

Features

- 1600 Wall System®¹ is an outside glazed captured curtain wall
- 1600 Wall System®¹ has a 2-1/2" (63.5) sight line
- Standard 6" (152.4) or 7-1/2" (190.5) depth systems
- Infill options up to 1-1/8" (28.6)
- 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 available
- Offers integrated entrance framing systems
- Silicone compatible glazing materials for long-lasting seals
- 1600 Wall System®¹ has been small and large missile impact and cycle tested
- Two color option
- Permanodic® anodized finishes in 7 choices
- Painted finishes in standard and custom choices

Optional Features

- Steel reinforcing available
- Rain screen and backpans
- Optional deep profile and bull nose covers available
- Deep and heavy-weight mullions available
- Veneer system available
- Integrates with standard Kawneer windows and concealed GLASSvent™
- Integrates with 1600 SUNSHADE™ and 1600 POWERSHADE®

Product Applications

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

For specific product applications,
Consult your Kawneer representative.

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.

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:

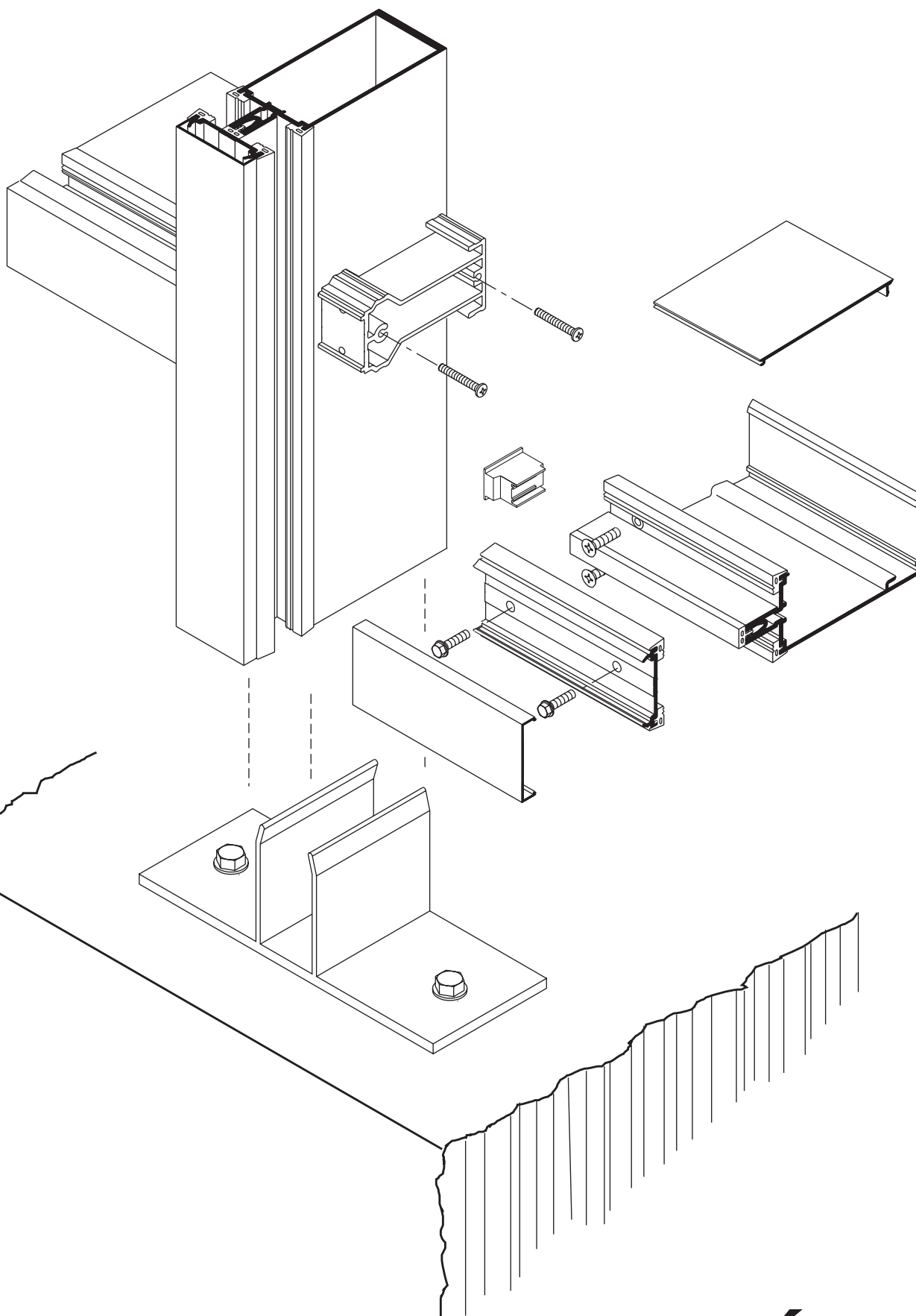
m – meter
 cm – centimeter
 mm – millimeter
 s – second
 Pa – pascal
 MPa – megapascal

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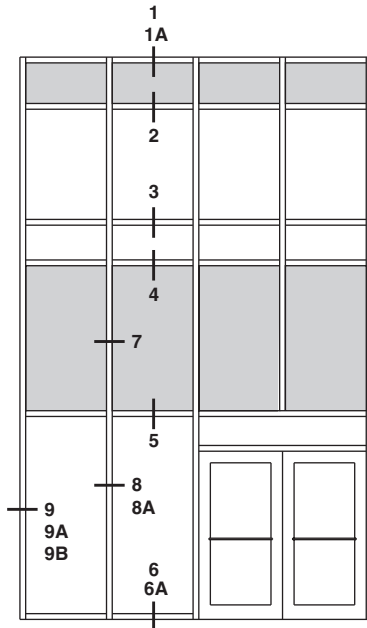


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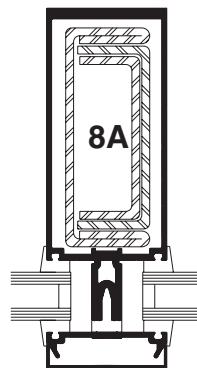
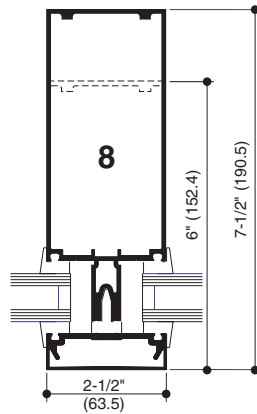
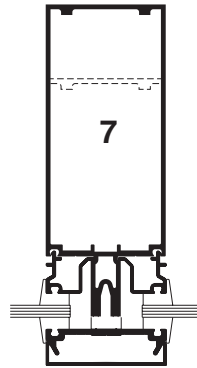
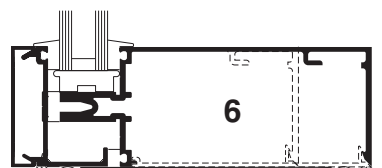
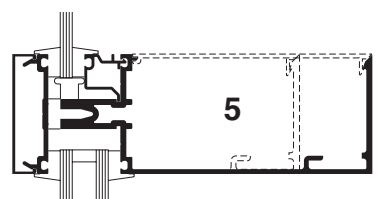
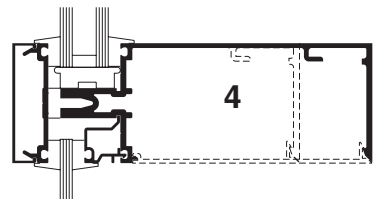
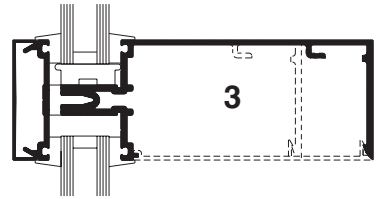
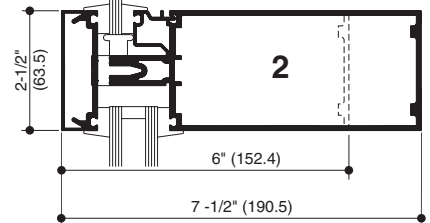
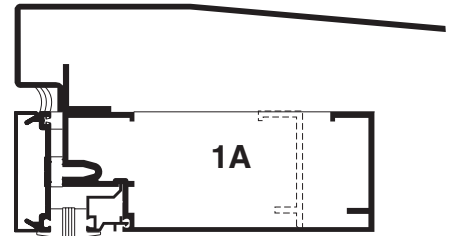
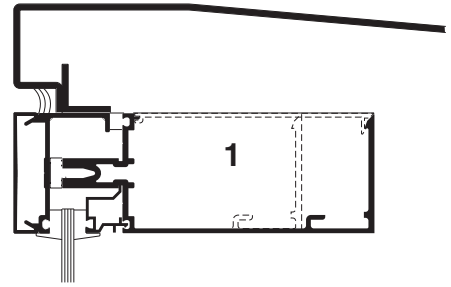
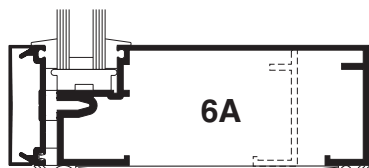
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SCALE 3" = 1'-0"



ELEVATION IS NUMBER KEYED TO DETAILS

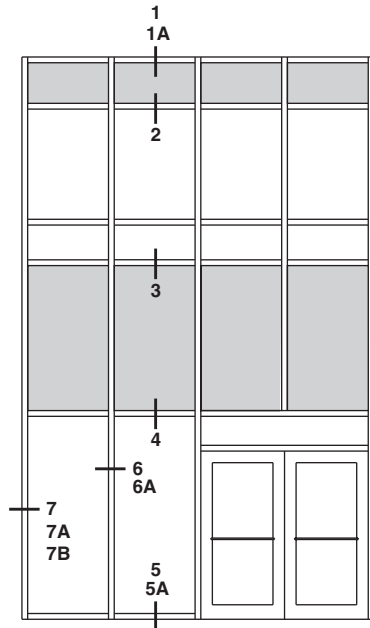
OPTIONAL STEEL
REINFORCING
AS REQUIRED

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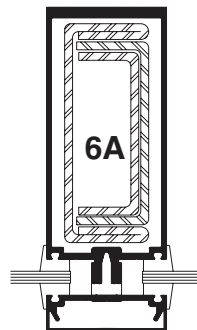
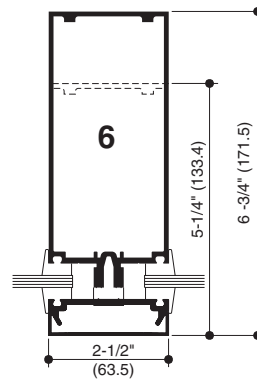
© Kawneer Company, Inc., 2010

SCALE 3" = 1'-0"

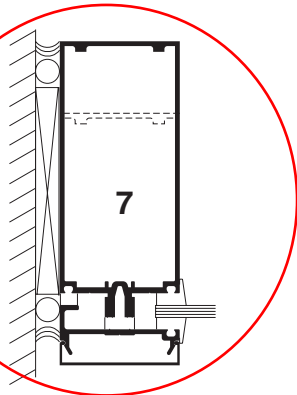
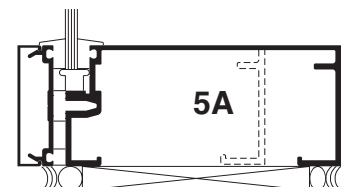
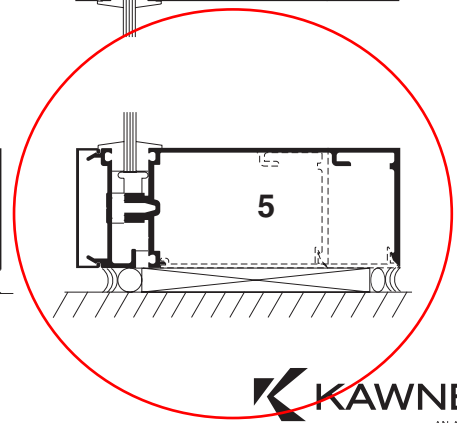
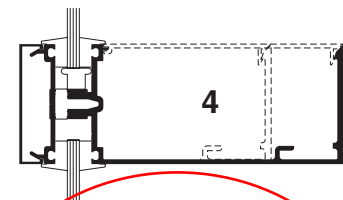
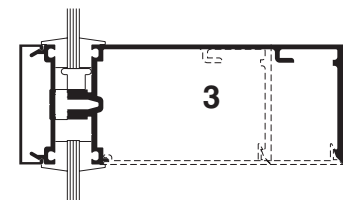
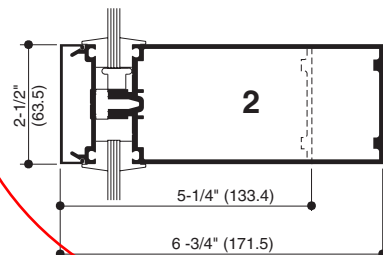
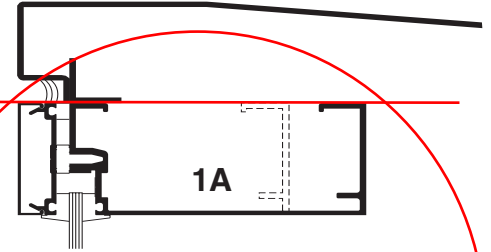
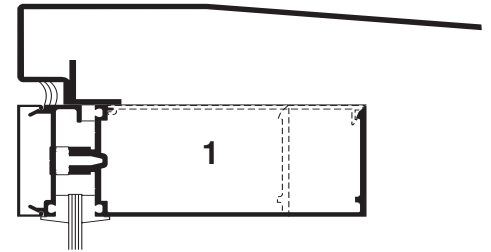


ELEVATION IS NUMBER KEYED TO DETAILS

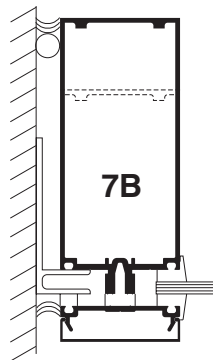
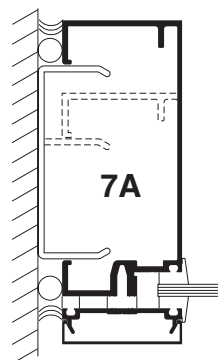
14' clg line



OPTIONAL STEEL
REINFORCING
AS REQUIRED



or 7A or 7B

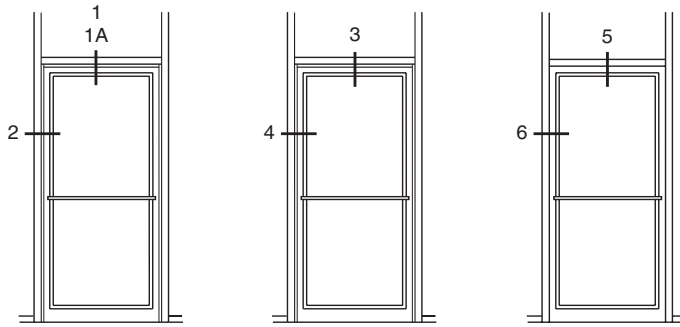


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SCALE 3" = 1'-0"

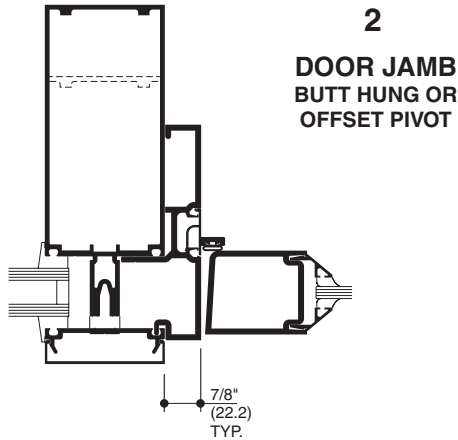


B/H OR O/P

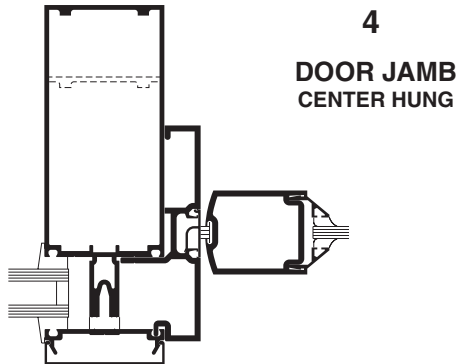
C/H

B/H OR O/P

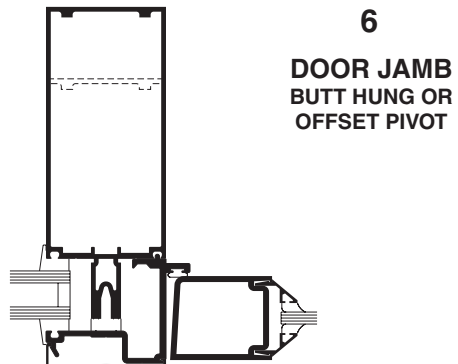
ELEVATION IS NUMBER KEYED TO DETAILS



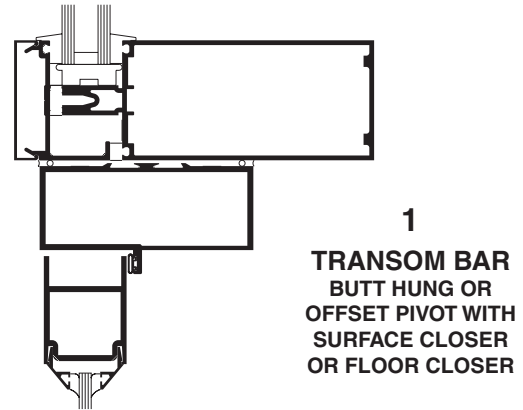
2

DOOR JAMB
BUTT HUNG OR
OFFSET PIVOT

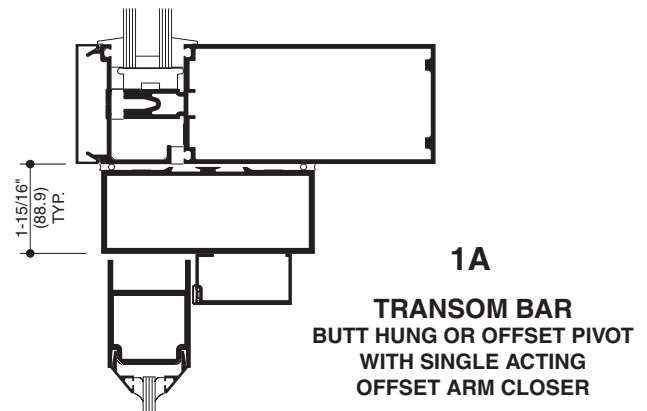
4

DOOR JAMB
CENTER HUNG

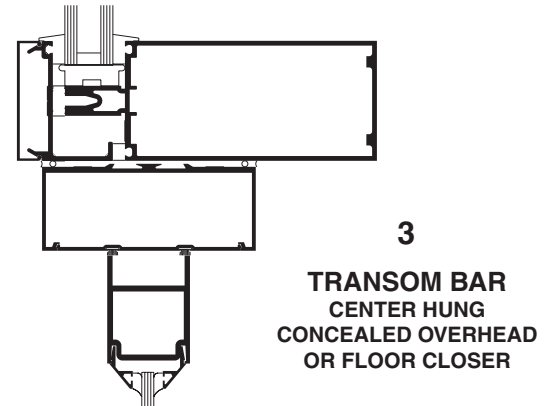
6

DOOR JAMB
BUTT HUNG OR
OFFSET PIVOT

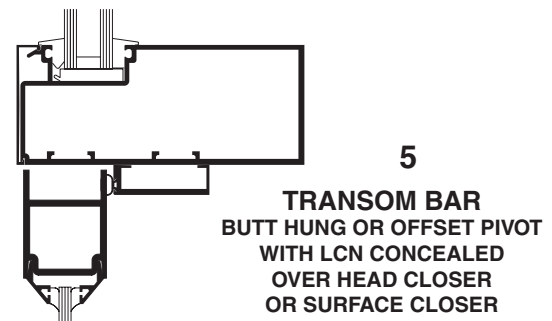
1

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

1A

TRANSOM BAR
BUTT HUNG OR OFFSET PIVOT
WITH SINGLE ACTING
OFFSET ARM CLOSER

3

TRANSOM BAR
CENTER HUNG
CONCEALED OVERHEAD
OR FLOOR CLOSER

5

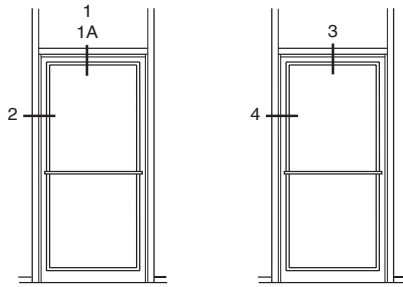
TRANSOM BAR
BUTT HUNG OR OFFSET PIVOT
WITH LCN CONCEALED
OVER HEAD CLOSER
OR SURFACE CLOSER

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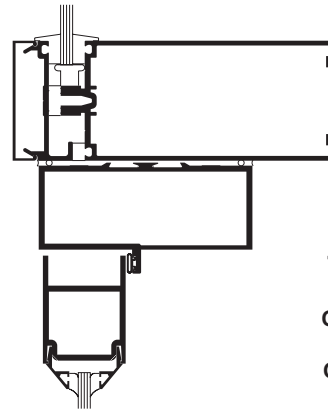
SCALE 3" = 1'-0"



B/H OR O/P

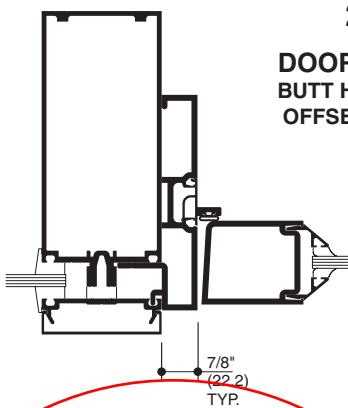
C/H

ELEVATION IS NUMBER KEYED TO DETAILS



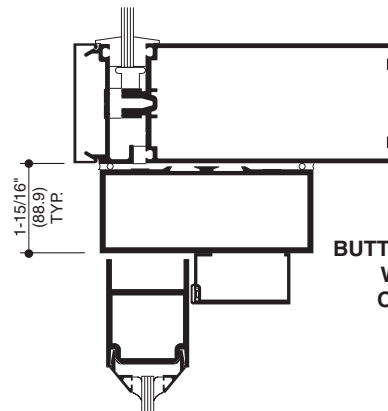
1

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



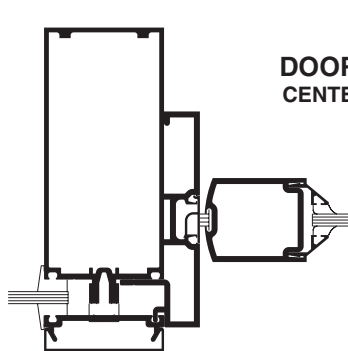
2

DOOR JAMB
BUTT HUNG OR
OFFSET PIVOT



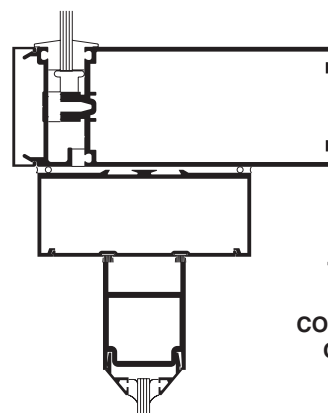
1A

TRANSOM BAR
BUTT HUNG OR OFFSET PIVOT
WITH SINGLE ACTING
OFFSET ARM CLOSER



4

DOOR JAMB
CENTER HUNG



3

TRANSOM BAR
CENTER HUNG
CONCEALED OVERHEAD
OR FLOOR CLOSER

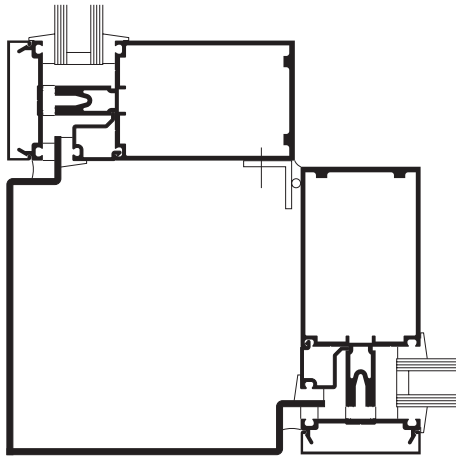
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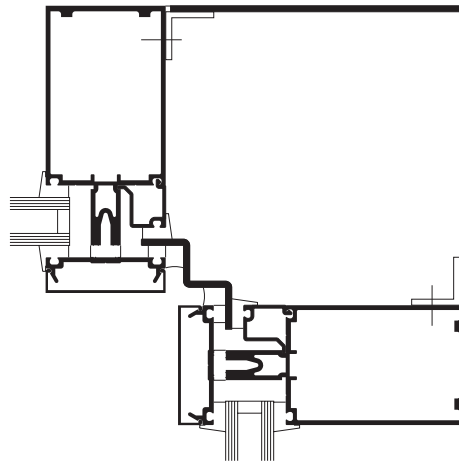
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SCALE 3" = 1'-0"

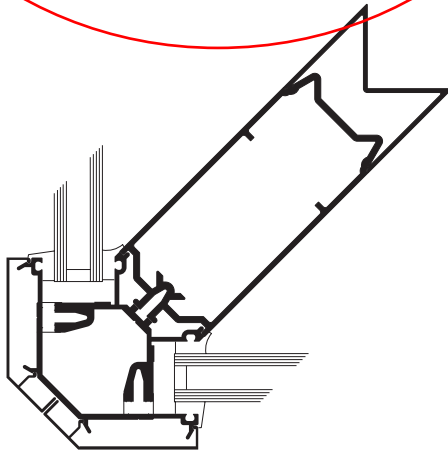
NOTE: 1" SYSTEM SHOWN, 1/4" SYSTEM SIMILAR.



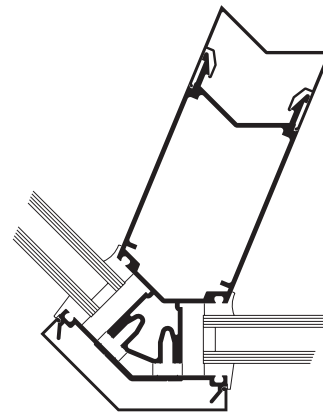
90° OUTSIDE CORNER



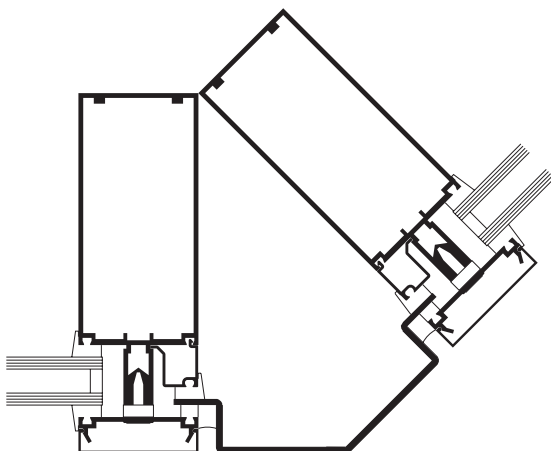
90° INSIDE CORNER



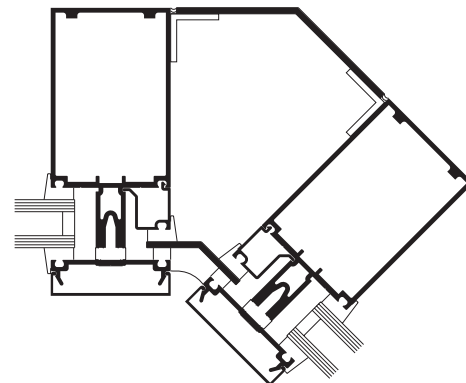
90° OUTSIDE CORNER



135° OUTSIDE CORNER



135° OUTSIDE CORNER



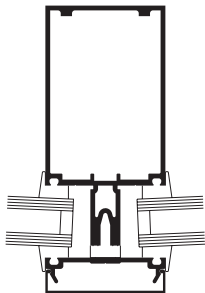
135° INSIDE CORNER

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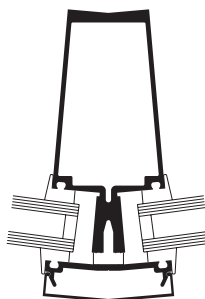
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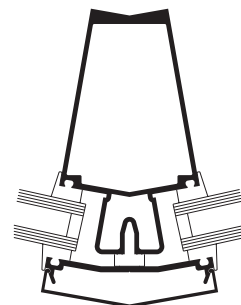
SCALE 3" = 1'-0"



0° TO 5°

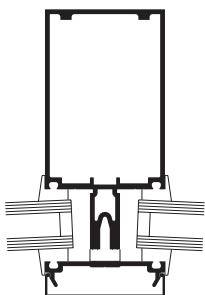


5° TO 15°

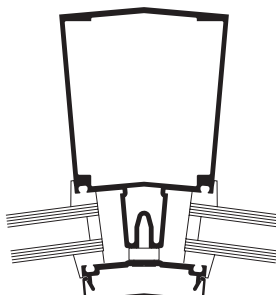


15° TO 25°

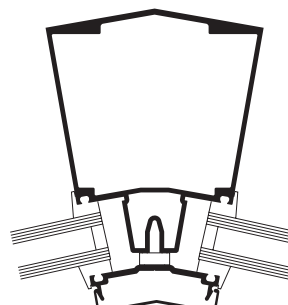
OUTSIDE SPAYED MULLIONS



0° TO 5°



5° TO 15°



15° TO 25°

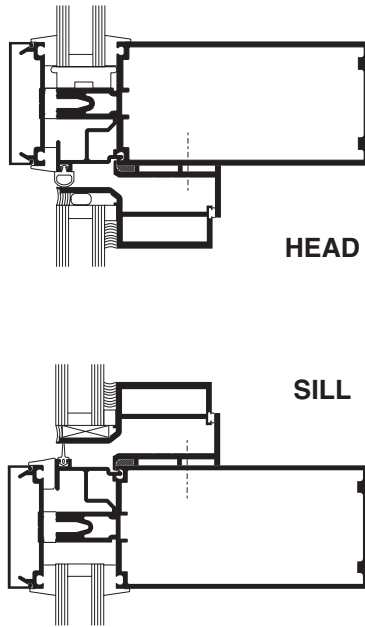
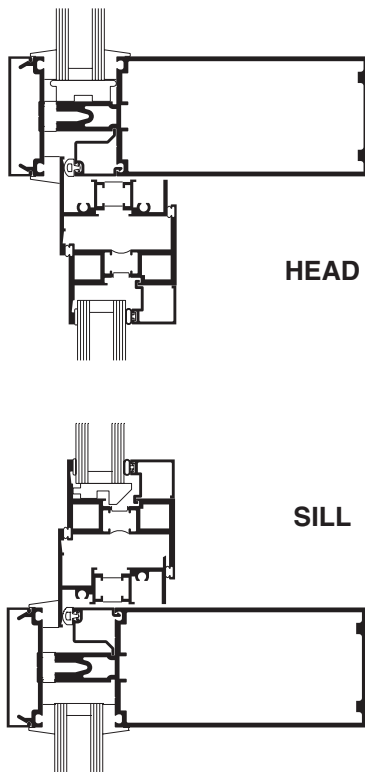
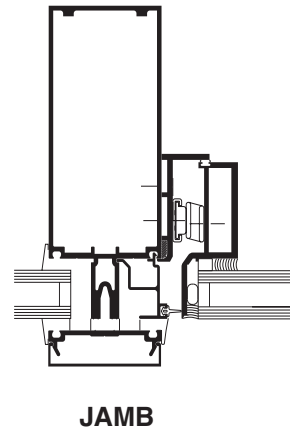
INSIDE SPAYED MULLIONS

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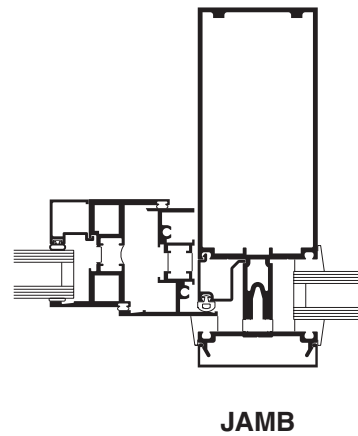
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SCALE 3" = 1'-0"

**1600 GLASSVENT****8225 TL WINDOWS**

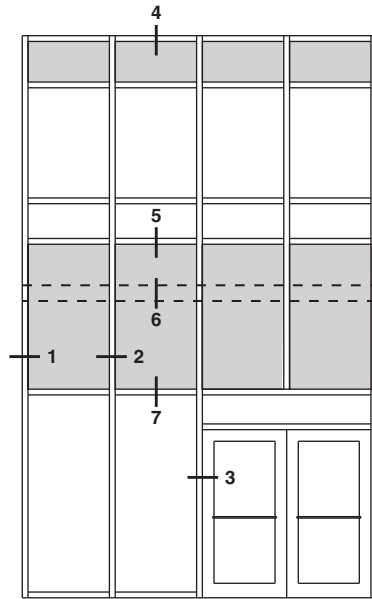
NOTE: Other vent types can be accommodated. Contact your Kawneer representative for other options.



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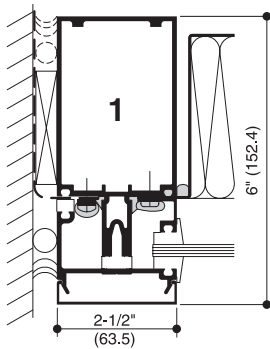
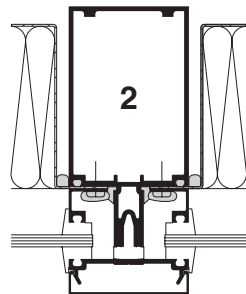
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SCALE 3" = 1'-0"

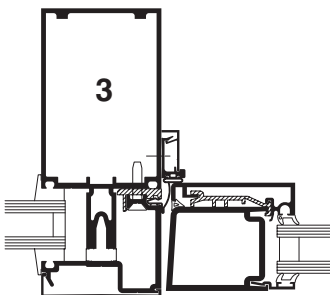
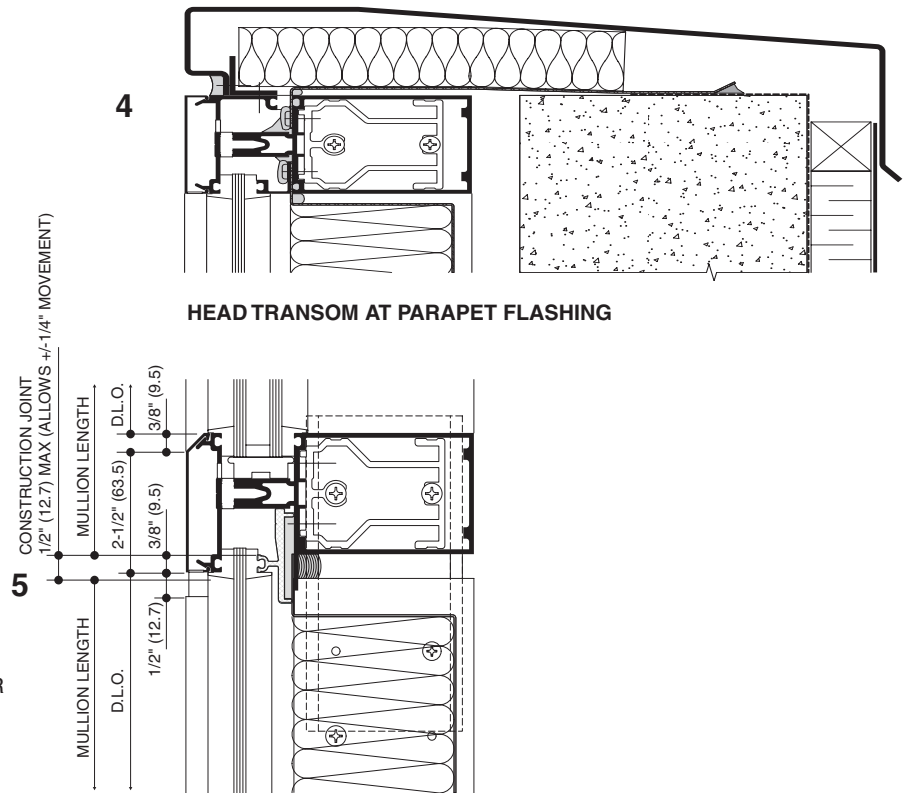


ELEVATION IS NUMBER KEYED TO DETAILS

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

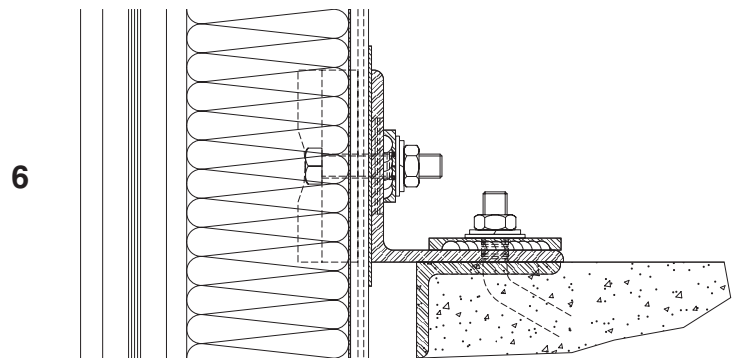
JAMB MULLION
AT SPANDREL

MULLION AT SPANDREL

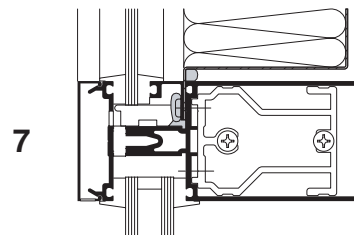
THERMALLY BROKEN DOOR ADAPTOR
FOR INSULCLAD DOORS

HEAD TRANSOM AT PARAPET FLASHING

EXPANSION JOINT



TYPICAL DEADLOAD ANCHOR



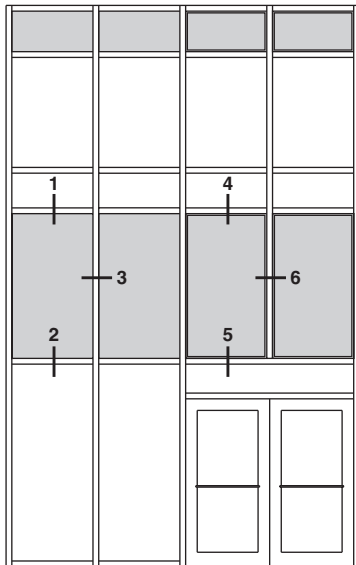
TRANSOM - SPANDREL OVER VISION

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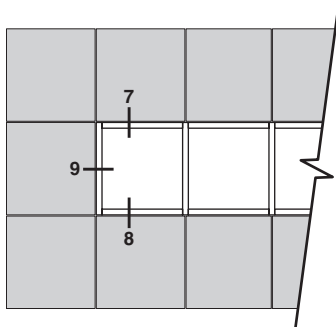
ELEVATION IS NUMBER KEYED TO DETAILS

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

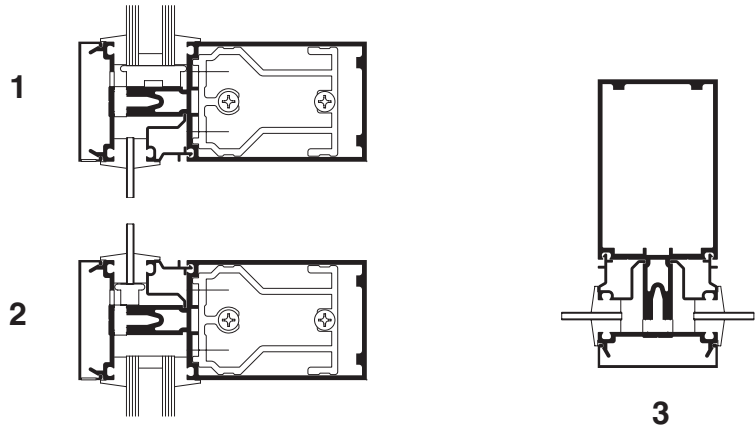
*Reynobond ACM (Aluminum Composite Material) is manufactured by Alcoa Cladding Systems.

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.

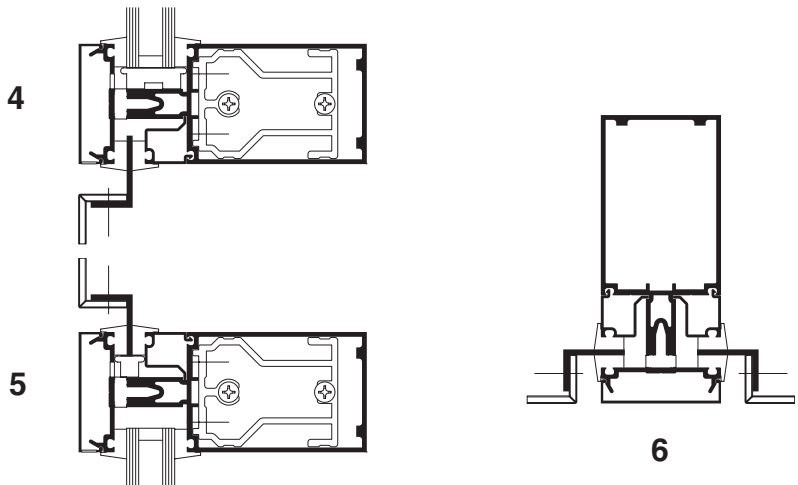
For additional information on Reynobond contact 770-840-6456.

**GLAZED-IN PANEL**

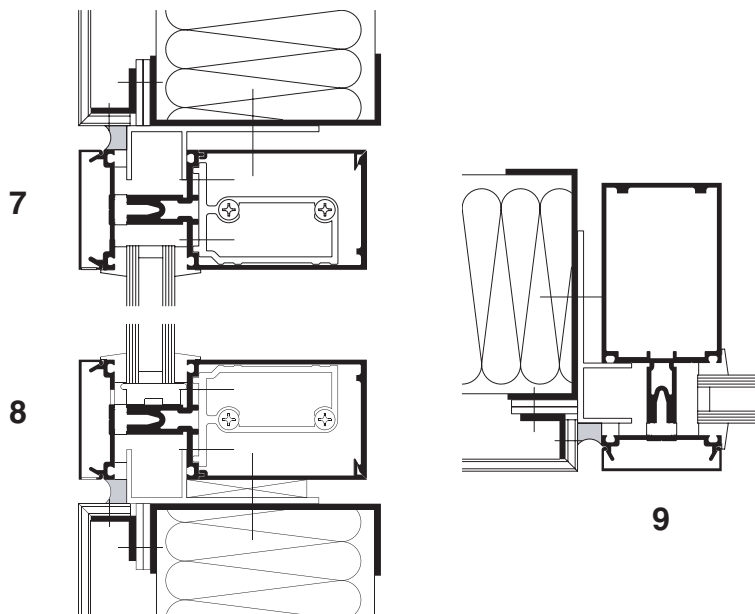
- PRIME SEALED SHOWN WITH 4.0mm REYNOBOND PANEL, 6.0mm SIMILAR.
- RAIN SCREEN, PRESSURE EQUALIZED (BACKPAN) OPTIONAL

**FLUSH PANEL**

- PRIME SEALED SHOWN WITH 4.0mm REYNOBOND PANEL, 6.0mm SIMILAR.
- RAIN SCREEN, PRESSURE EQUALIZED (BACKPAN) OPTIONAL

**PUNCHED OPENING / RIBBON WINDOW INTEGRATION**

- SHOWN WITH 6.0mm REYNOBOND PANEL, 4.0mm SIMILAR.



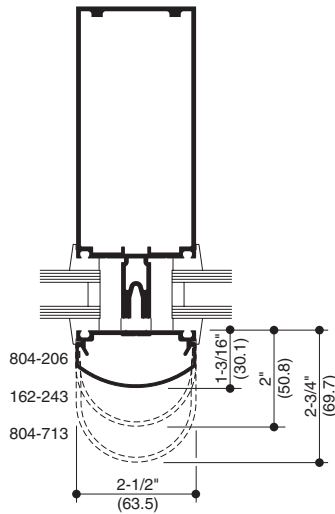
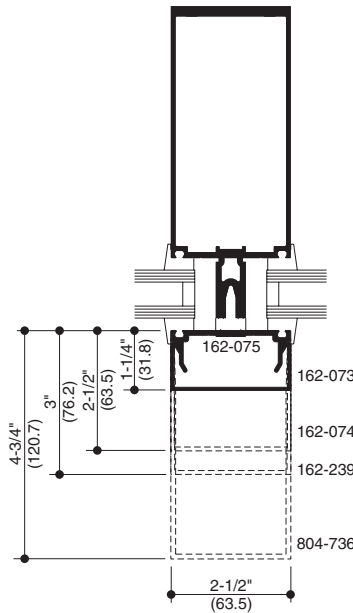
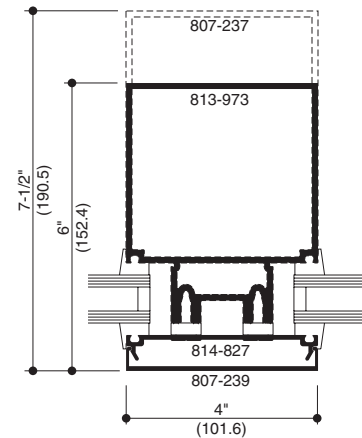
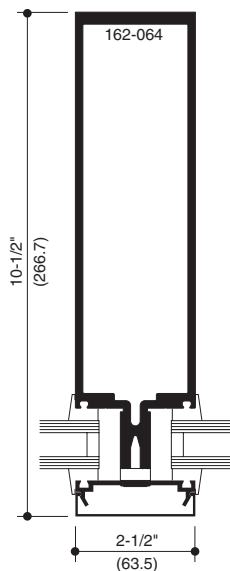
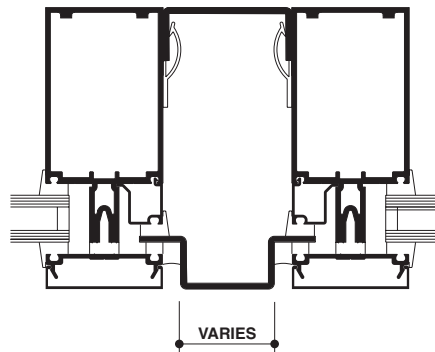
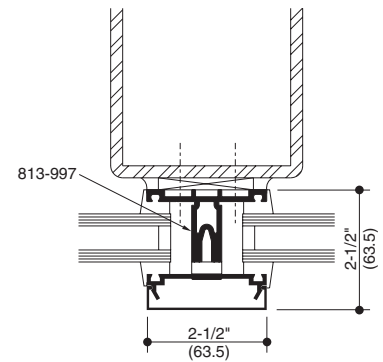
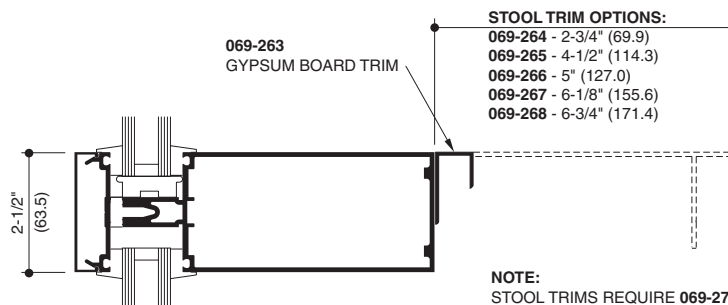
Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

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

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SCALE 3" = 1'-0"

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.

**OPTIONAL COVERS****OPTIONAL COVERS****4" SIGHT LINE****DEEP MULLION****DOUBLE MULLION****VENEER SYSTEM****INTERIOR STOOL TRIM****STOOL TRIM OPTIONS:**

069-264 - 2-3/4" (69.9)

069-265 - 4-1/2" (114.3)

069-266 - 5" (127.0)

069-267 - 6-1/8" (155.6)

069-268 - 6-3/4" (171.4)

069-263
GYPSUM BOARD TRIM

NOTE:
STOOL TRIMS REQUIRE 069-271 TRIM CLIP PACKAGE

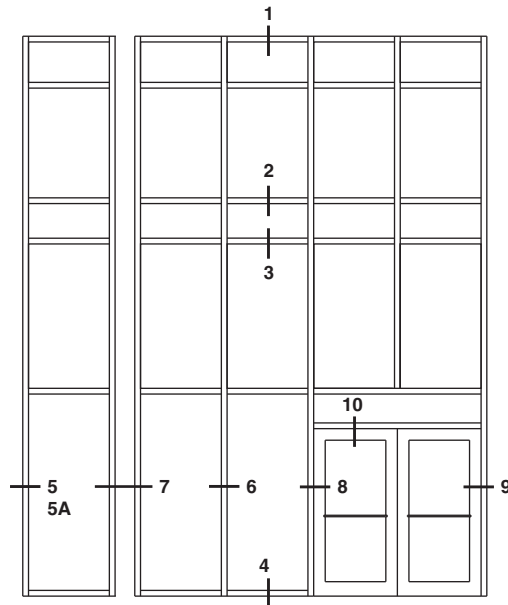
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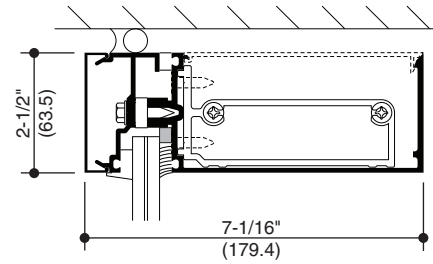
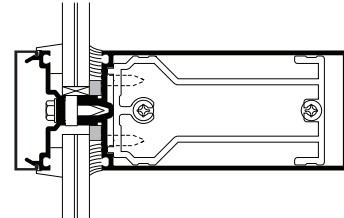
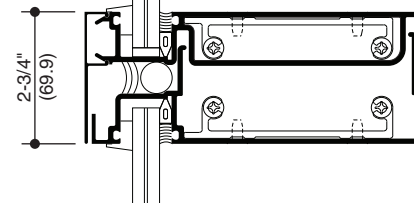
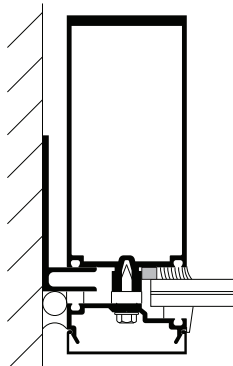
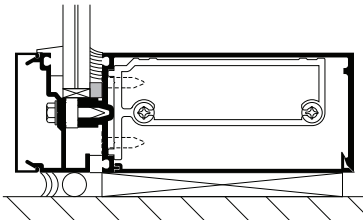
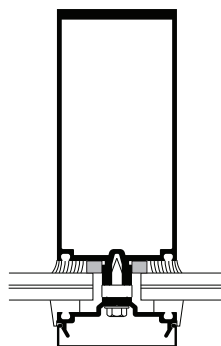
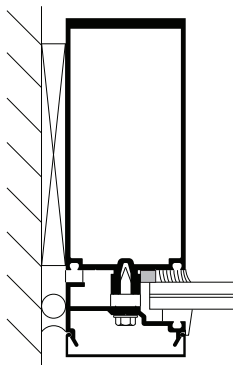
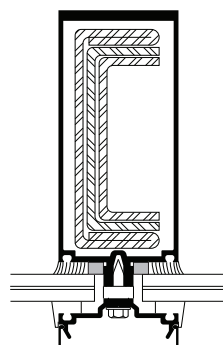
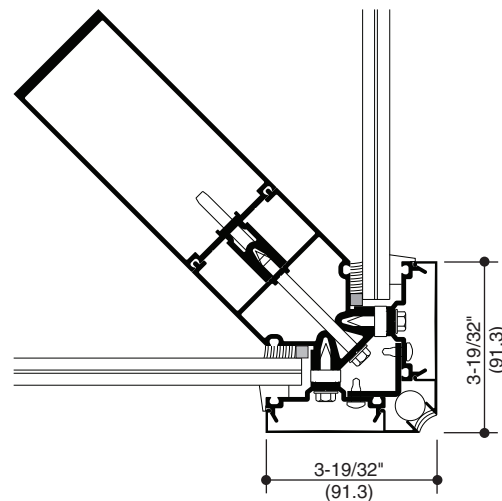
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SCALE 3" = 1'-0"

NOTE: DETAILS SHOWN WITH 9/16" INFILL AND ARE GLAZED FOR FOR LARGE MISSILE IMPACT (LMI).
SEE NEXT PAGE FOR OTHER GLAZING OPTIONS.



ELEVATION IS NUMBER KEYED TO DETAILS

1
HEAD2
HORIZONTAL3
EXPANSION
HORIZONTAL4
SILL5
JAMB6
VERTICAL5A
JAMBOPTIONAL STEEL
REINFORCING
AS REQUIRED7
90° CORNER

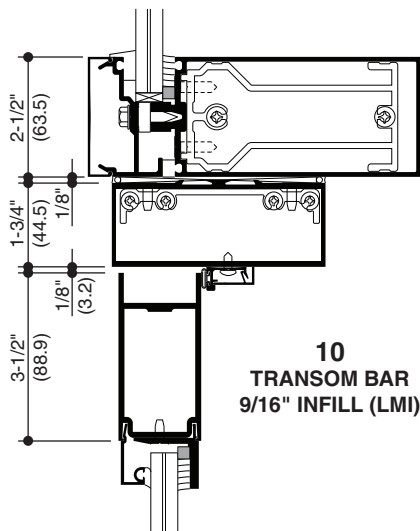
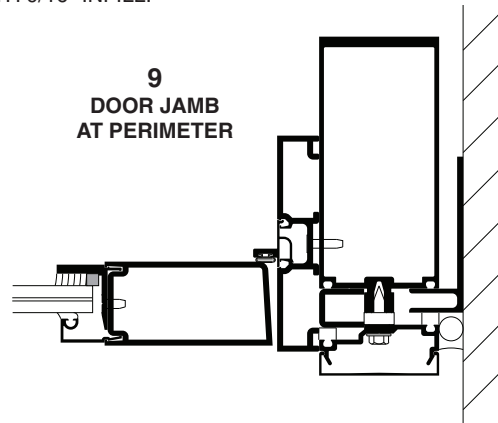
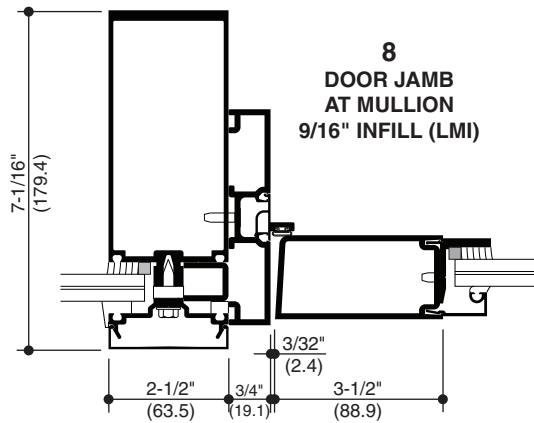
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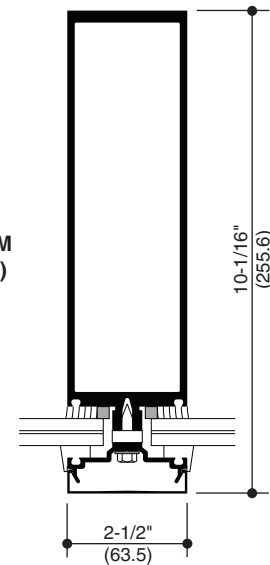
© Kawneer Company, Inc., 2010

SCALE 3" = 1'-0"

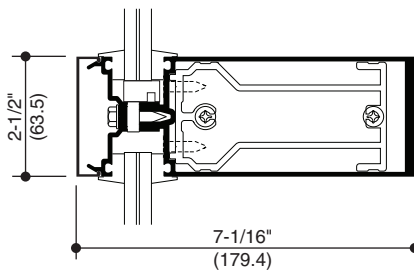
NOTE: 350 IR DOORS ARE USED WITH IMPACT FRAMING.
DOORS ARE GLAZED WITH 9/16" INFILL.



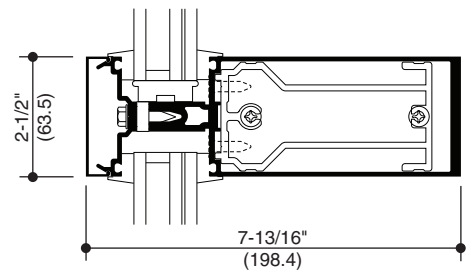
OPTIONAL
10" DEEP SYSTEM
9/16" INFILL (LMI)

**GLAZING OPTIONS**

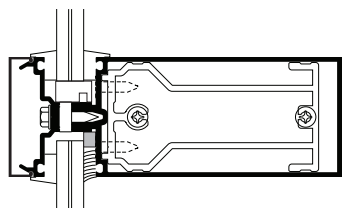
9/16" INFILL (SMI)
SMALL MISSILE
IMPACT



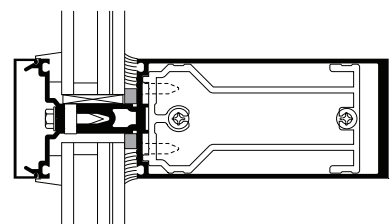
1-5/16" INFILL (SMI)
SMALL MISSILE
IMPACT



9/16" INFILL (SMI)
OVER
9/16" INFILL (LMI)



1-5/16" INFILL (LMI)
LARGE MISSILE
IMPACT

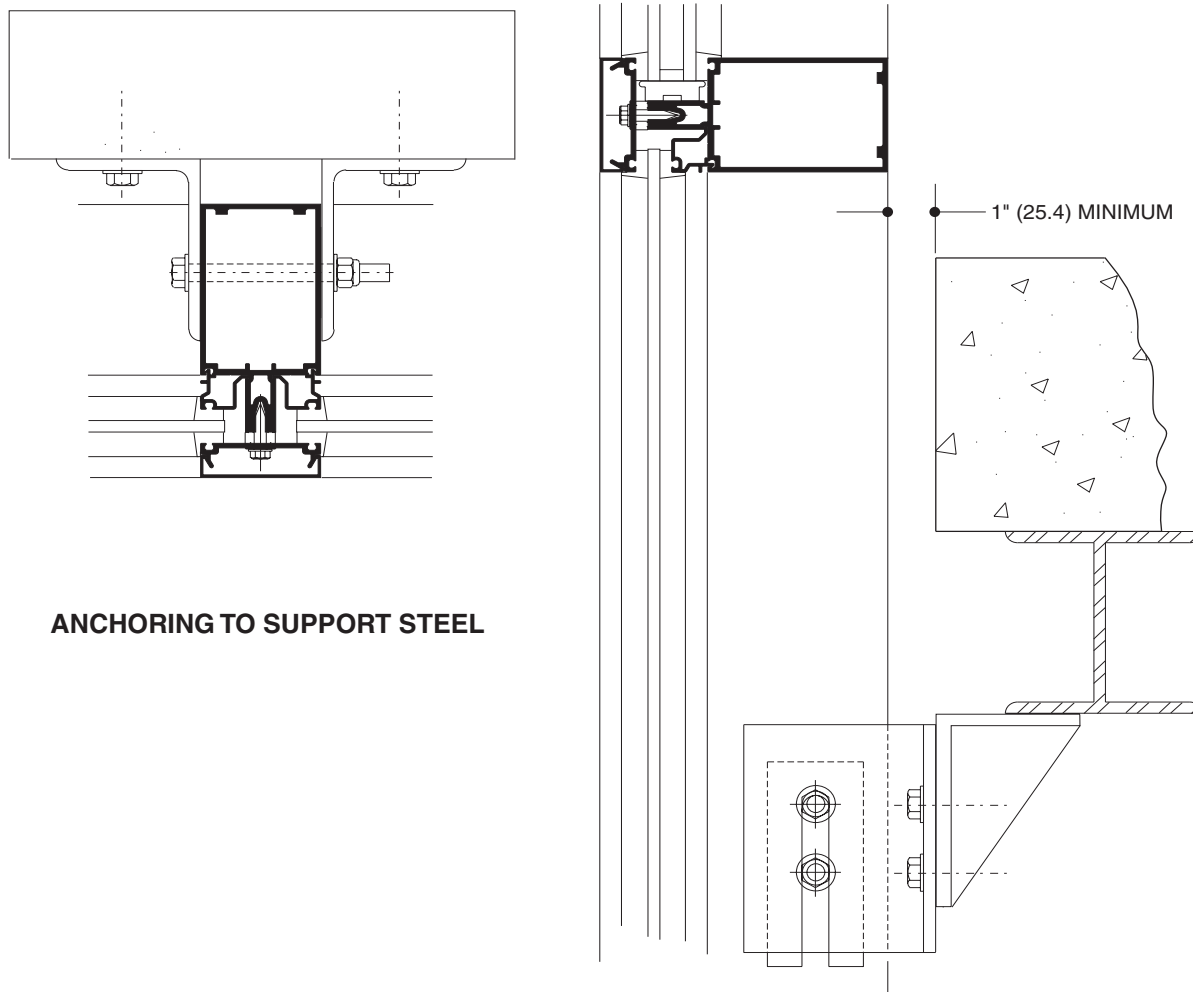
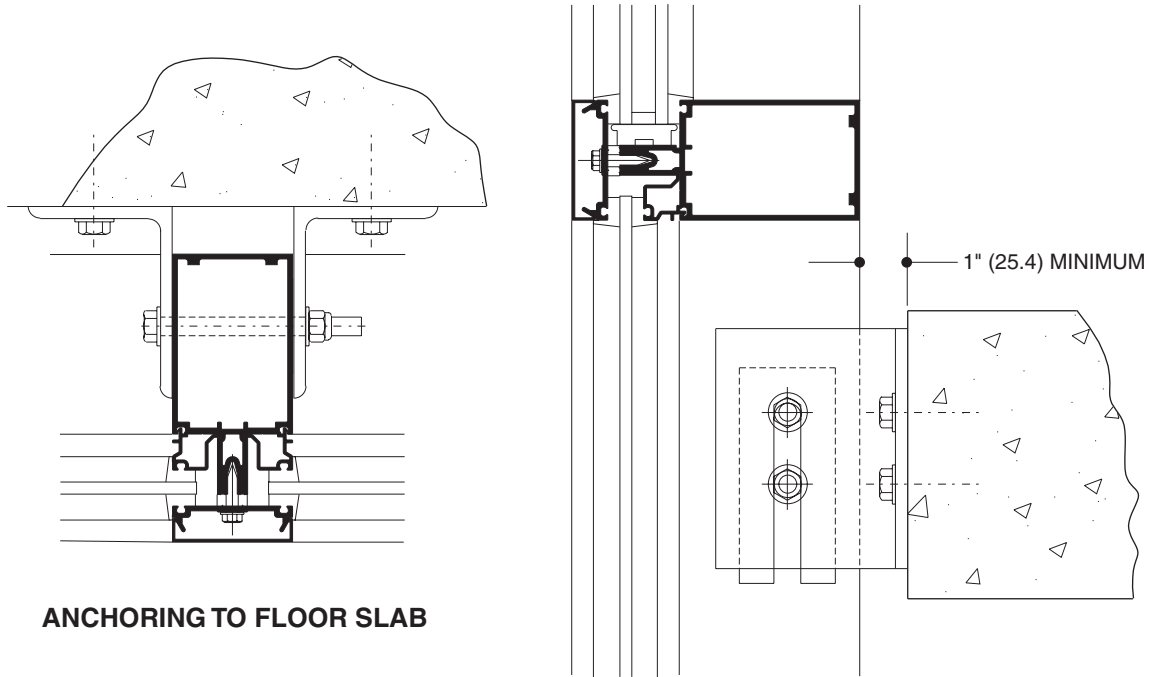


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Actual project conditions will determine specific anchor design. Details on this page are for reference only.

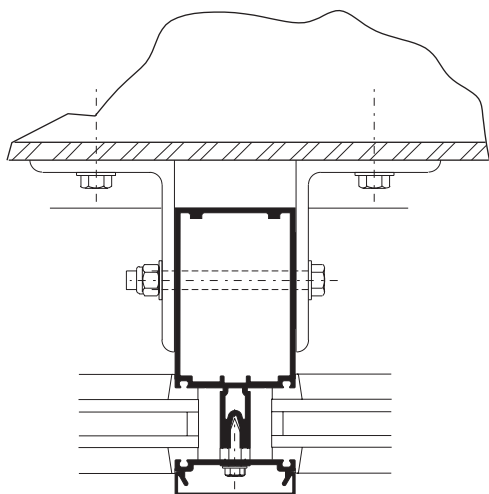


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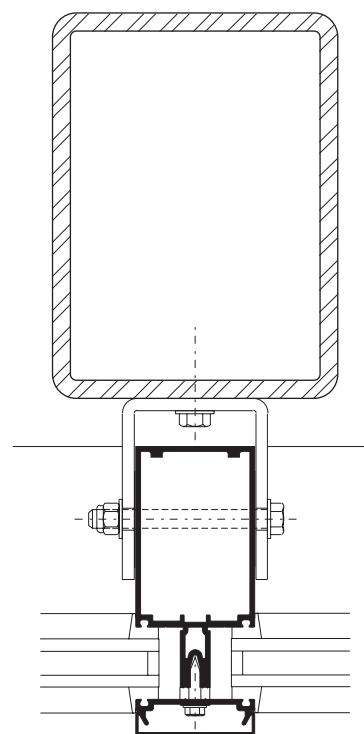
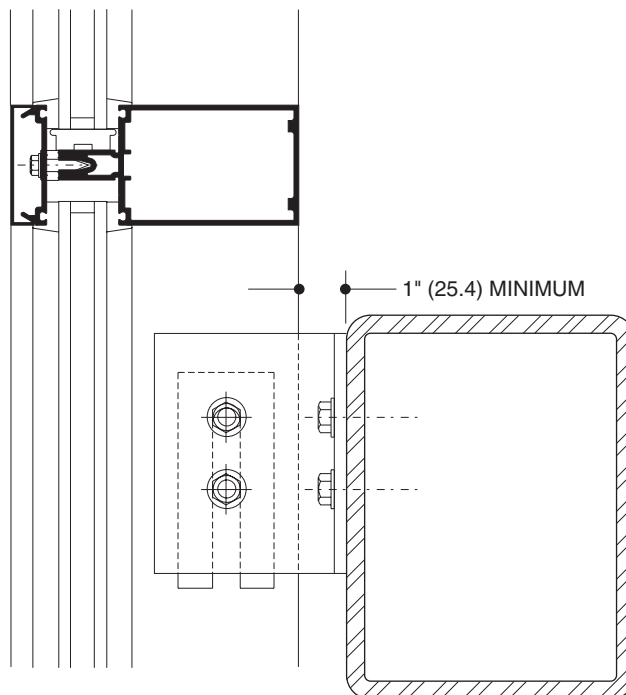
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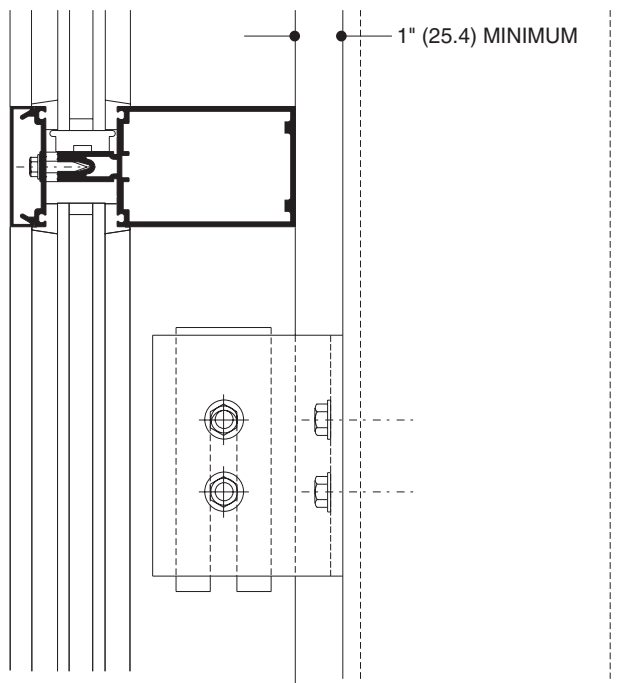
Actual project conditions will determine specific anchor design. Details on this page are for reference only.



**ANCHORING TO HORIZONTAL
STRUCTURAL STEEL**



**ANCHORING TO VERTICAL
STRUCTURAL STEEL**



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WIND LOAD CHARTS

Mullions are designed for deflection limitations in accordance with AAMA TIR-A11 of L/175 up to 13'-6" and L/240 +1/4" above 13'-6". These curves are for mullions WITH HORIZONTALS and are based on engineering calculations for stress and deflection. Allowable wind load stress for ALUMINUM 15,152 p.s.i. (104MPa), STEEL 30,000 p.s.i. (207MPa.). 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.

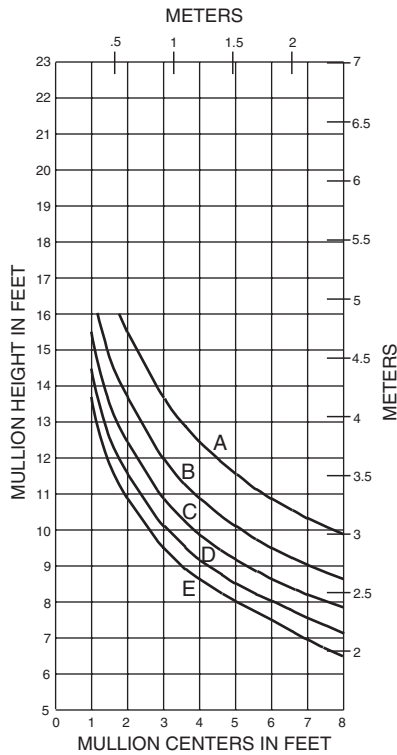
DEADLOAD CHARTS

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" (6.35) thick glass supported on two setting blocks placed at the loading points shown.

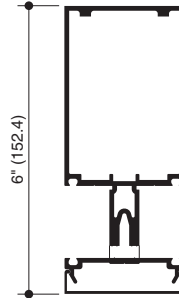
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SINGLE SPAN



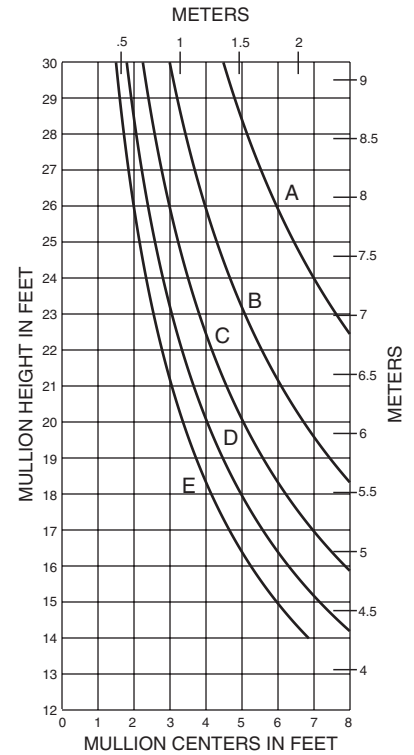
A = 20 PSF (960)
 B = 30 PSF (1440)
 C = 40 PSF (1920)
 D = 50 PSF (2400)
 E = 60 PSF (2880)



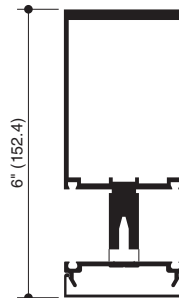
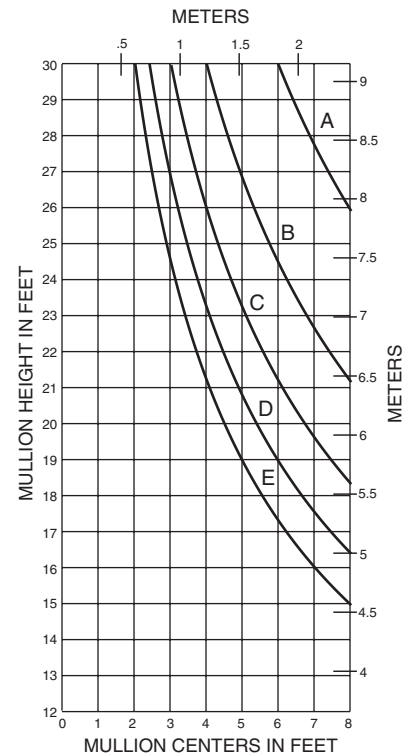
162-001

$I = 5.035(209.57 \times 10^4)$
 $S = 1.993(32.66 \times 10^3)$

TWIN SPAN



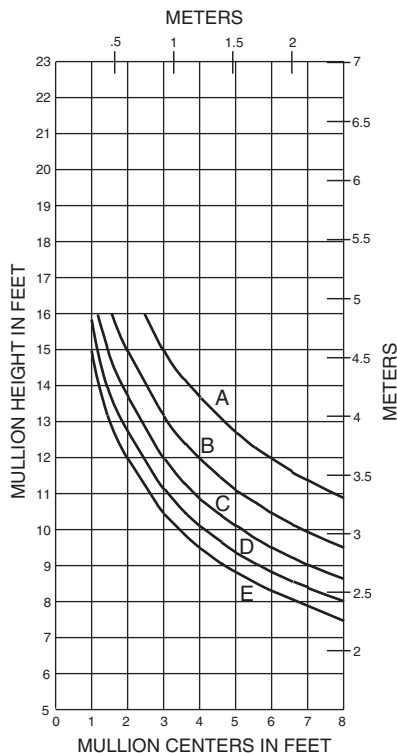
TWIN SPAN



162-002

$I = 6.779(282.16 \times 10^4)$
 $S = 2.652(43.46 \times 10^3)$

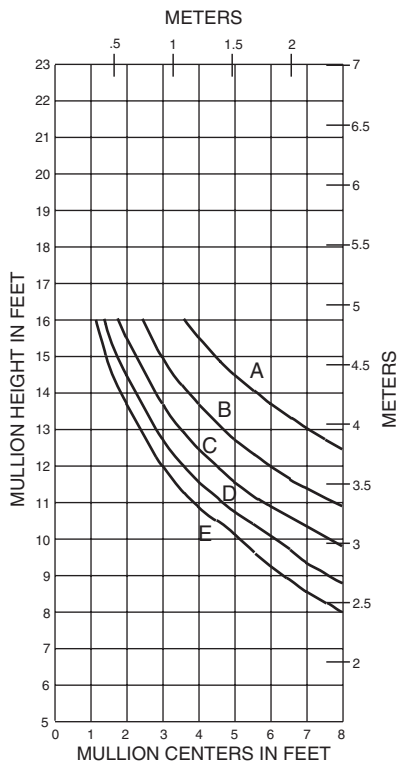
SINGLE SPAN



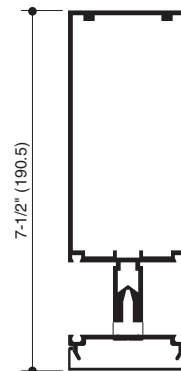
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SINGLE SPAN



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

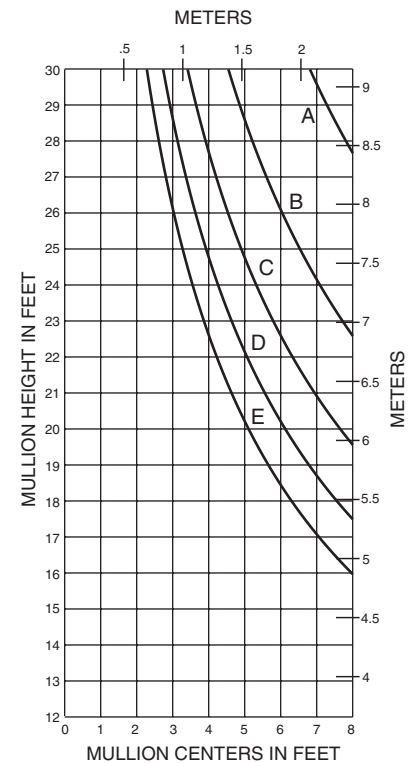


162-003

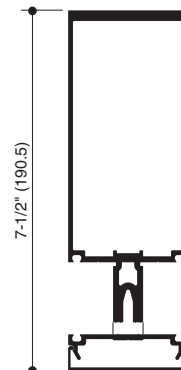
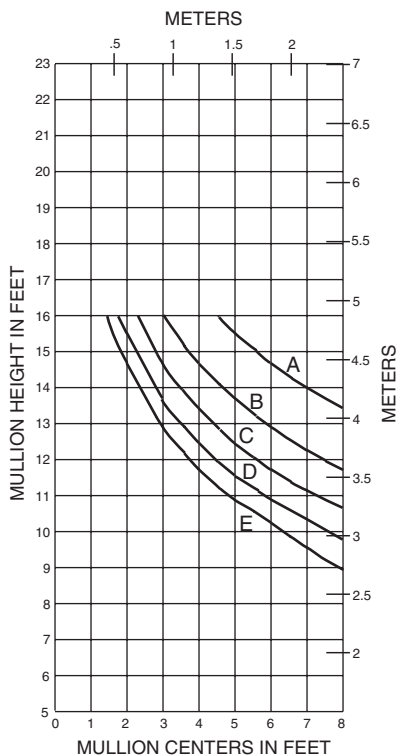
I = 10.135(421.85 x 10⁴)
 S = 3.027(49.60 x 10³)



TWIN SPAN



SINGLE SPAN

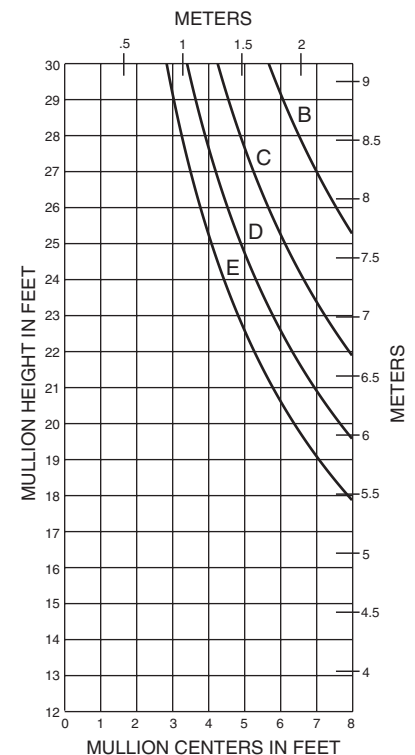


162-004

I = 12.736(530.11 x 10⁴)
 S = 3.791(62.12 x 10³)



TWIN SPAN



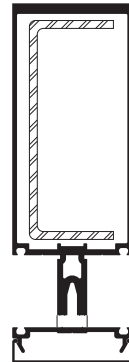
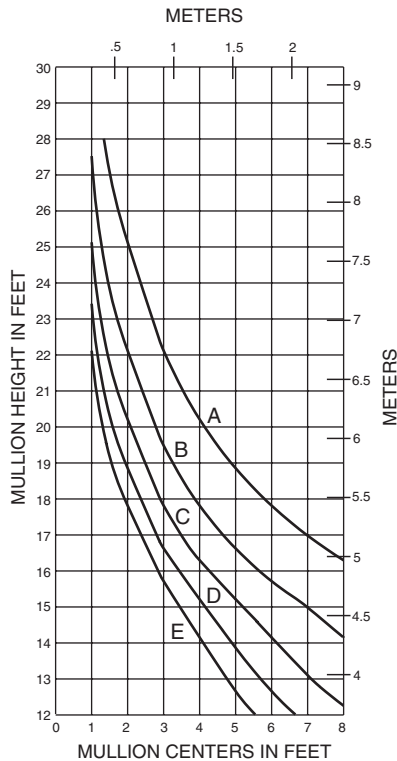
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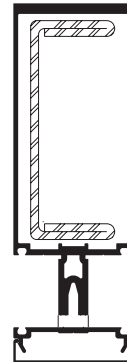
SINGLE SPAN

162-004 W/162-300



162-004
W/162-300

$I_a = 12.736(530.11 \times 10^4)$
 $S_a = 3.791(62.12 \times 10^3)$
 $I_s = 3.805(158.37 \times 10^4)$
 $S_s = 1.669(27.35 \times 10^3)$

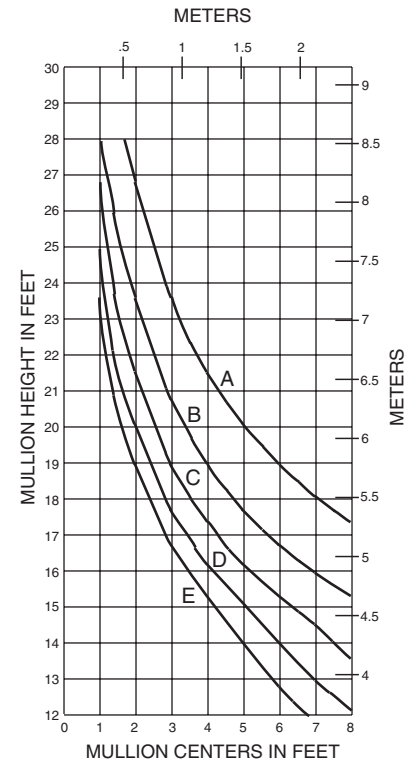


162-004
W/162-301

$I_a = 12.736(530.11 \times 10^4)$
 $S_a = 3.791(62.12 \times 10^3)$
 $I_s = 5.684(236.59 \times 10^4)$
 $S_s = 2.493(40.85 \times 10^3)$

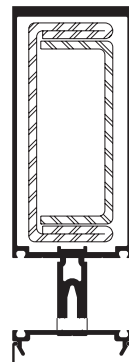
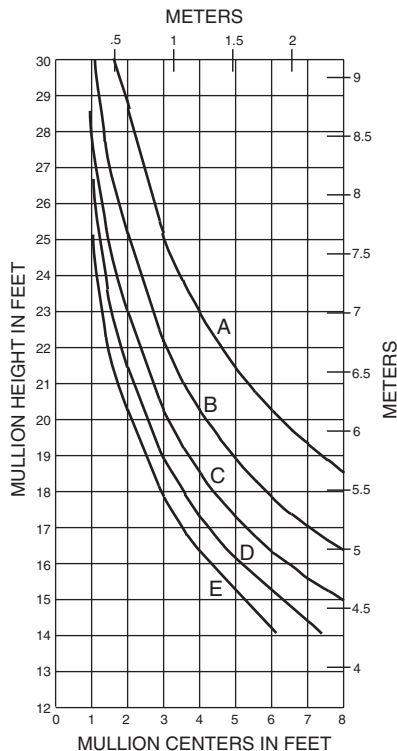
SINGLE SPAN

162-004 W/162-301



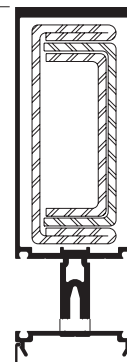
SINGLE SPAN

162-004 W/162-301/302



162-004
W/162-301/302

$I_a = 12.736(530.11 \times 10^4)$
 $S_a = 3.791(62.12 \times 10^3)$
 $I_s = 7.893(328.53 \times 10^4)$
 $S_s = 3.462(56.73 \times 10^3)$

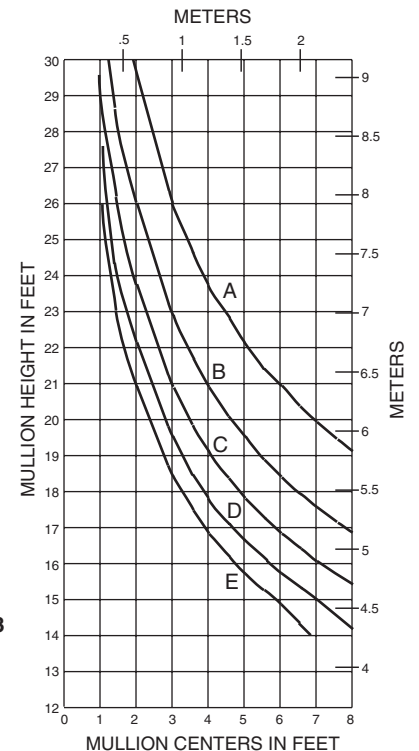


162-004
W/162-301/302/303

$I_a = 12.736(530.11 \times 10^4)$
 $S_a = 3.791(62.12 \times 10^3)$
 $I_s = 9.347(389.05 \times 10^4)$
 $S_s = 4.100(67.19 \times 10^3)$

SINGLE SPAN

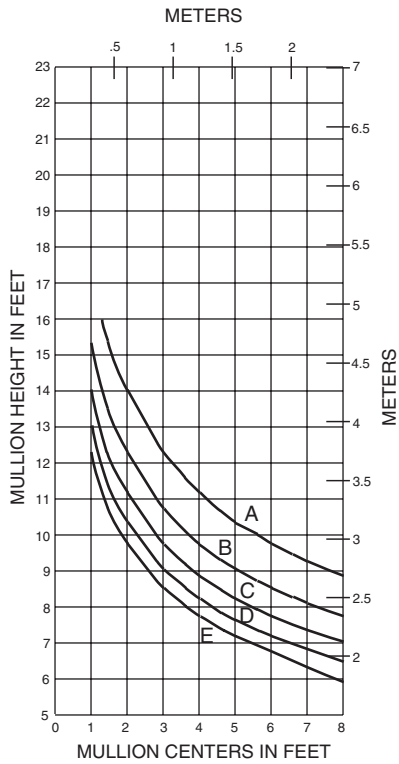
162-004 W/162-301/302/303



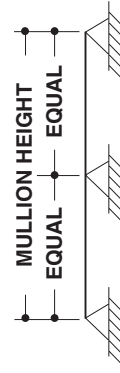
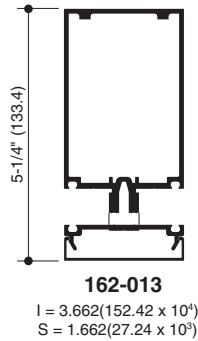
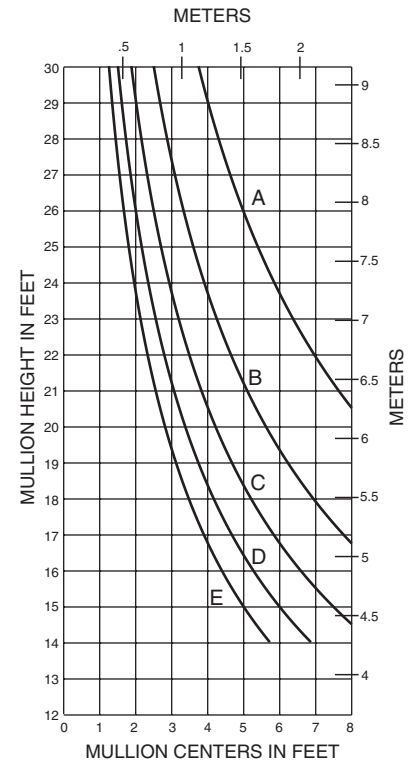
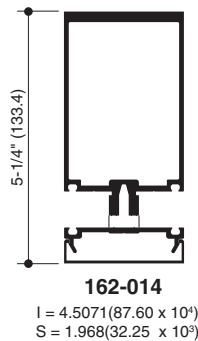
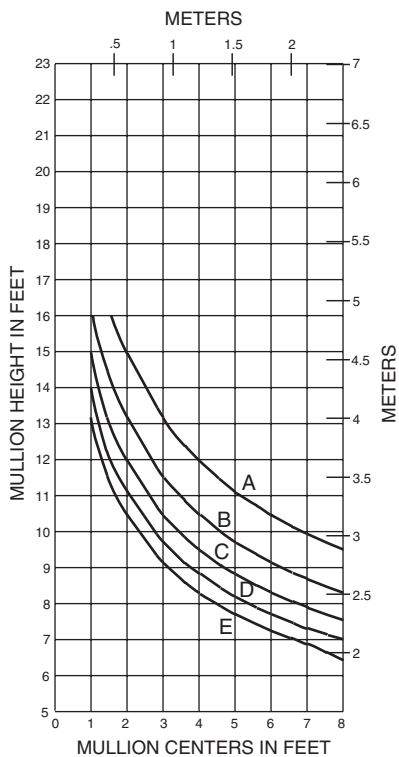
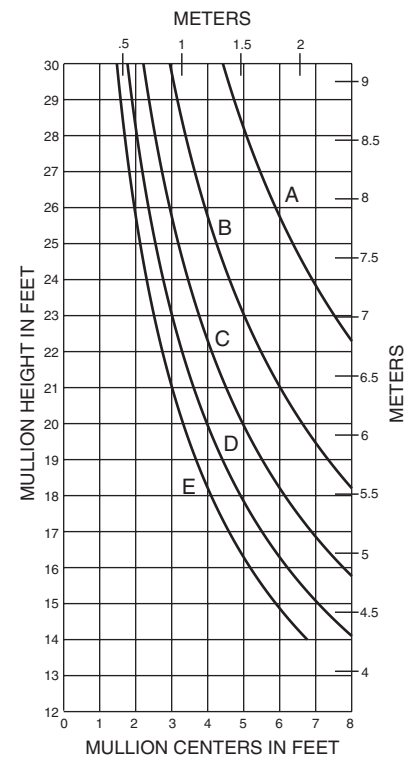
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SINGLE SPAN

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

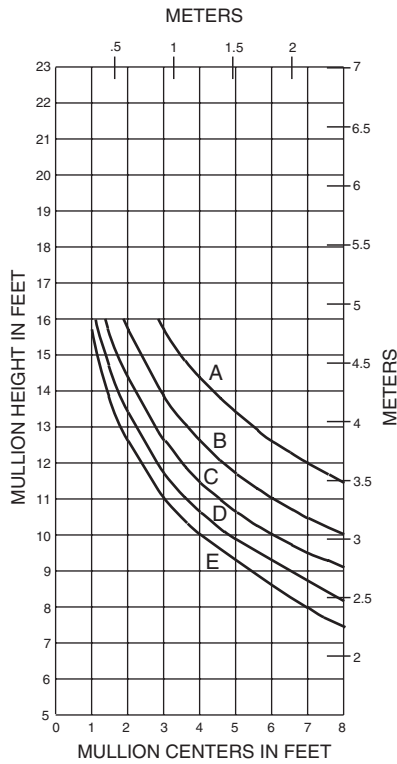
**TWIN SPAN****SINGLE SPAN****TWIN SPAN**

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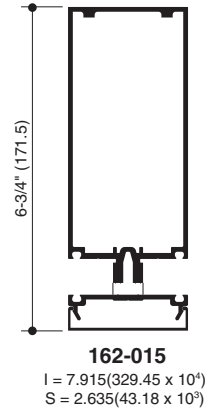
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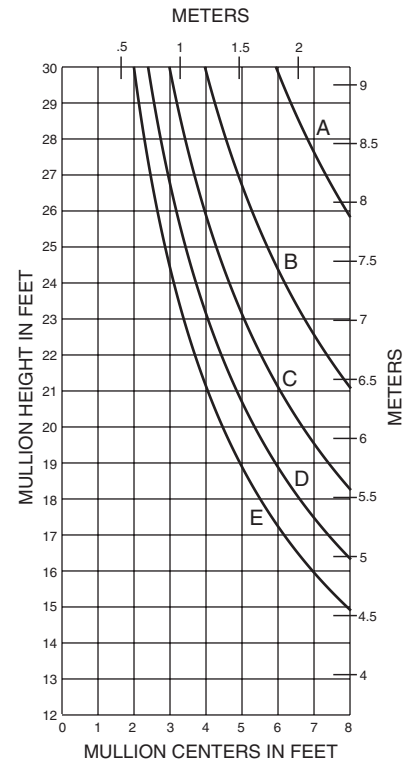
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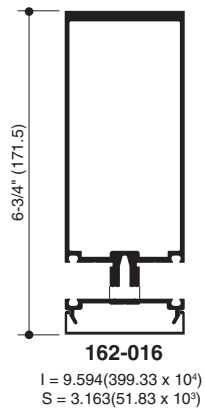
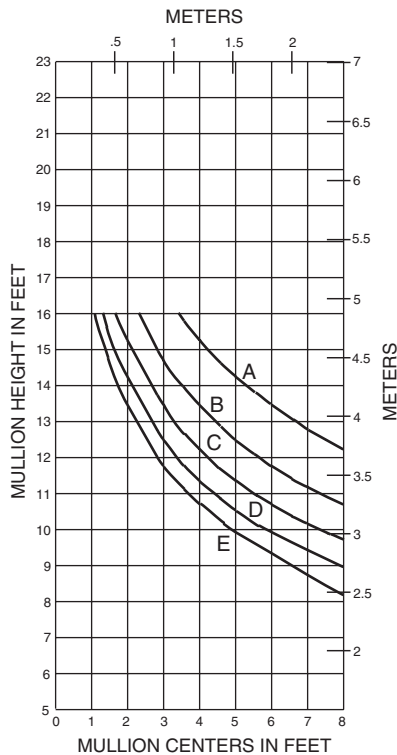
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 B = 30 PSF (1440)
 C = 40 PSF (1920)
 D = 50 PSF (2400)
 E = 60 PSF (2880)



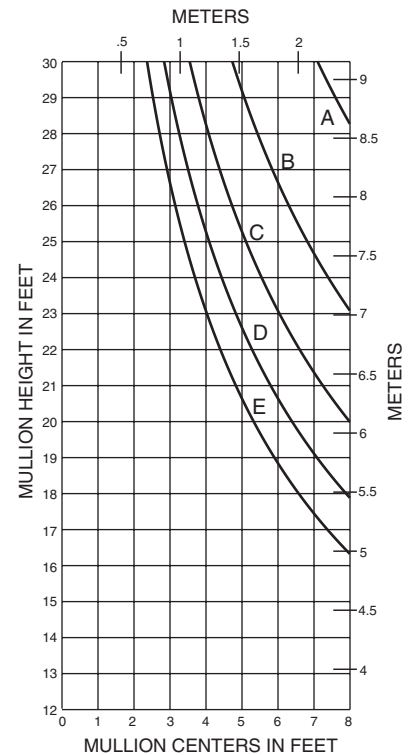
TWIN SPAN



SINGLE SPAN

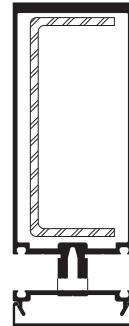
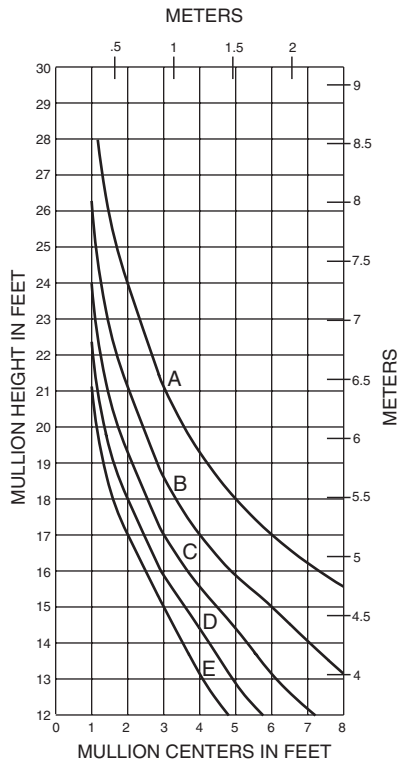


TWIN SPAN



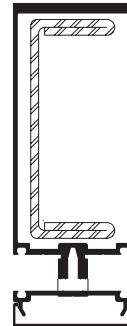
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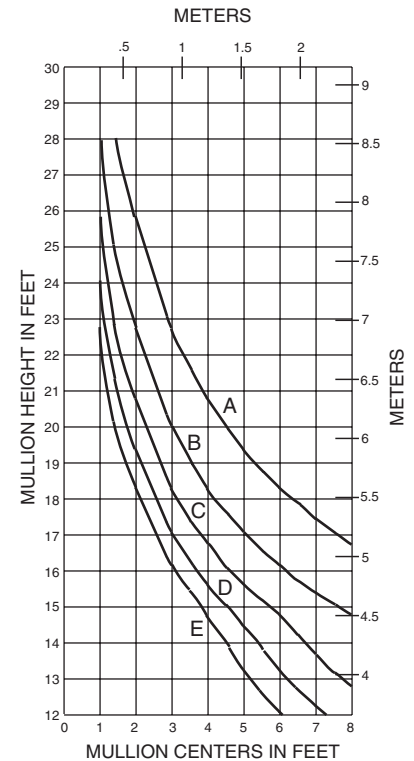
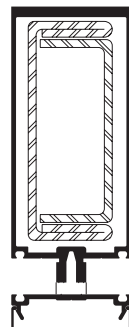
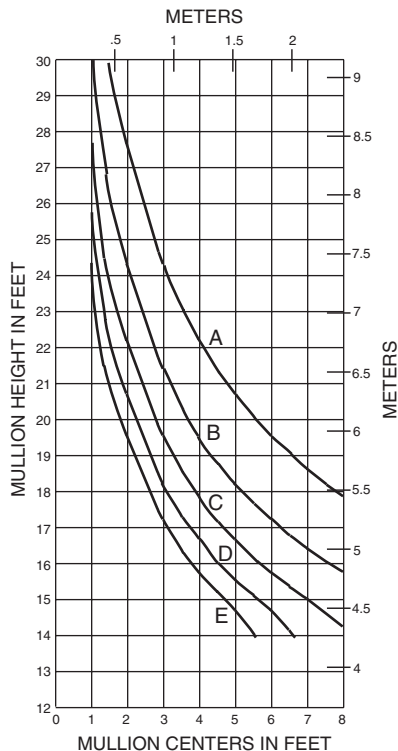
SINGLE SPAN**162-016 W/162-300****162-016 W/162-300**

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

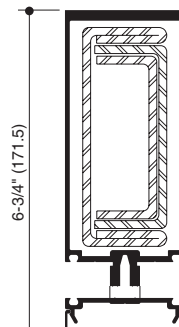
A = 20 PSF (960)
B = 30 PSF (1440)
C = 40 PSF (1920)
D = 50 PSF (2400)
E = 60 PSF (2880)

**162-016 W/162-301**

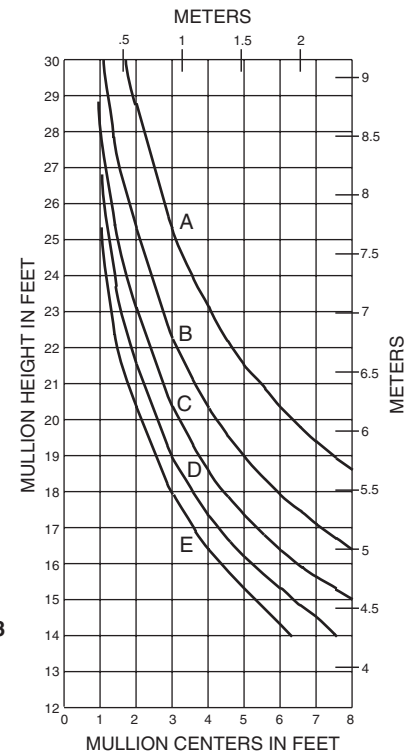
$I_a = 9.594(399.33 \times 10^4)$
 $S_a = 3.163(51.83 \times 10^3)$
 $I_s = 5.684(236.59 \times 10^4)$
 $S_s = 2.493(40.85 \times 10^3)$

SINGLE SPAN**162-016 W/162-301****SINGLE SPAN****162-016 W/162-301/302****162-016 W/162-301/302**

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

**162-016 W/162-301/302/303**

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

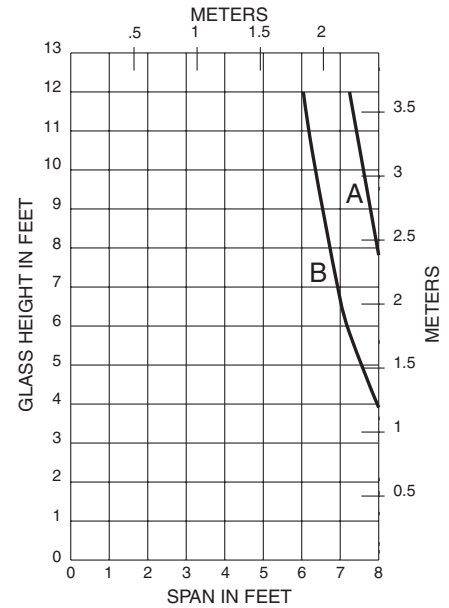
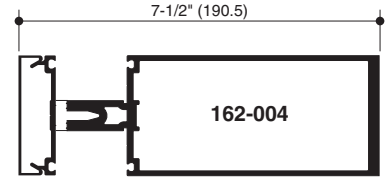
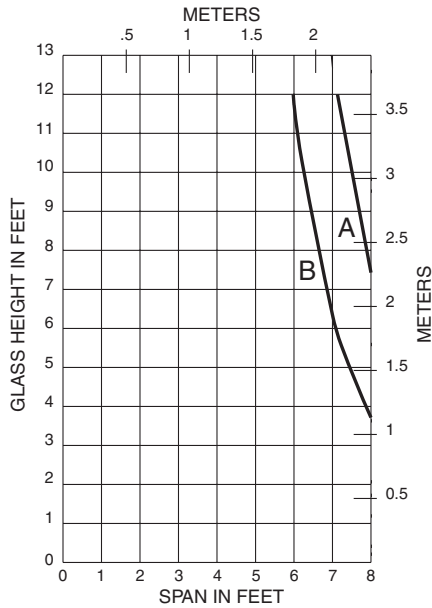
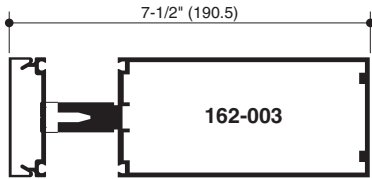
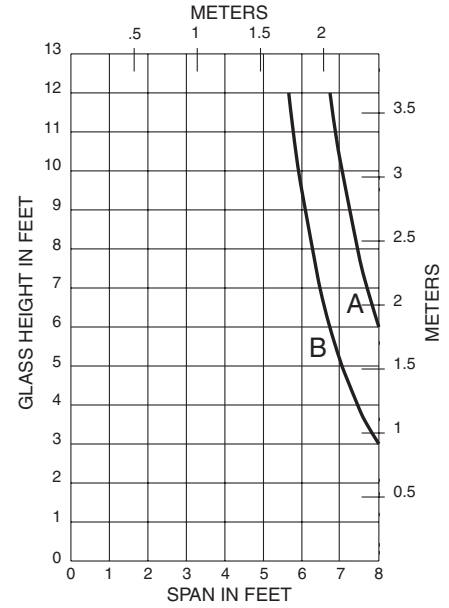
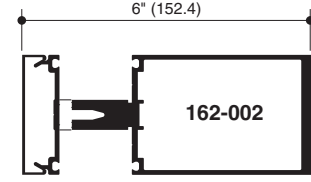
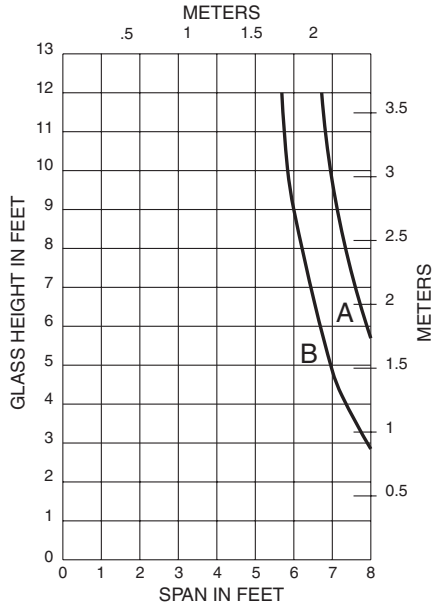
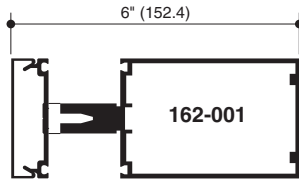
SINGLE SPAN**162-016 W/162-301/302/303**

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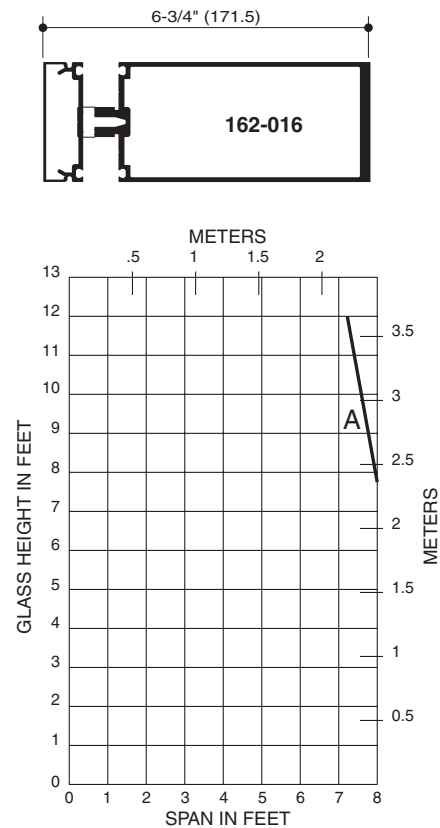
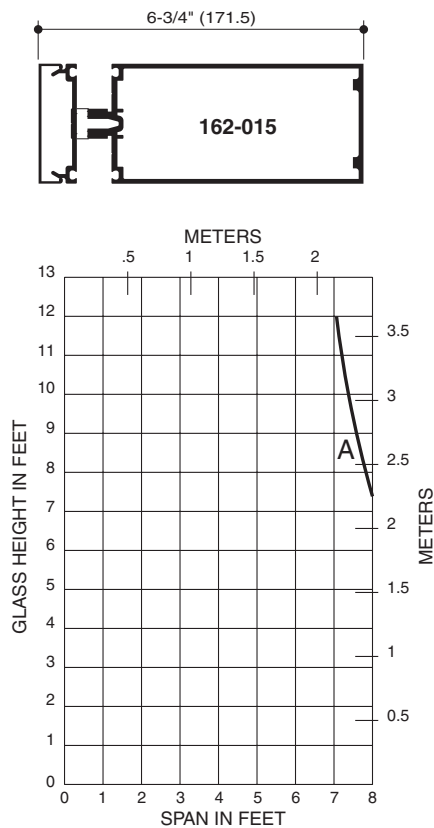
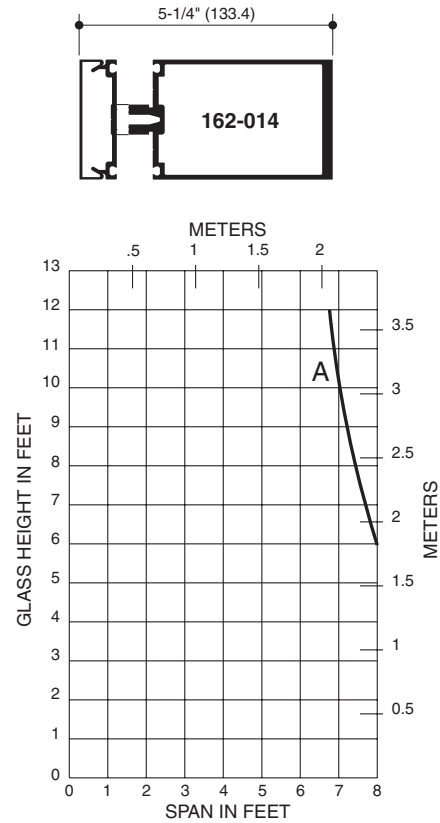
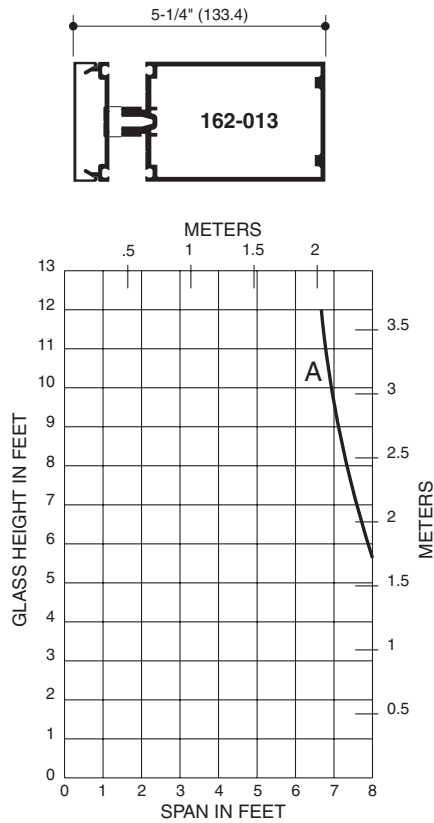
A - 1/4" GLASS (1/4 POINT LOADING)
B - 1" GLASS (1/4 POINT LOADING)



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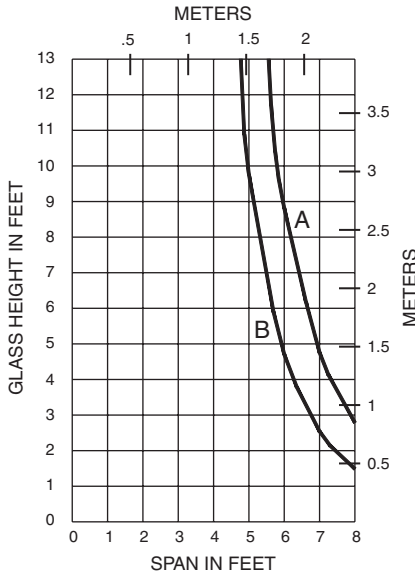
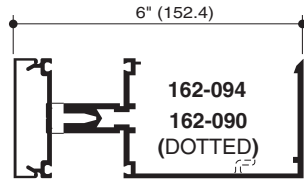
A - 1/4" GLASS (1/4 POINT LOADING)



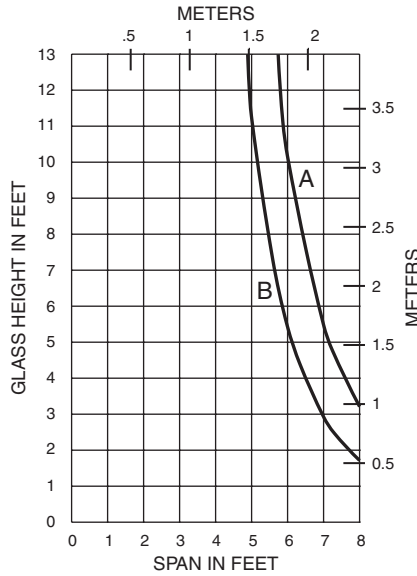
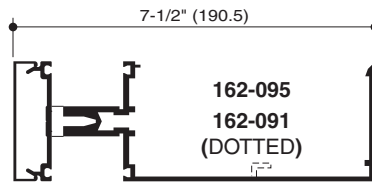
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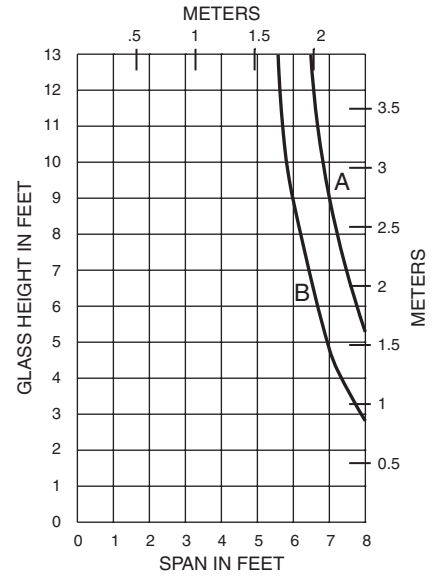
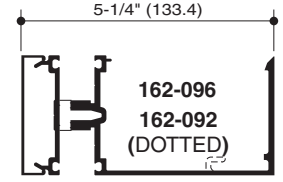
A - 1" GLASS (1/8 POINT LOADING)
B - 1" GLASS (1/4 POINT LOADING)



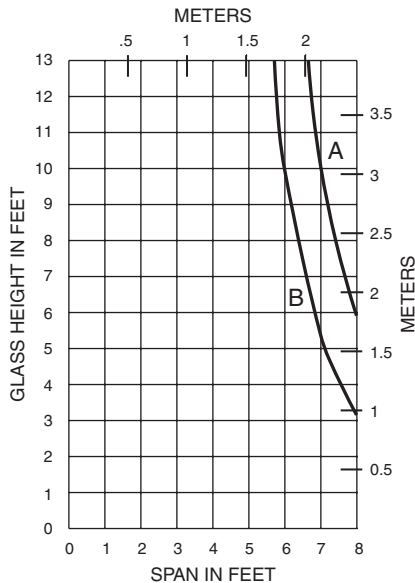
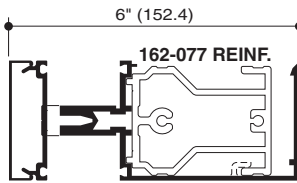
A - 1" GLASS (1/8 POINT LOADING)
B - 1" GLASS (1/4 POINT LOADING)



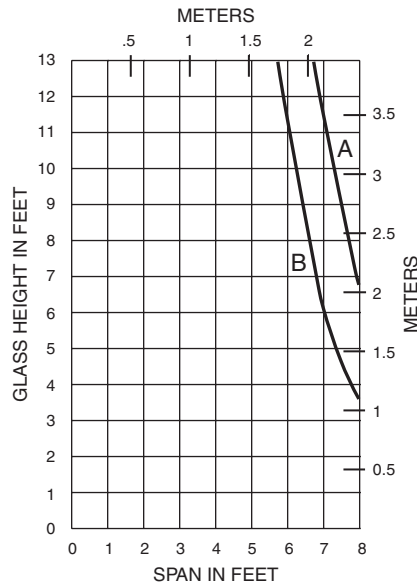
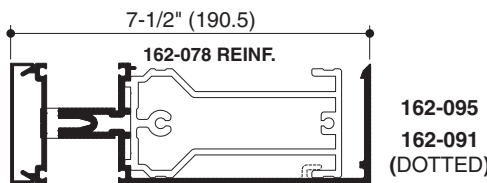
A - 1/4" GLASS (1/8 POINT LOADING)
B - 1/4" GLASS (1/4 POINT LOADING)



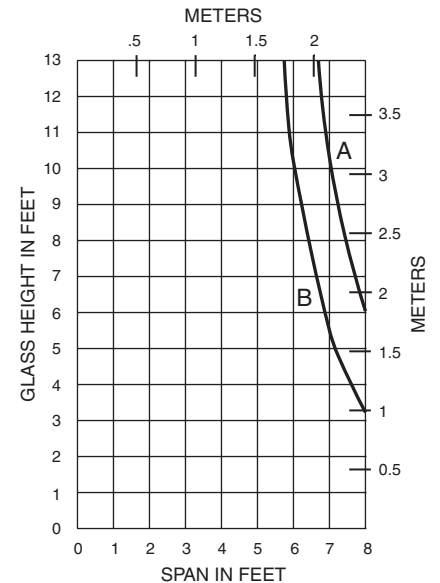
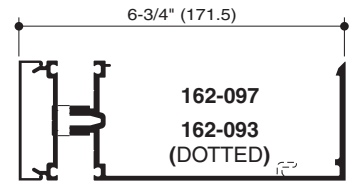
A - 1" GLASS (1/8 POINT LOADING)
B - 1" GLASS (1/4 POINT LOADING)



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



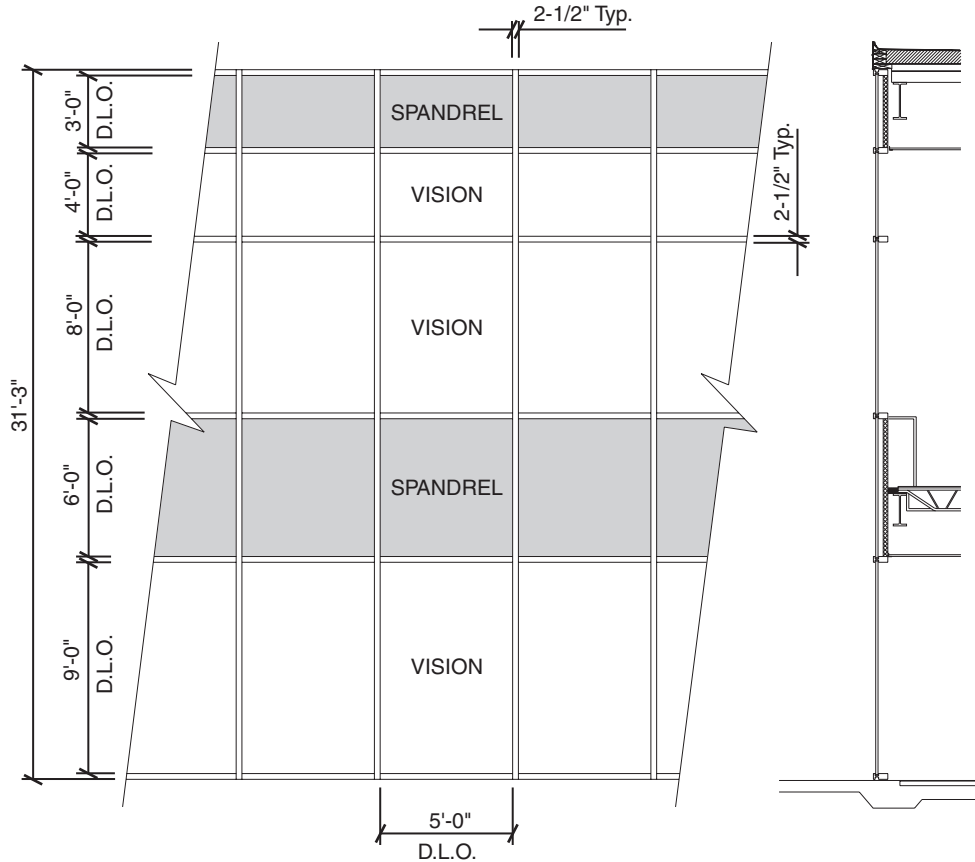
A - 1/4" GLASS (1/8 POINT LOADING)
B - 1/4" GLASS (1/4 POINT LOADING)



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**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 = (45.0 ÷ 49.6)100 = 91%

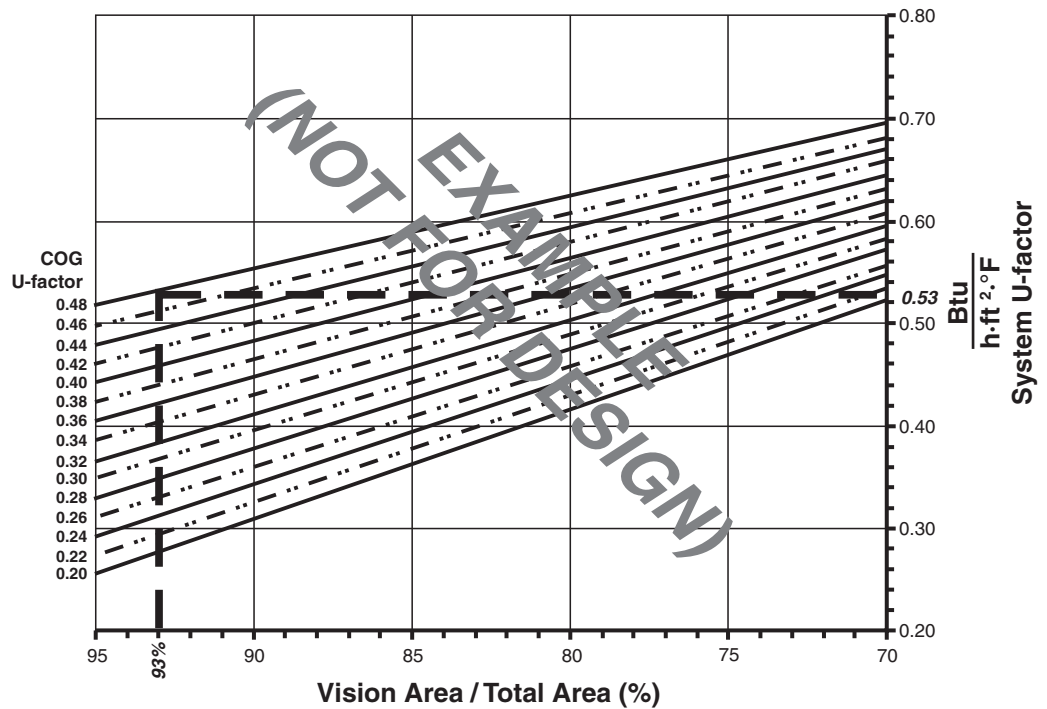
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Vision Area Chart

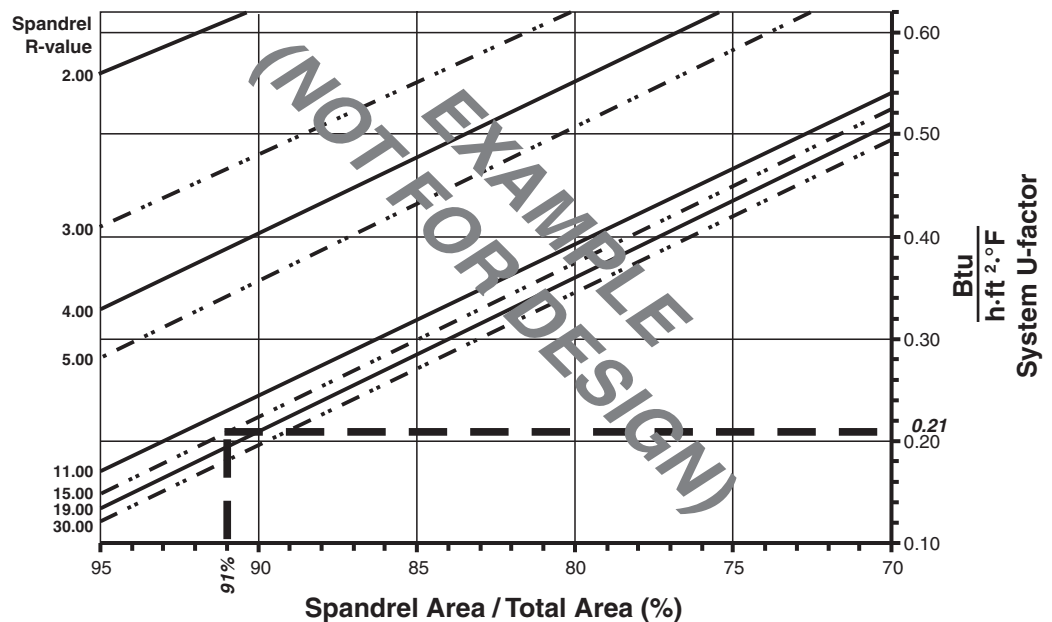
System U-factor vs Percent of Vision Area



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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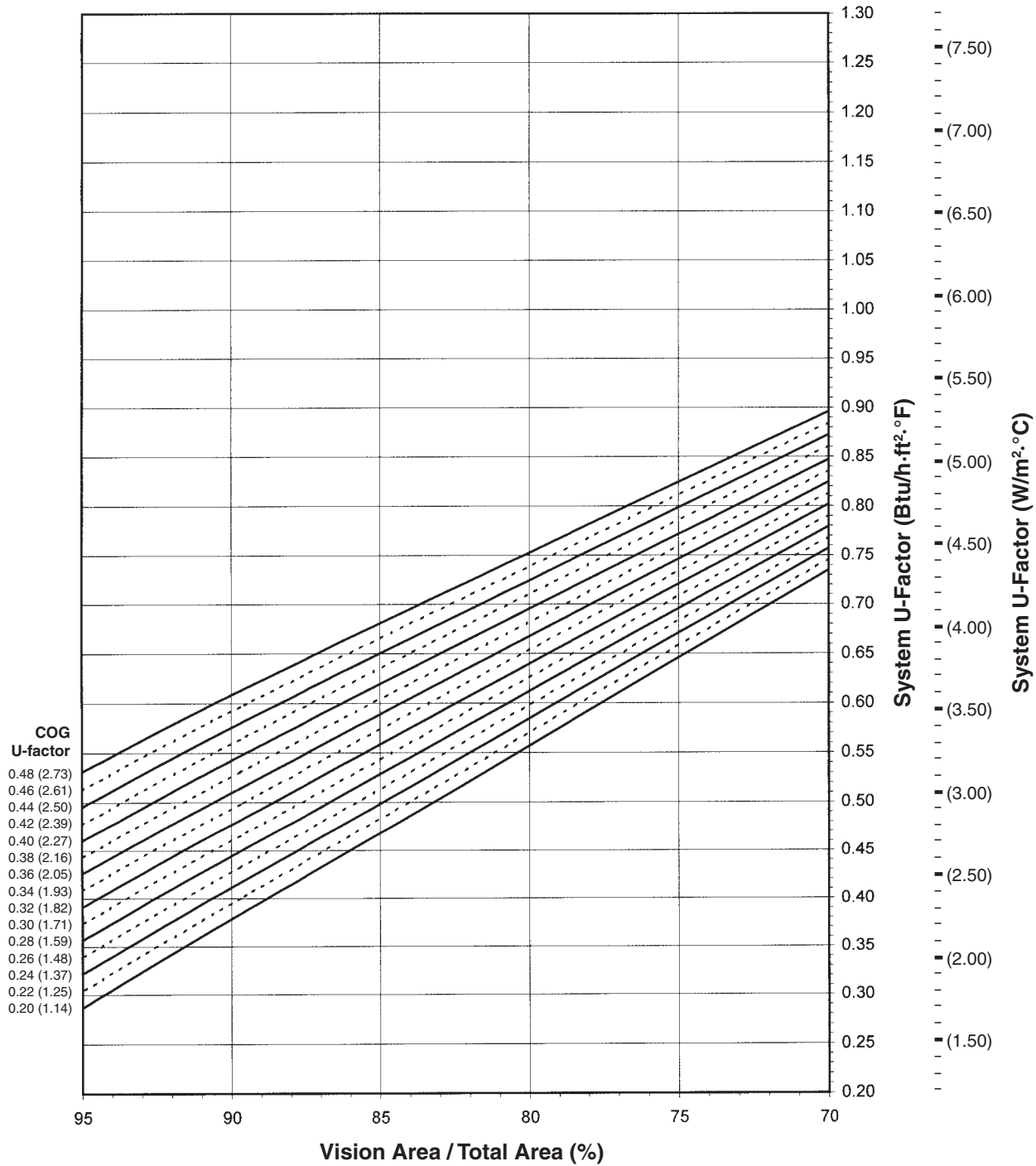
Note:

Values in parentheses are metric.

COG=Center of Glass.

Charts are generated per AAMA 507.

System U-Factor for Vision Glass



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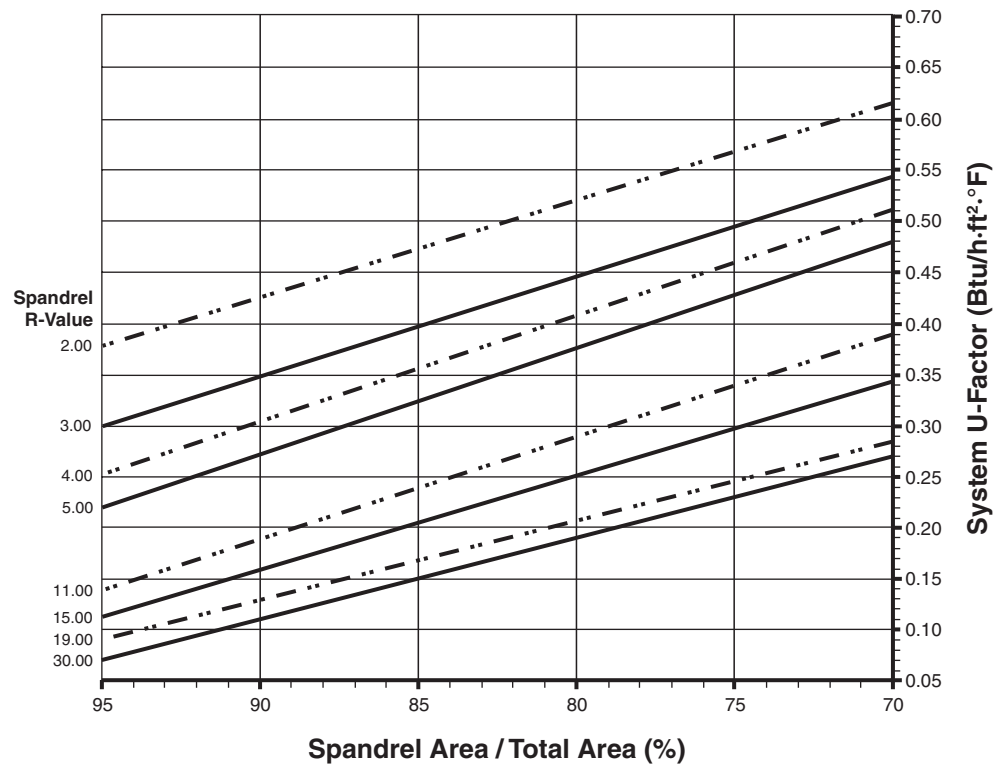
Note:

Values in parentheses are metric.

COG=Center of Glass.

Charts are generated per AAMA 507.

System U-Factors for Spandrel Glass

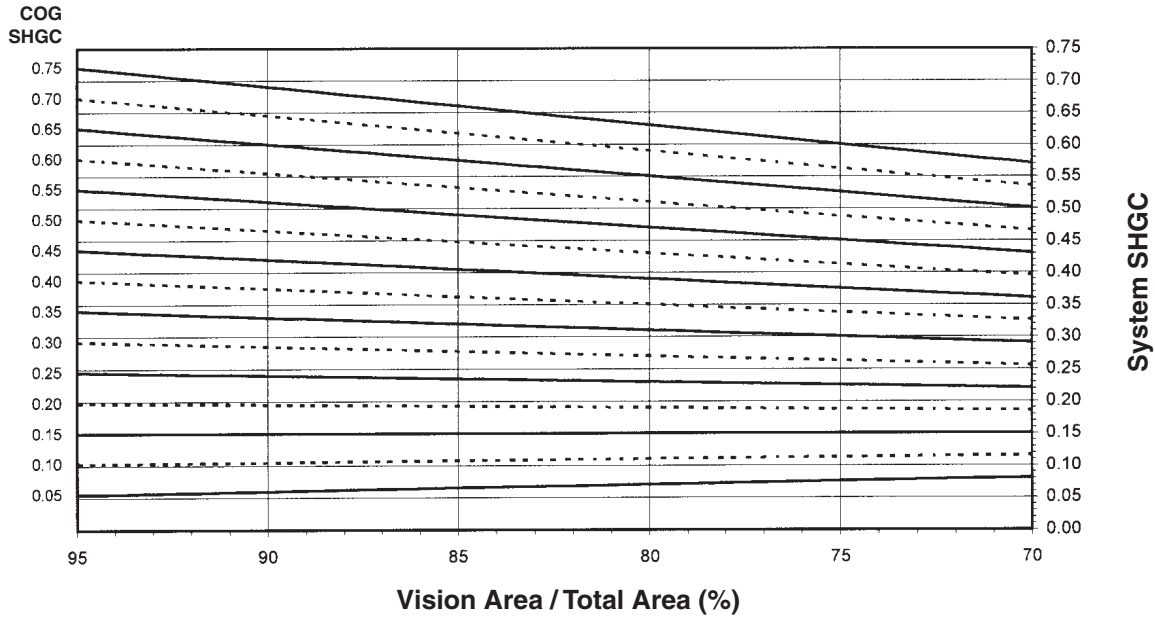


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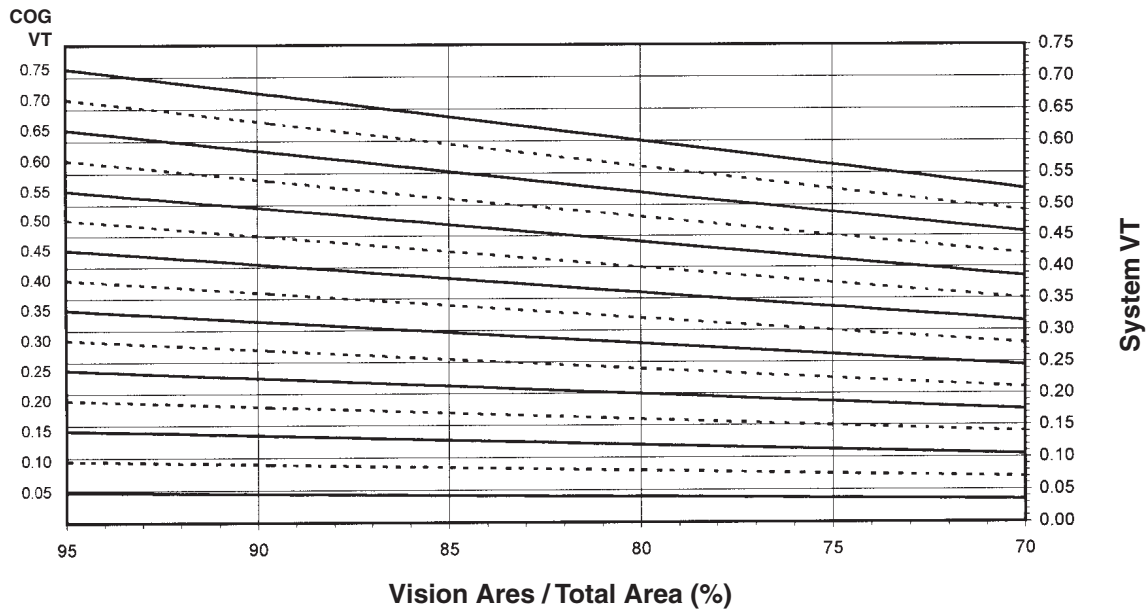
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System Solar Heat Gain Coefficient (SHGC) vs Percent of Vision Area



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 Transmittance¹ (BTU/hr • ft² • °F)

Glass U-Factor ³	Overall U-Factor ⁴
0.48	0.61
0.46	0.60
0.44	0.58
0.42	0.56
0.40	0.55
0.38	0.53
0.36	0.51
0.34	0.50
0.32	0.48
0.30	0.47
0.28	0.45
0.26	0.43
0.24	0.42
0.22	0.40
0.20	0.38

SHGC Matrix²

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	0.20
0.15	0.15
0.10	0.11
0.05	0.06

Visible Transmittance²

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

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").

1600 System®¹ with GLASSvent™ - Projecting (Awning - Single)

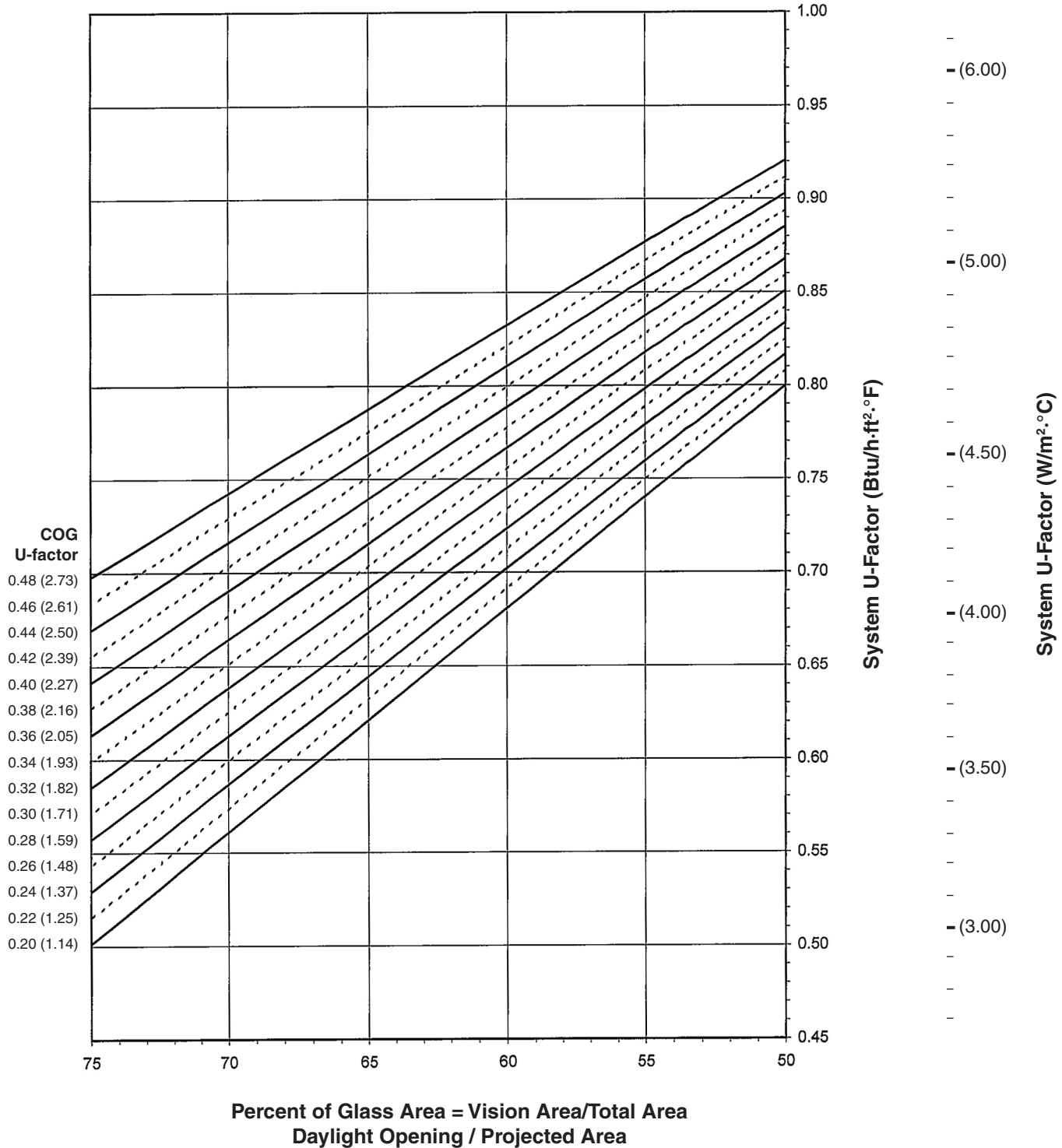
Note:

Values in parentheses are metric.

COG = Center of Glass.

Charts are generated per AMMA 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.

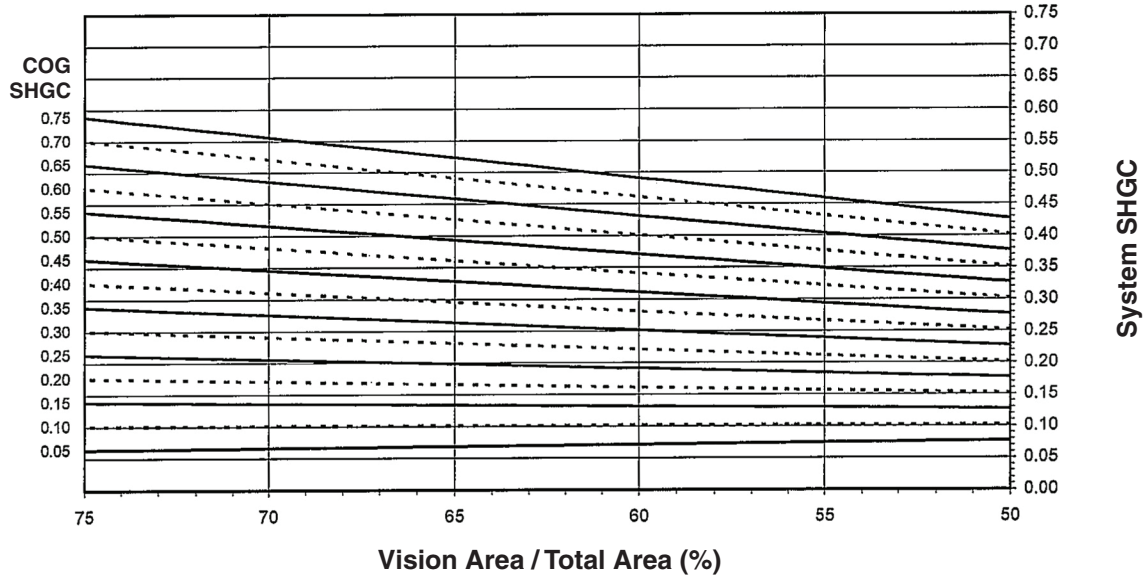
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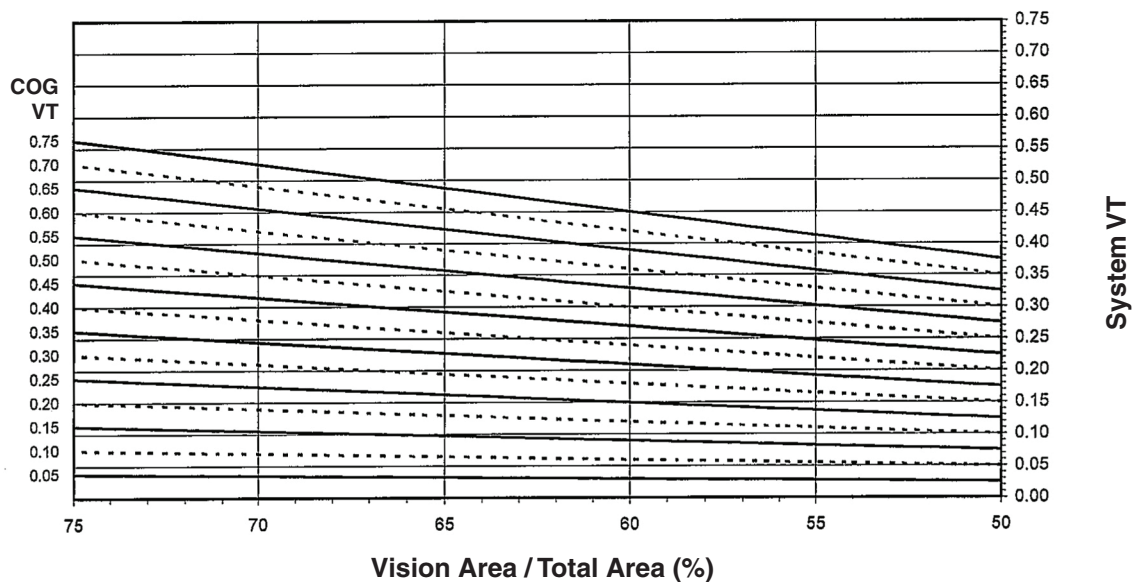
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1600 System®1 with GLASSvent™ - Projecting (Awning - Single)

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



System Visible Transmittance (VT) vs Percent of Vision Area



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1600 System®¹ with GLASSvent™ - Projecting (Awning - Single)**Thermal Transmittance¹ (BTU/hr • ft² • °F)**

Glass U-Factor ³	Overall U-Factor ⁴
0.48	0.87
0.46	0.86
0.44	0.85
0.42	0.84
0.40	0.83
0.38	0.82
0.36	0.81
0.34	0.80
0.32	0.79
0.30	0.78
0.28	0.77
0.26	0.76
0.24	0.76
0.22	0.75
0.20	0.74

SHGC Matrix²

Glass SHGC ³	Overall Glass U-Factor ⁴
0.75	0.46
0.70	0.43
0.65	0.41
0.60	0.38
0.55	0.35
0.50	0.32
0.45	0.30
0.40	0.27
0.35	0.24
0.30	0.21
0.25	0.18
0.20	0.16
0.15	0.13
0.10	0.10
0.05	0.07

Visible Transmittance²

Glass VT ³	Overall VT ⁴
0.75	0.42
0.70	0.39
0.65	0.36
0.60	0.33
0.55	0.30
0.50	0.28
0.45	0.25
0.40	0.22
0.35	0.19
0.30	0.17
0.25	0.14
0.20	0.11
0.15	0.08
0.10	0.06
0.05	0.03

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 1200mm wide by 1500mm high (47-1/4" by 59-1/16").

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