135° OUTSIDE SSG CORNER



135° INSIDE SSG CORNER

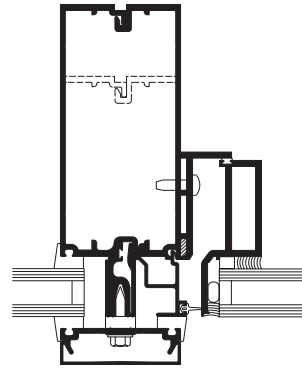
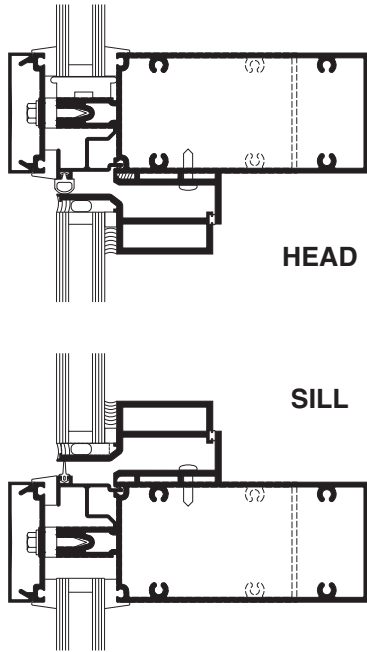
Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

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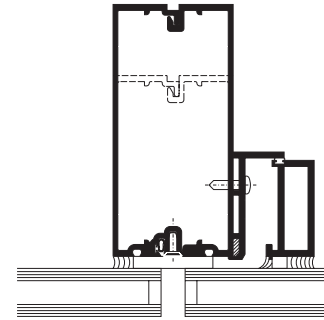
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SCALE 3" = 1'-0"

GLASSvent™ FOR CURTAIN WALL



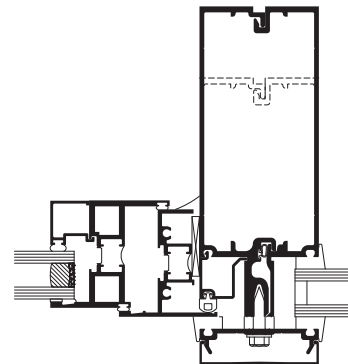
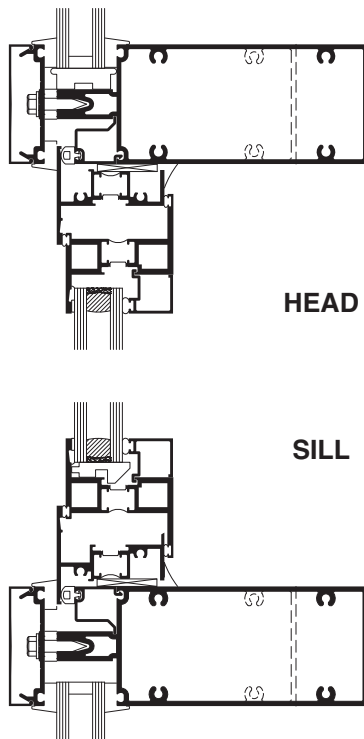
JAMB
AT CAPTURED MULLION



JAMB
AT SSG MULLION

8225TL IsoLock™ WINDOWS

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

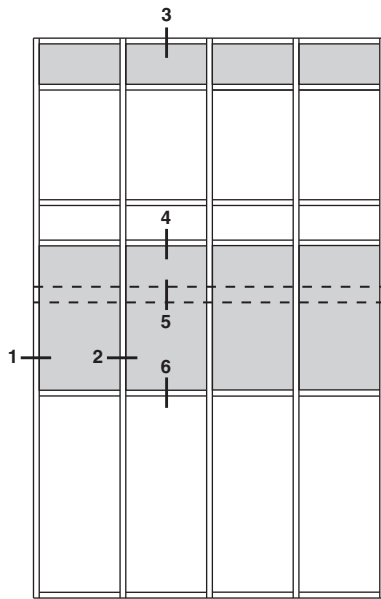


JAMB

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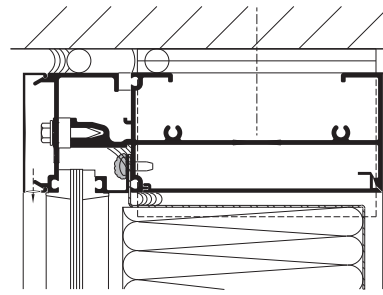
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SCALE 3" = 1'-0"

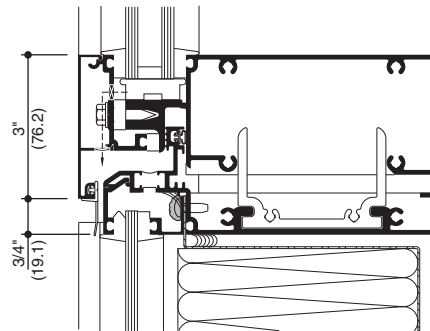


ELEVATION IS NUMBER KEYED TO DETAILS

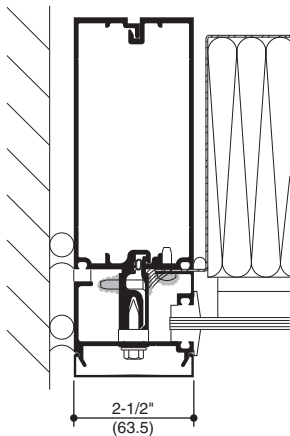
NOTE: 7-1/2" SYSTEM SHOWN, 6" SYSTEM SIMILAR



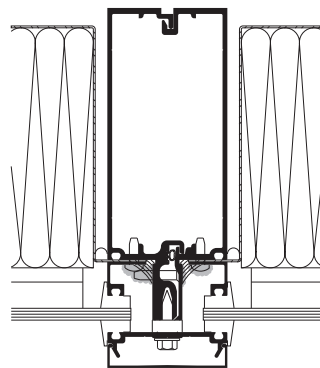
3
HEAD



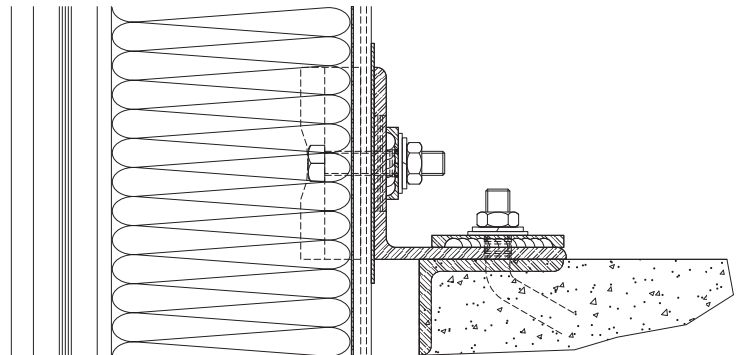
4
EXPANSION JOINT



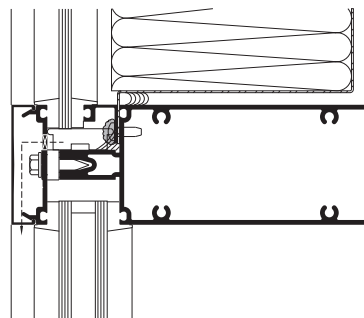
1
JAMB MULLION
AT SPANDREL



2
MULLION AT SPANDREL



5
TYPICAL DEADLOAD ANCHOR



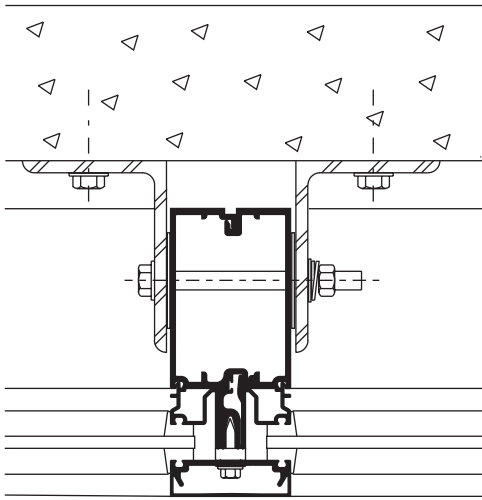
6
TRANSOM - SPANDREL OVER VISION

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

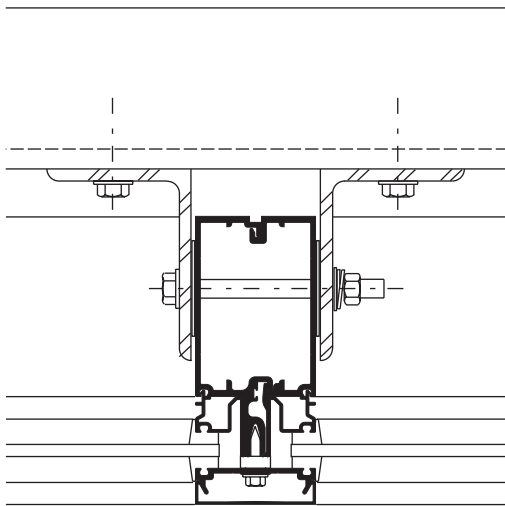
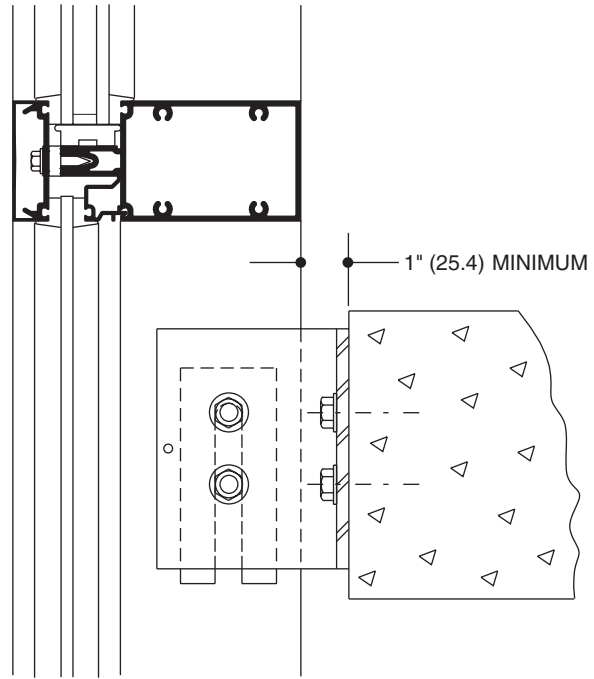
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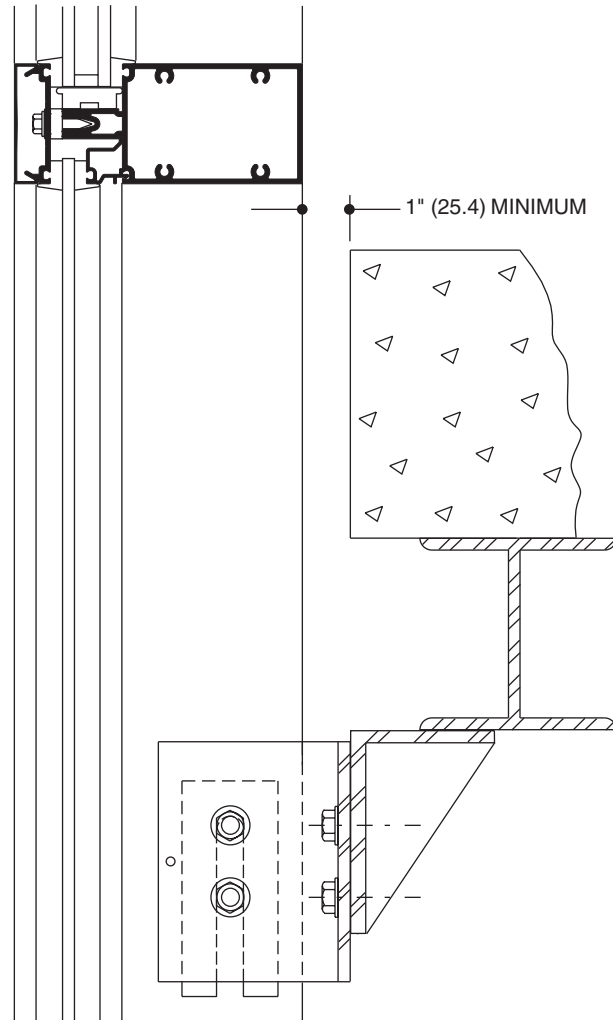
Actual project conditions will determine specific anchor design. Details on this page are for reference only.



ANCHORING TO FLOOR SLAB



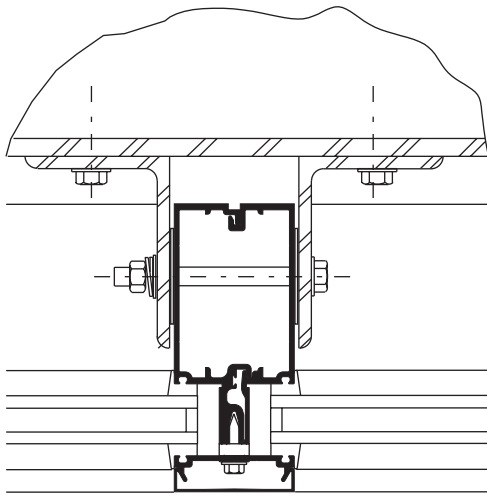
ANCHORING TO SUPPORT STEEL



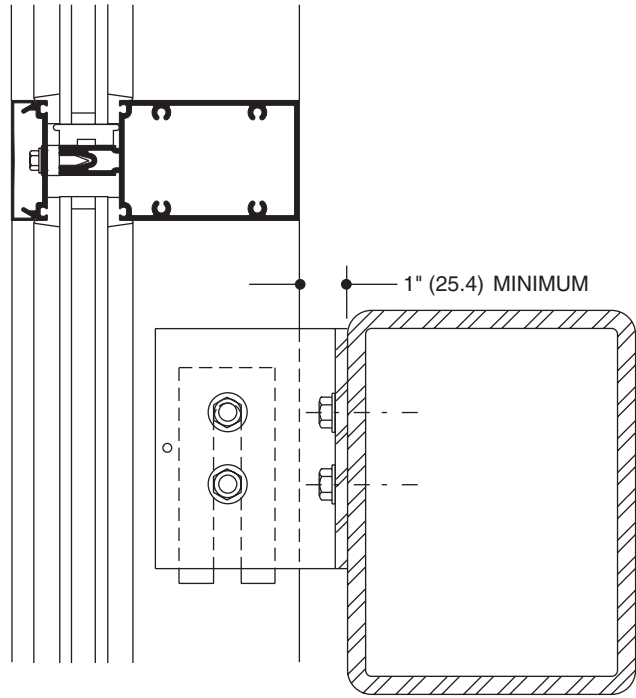
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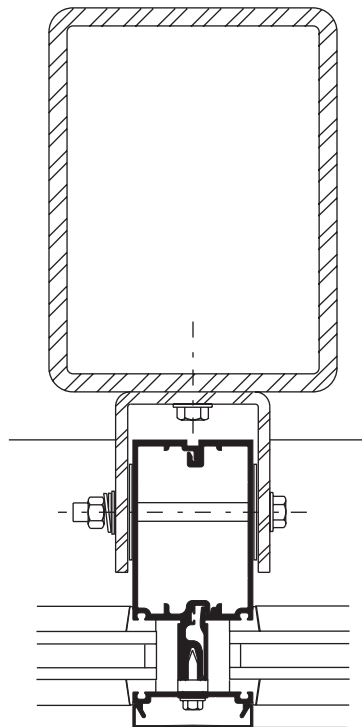
Actual project conditions will determine specific anchor design. Details on this page are for reference only.



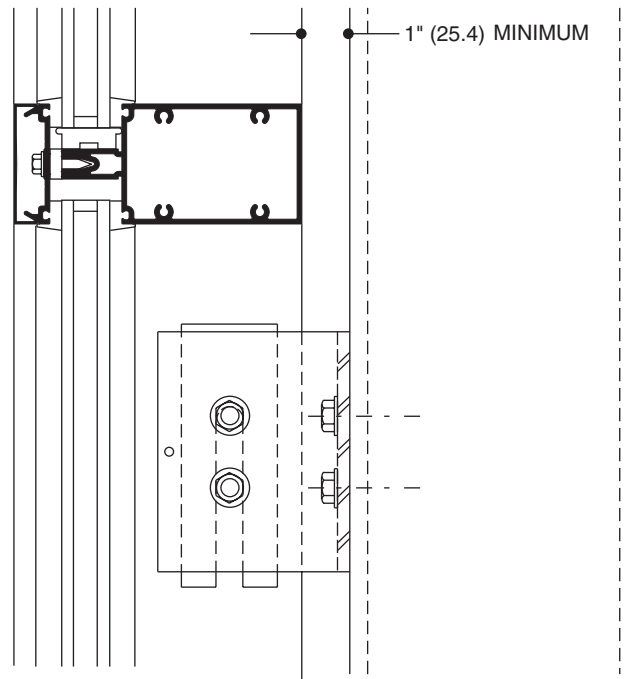
ANCHORING TO HORIZONTAL STRUCTURAL STEEL



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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 (104MPa), STEEL 30,000 psi (207MPa.). Charted curves, in all cases are for the limiting value. If the design wind load is determined through the analytical procedures of ASCE/SEI 7-10 or earlier editions, the load shall be based on the nominal loads used in allowable stress design. 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.

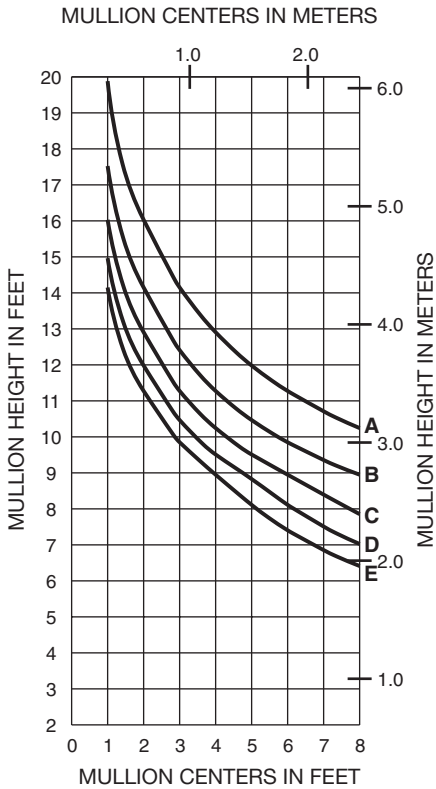
DEAD LOAD CHARTS

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) thick insulating glass or 1/4" (6) thick glass supported on two setting blocks placed at the loading points shown.

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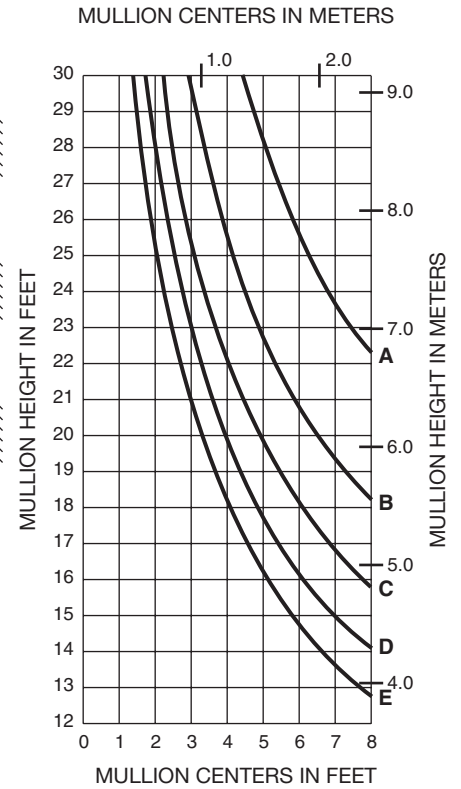
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SINGLE SPAN



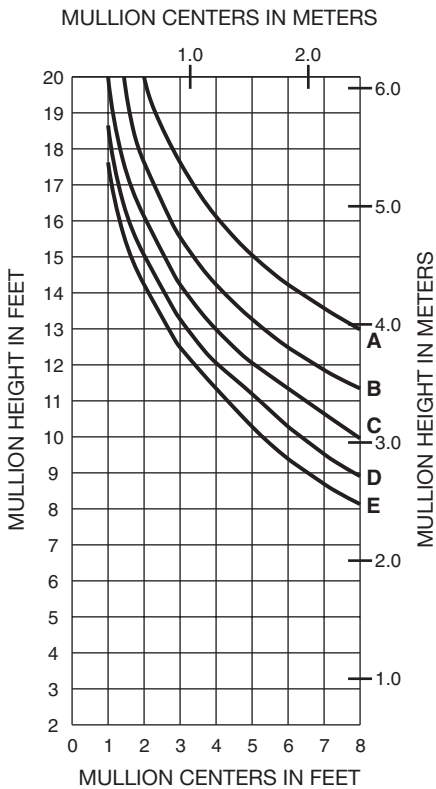
- A = 20 PSF (960)
- B = 30 PSF (1440)
- C = 40 PSF (1920)
- D = 50 PSF (2400)
- E = 60 PSF (2880)

TWIN SPAN



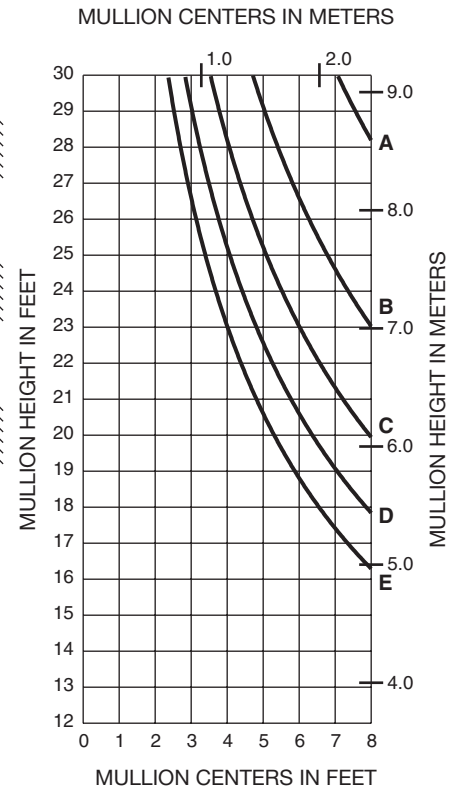
169001 169002
 $I = 5.652 (235.25 \times 10^4)$
 $S = 1.954 (32.02 \times 10^3)$

SINGLE SPAN



169003 169004
 $I = 11.512 (479.16 \times 10^4)$
 $S = 3.141 (51.47 \times 10^3)$

TWIN SPAN

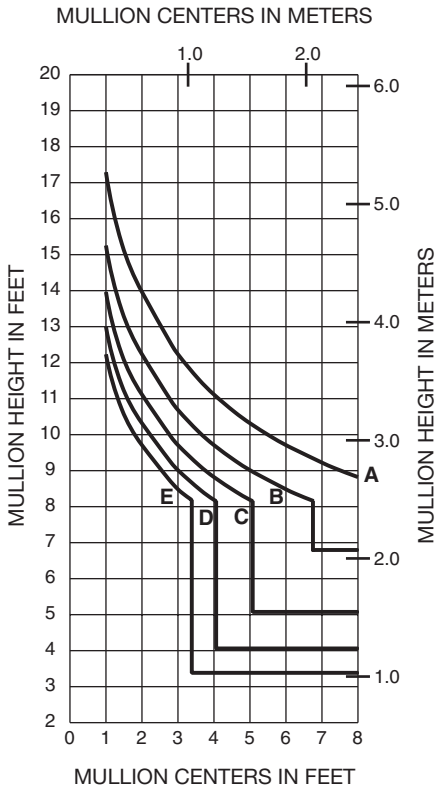


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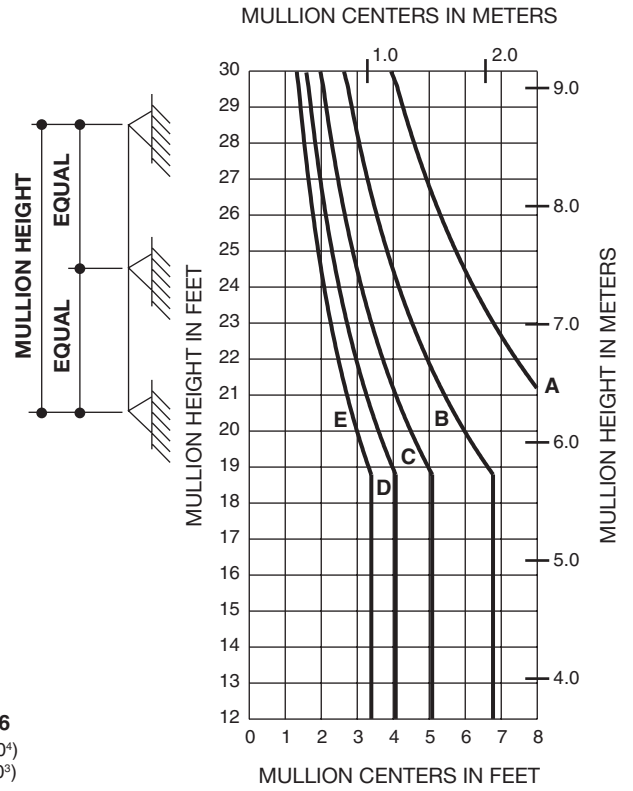
- A = 20 PSF (960)
- B = 30 PSF (1440)
- C = 40 PSF (1920)
- D = 50 PSF (2400)
- E = 60 PSF (2880)

SINGLE SPAN

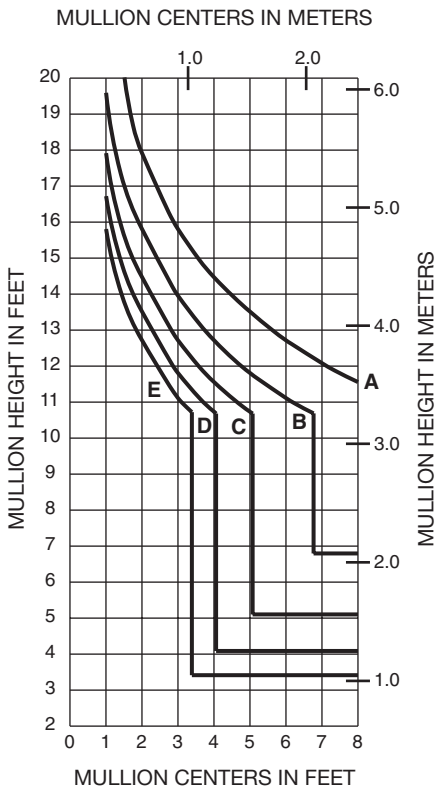


169005 169006
 $I = 3.609 (150.22 \times 10^4)$
 $S = 1.773 (29.05 \times 10^3)$

TWIN SPAN

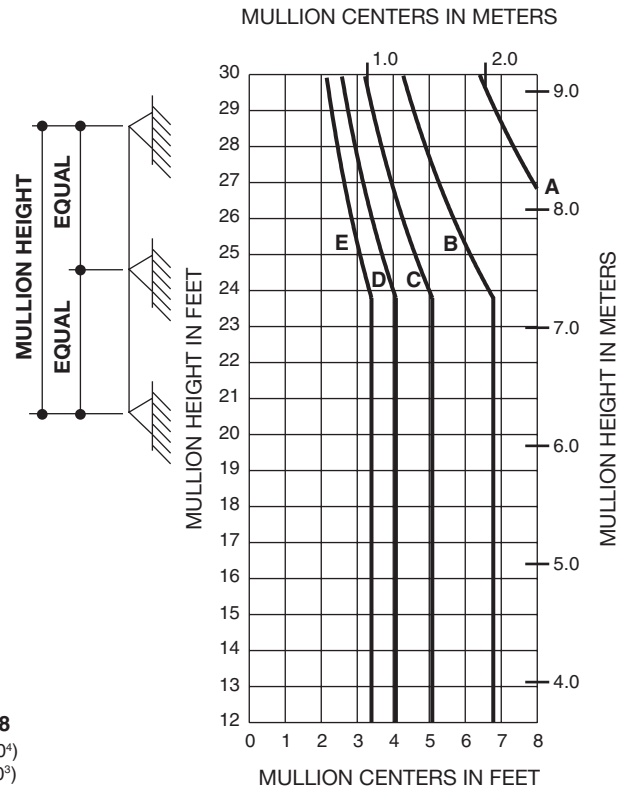


SINGLE SPAN



169007 169008
 $I = 8.065 (335.69 \times 10^4)$
 $S = 2.842 (46.57 \times 10^3)$

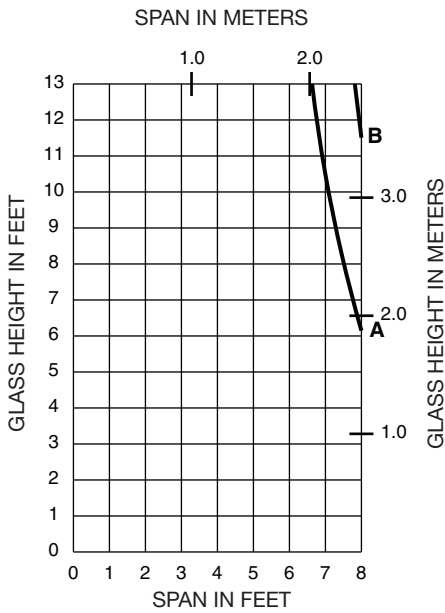
TWIN SPAN



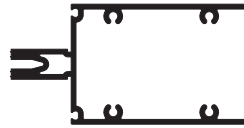
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(1/4" INFILL)



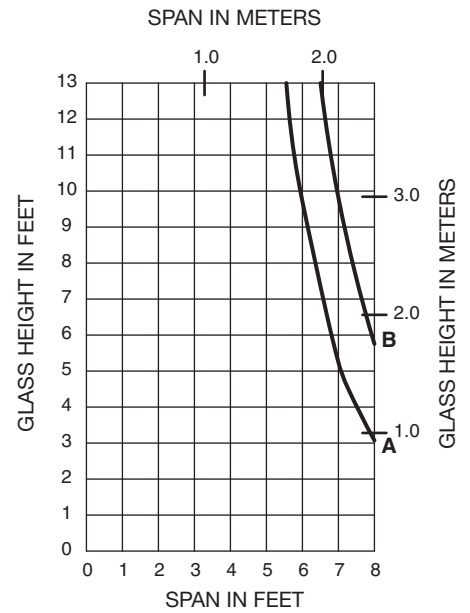
A = 1/4 POINT LOADING
B = 1/8 POINT LOADING



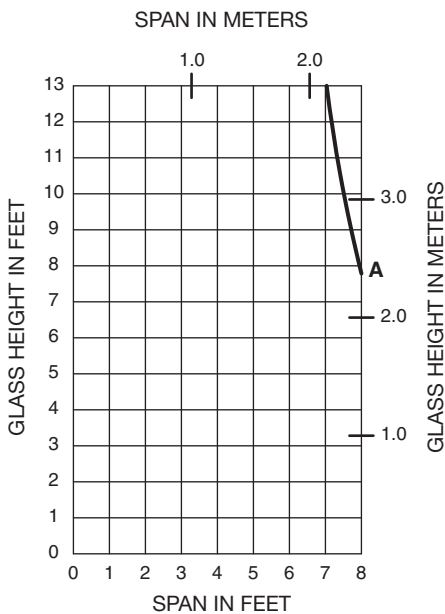
169014

$I = 1.620 (67.43 \times 10^4)$
 $S = 1.296 (21.24 \times 10^3)$

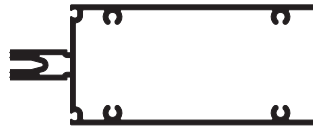
(1" INFILL)



(1/4" INFILL)



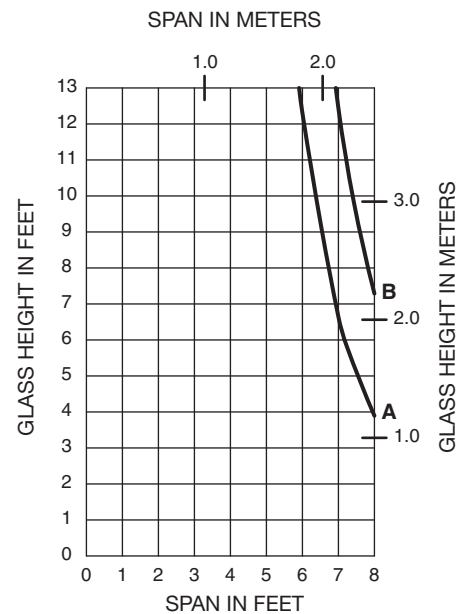
A = 1/4 POINT LOADING
B = 1/8 POINT LOADING



169017

$I = 2.052 (85.41 \times 10^4)$
 $S = 1.642 (26.91 \times 10^3)$

(1" INFILL)

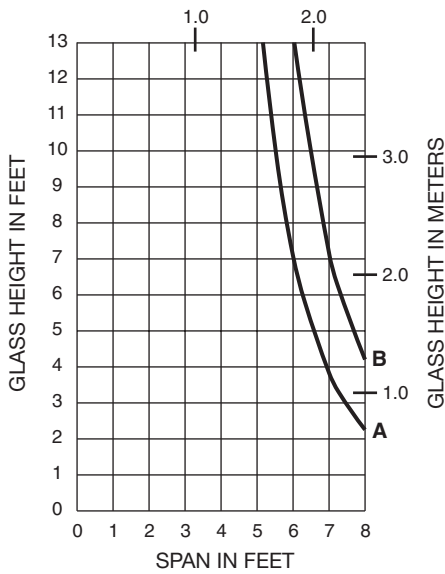


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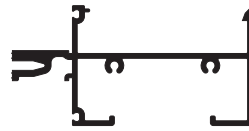
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(1/4" INFILL)

SPAN IN METERS



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

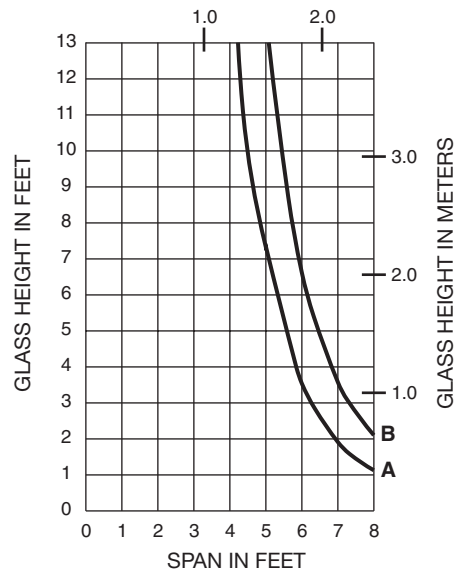


169016

I = 0.589 (24.52 x 10⁴)
S = 0.456 (7.47 x 10³)

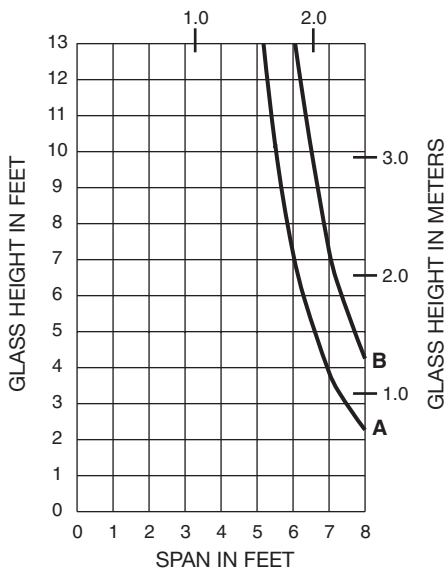
(1" INFILL)

SPAN IN METERS



(1/4" INFILL)

SPAN IN METERS



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

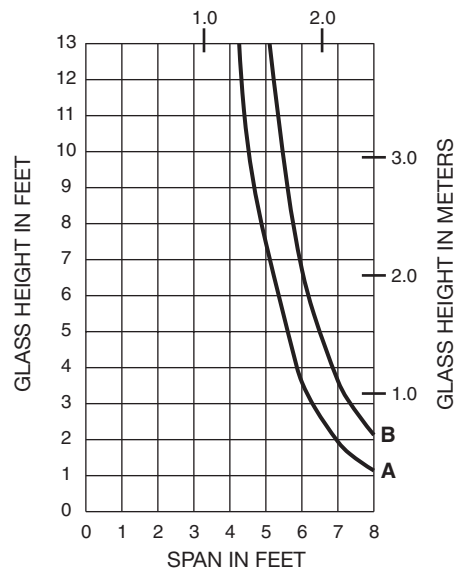


169019

I = 0.598 (24.89 x 10⁴)
S = 0.470 (7.70 x 10³)

(1" INFILL)

SPAN IN METERS

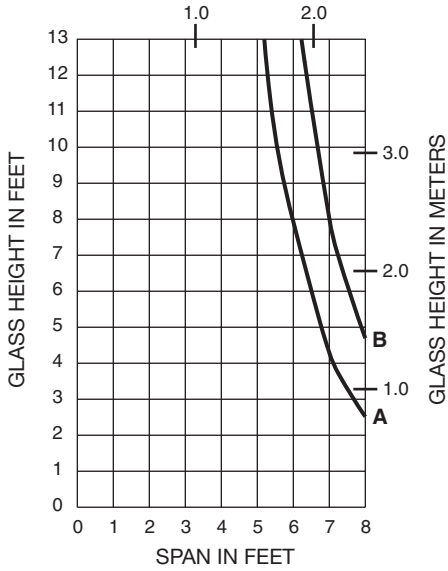


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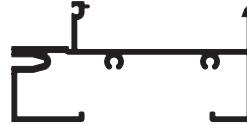
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(1/4" INFILL)

SPAN IN METERS



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

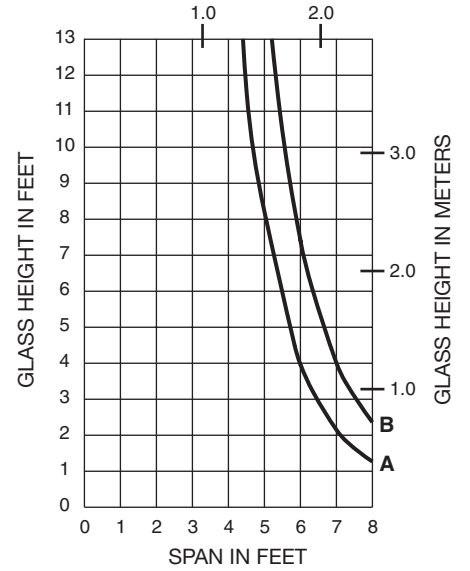


169015

$I = 0.659 (27.43 \times 10^4)$
 $S = 0.496 (8.13 \times 10^3)$

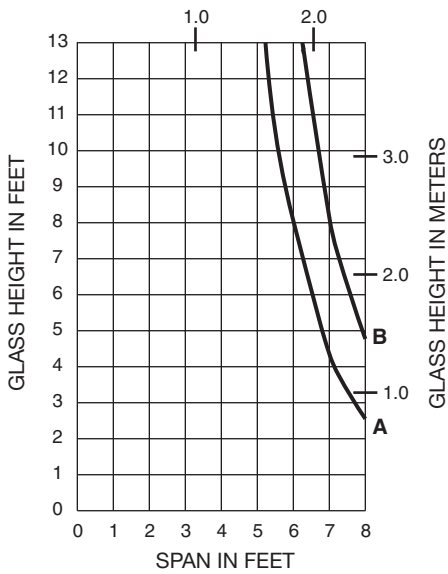
(1" INFILL)

SPAN IN METERS



(1/4" INFILL)

SPAN IN METERS



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

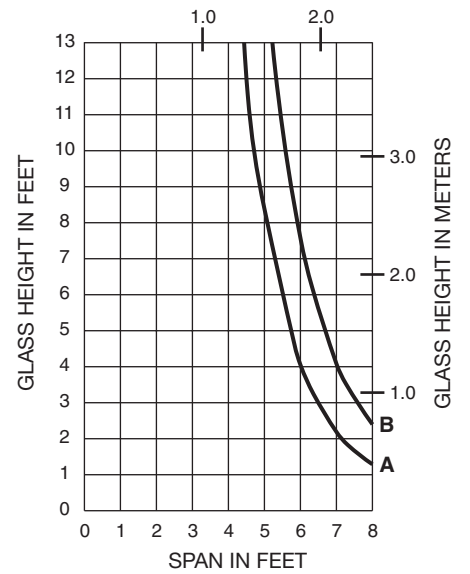


169018

$I = 0.671 (27.93 \times 10^4)$
 $S = 0.514 (8.42 \times 10^3)$

(1" INFILL)

SPAN IN METERS

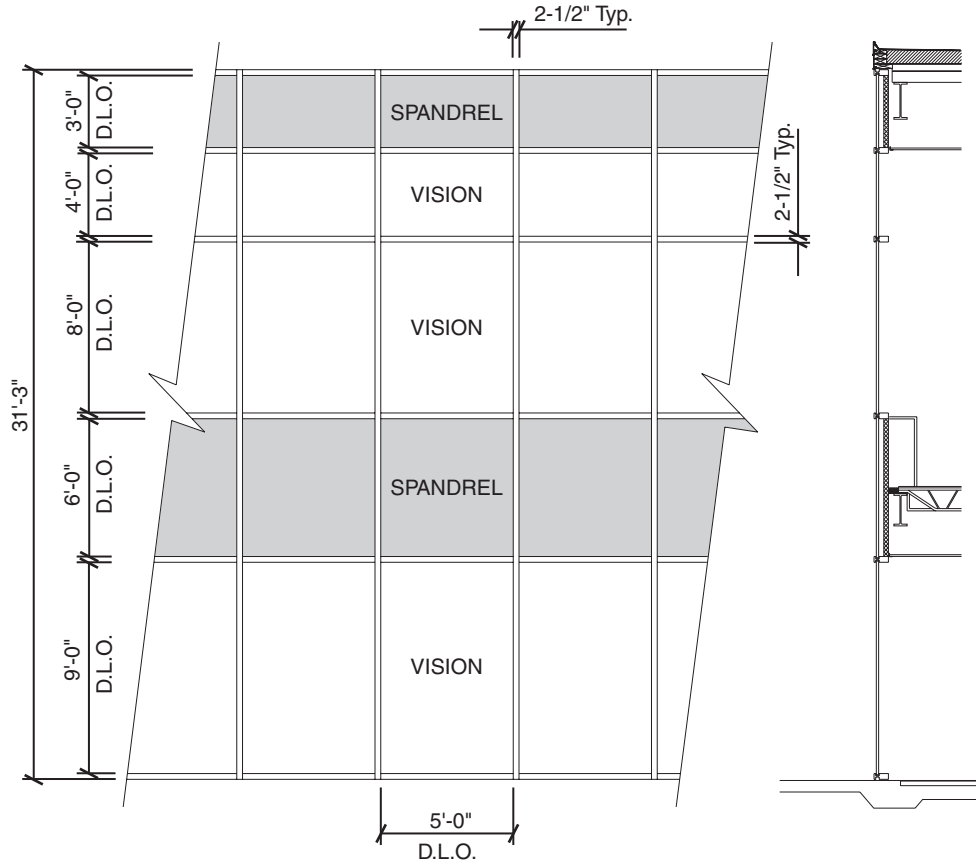


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**Project Specific U-factor
Example Calculation**
(Based on single bay of Curtain Wall/Window Wall)



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%

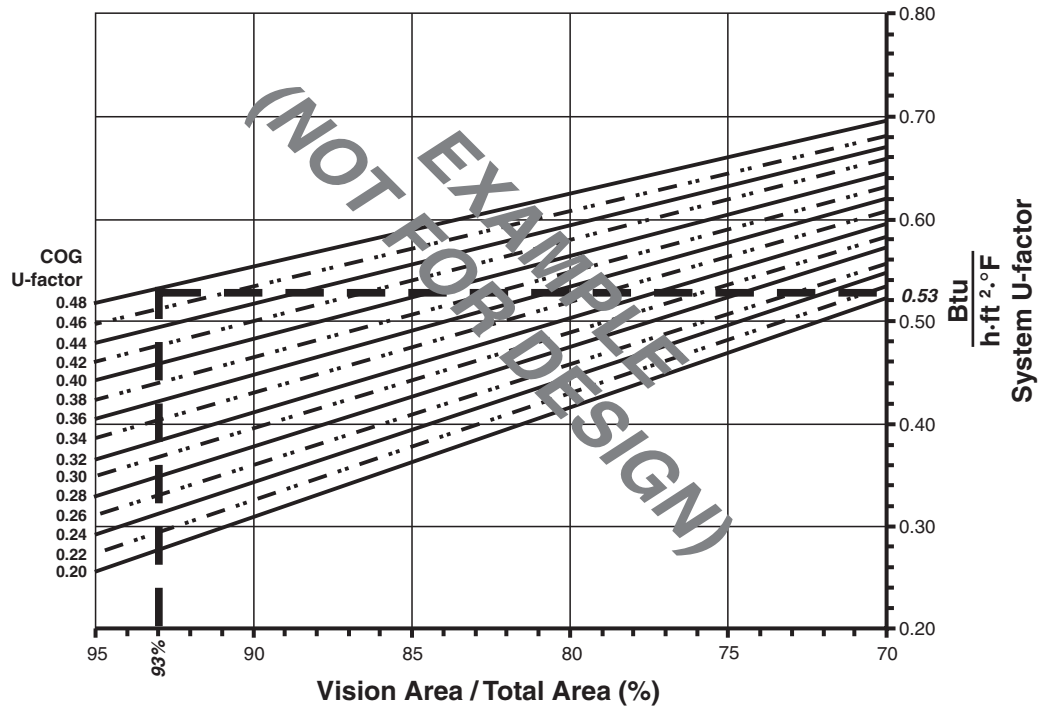
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Vision Area Chart

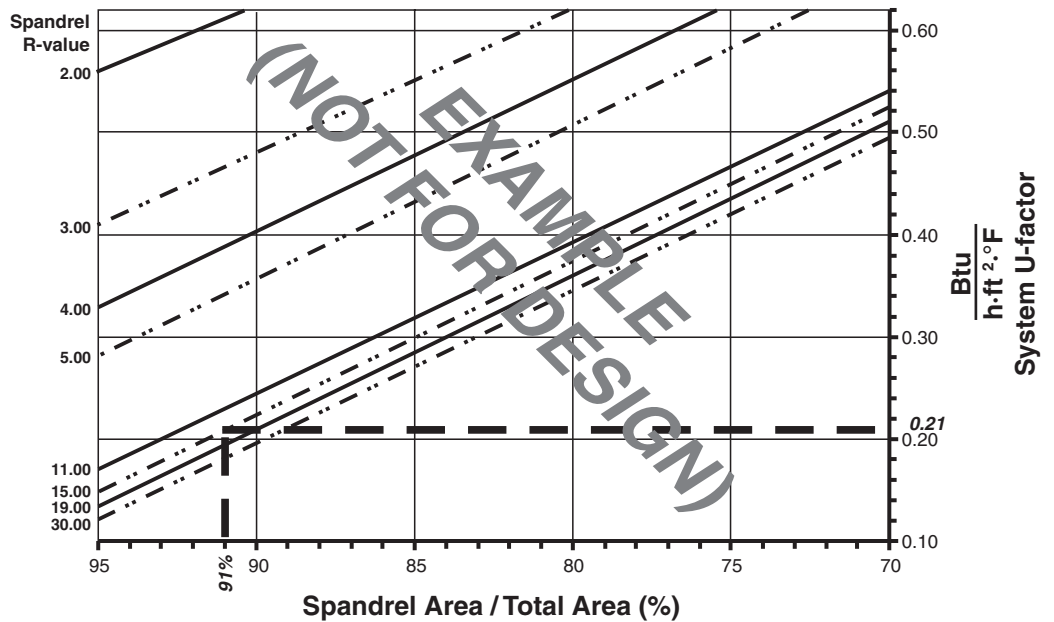
System U-factor vs Percent of Vision Area



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



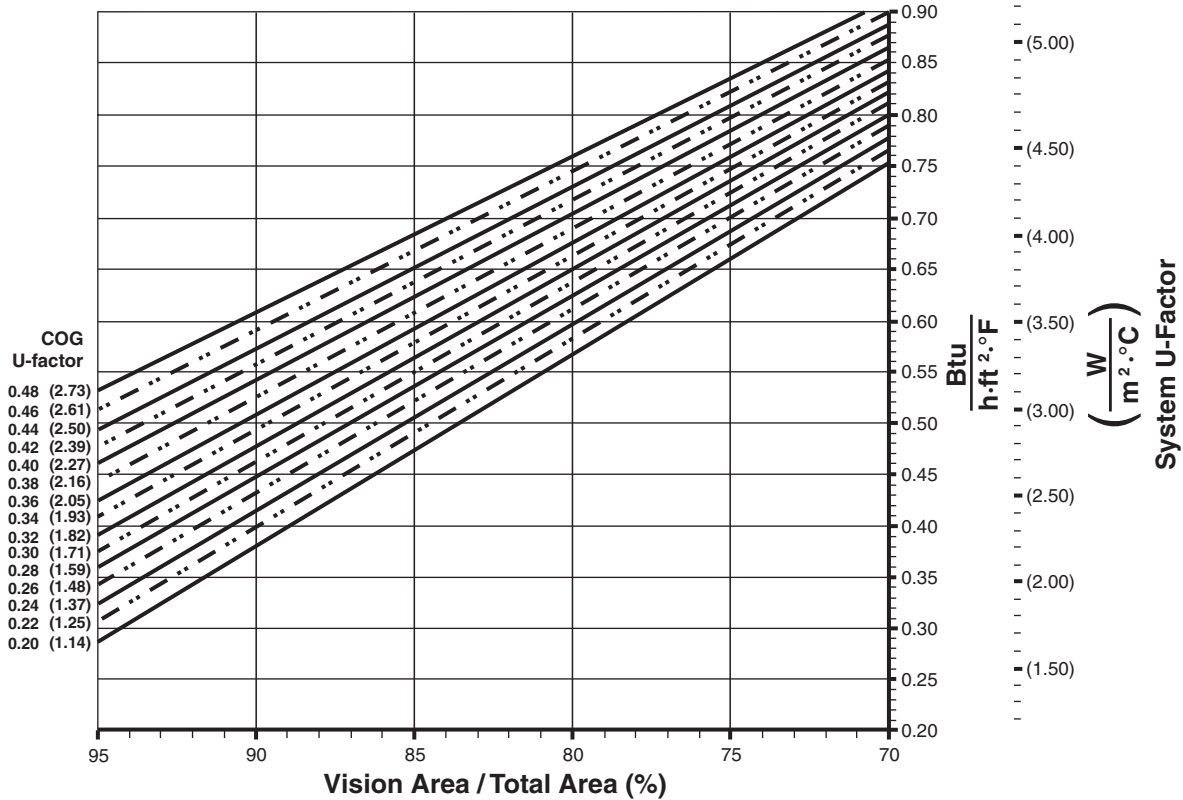
Based on a single curtain wall bay of 91% spandrel and center of spandrel R-value of 15, system U-factor is equal to 0.21 Btu/(h·ft²·°F)

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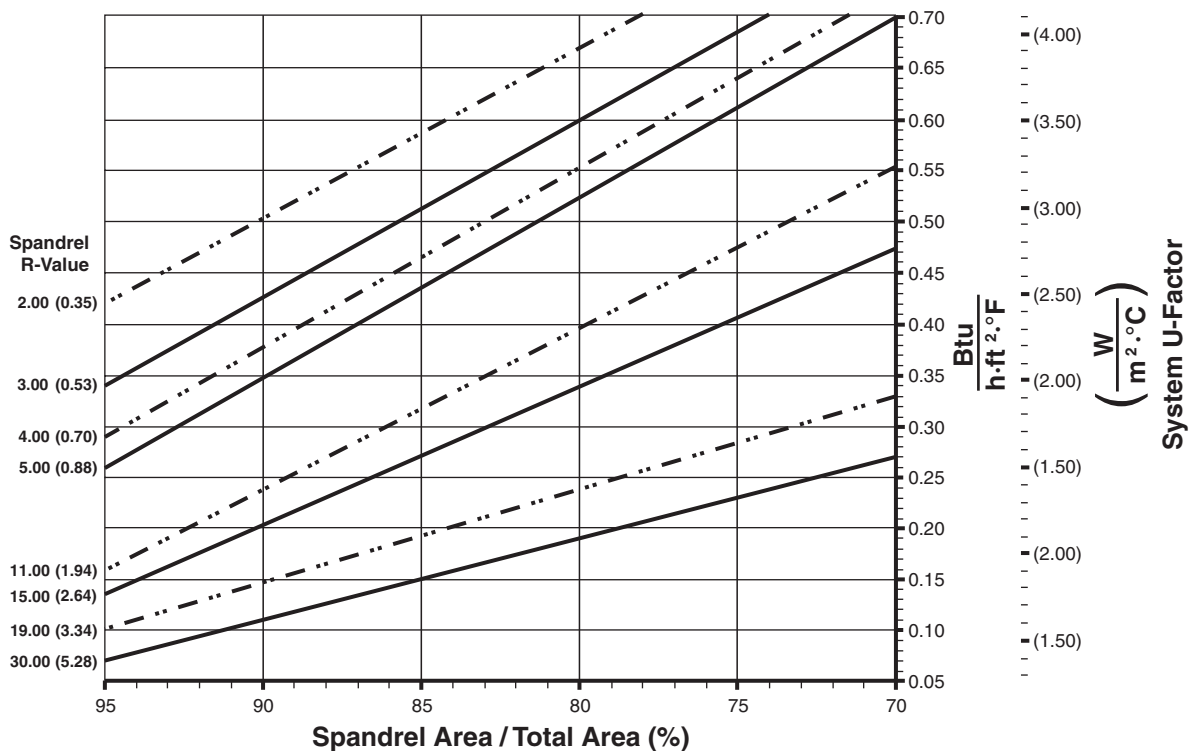
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Note:
 Values in parentheses are metric.
 COG=Center of Glass.
 Charts are generated per AAMA 507.

System U-Factor for Vision Glass

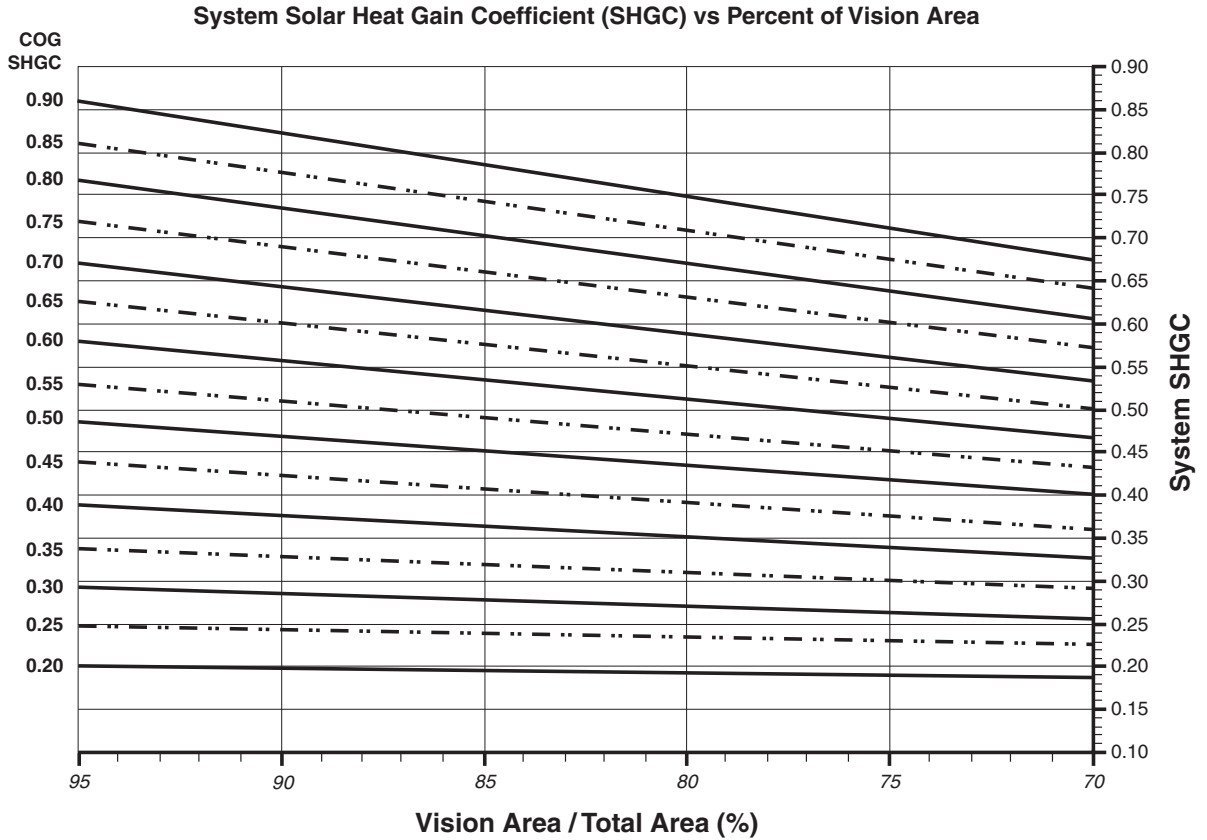


System U-Factors for Spandrel Glass

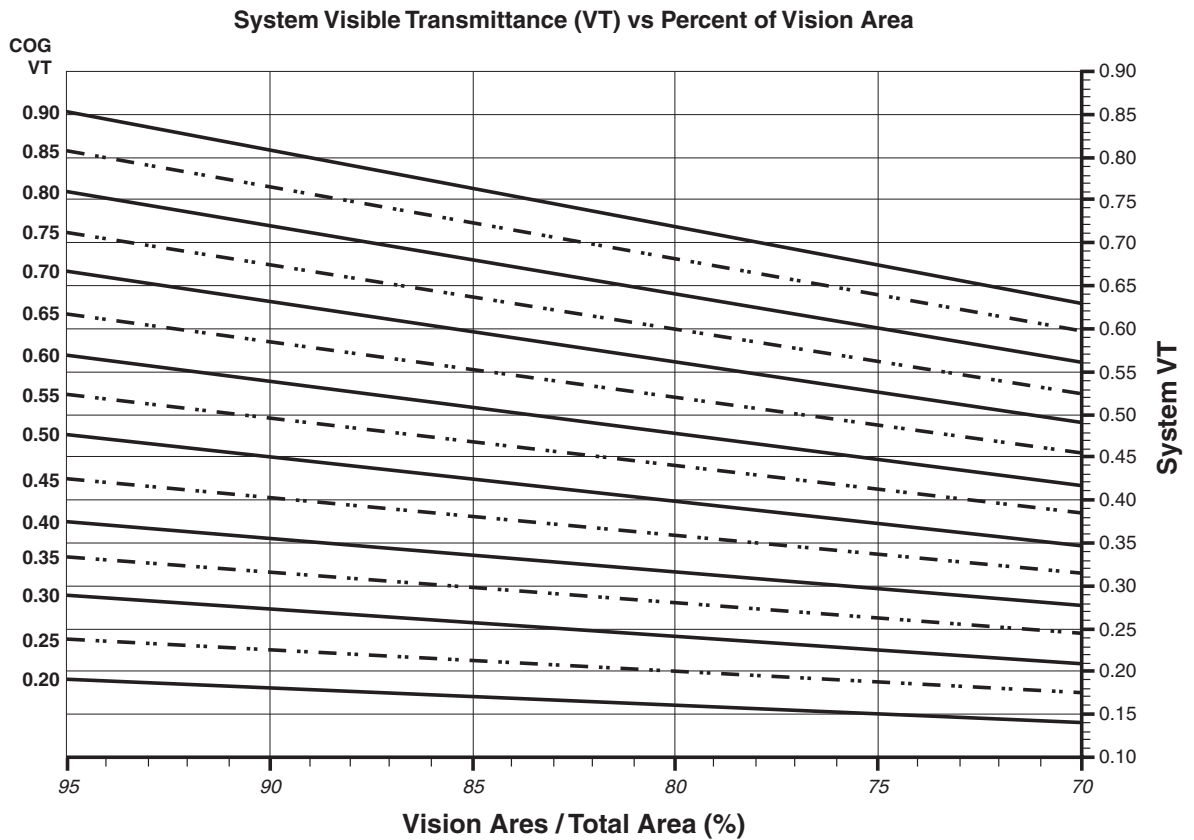


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Charts are generated per AAMA 507.



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Thermal Transmittance¹ (BTU/hr • ft² • °F)

Glass U-Factor ³	Overall U-Factor ⁴
0.48	0.62
0.46	0.60
0.44	0.59
0.42	0.57
0.40	0.55
0.38	0.54
0.36	0.52
0.34	0.50
0.32	0.49
0.30	0.47
0.28	0.46
0.26	0.44
0.24	0.42
0.22	0.41
0.20	0.39

SHGC Matrix²

Glass SHGC ³	Overall SHGC ⁴
0.90	0.82
0.85	0.78
0.80	0.73
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	0.29
0.25	0.24
0.20	0.20

Visible Transmittance²

Glass VT ³	Overall VT ⁴
0.90	0.81
0.85	0.76
0.80	0.72
0.75	0.67
0.70	0.63
0.65	0.58
0.60	0.54
0.55	0.49
0.50	0.45
0.45	0.40
0.40	0.36
0.35	0.31
0.30	0.27
0.25	0.22
0.20	0.18

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

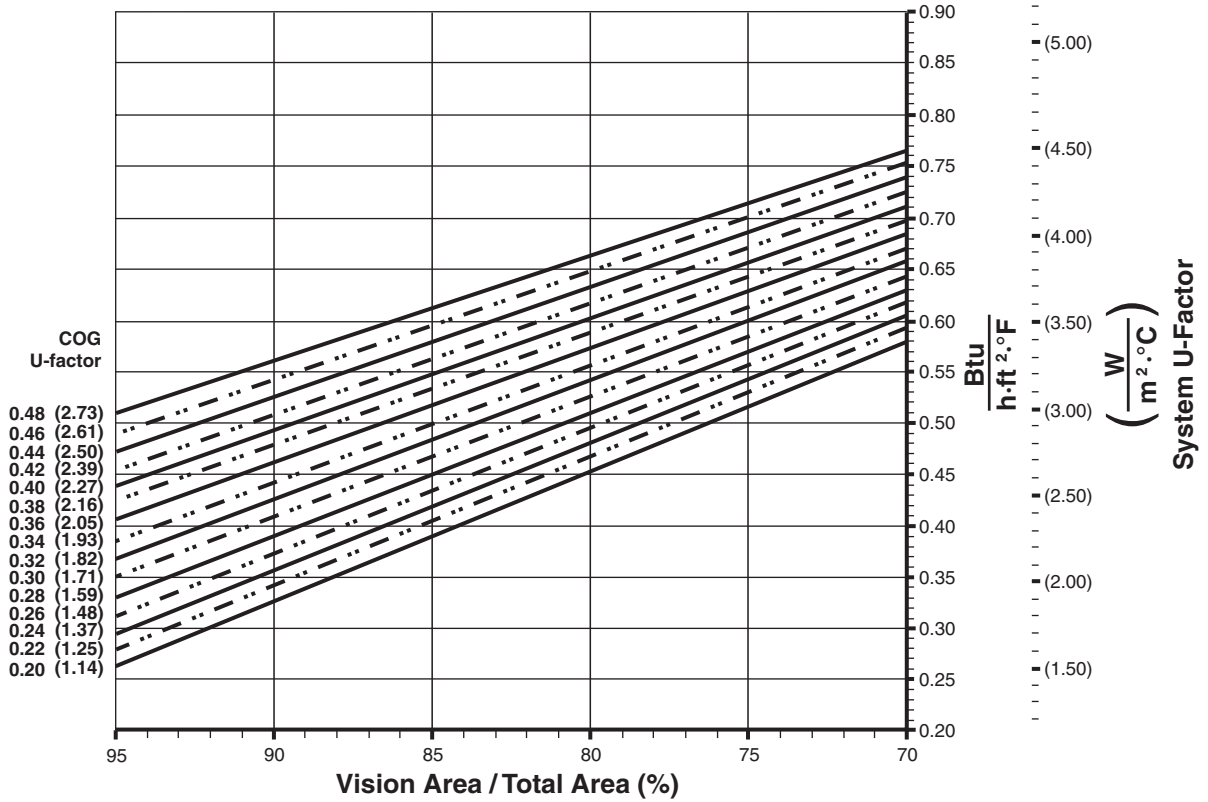
1. U-Factors are determined in accordance with NFRC 100.
2. SHGC and VT values are determined in accordance with NFRC 200.
3. Glass properties are based on center of glass values and are obtained from your glass supplier.
4. Overall U-Factor, SHGC, and VT Matrices are based on the standard NFRC specimen size of 2000mm wide by 2000mm high (78-3/4" by 78-3/4").

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

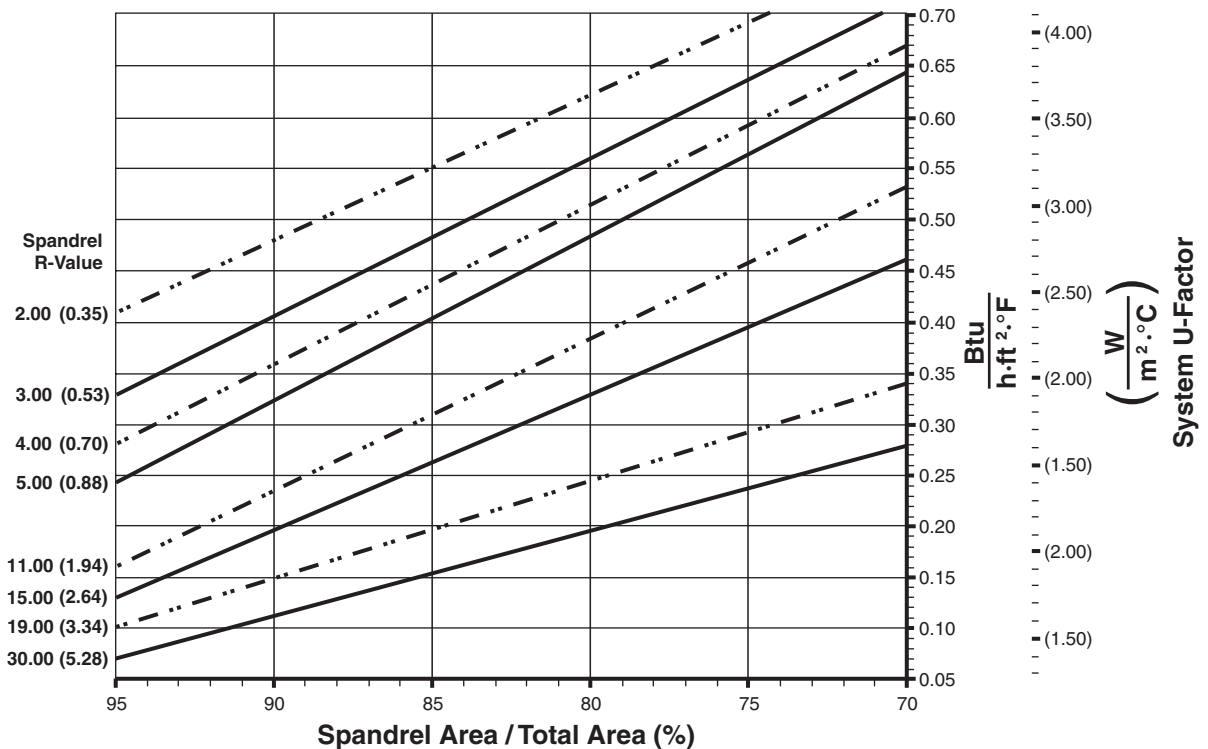
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Note:
 Values in parentheses are metric.
 COG=Center of Glass.
 Charts are generated per AAMA 507.

System U-Factor for Vision Glass

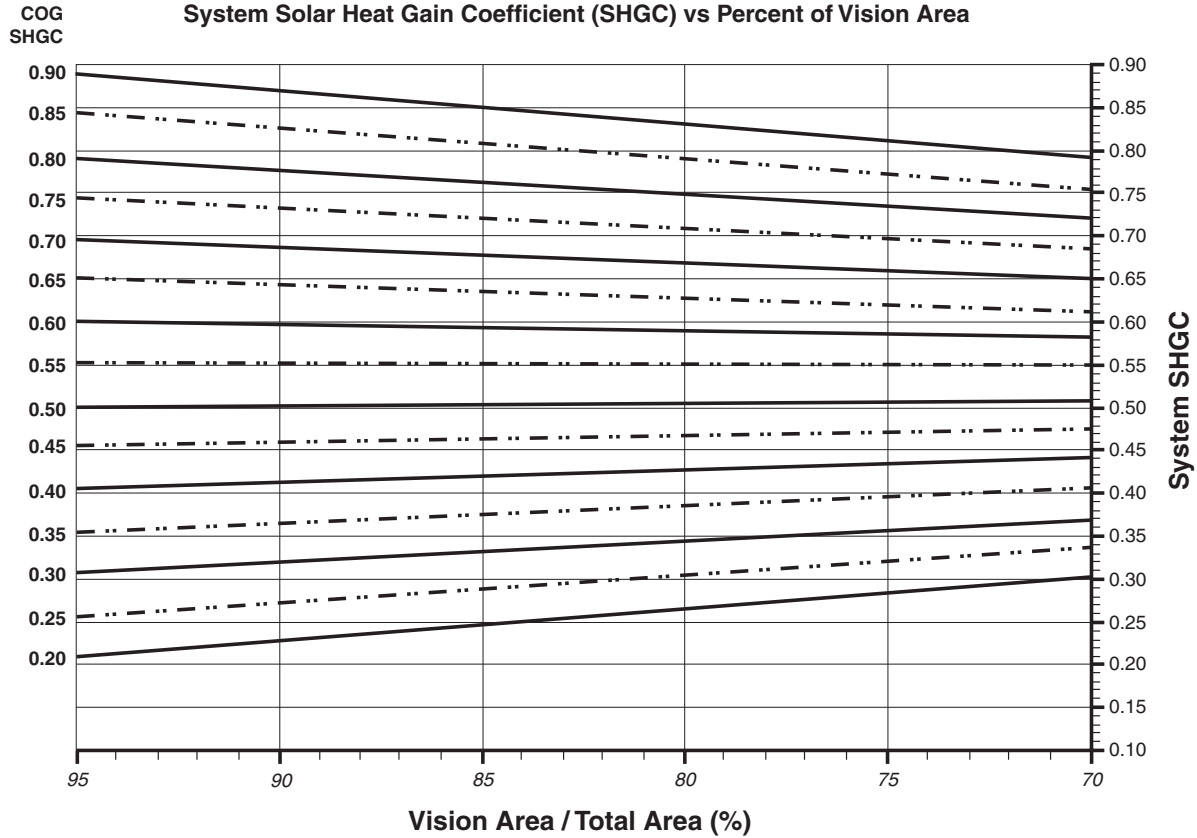


System U-Factors for Spandrel Glass

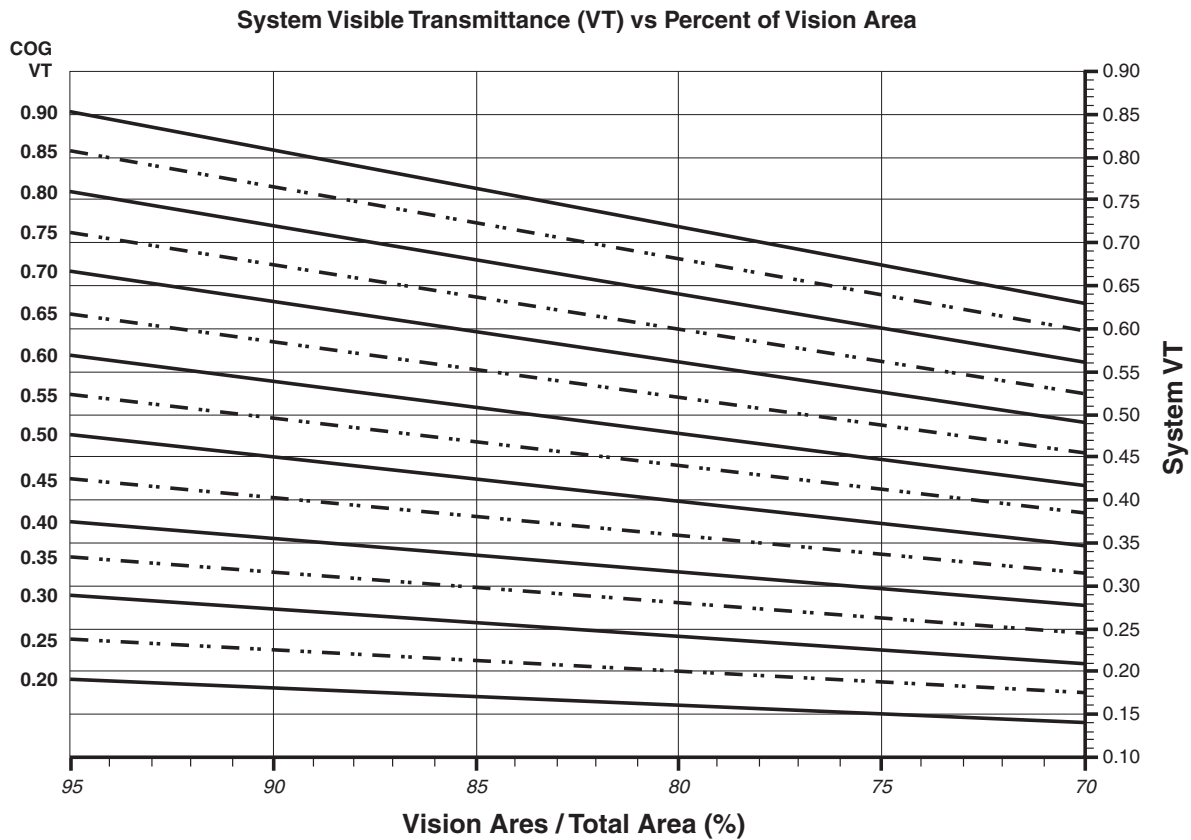


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Charts are generated per AAMA 507.



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

Glass U-Factor ³	Overall U-Factor ⁴
0.48	0.56
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

SHGC Matrix ²

Glass SHGC ³	Overall SHGC ⁴
0.90	0.87
0.85	0.82
0.80	0.77
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

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

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

1. U-Factors are determined in accordance with NFRC 100.
2. SHGC and VT values are determined in accordance with NFRC 200.
3. Glass properties are based on center of glass values and are obtained from your glass supplier.
4. Overall U-Factor, SHGC, and VT Matrices are based on the standard NFRC specimen size of 2000mm wide by 2000mm high (78-3/4" by 78-3/4").

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