

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 Unitwall™, 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 7 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®
- Captured system Integrates with standard Kawneer windows
- Deep and bullnose covers available
- 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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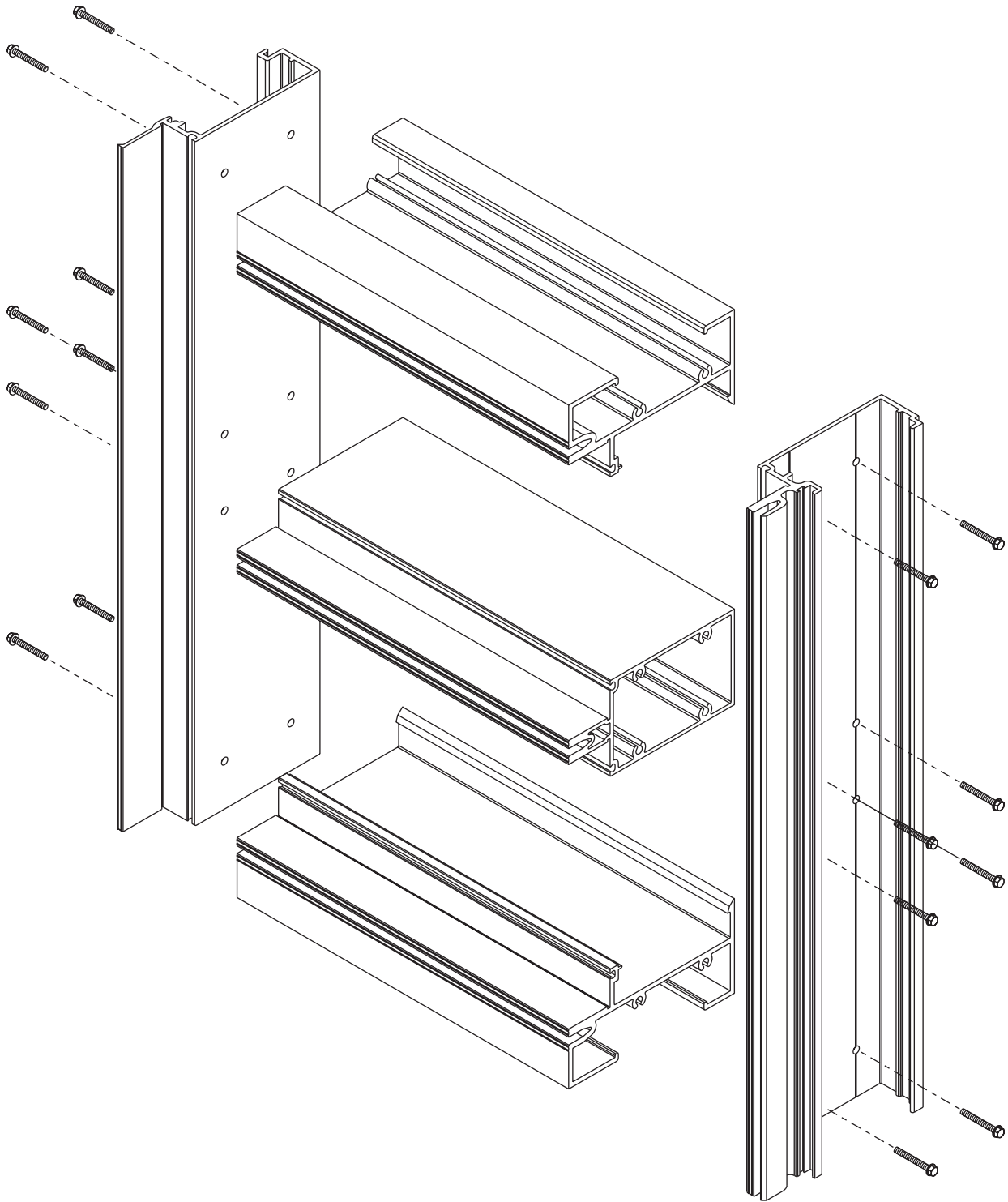
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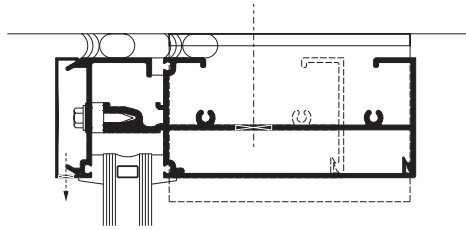
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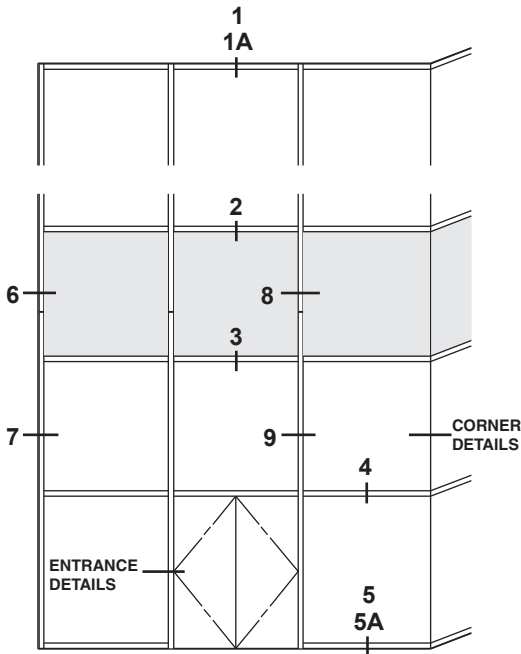
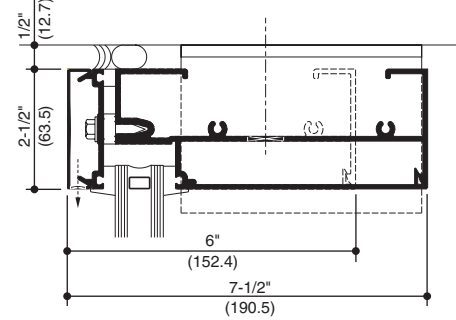
PERIMETER PRESSURE PLATE

1A HEAD



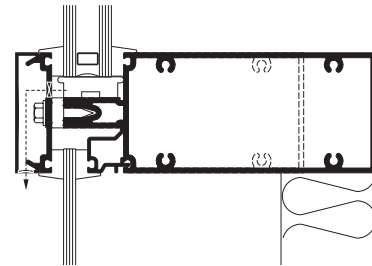
PERIMETER MULLION

1 HEAD

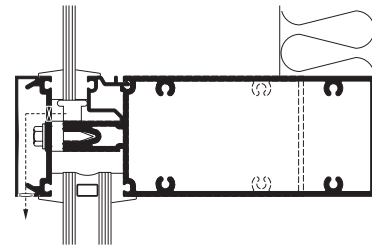


CAPTURED MULLION ELEVATION
ELEVATION IS NUMBER KEYED TO DETAILS

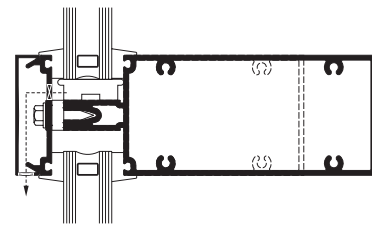
2 HORIZONTAL



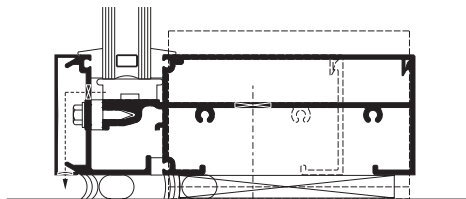
3 HORIZONTAL



4 HORIZONTAL

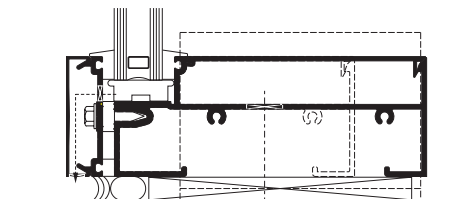


5A SILL



PERIMETER PRESSURE PLATE

5 SILL



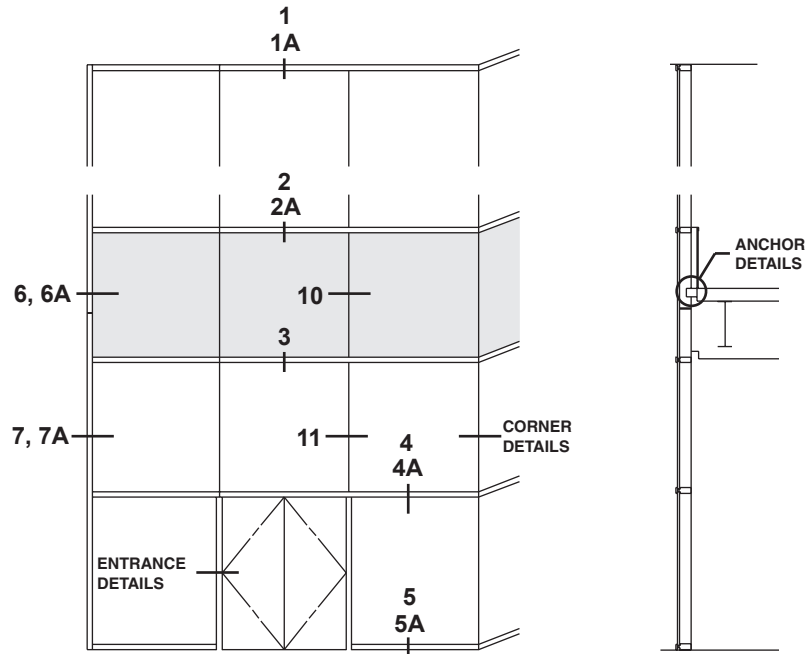
PERIMETER MULLION

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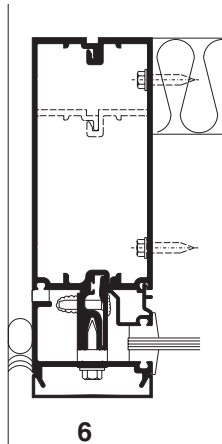
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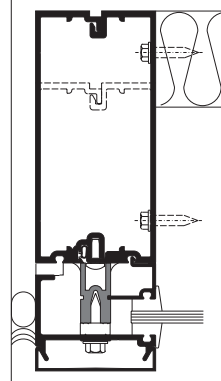


SSG MULLION ELEVATION

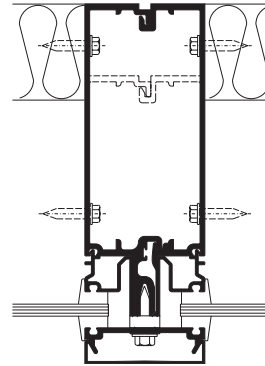
ELEVATION IS NUMBER KEYED TO DETAILS



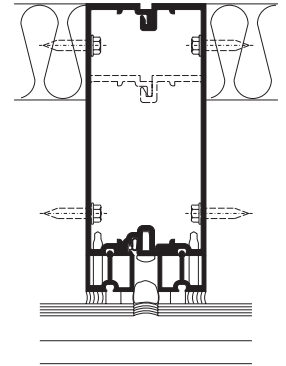
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JAMB
(1/4" INFILL)



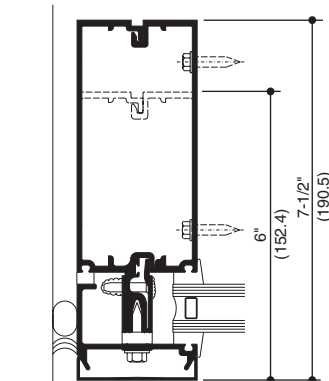
6A
SSG MULLION
AT JAMB (1/4")



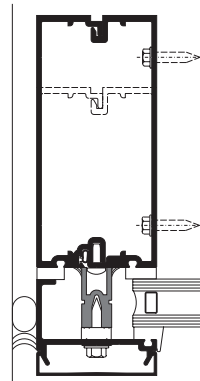
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CAPTURED
MULLION (1/4")



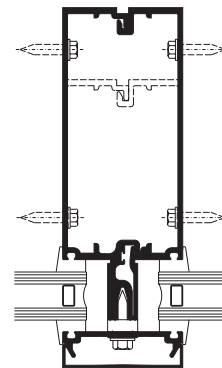
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SSG MULLION
(1/4" INFILL)



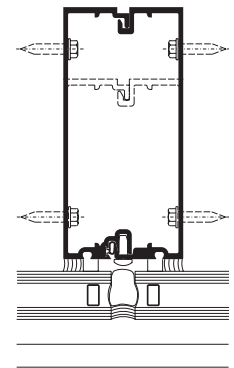
7
JAMB
(1" INFILL)



7A
SSG MULLION
AT JAMB (1")



9
CAPTURED
MULLION (1")



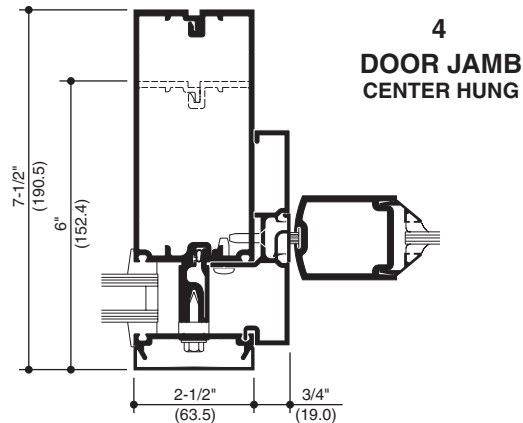
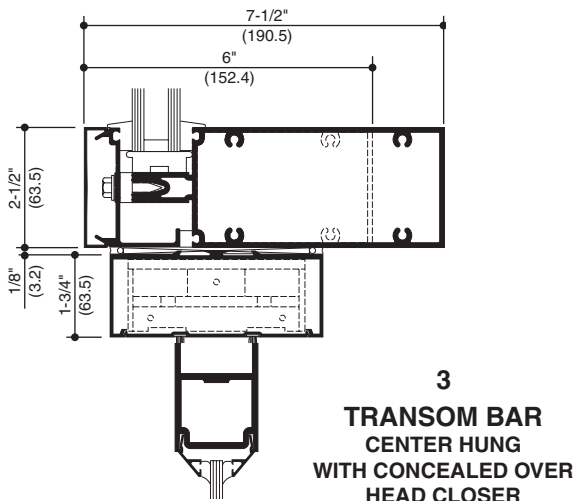
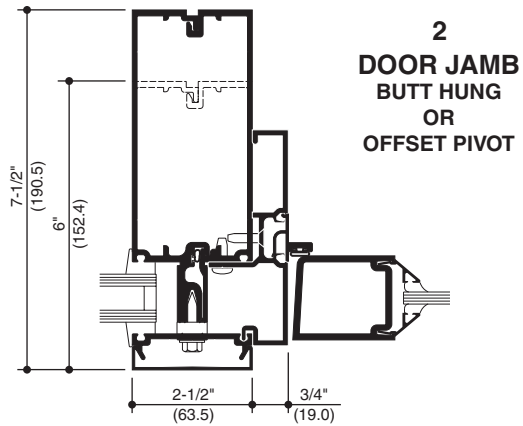
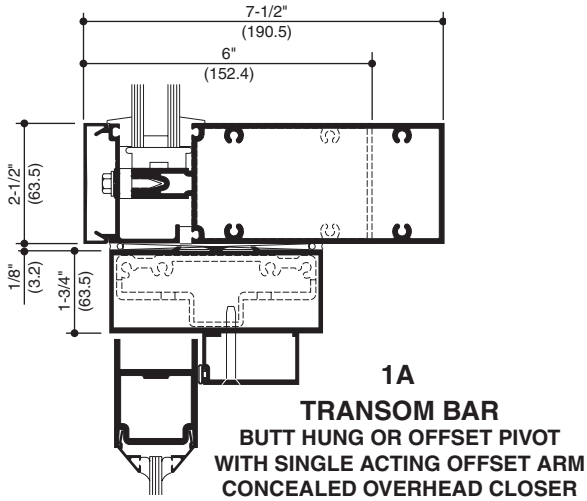
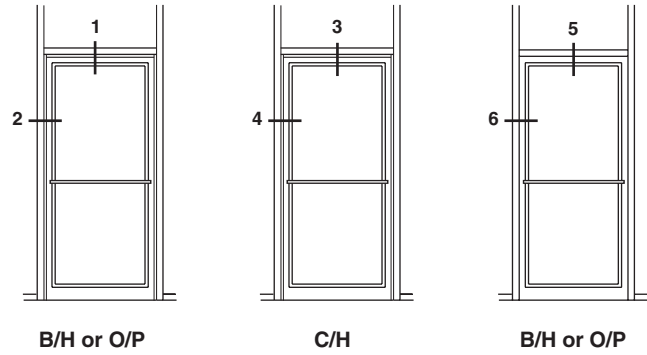
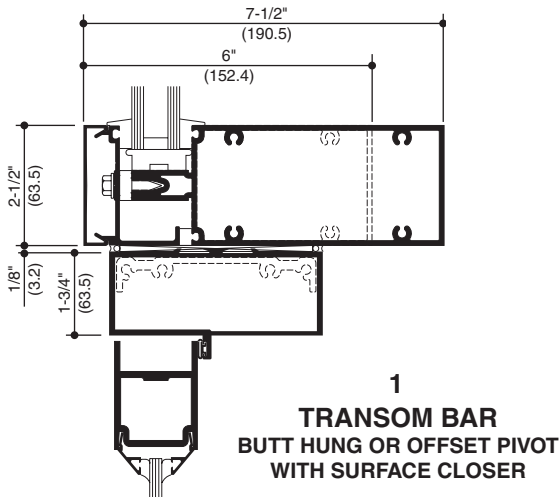
11
SSG MULLION
(1" INFILL)

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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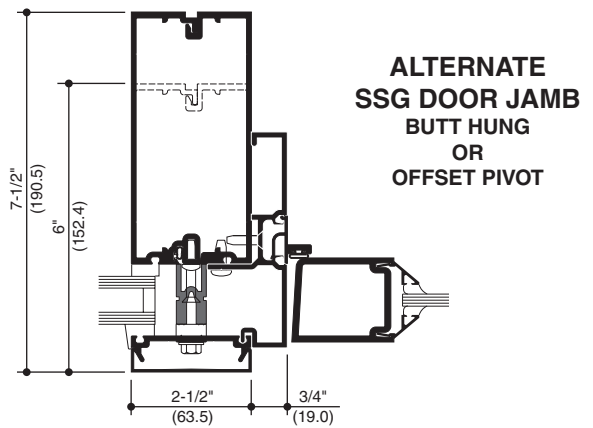
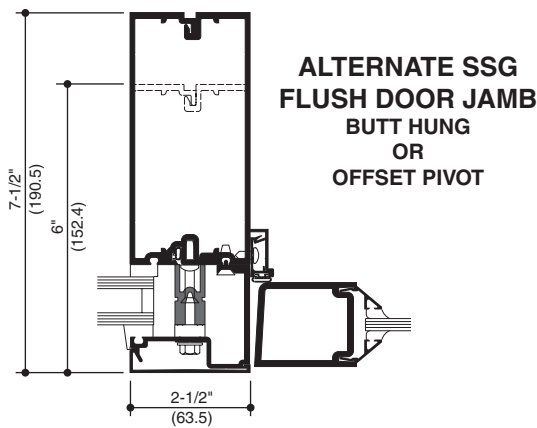
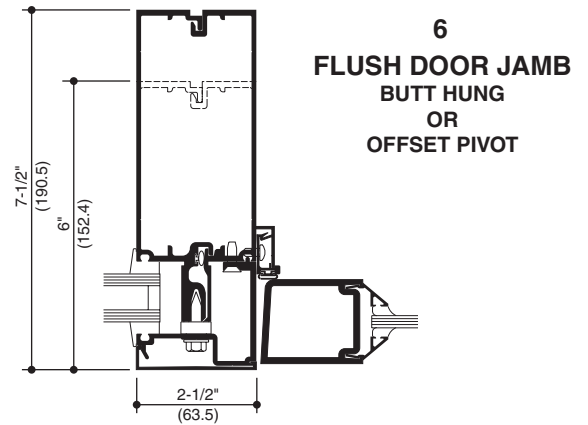
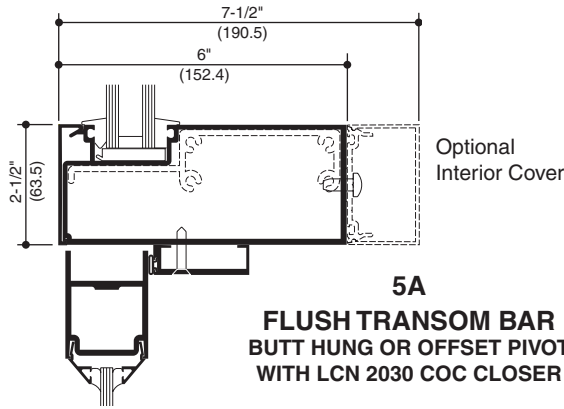
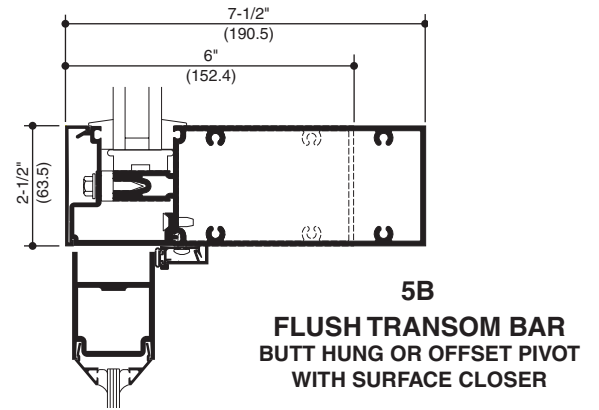
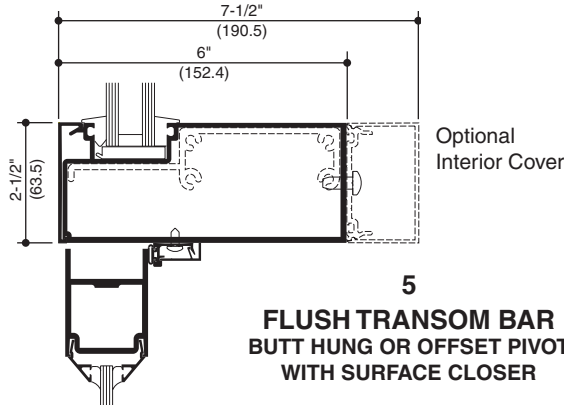
SCALE 3" = 1'-0"



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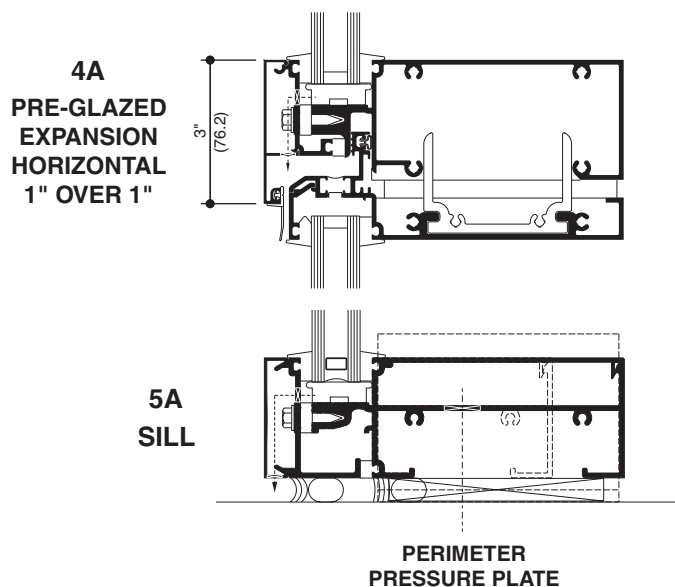
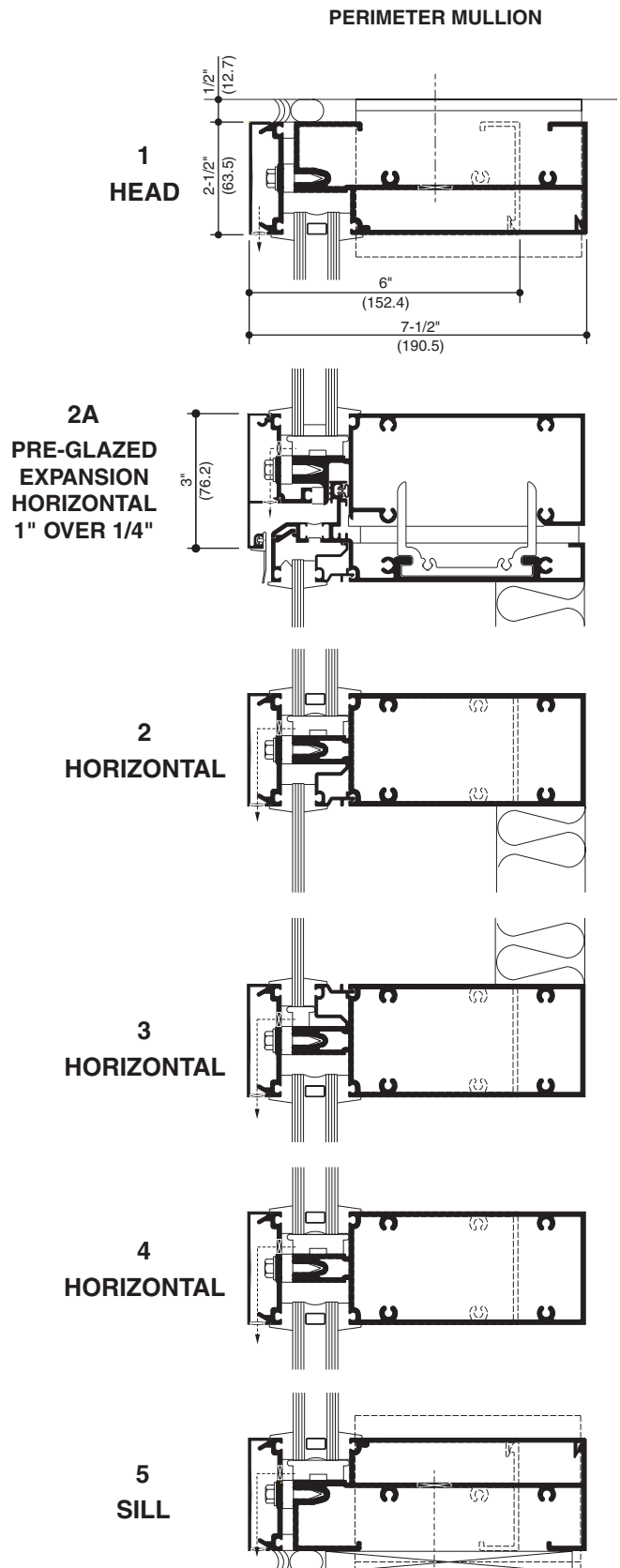
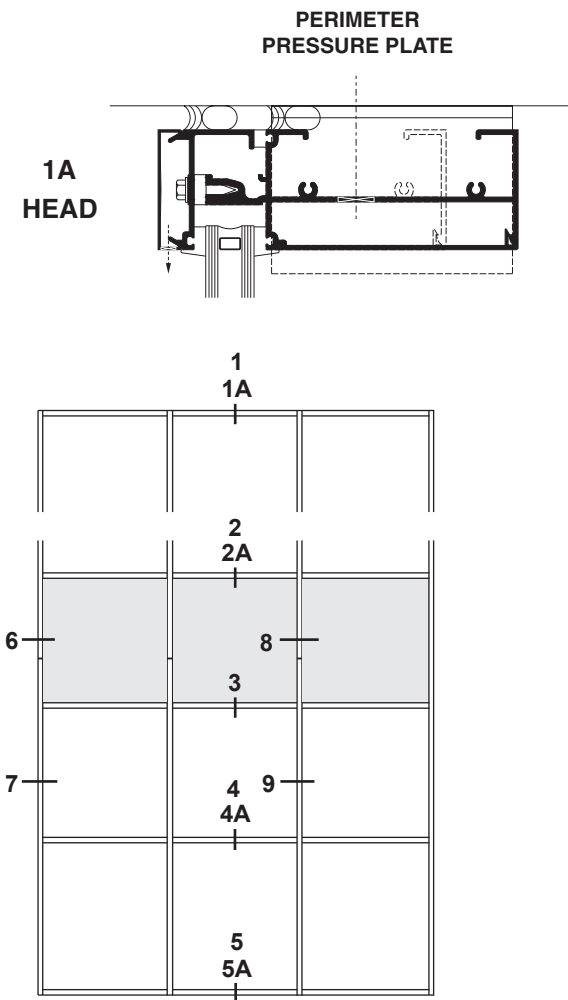
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SCALE 3" = 1'-0"

NOTE: SEE PAGE 7 FOR VERTICAL MULLION DETAILS



PERIMETER MULLION

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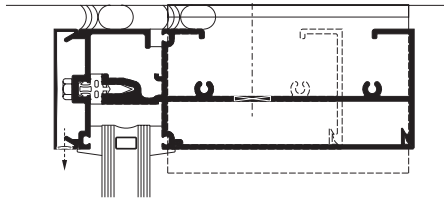
(RTS) - Reversed Thermal Separator

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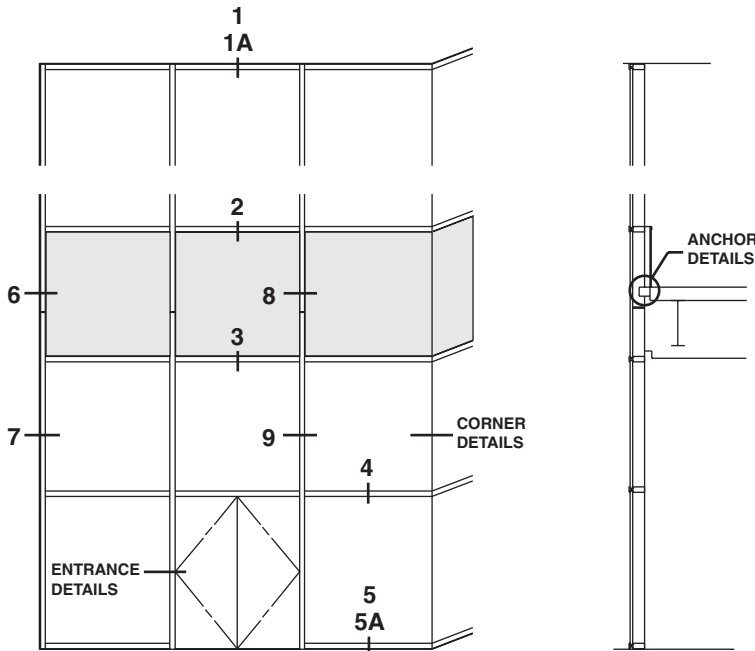
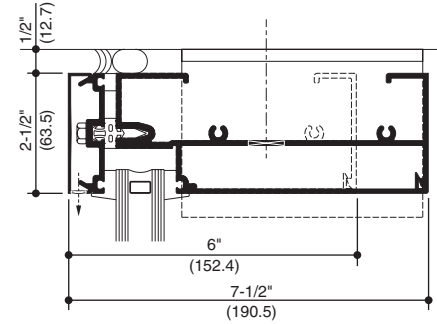
PERIMETER PRESSURE PLATE

1A HEAD

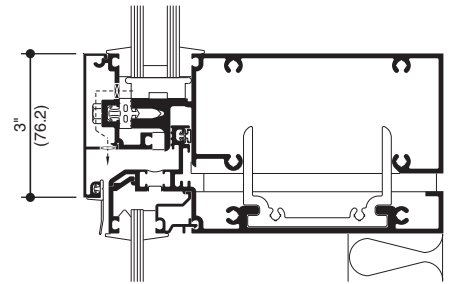


PERIMETER MULLION

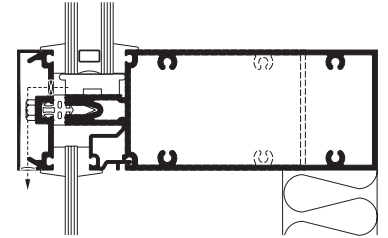
1 HEAD



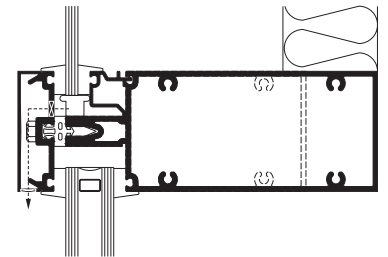
2A PRE-GLAZED EXPANSION HORIZONTAL 1" OVER 1/4"



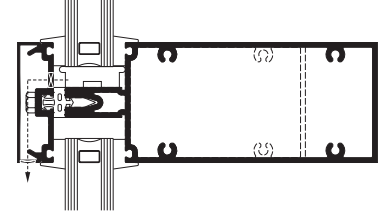
2 HORIZONTAL



3 HORIZONTAL

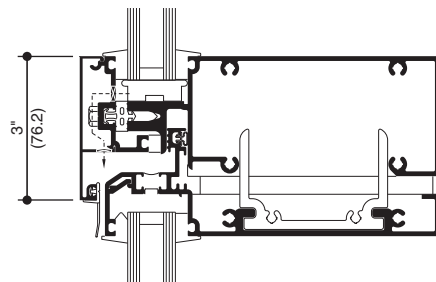


4 HORIZONTAL

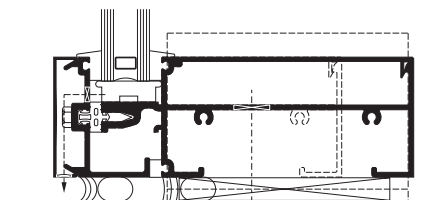


(RTS) CAPTURED MULLION ELEVATION
ELEVATION IS NUMBER KEYED TO DETAILS

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

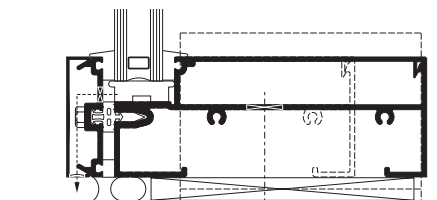


5A SILL



PERIMETER PRESSURE PLATE

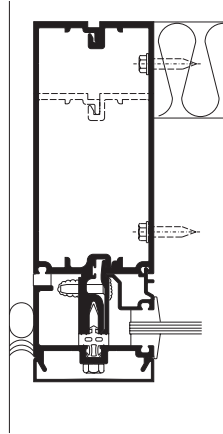
5 SILL



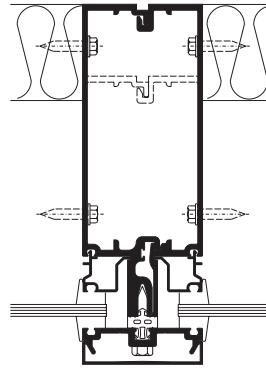
PERIMETER MULLION

SCALE 3" = 1'-0"

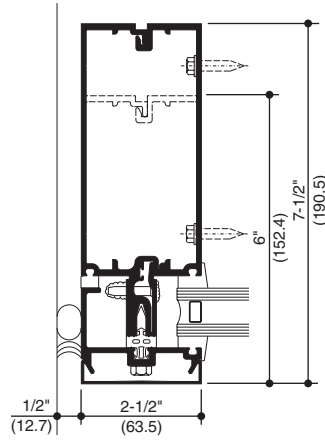
(RTS) - Reversed Thermal Separator



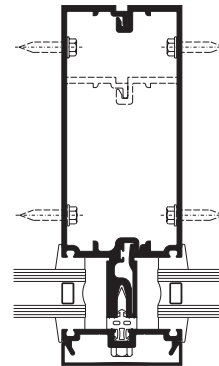
6
JAMB
(1/4" INFILL)



8
MULLION



7
JAMB
(1" INFILL)



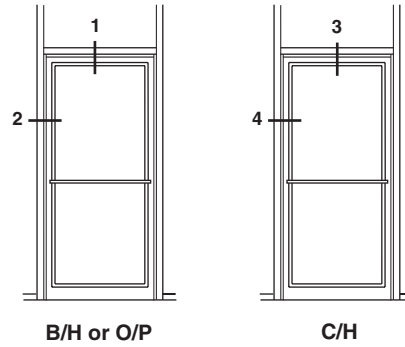
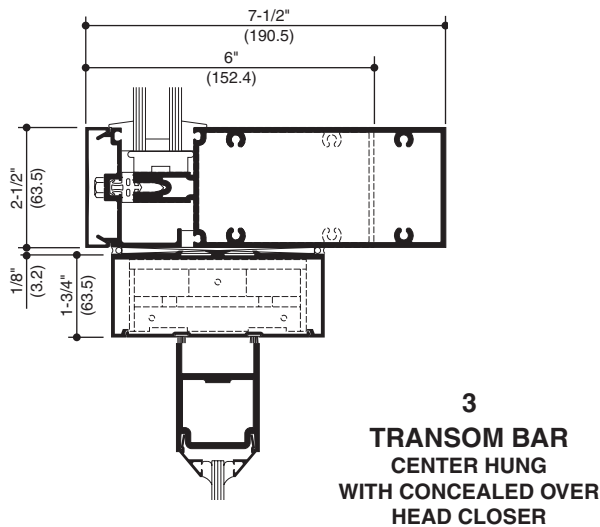
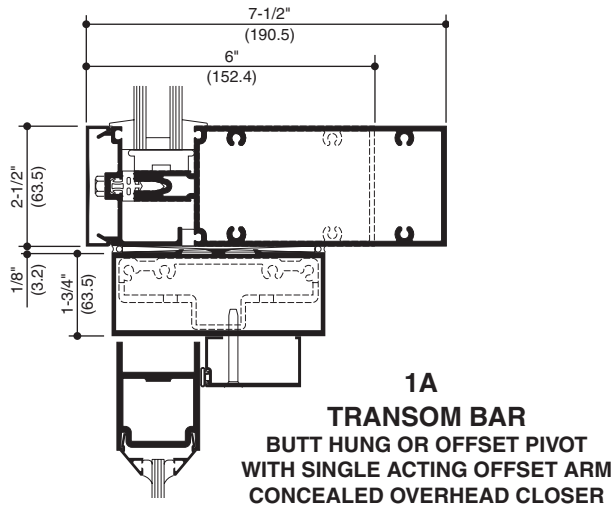
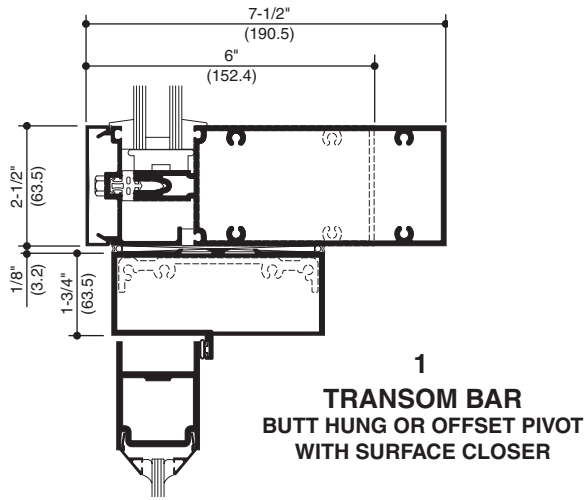
9
MULLION

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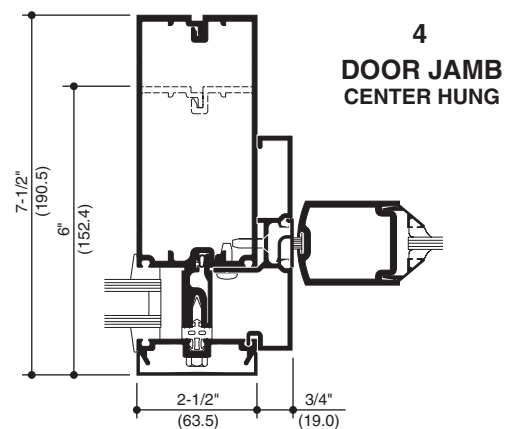
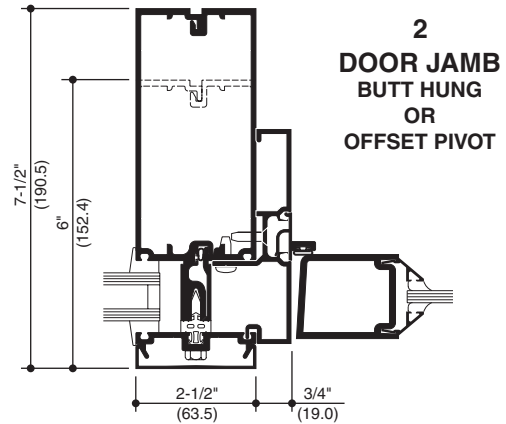
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SCALE 3" = 1'-0"

(RTS) - Reversed Thermal Separator



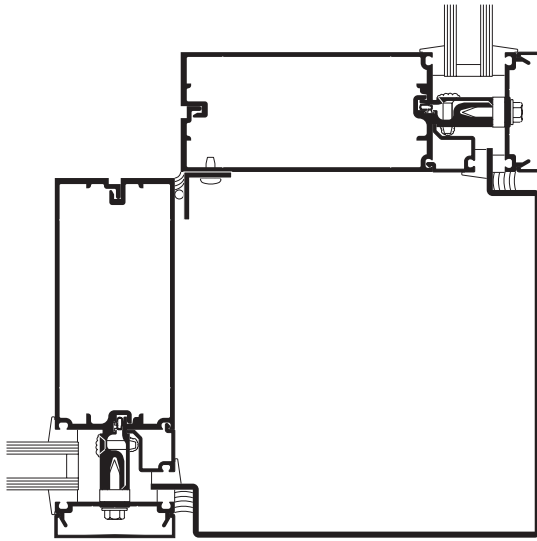
(RTS) ENTRANCE ELEVATION
ELEVATION IS NUMBER KEYED TO DETAILS



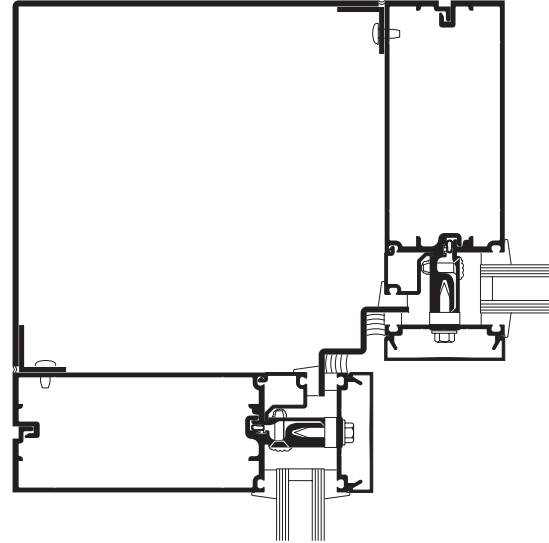
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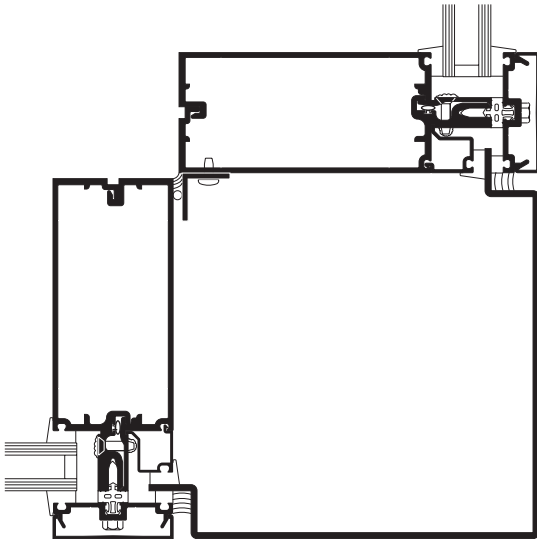
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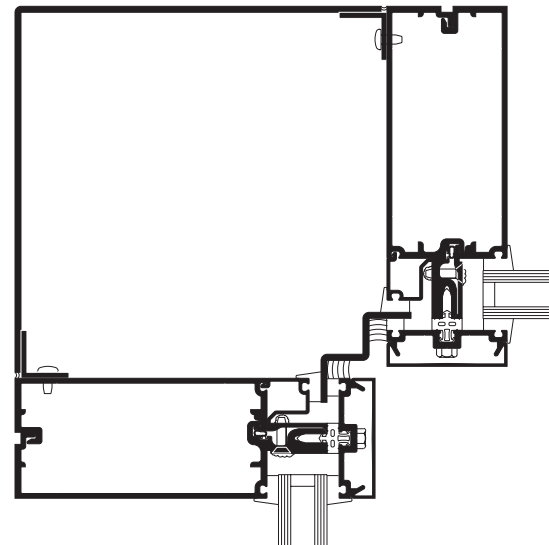
90° OUTSIDE CORNER



90° INSIDE CORNER



90° OUTSIDE CORNER (RTS)

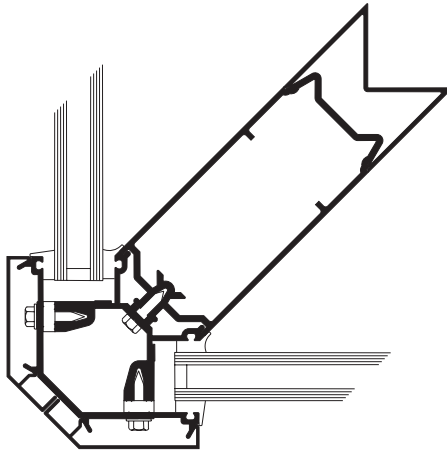


90° INSIDE CORNER (RTS)

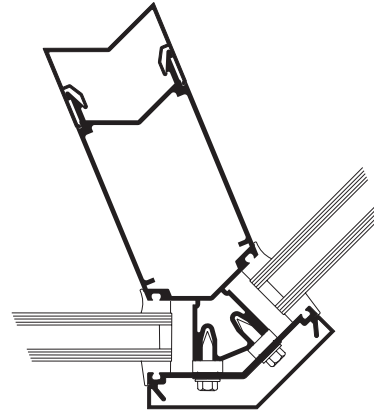
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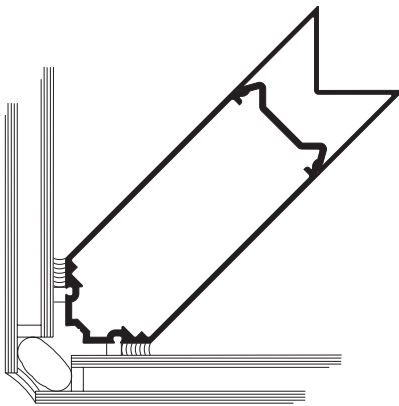
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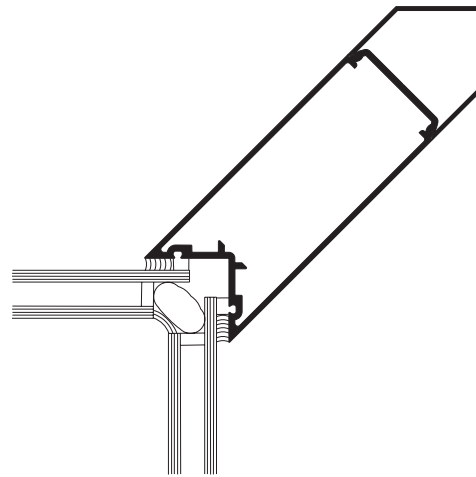
90° OUTSIDE CORNER



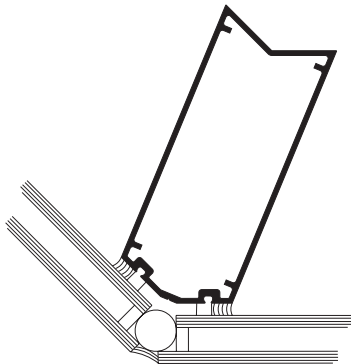
135° OUTSIDE CORNER



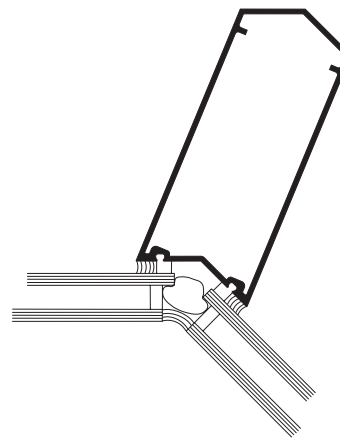
90° OUTSIDE SSG CORNER



90° INSIDE SSG CORNER



135° OUTSIDE SSG CORNER



135° INSIDE SSG CORNER

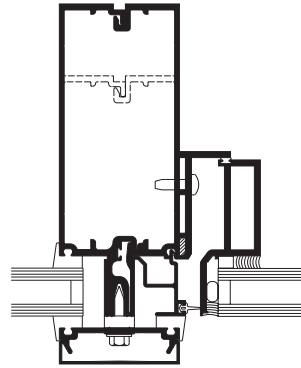
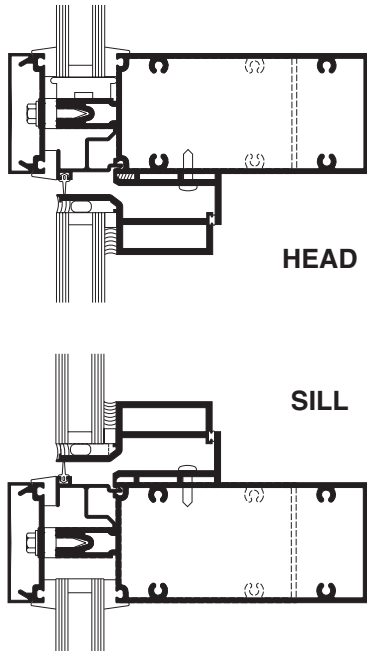
Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

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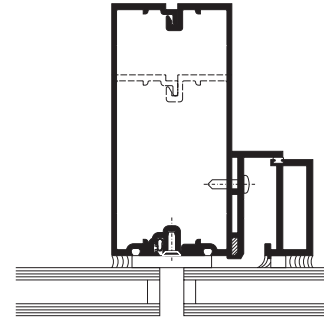
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SCALE 3" = 1'-0"

1600 GLASSvent®



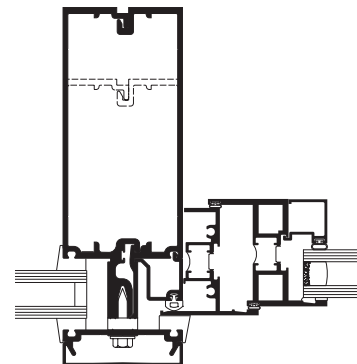
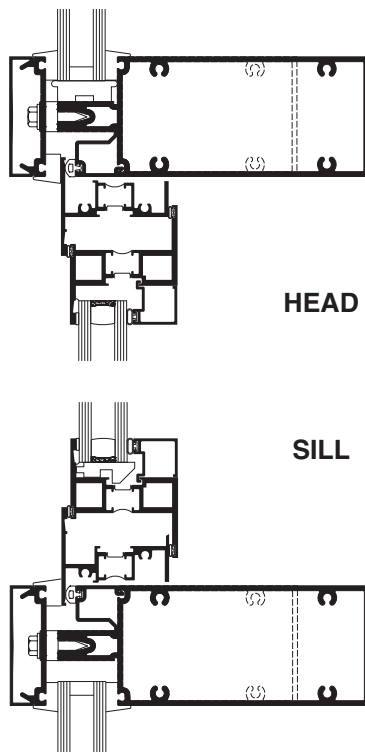
JAMB AT CAPTURED MULLION



JAMB AT SSG MULLION

8225TL ISOLOCK® WINDOWS

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



JAMB

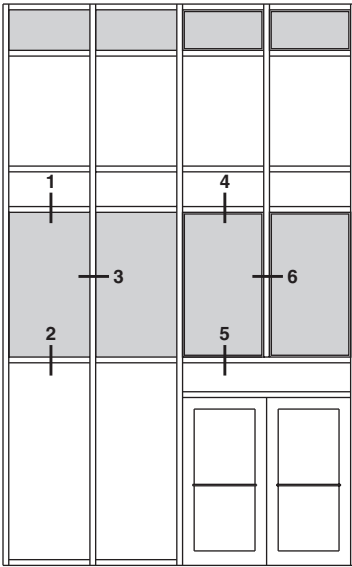
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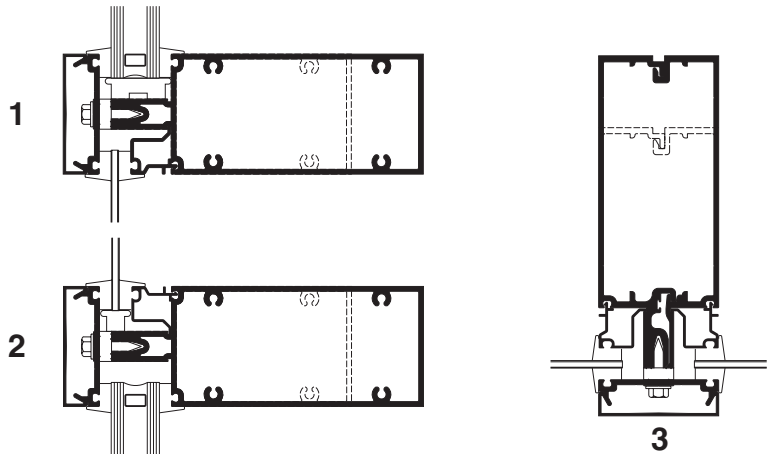
SCALE 3" = 1'-0"

GLAZED-IN PANEL

SHOWN WITH 4.0mm REYNOBOND PANEL, 6.0mm SIMILAR.

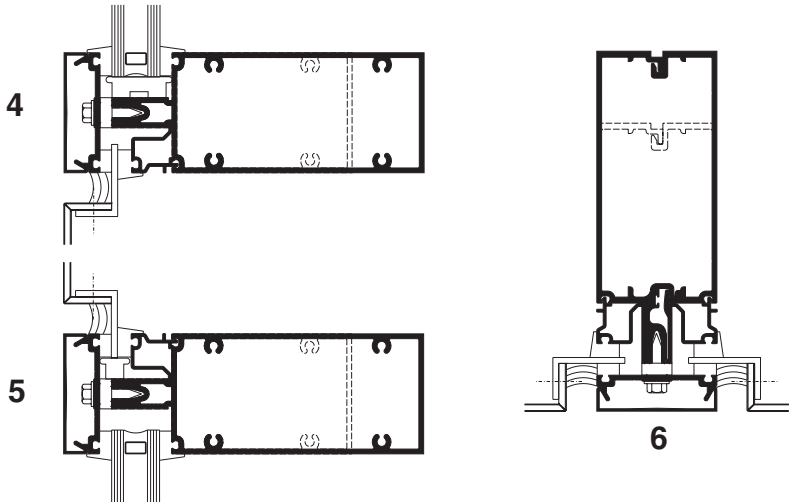


ELEVATION IS NUMBER KEYED TO DETAILS



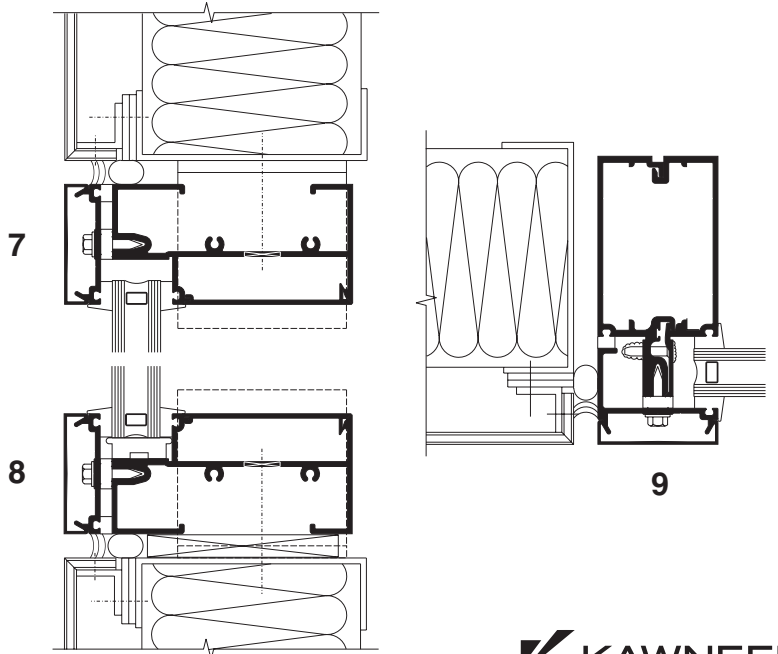
FLUSH PANEL

SHOWN WITH 4.0mm REYNOBOND PANEL, 6.0mm SIMILAR.



PUNCHED OPENING / RIBBON WINDOW INTEGRATION

SHOWN WITH 6.0mm REYNOBOND PANEL, 4.0mm SIMILAR.



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

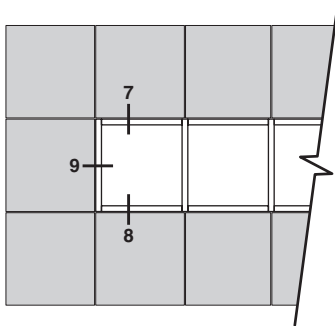
Reynobond ACM (Aluminum Composite Material) is manufactured by Alcoa Cladding Systems.

Reynobond ACM panels are available in a wide variety of sizes and shapes and are colored with Colorweld® 300 coatings. Colorweld® 300 coatings are Kynar 500®/Hylar 5000® finishes which feature durable polyvinylidene fluoride (PVDF) resins. Colorweld® 300 Series 4 finishes are designed to match Kawneer's anodized colors.

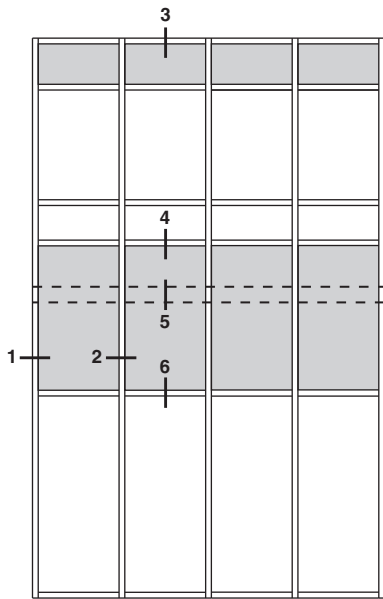
For additional information on Reynobond visit: www.reynobond.com

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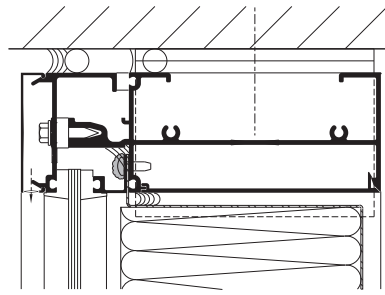


SCALE 3" = 1'-0"

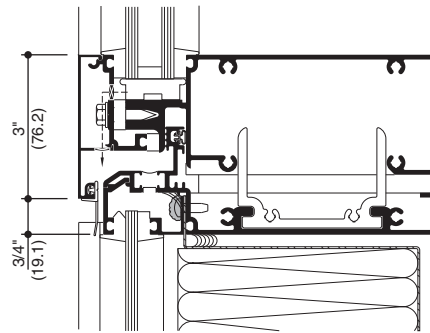


ELEVATION IS NUMBER KEYED TO DETAILS

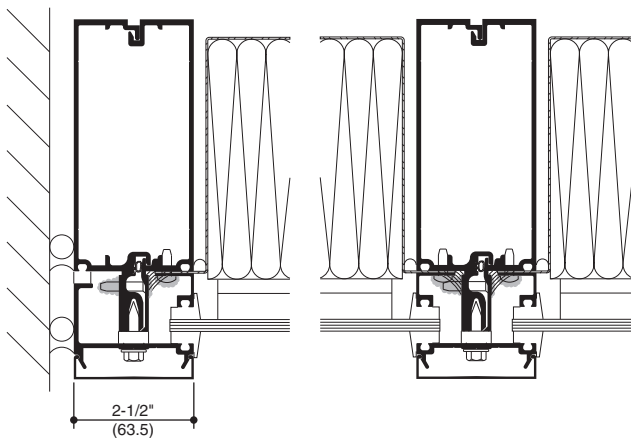
NOTE: 7-1/2" SYSTEM SHOWN, 6" SYSTEM SIMILAR



3
HEAD

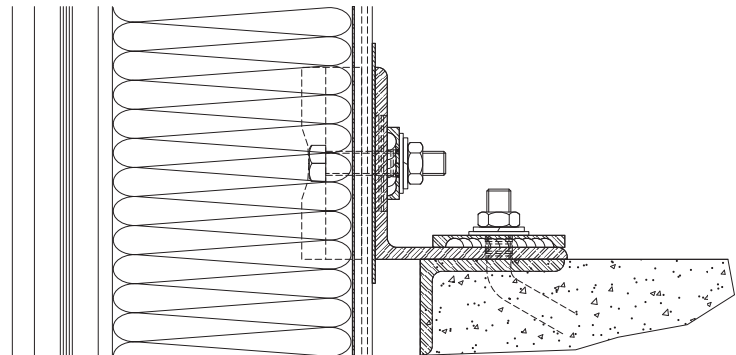


4
EXPANSION JOINT

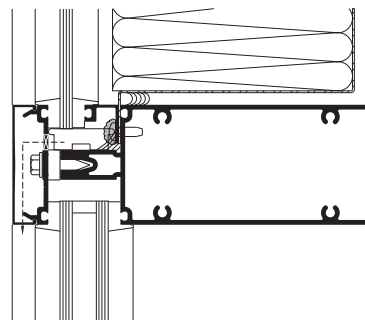


1
JAMB MULLION
AT SPANDREL

2
MULLION AT SPANDREL



5
TYPICAL DEADLOAD ANCHOR

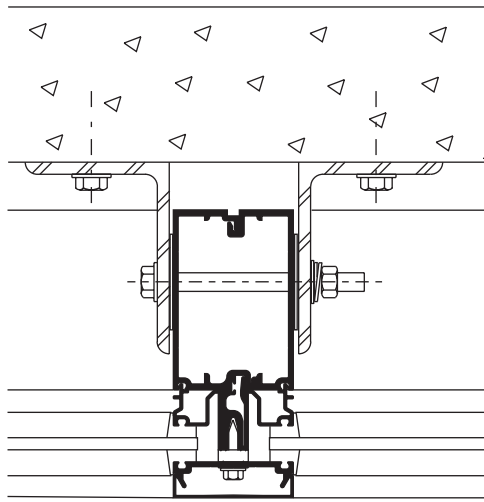


6
TRANSOM - SPANDREL OVER VISION

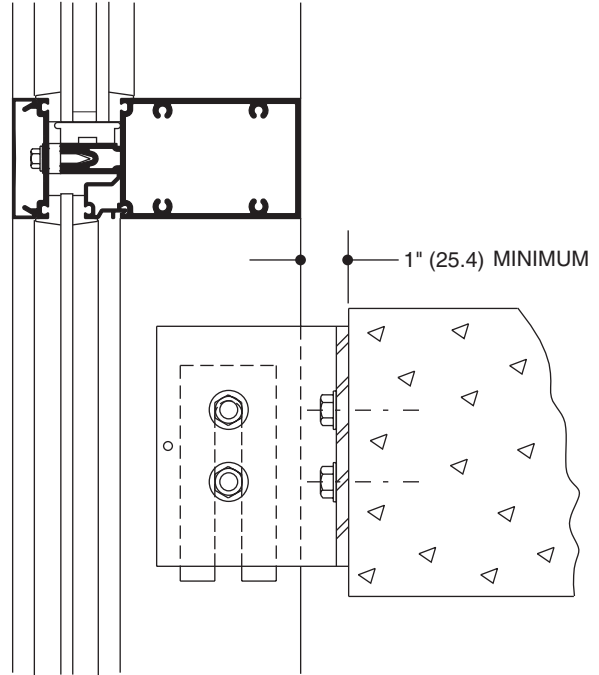
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Actual project conditions will determine specific anchor design. Details on this page are for reference only.



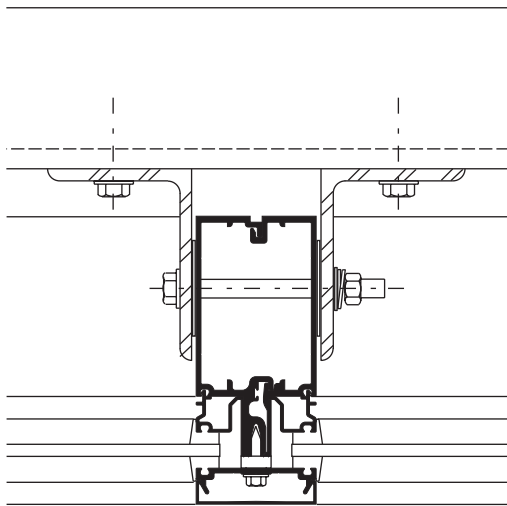
ANCHORING TO FLOOR SLAB



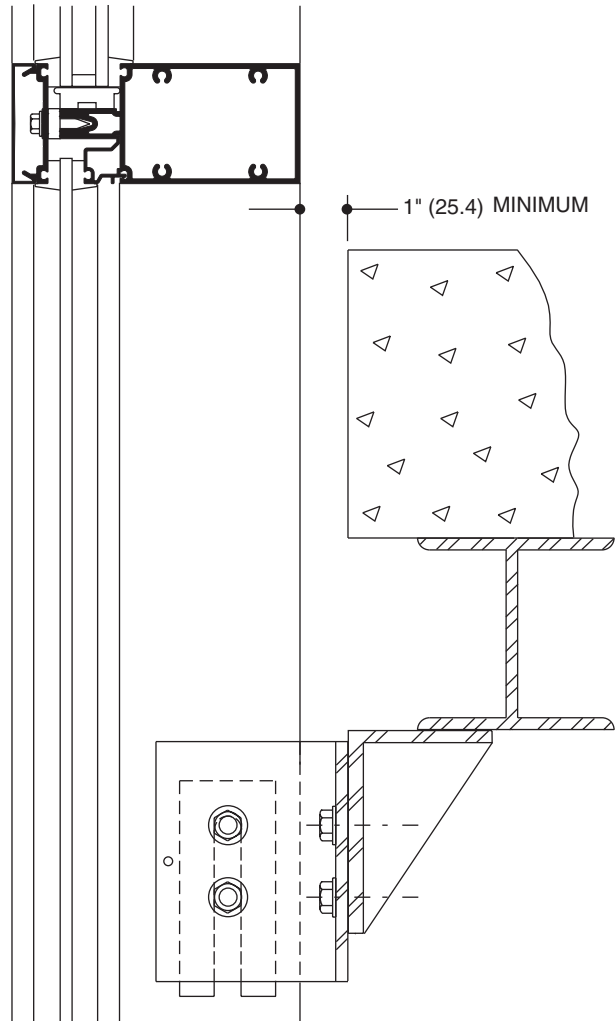
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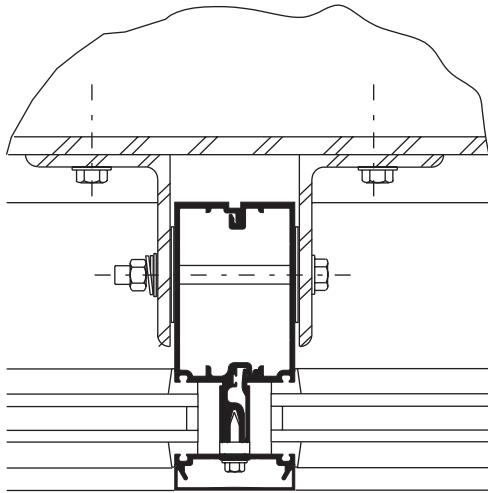
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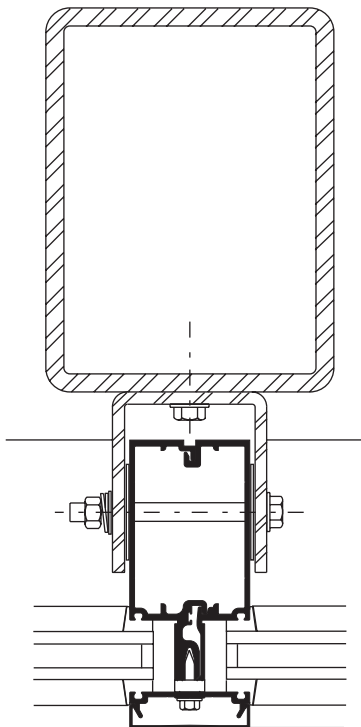
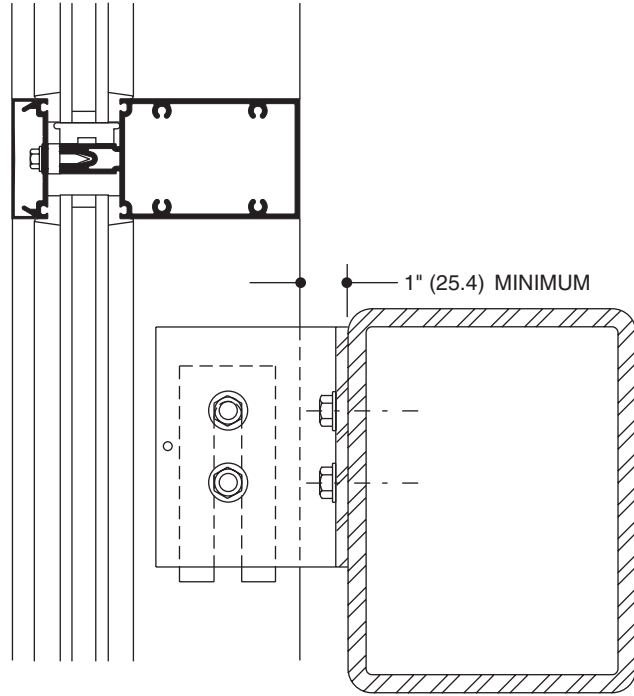
ANCHORING TO SUPPORT STEEL



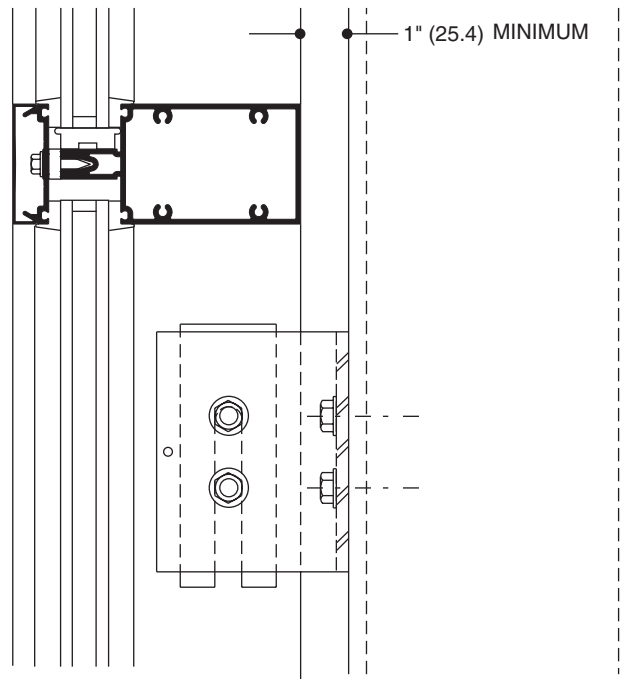
Actual project conditions will determine specific anchor design. Details on this page are for reference only.



**ANCHORING TO HORIZONTAL
STRUCTURAL STEEL**



**ANCHORING TO VERTICAL
STRUCTURAL STEEL**



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WIND LOAD CHARTS

Mullions are designed for deflection limitations in accordance with AAMA TIR-A11 of L/175 up to 13'-6" and L/240 +1/4" above 13'-6". These curves are for mullions WITH HORIZONTALS and are based on engineering calculations for stress and deflection. Allowable wind load stress for ALUMINUM 15,152 p.s.i. (104MPa). Charted curves, in all cases are for the limiting value. 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

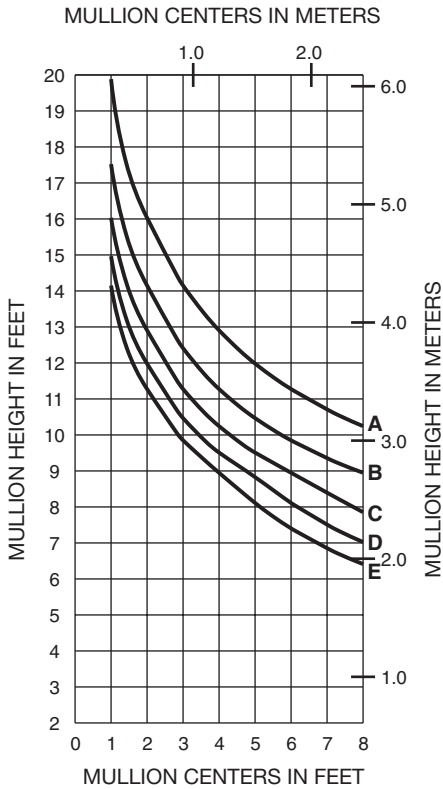
Horizontal or deadload limitations are based upon 1/8" (3.2), maximum allowable deflection at the center of an intermediate horizontal member. The accompanying charts are calculated for 1" (25) thick insulating glass or 1/4" (6) thick glass supported on two setting blocks placed at the loading points shown.

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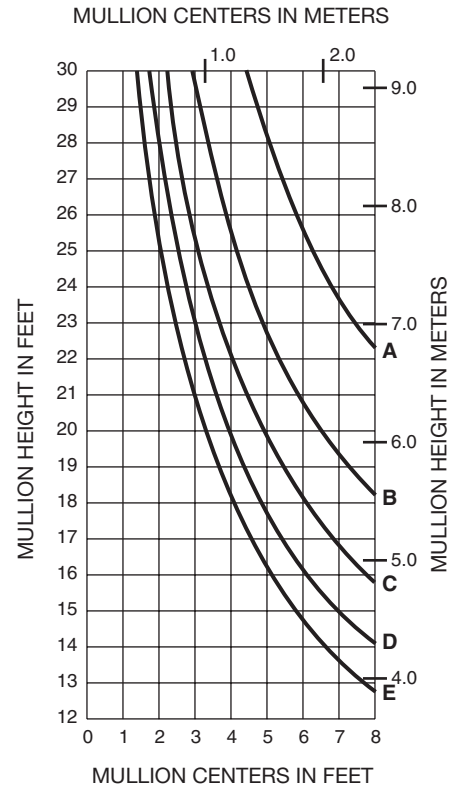
SINGLE SPAN

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

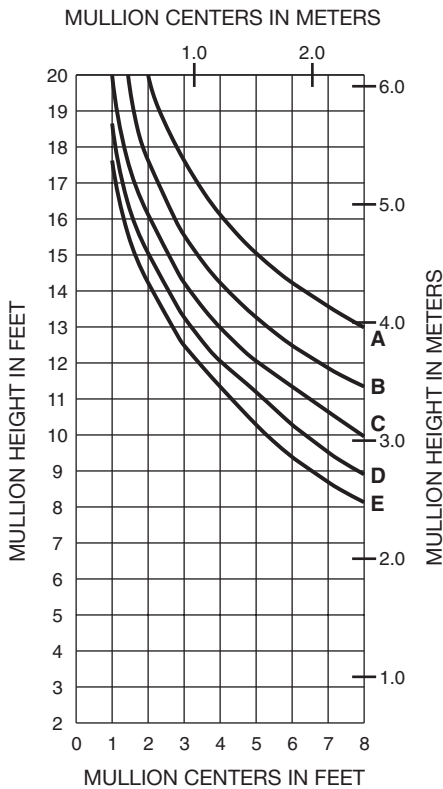


169-001 169-002
 $I = 5.652 (235.25 \times 10^4)$
 $S = 1.954 (32.02 \times 10^3)$

TWIN SPAN

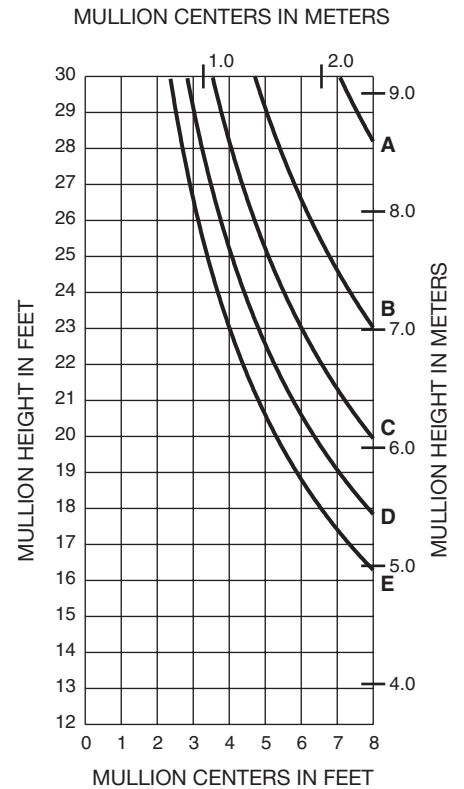


SINGLE SPAN



169-003 169-004
 $I = 11.512 (479.16 \times 10^4)$
 $S = 3.141 (51.47 \times 10^3)$

TWIN SPAN

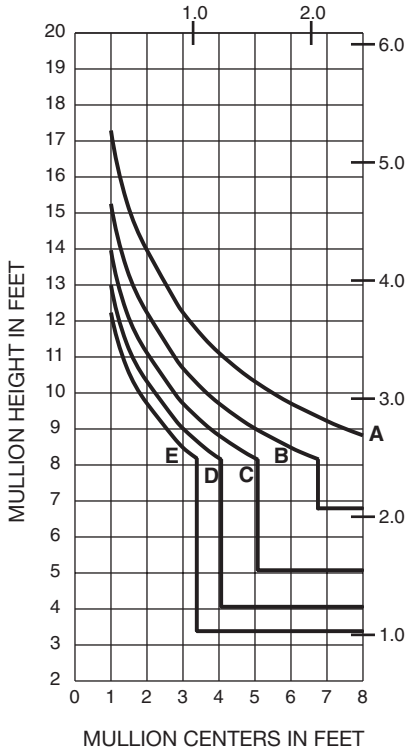


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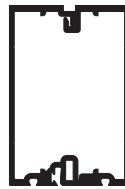
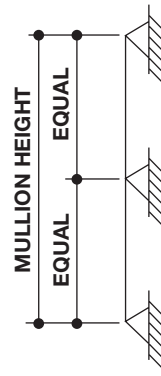
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SINGLE SPAN

MULLION CENTERS IN METERS



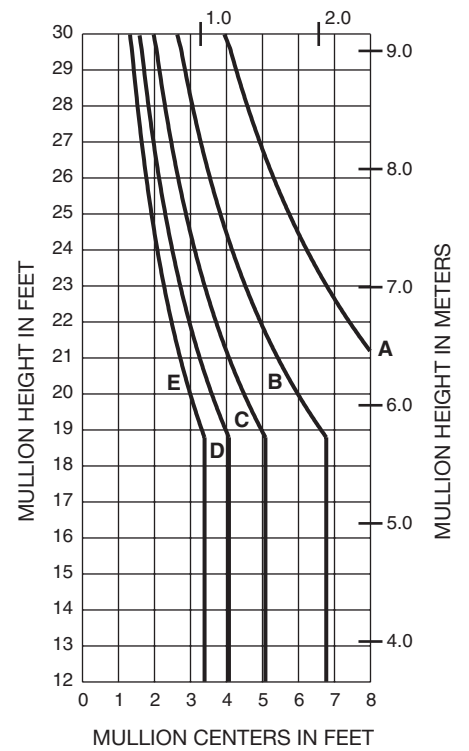
- A = 20 PSF (960)
- B = 30 PSF (1440)
- C = 40 PSF (1920)
- D = 50 PSF (2400)
- E = 60 PSF (2880)



169-005 169-006
 $I = 3.609 (150.22 \times 10^4)$
 $S = 1.773 (29.05 \times 10^3)$

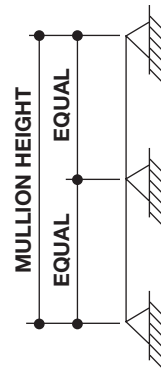
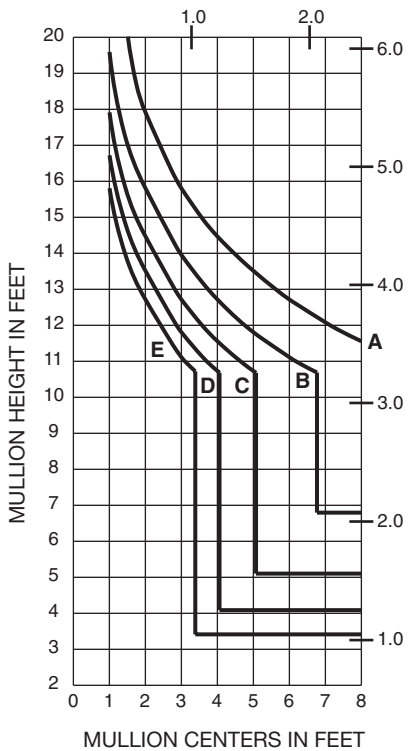
TWIN SPAN

MULLION CENTERS IN METERS



SINGLE SPAN

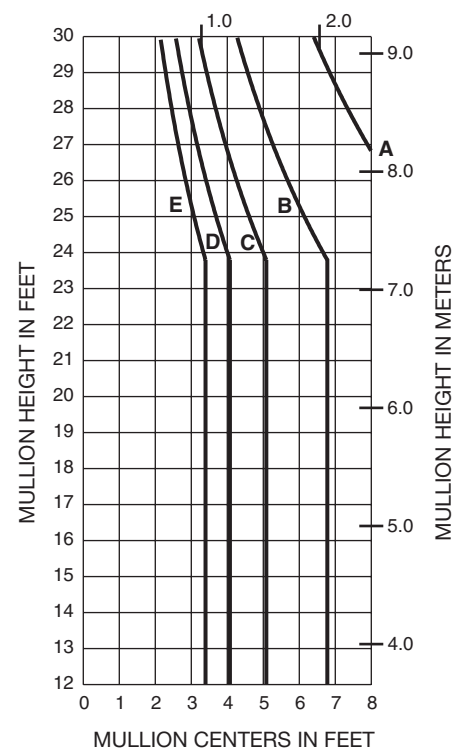
MULLION CENTERS IN METERS



169-007 169-008
 $I = 8.065 (335.69 \times 10^4)$
 $S = 2.842 (46.57 \times 10^3)$

TWIN SPAN

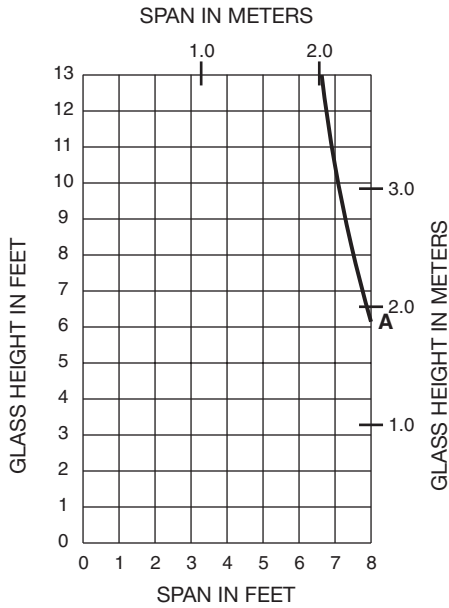
MULLION CENTERS IN METERS



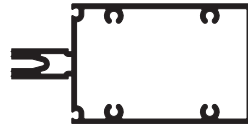
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(1/4" INFILL)



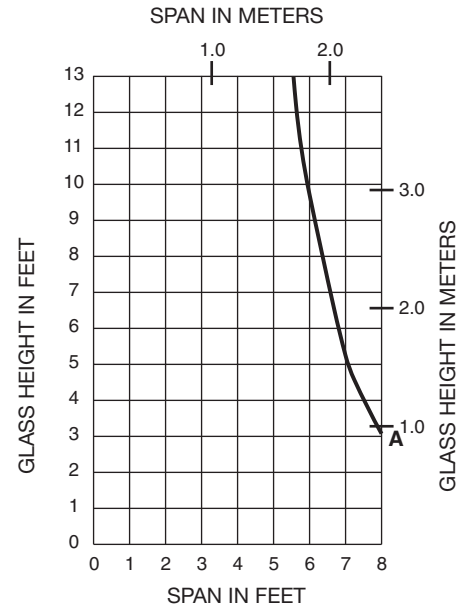
A = 1/4 POINT LOADING



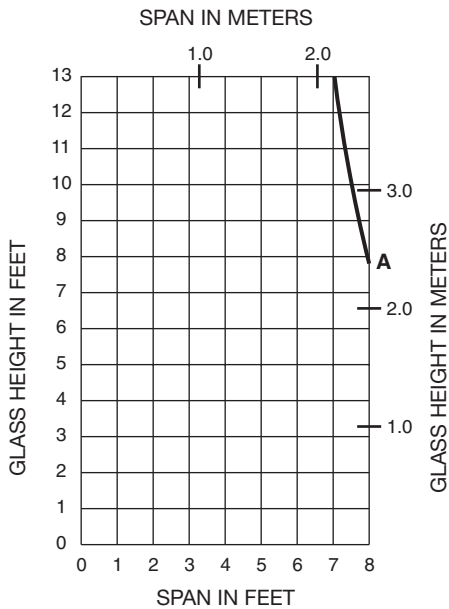
169-014

I = 1.620 (67.43 x 10⁴)
S = 1.296 (21.24 x 10³)

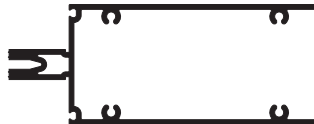
(1" INFILL)



(1/4" INFILL)



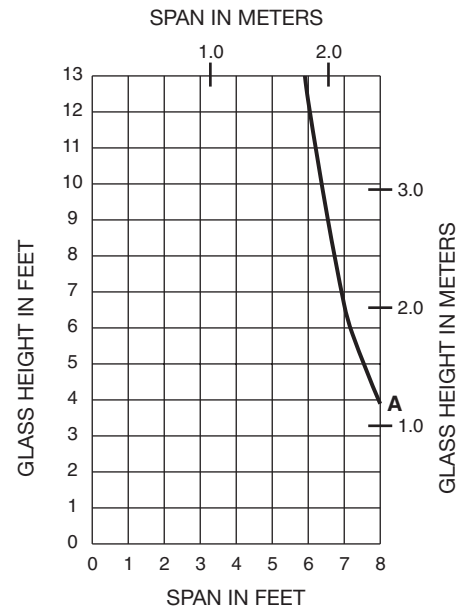
A = 1/4 POINT LOADING



169-017

I = 2.052 (85.41 x 10⁴)
S = 1.642 (26.91 x 10³)

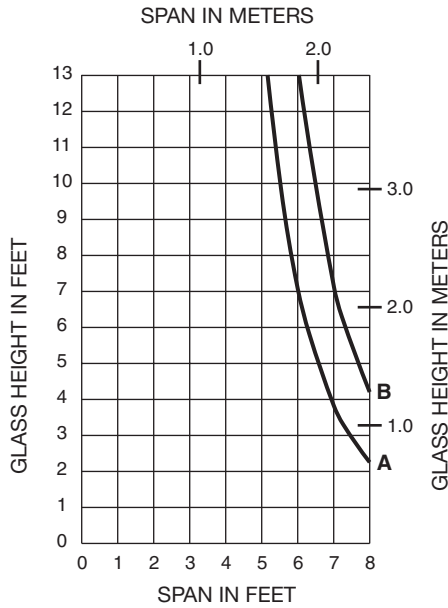
(1" INFILL)



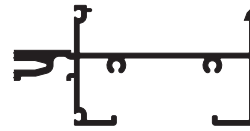
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(1/4" INFILL)



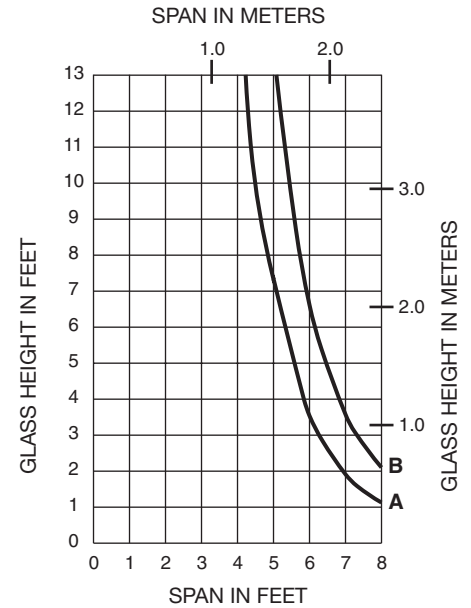
A = 1/4 POINT LOADING
B = 1/8 POINT LOADING



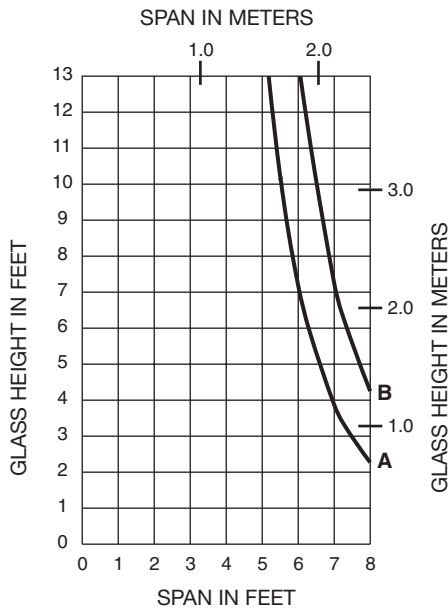
169-016

$I = 0.589 (24.52 \times 10^4)$
 $S = 0.456 (7.47 \times 10^3)$

(1" INFILL)



(1/4" INFILL)



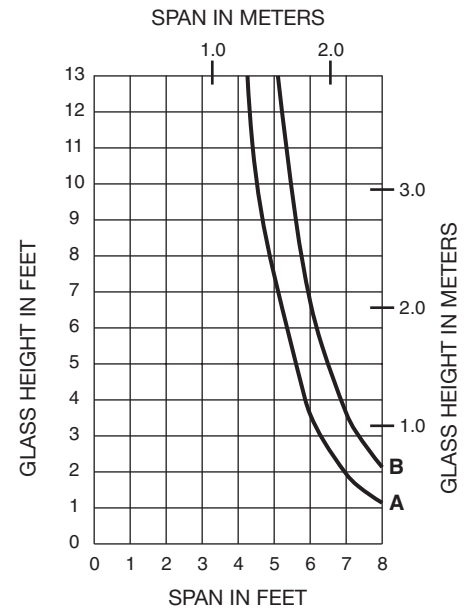
A = 1/4 POINT LOADING
B = 1/8 POINT LOADING



169-019

$I = 0.598 (24.89 \times 10^4)$
 $S = 0.470 (7.70 \times 10^3)$

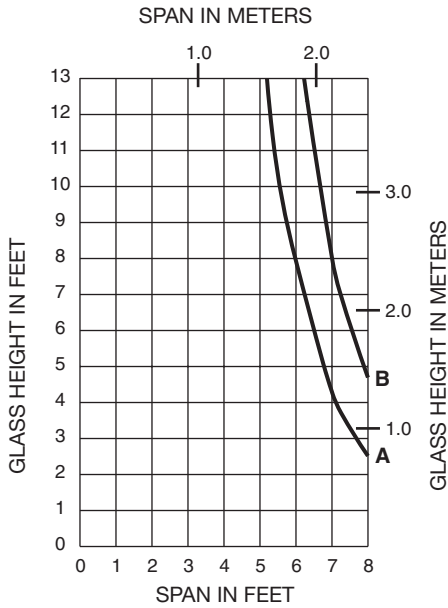
(1" INFILL)



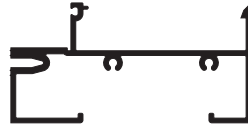
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(1/4" INFILL)



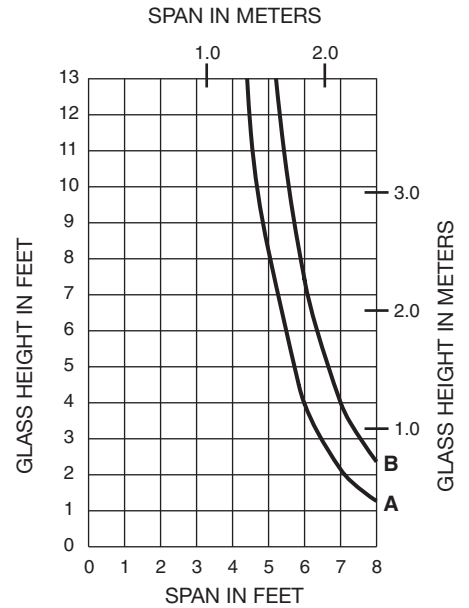
A = 1/4 POINT LOADING
B = 1/8 POINT LOADING



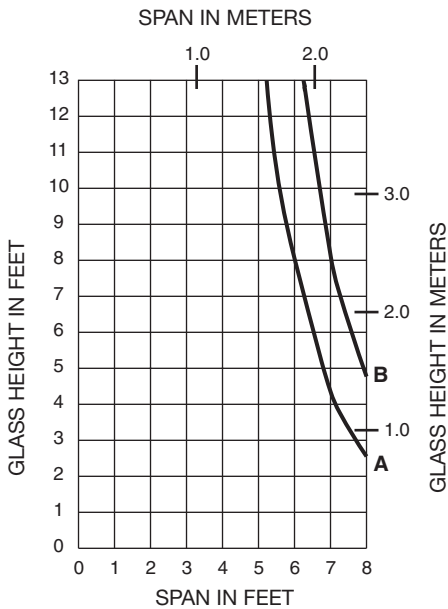
169-015

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

(1" INFILL)



(1/4" INFILL)



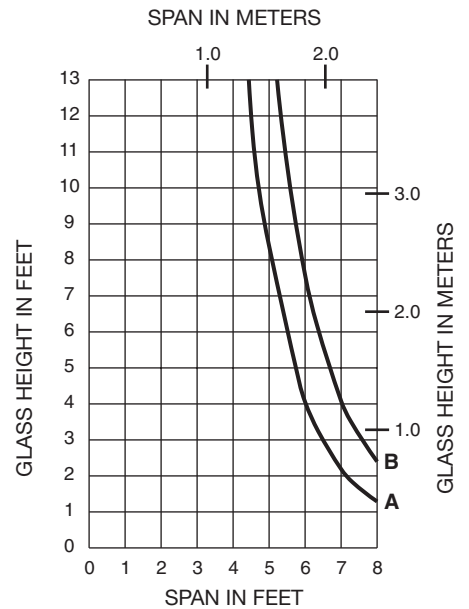
A = 1/4 POINT LOADING
B = 1/8 POINT LOADING



169-018

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

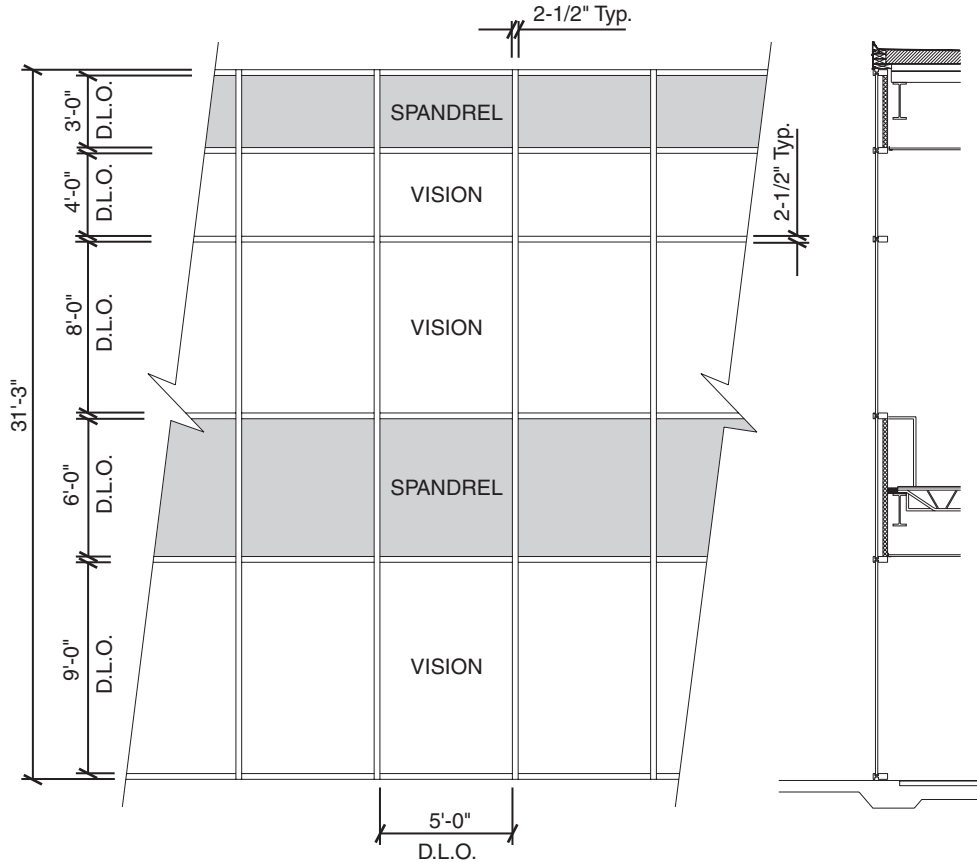
(1" INFILL)



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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

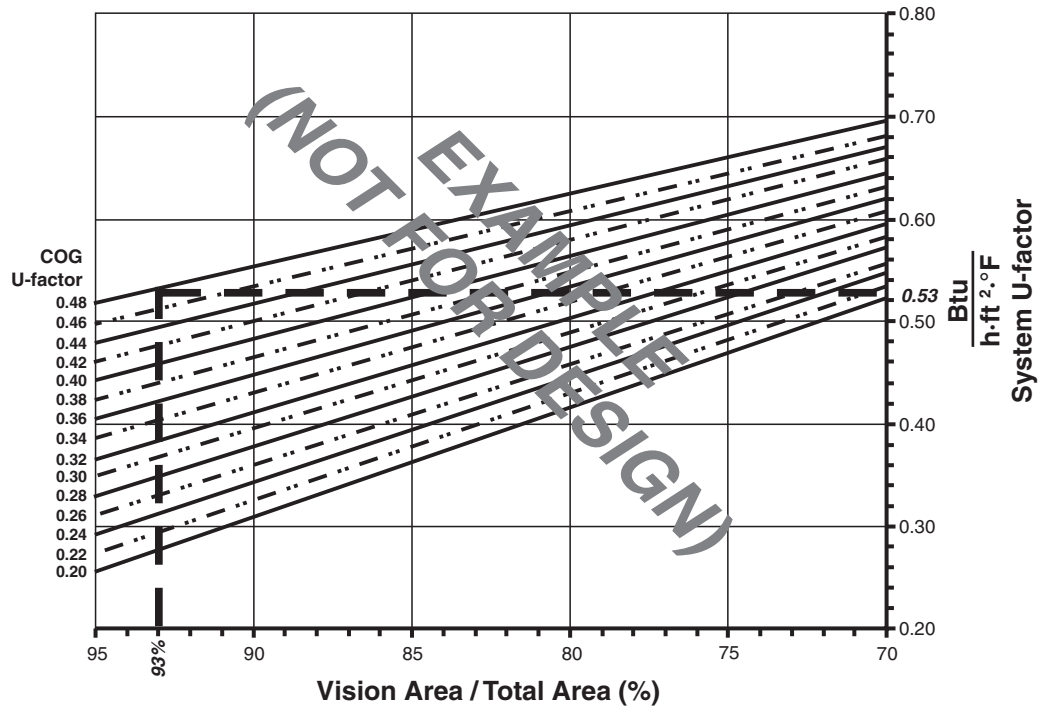
Example Spandrel R-value	= 15 (ft ² · h · °F)/Btu
Spandrel Area	= 5(6 + 3) = 45.0 ft ²
Total Area (Spandrel)	= 5' 2-1/2" (6' 2-1/2" + 3' 3-3/4") = 49.6 ft ²
Percent of Spandrel	= (Spandrel Area ÷ Total Area)100 = (49.0 ÷ 49.6)100 = 91%

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Vision Area Chart

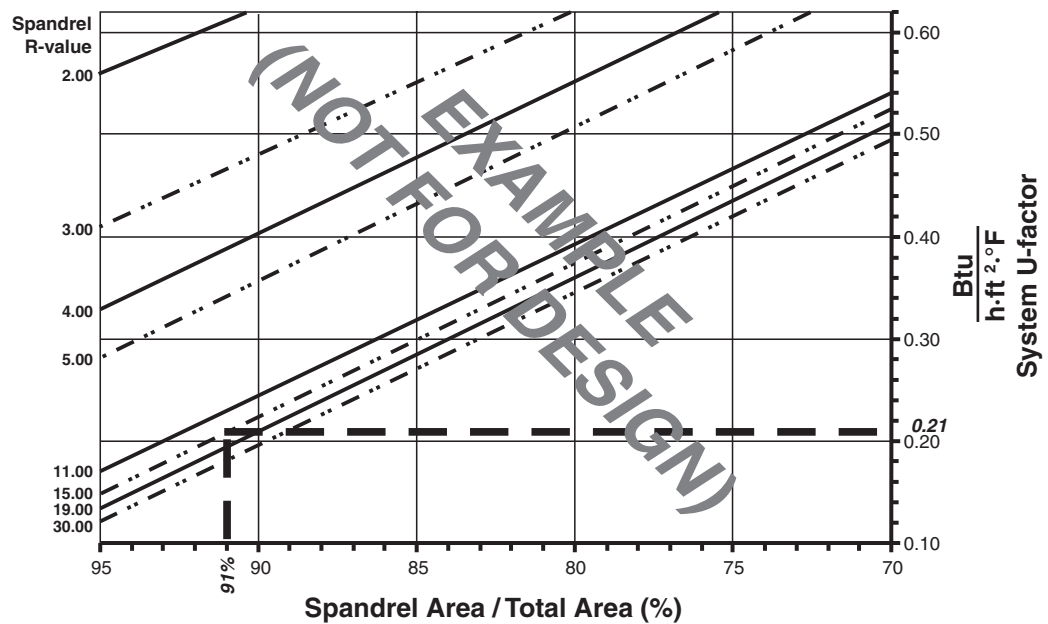
System U-factor vs Percent of Vision Area



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



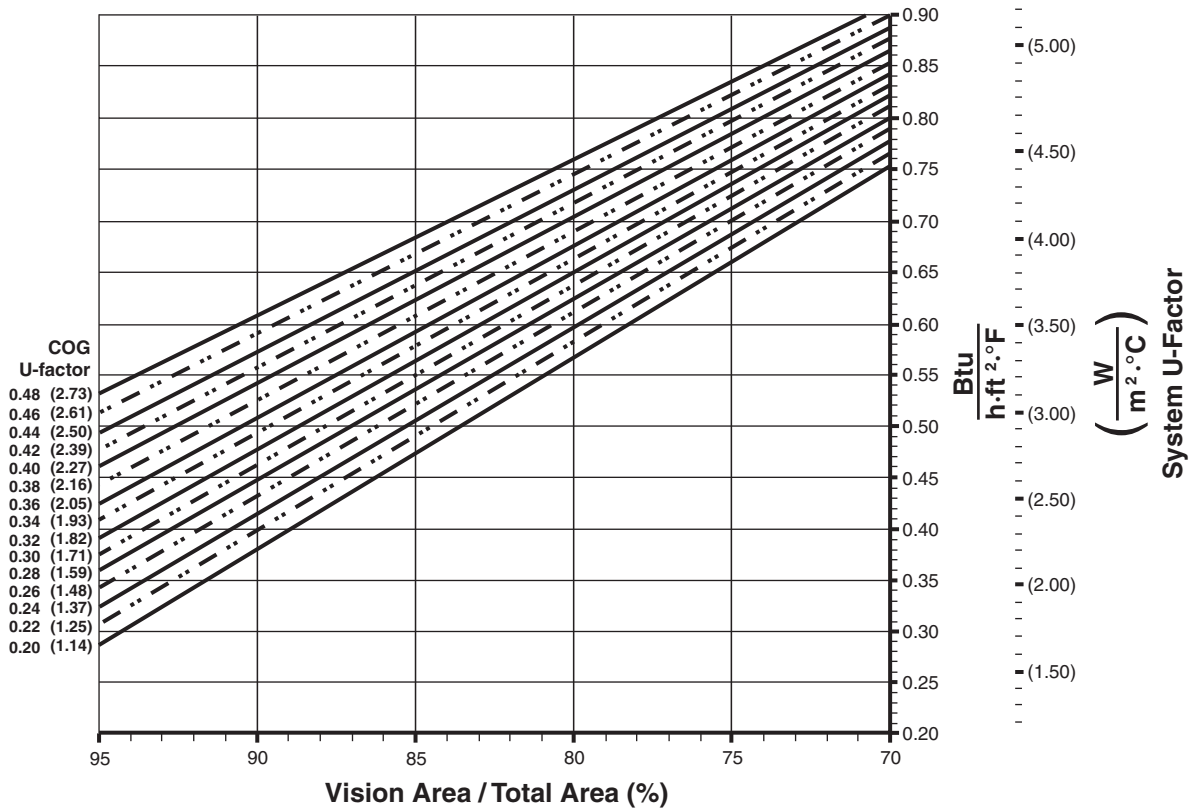
Based on a single curtain wall bay of 91% spandrel and center of spandrel R-value of 15, system U-factor is equal to 0.21 Btu/(h-ft²·°F)

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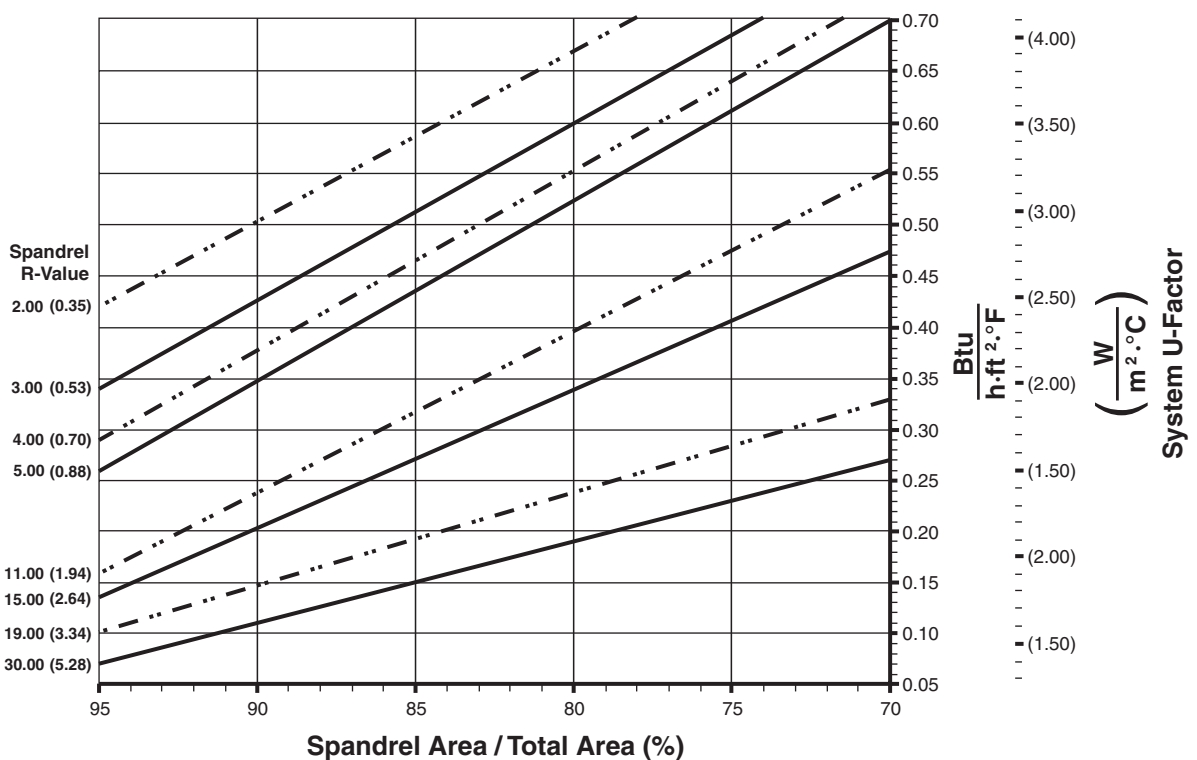
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Note:
 Values in parentheses are metric.
 COG=Center of Glass.
 Charts are generated per AAMA 507.

System U-Factor for Vision Glass



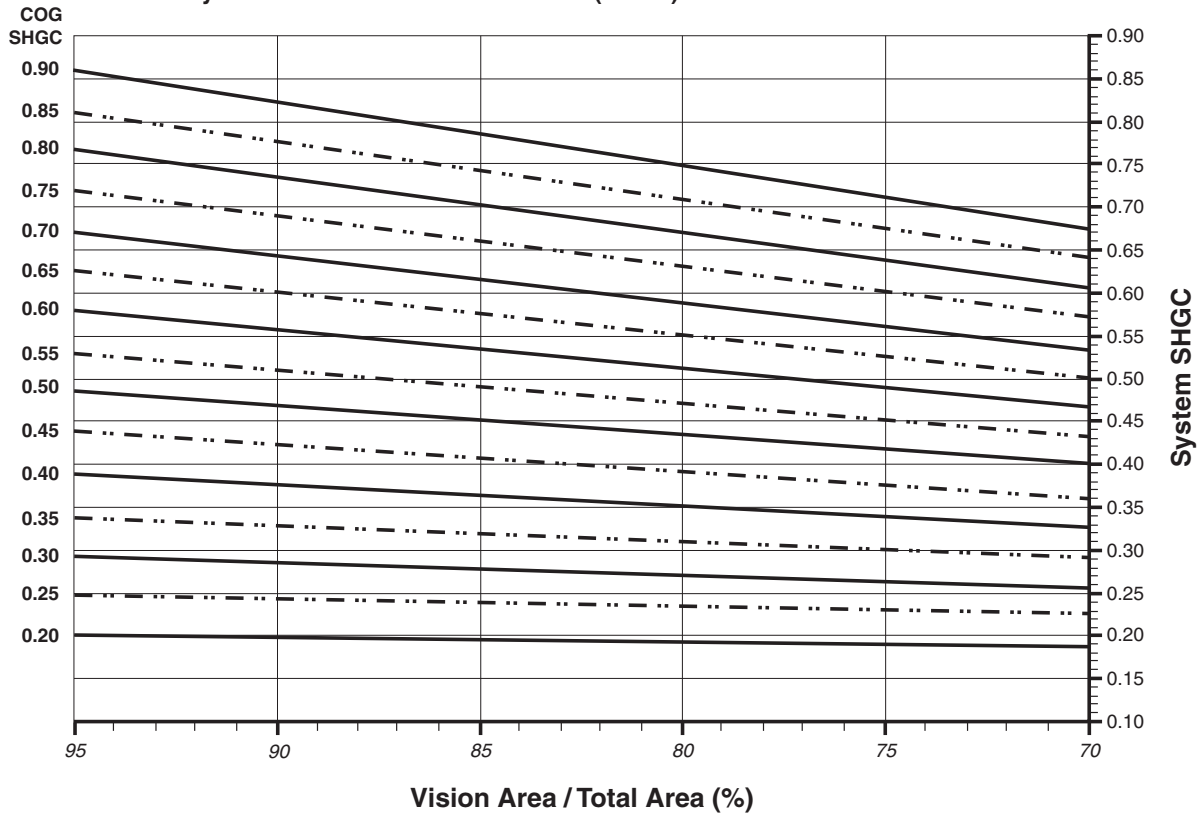
System U-Factors for Spandrel Glass



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.

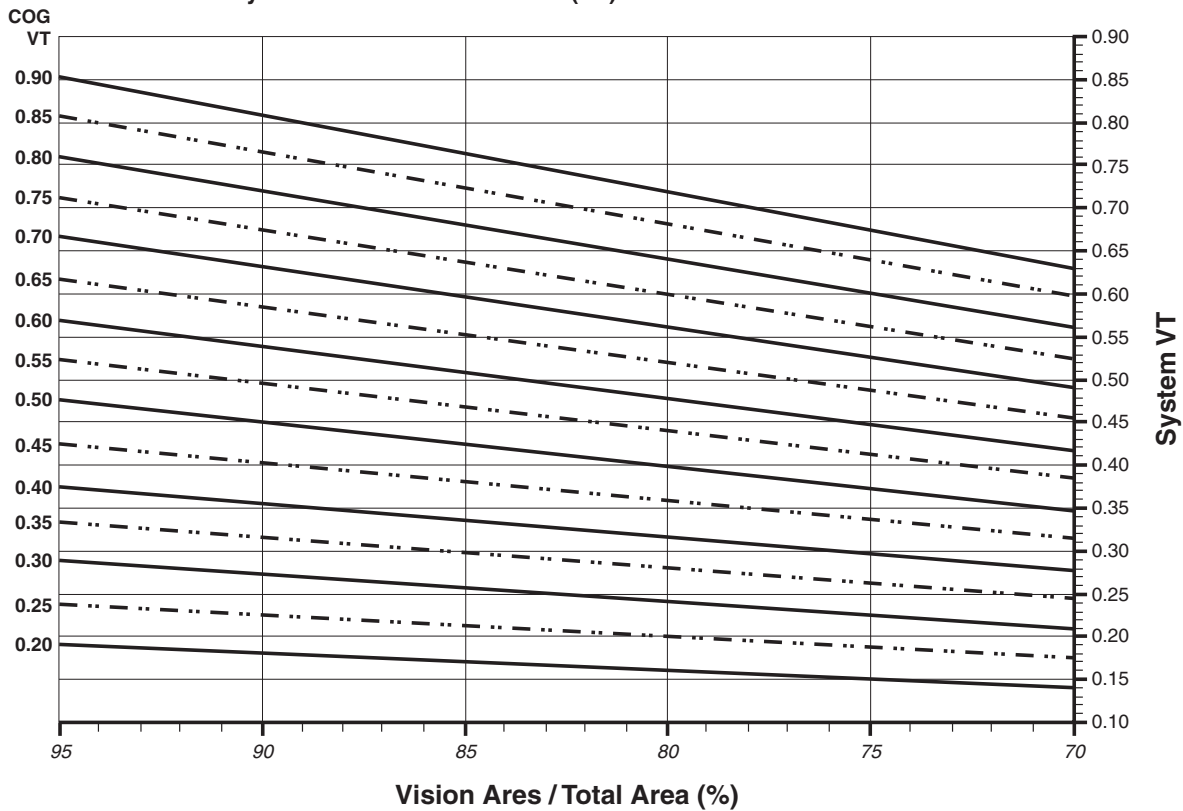
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System Solar Heat Gain Coefficient (SHGC) vs Percent of Vision Area



Charts are generated per AAMA 507.

System Visible Transmittance (VT) vs Percent of Vision Area



Charts are generated per AAMA 507.

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Thermal Transmittance ¹ (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 Matrix ²

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 Transmittance ²

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.

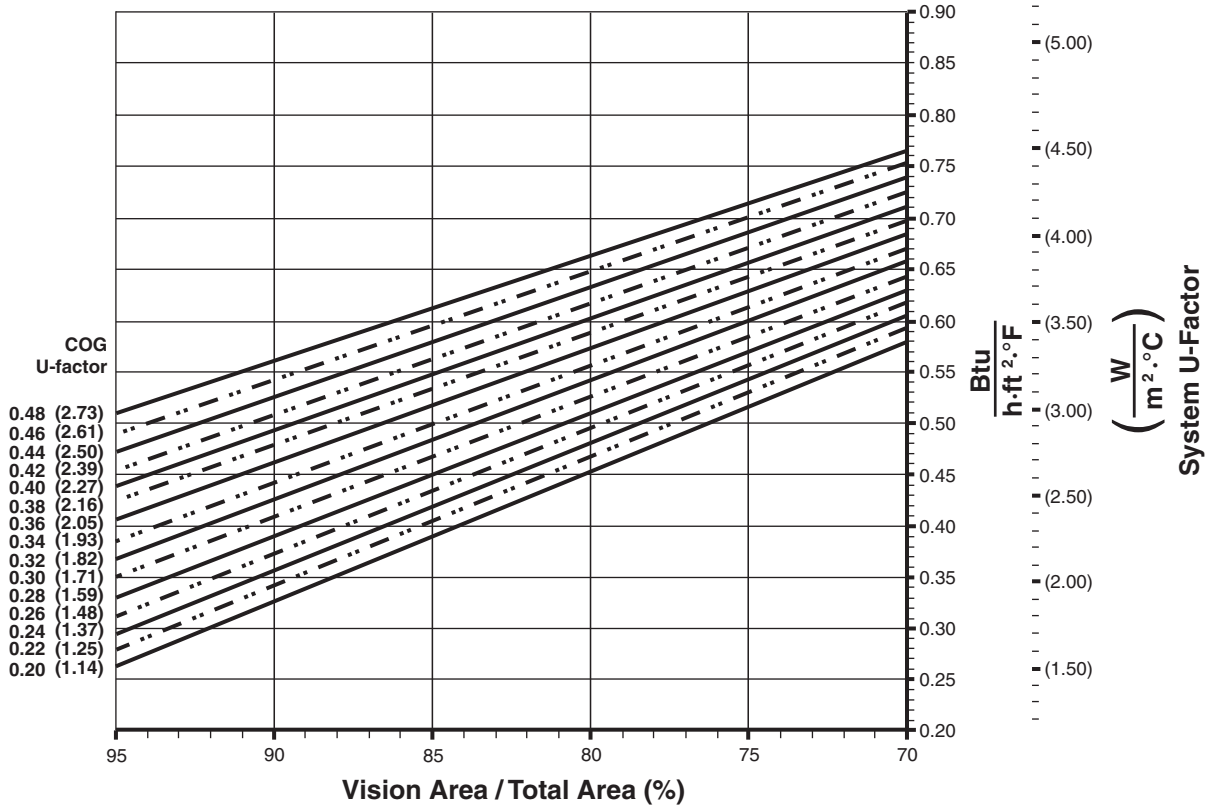
1. U-Factors are determined in accordance with NFRC 100.
2. SHGC and VT values are determined in accordance with NFRC 200.
3. Glass properties are based on center of glass values and are obtained from your glass supplier.
4. Overall U-Factor, SHGC, and VT Matrices are based on the standard NFRC specimen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

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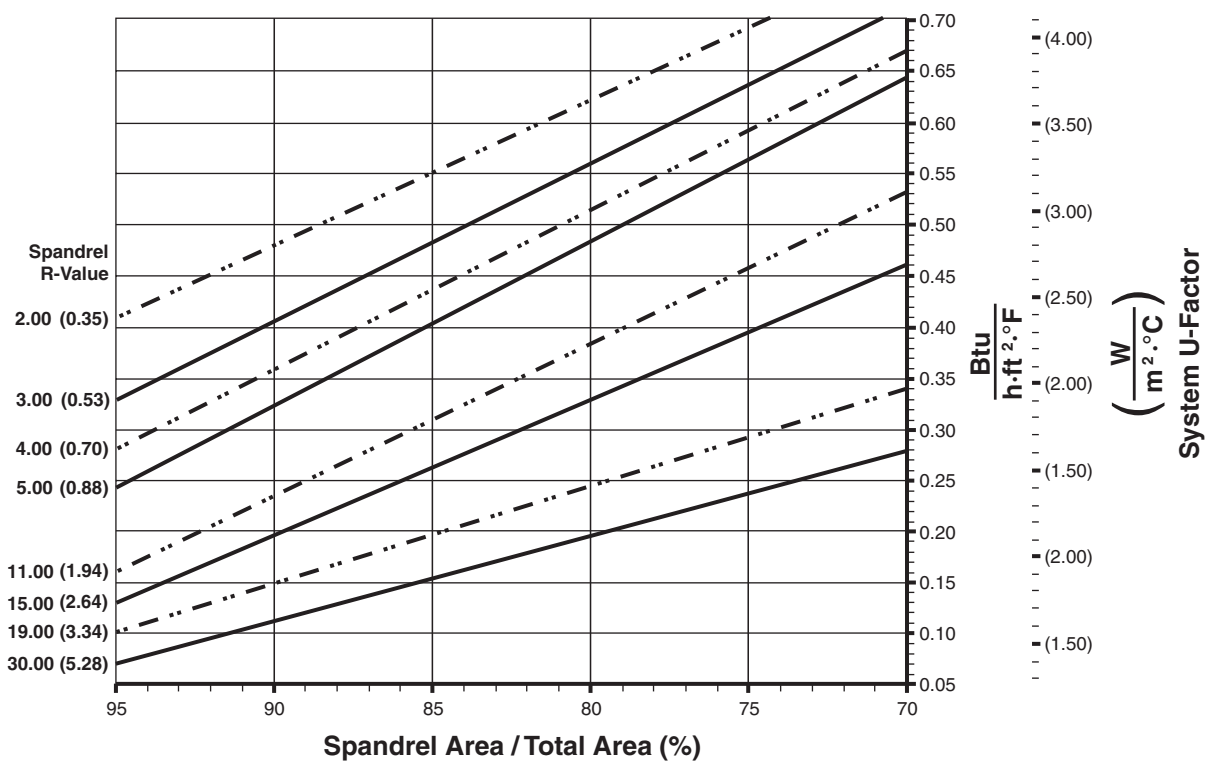
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Note:
 Values in parentheses are metric.
 COG=Center of Glass.
 Charts are generated per AAMA 507.

System U-Factor for Vision Glass



System U-Factors for Spandrel Glass

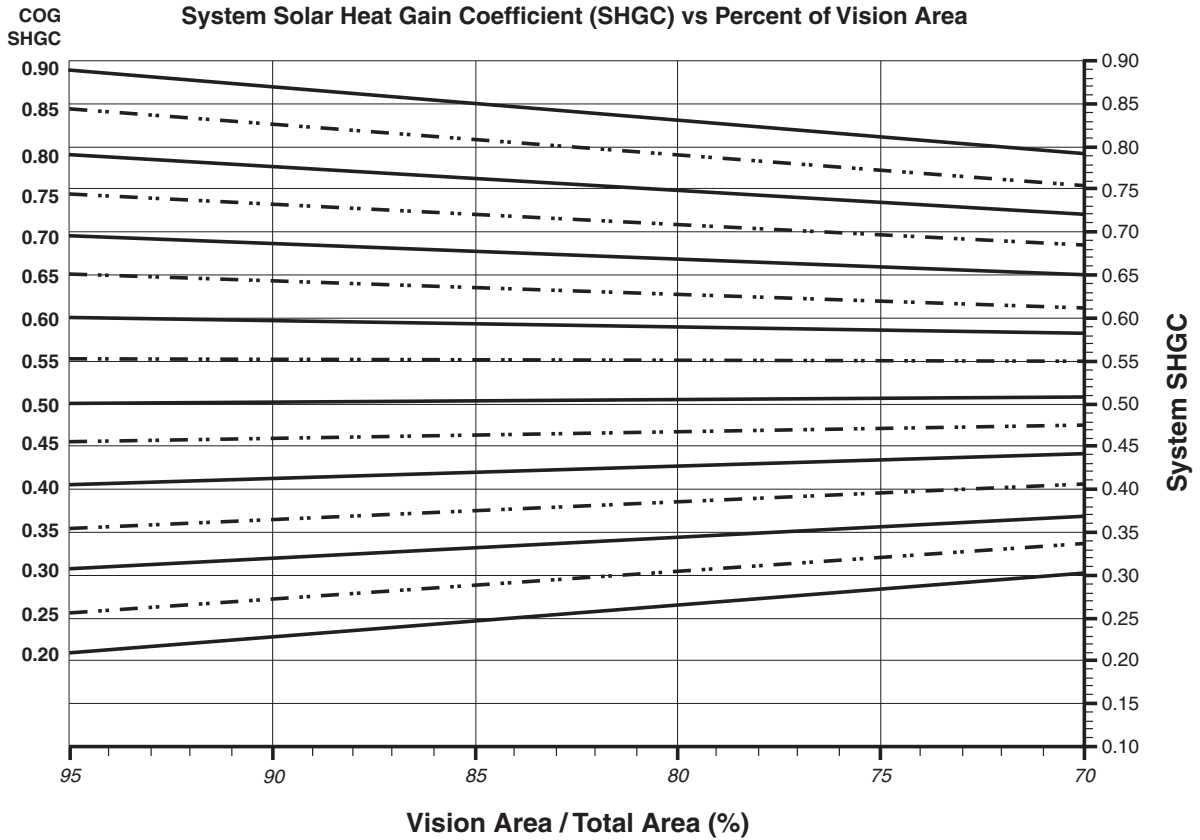


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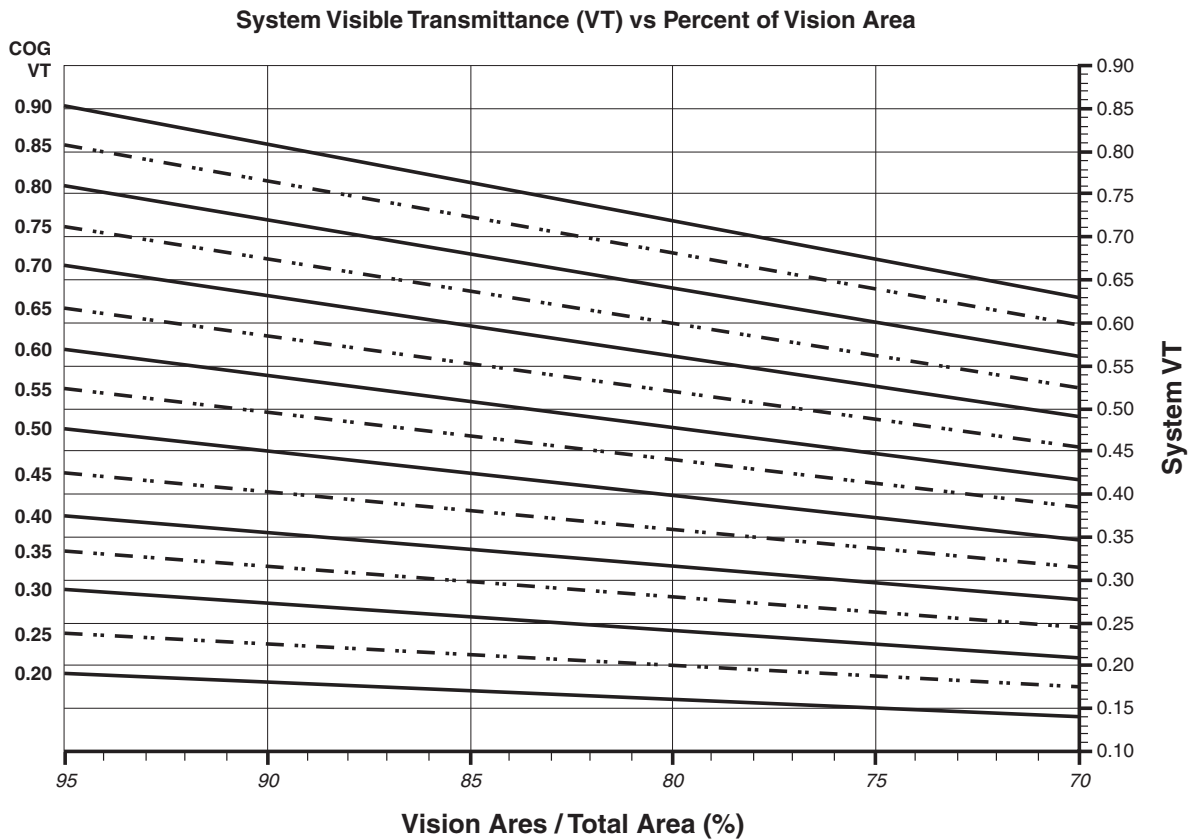
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0.28	0.39
0.26	0.37
0.24	0.36
0.22	0.34
0.20	0.32

SHGC Matrix²

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
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Visible Transmittance²

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
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