Features

- 1600UT SS is a captured outside and inside glazed or SSG verticals with captured horizontal curtain wall system
- 1600UT SS has 2-1/2" (63.5) sightline
- Standard 7-3/4" (196.9) depth system, 6-1/4" (158.8) depth system available
- Standard infill options 1" (25.4), 1-1/4" (31.8) and 1-5/16" (33.3)
- Thermally Broken
- Perimeter seals will have two lines of sealant required with optional interior seal
- 1600UT SS can be supplied fabricated and KD or in stock lengths
- Interlocking mullion design eliminates need for anti-buckling clips
- Screw Spline concealed fastener joinery creates smooth, monolithic appearance
- EPDM gaskets
- Screw spline joinery method allows shop assembly of ladder sections, reducing field labor
- Corners available
- Offers integrated entrance framing systems
- Silicone compatible glazing materials for long-lasting seals
- Two color option
- Permanodic® anodized finishes option
- Painted finishes in standard and custom choices

Optional Features

- Captured system with GLASSvent® UT Windows
- Vertical SSG system with GLASSvent® Windows for Curtain Wall
- Deep covers available
- Expansion Horizontal
- 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.

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.

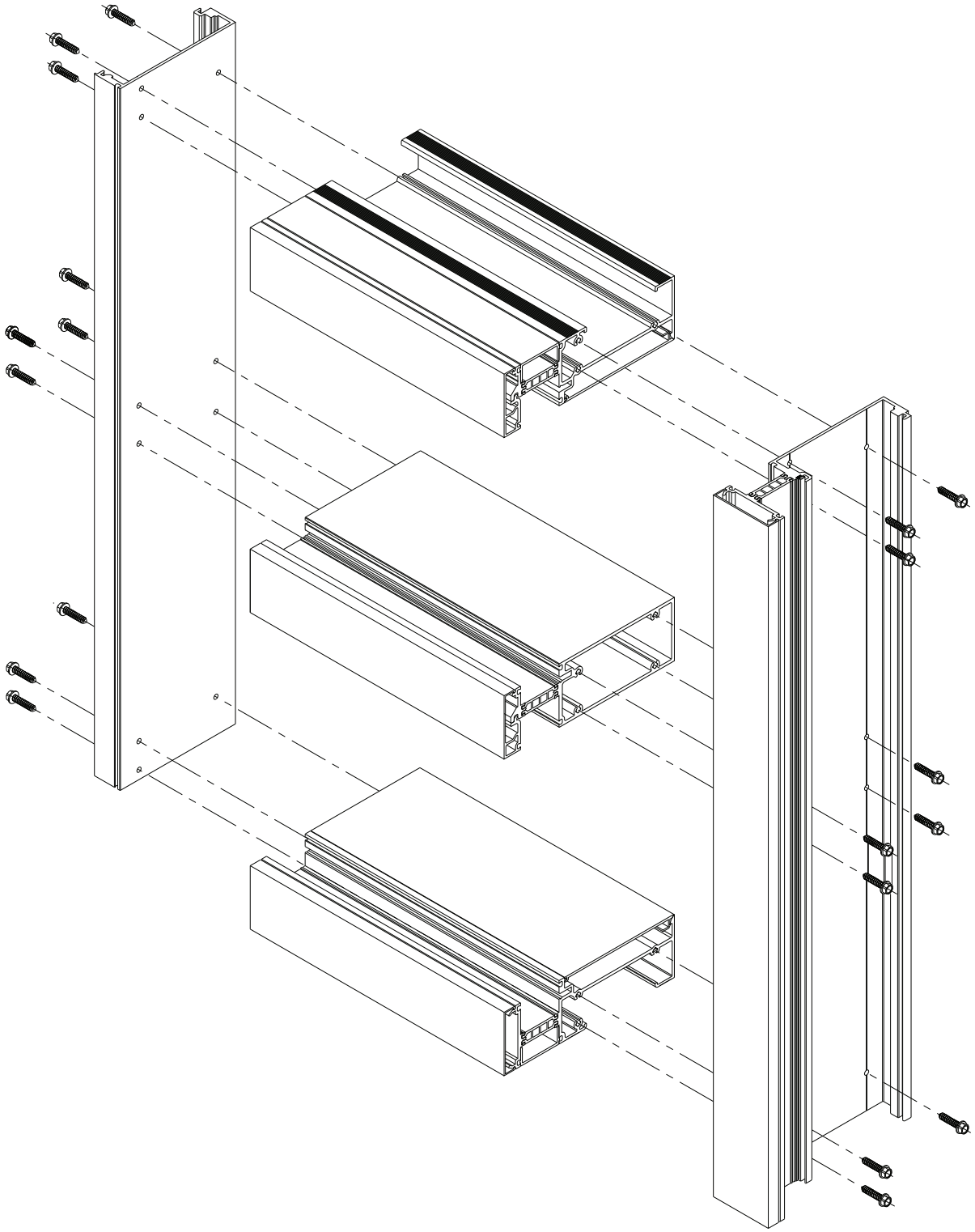
Metric (SI) conversion figures are included throughout these details for reference. Numbers in parentheses ( ) are millimeters unless otherwise noted.

The following metric (SI) units are found in these details:

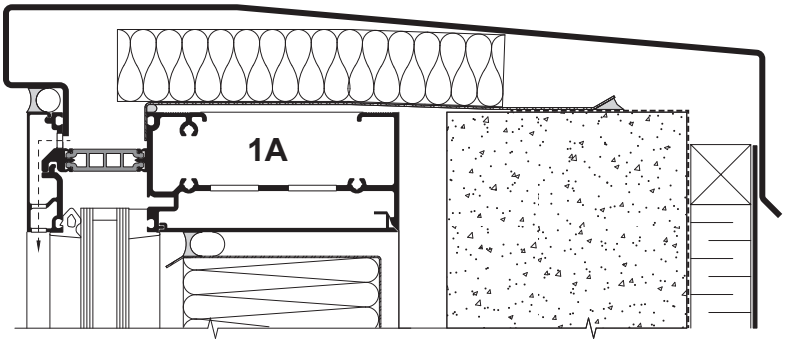
m – meter
cm – centimeter
mm – millimeter
s – second
Pa – pascal
MPa – megapascal

1600UT SS Curtain Wall System

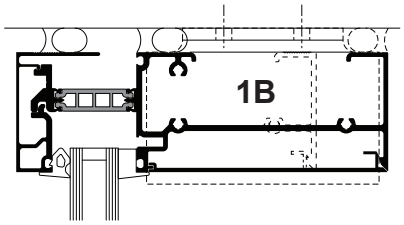
PICTORIAL VIEW



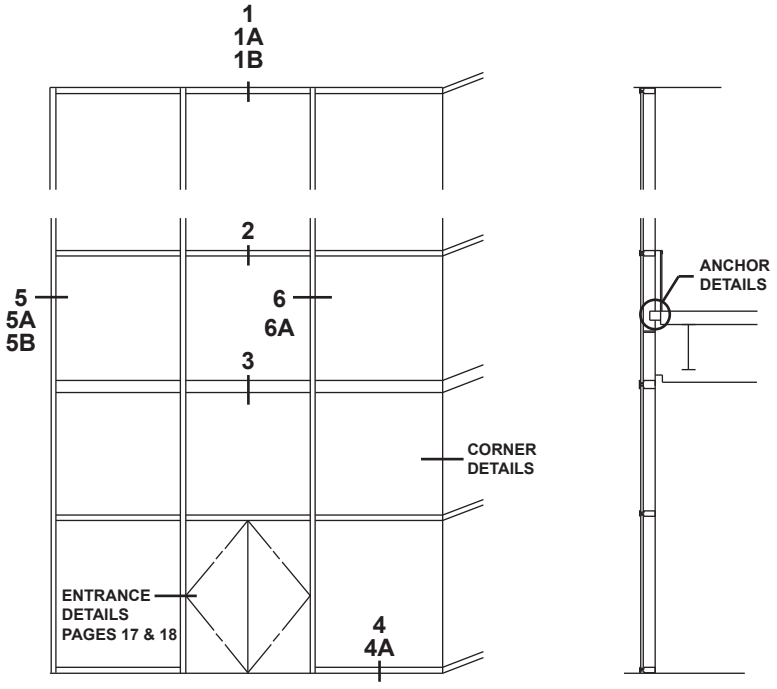
Additional information and CAD details are available at www.kawneer.com



OPTIONAL HEAD THAT ALLOWS PARAPET FLASHING ATTACHED
NOTE: 7-3/4" SYSTEM SHOWN, 6-1/4" SYSTEM SIMILAR

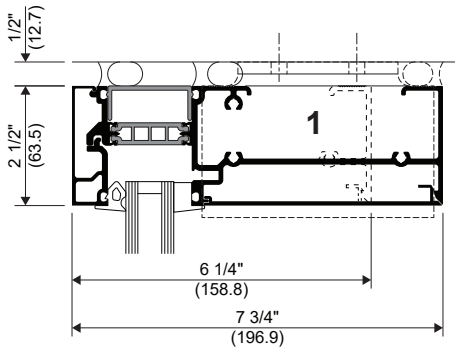


OPTIONAL HEAD WITH SNAP-ON PERIMETER COVER

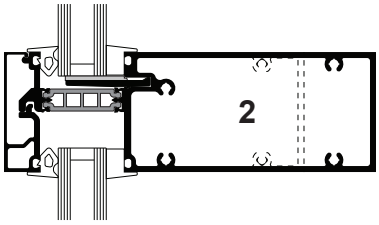


ELEVATION IS NUMBER KEYED TO DETAILS

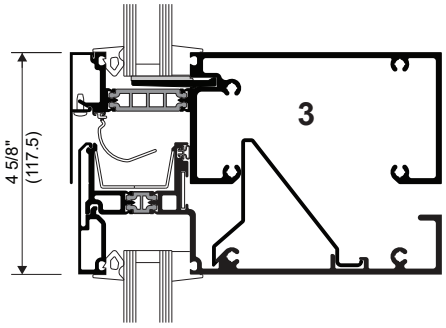
1", 1-1/4" OR 1-5/16" INFILL AVAILABLE



HEAD

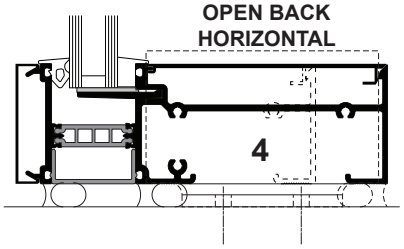


HORIZONTAL

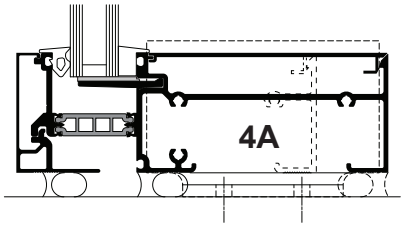


EXPANSION HORIZONTAL
NOTE: 7-3/4" SYSTEM SHOWN,
6-1/4" SYSTEM SIMILAR

OPEN BACK HORIZONTAL

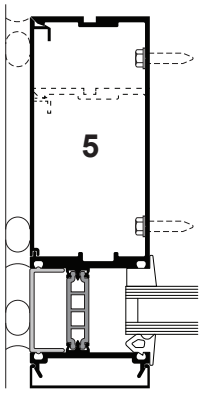


SILL WITH SNAP-ON PERIMETER COVER

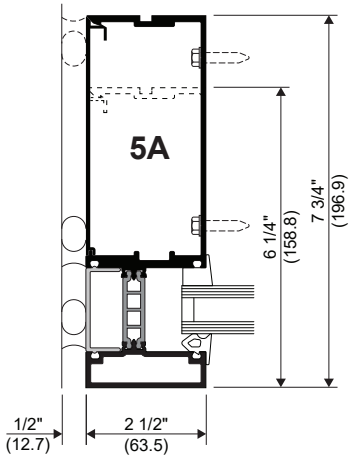


OPTIONAL SILL WITH SNAP-ON PERIMETER COVER

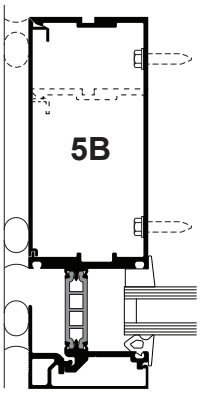
JAMB OPTIONS



JAMB WITH SNAP-ON COVER (Standard)

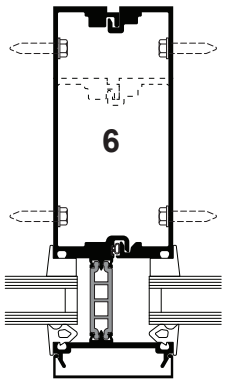


JAMB WITH HOLLOW PRESSURE PLATE (Optional)

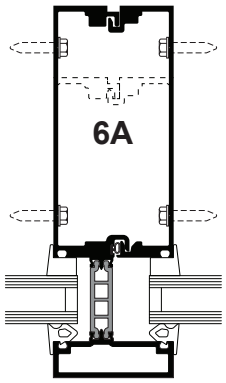


JAMB WITH SNAP-ON PERIMETER COVER (Optional)

VERTICAL OPTIONS



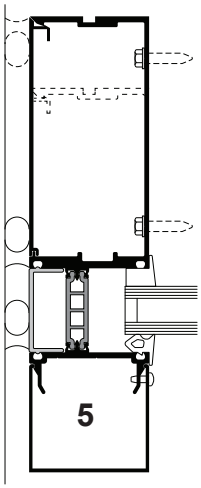
VERTICAL WITH SNAP-ON COVER (Standard)



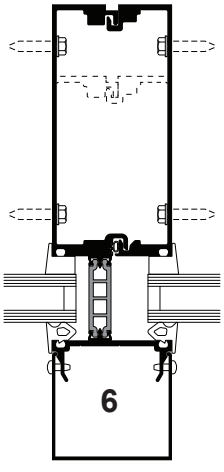
VERTICAL WITH HOLLOW PRESSURE PLATE (Optional)

OPTIONAL 2-1/2" (63.5) DEEP COVER

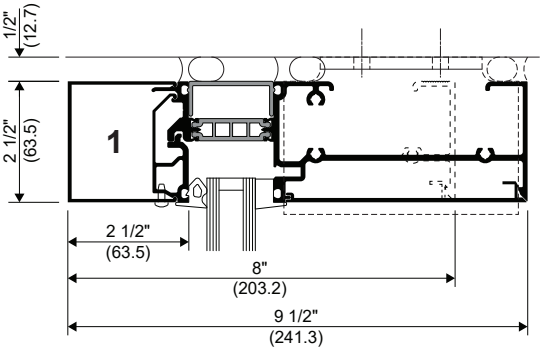
NOTE: DEEP COVER IS NOT APPLICABLE WITH HORIZONTALS (OUTSIDE GAZING)



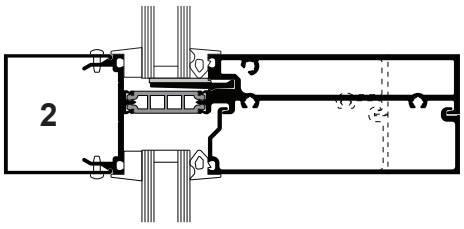
JAMB



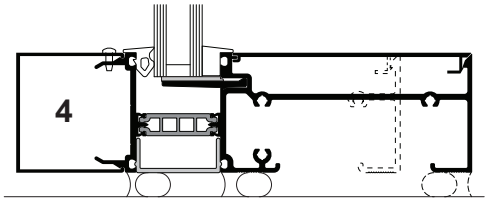
VERTICAL



HEAD



HORIZONTAL



SILL

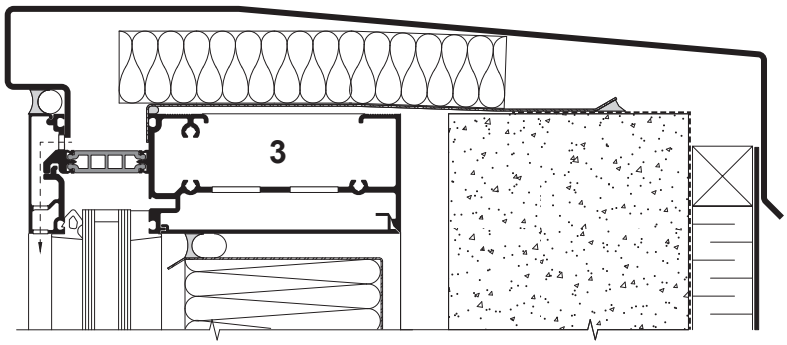
1600UT SS Curtain Wall System

DECEMBER, 2024

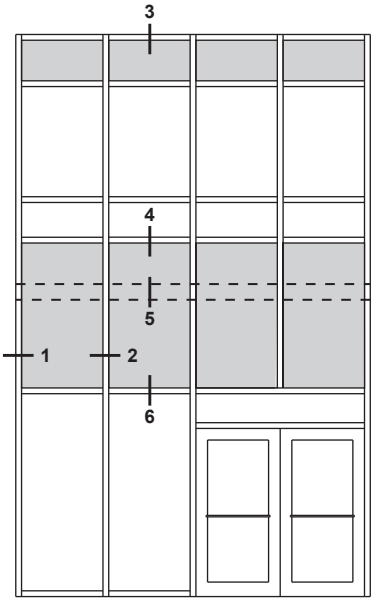
CAPTURED FRAMING DETAILS (OUTSIDE GLAZED)
BACKPAN DETAILS (1" INFILL)

EC 97911-332

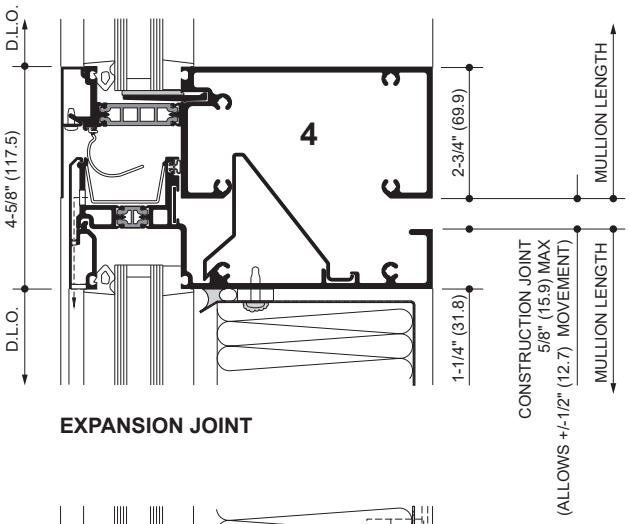
Additional information and CAD details are available at www.kawneer.com



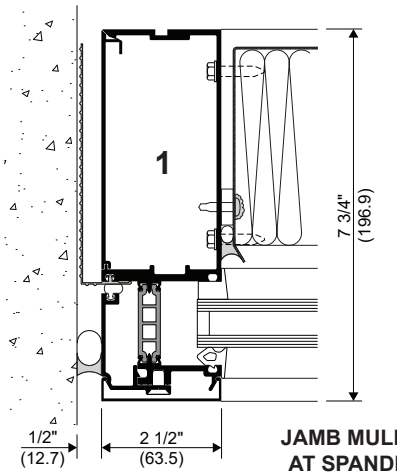
OPTIONAL HEAD THAT ALLOWS PARAPET FLASHING ATTACHED
NOTE: 7-3/4" SYSTEM SHOWN, 6-1/4" SYSTEM SIMILAR



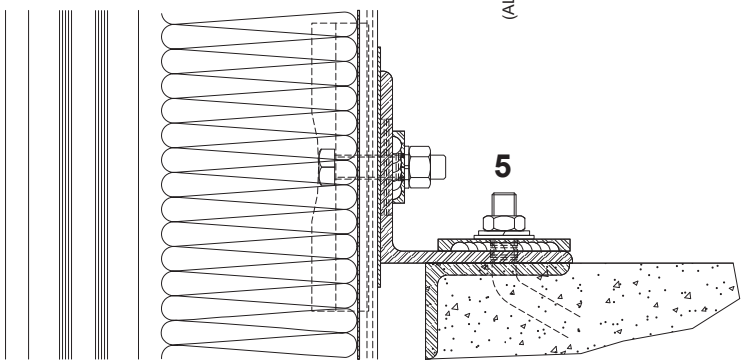
ELEVATION IS NUMBER KEYED TO DETAILS



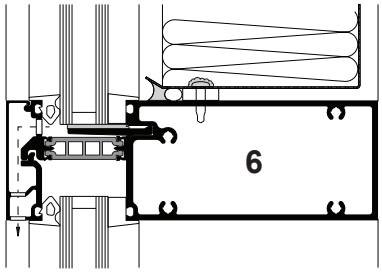
EXPANSION JOINT



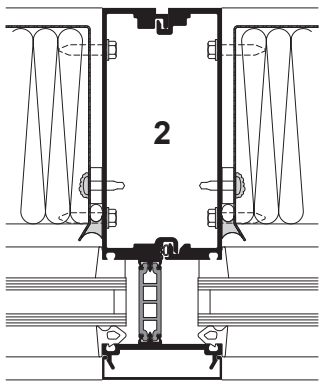
JAMB MULLION AT SPANDREL
(With vapor barrier tie-in)



TYPICAL DEADLOAD ANCHOR



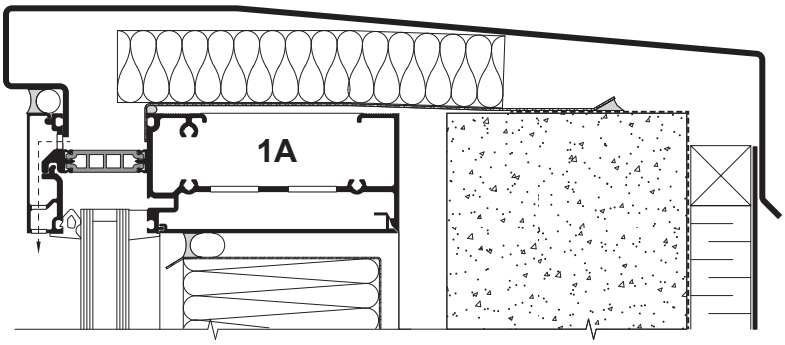
TRANSOM – SPANDREL OVER VISION



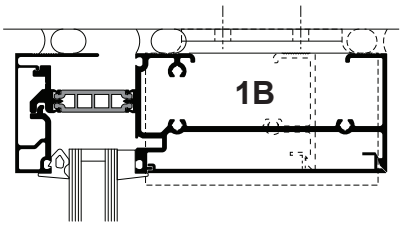
MULLION AT SPANDREL

1600UT SS Curtain Wall System

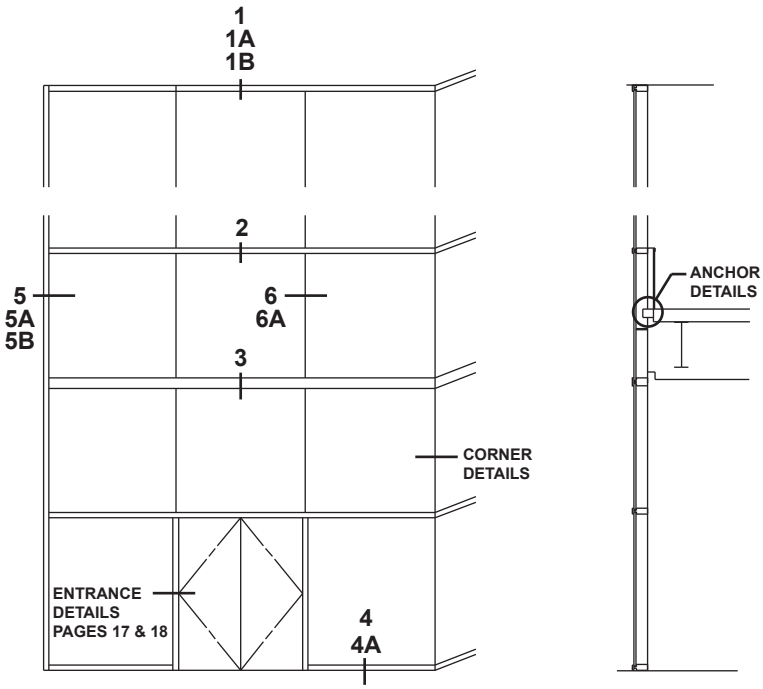
Additional information and CAD details are available at www.kawneer.com



OPTIONAL HEAD THAT ALLOWS PARAPET FLASHING ATTACHED
NOTE: 7-3/4" SYSTEM SHOWN, 6-1/4" SYSTEM SIMILAR

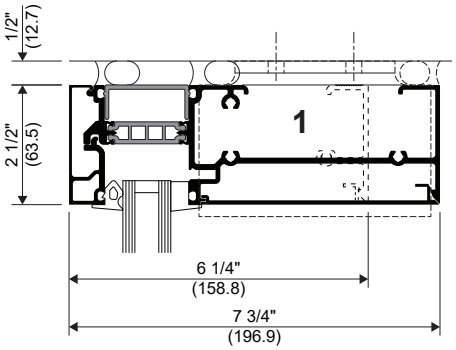


OPTIONAL HEAD WITH SNAP-ON PERIMETER COVER

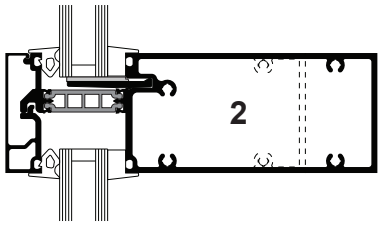


ELEVATION IS NUMBER KEYED TO DETAILS

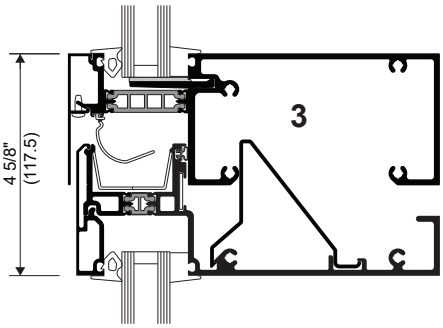
1", 1-1/4" OR 1-5/16" INFILL AVAILABLE



HEAD

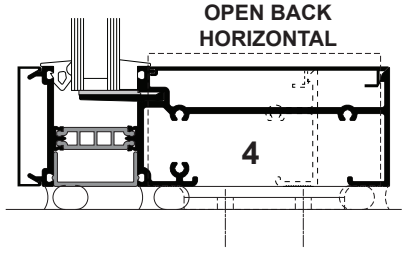


HORIZONTAL

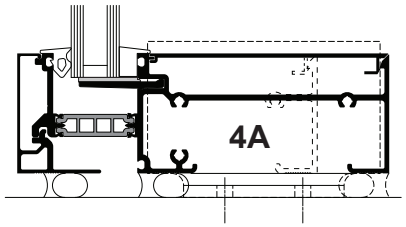


EXPANSION HORIZONTAL
NOTE: 7-3/4" SYSTEM SHOWN, 6-1/4" SYSTEM SIMILAR

OPEN BACK HORIZONTAL

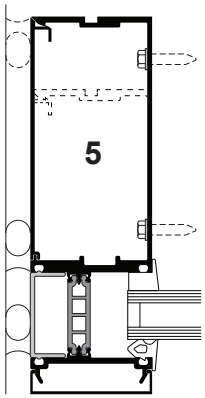


SLL

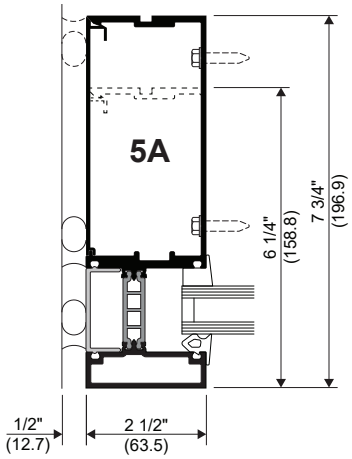


OPTIONAL SILL WITH SNAP-ON PERIMETER COVER

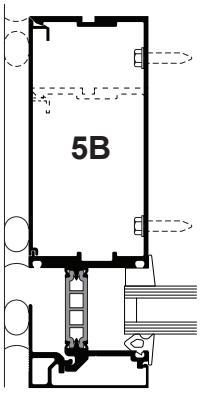
JAMB OPTIONS



JAMB WITH SNAP-ON COVER (Standard)

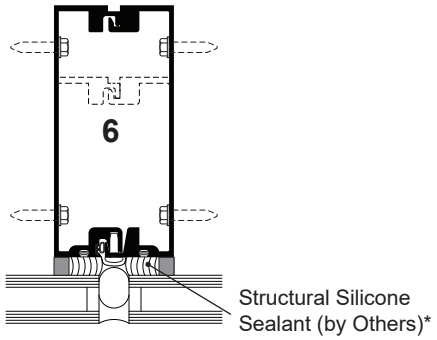


JAMB WITH HOLLOW PRESSURE PLATE (Optional)

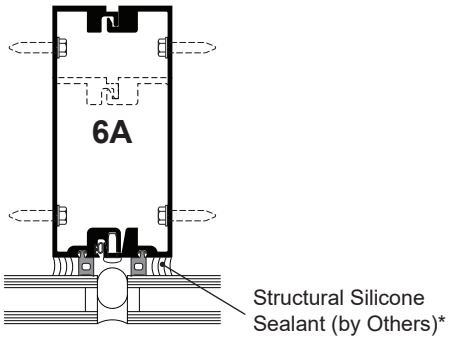


JAMB WITH SNAP-ON PERIMETER COVER (Optional)

SSG VERTICAL OPTIONS



SSG VERTICAL WITH TAPE SPACER



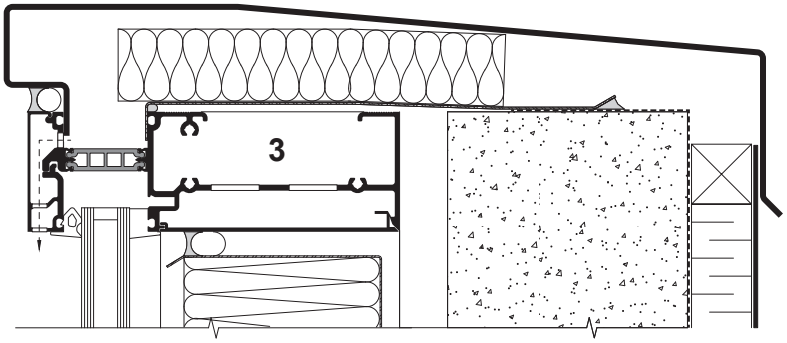
SSG VERTICAL WITH GASKET SPACER

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

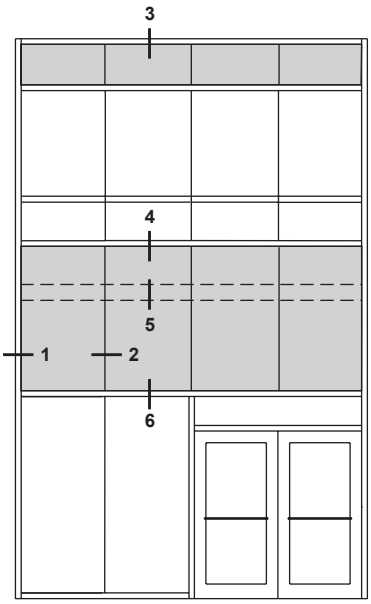
1600UT SS Curtain Wall System

VERTICAL SSG FRAMING DETAILS (OUTSIDE GLAZED)
BACKPAN DETAILS (1" INFILL)

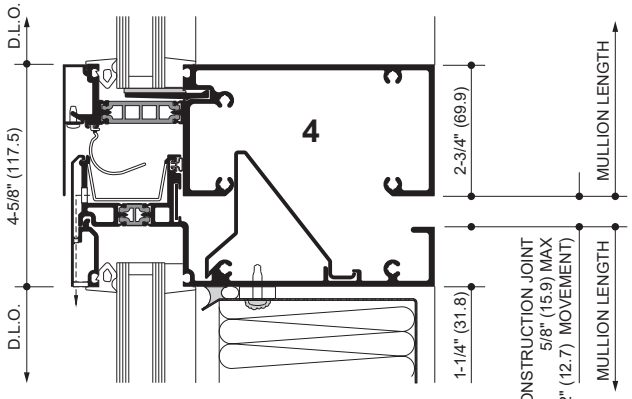
Additional information and CAD details are available at www.kawneer.com



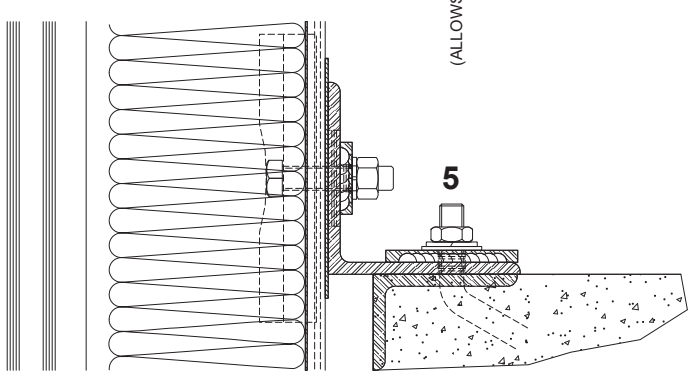
OPTIONAL HEAD THAT ALLOWS PARAPET FLASHING ATTACHED
NOTE: 7-3/4" SYSTEM SHOWN, 6-1/4" SYSTEM SIMILAR



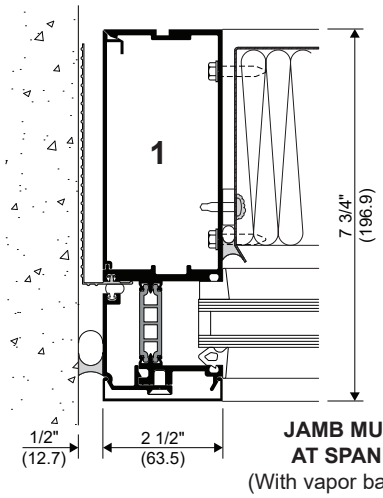
ELEVATION IS NUMBER KEYED TO DETAILS



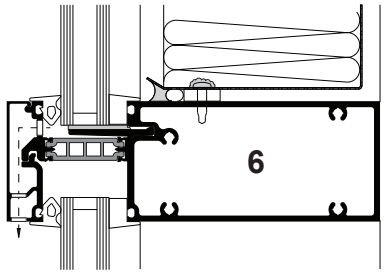
EXPANSION JOINT



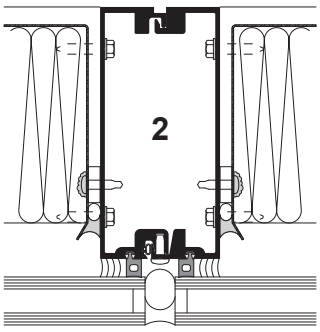
TYPICAL DEADLOAD ANCHOR



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



TRANSOM – SPANDREL OVER VISION



MULLION AT SPANDREL

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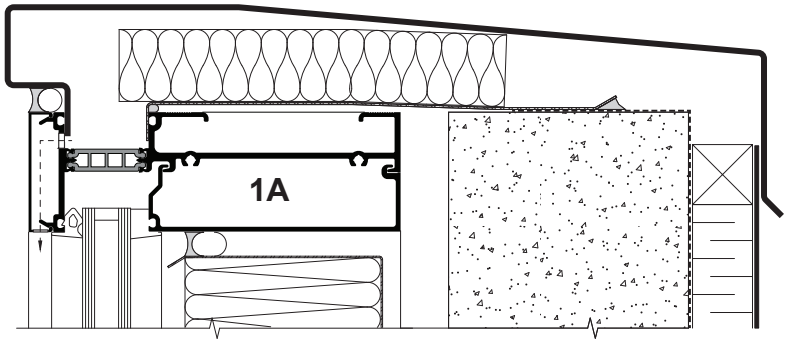
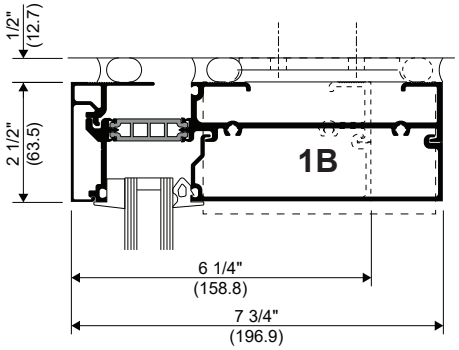
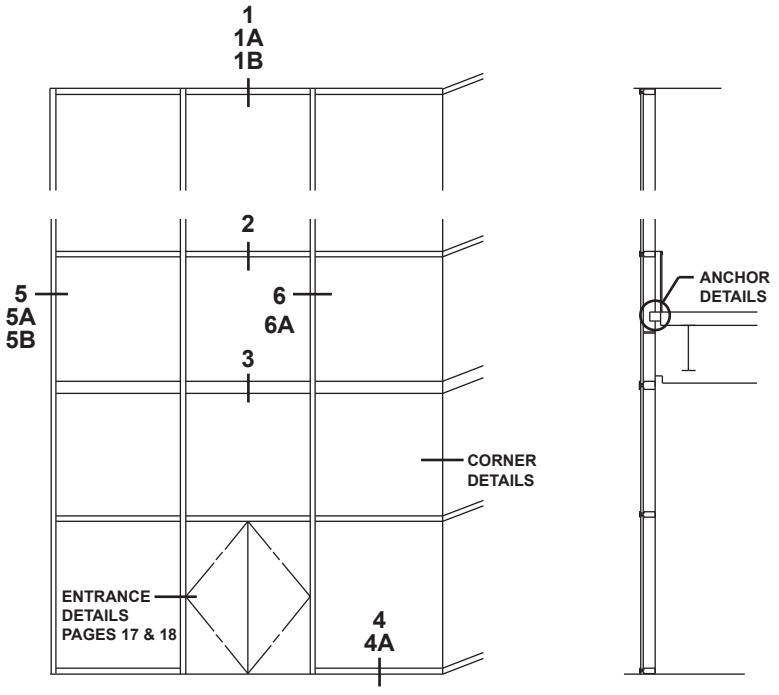


OPTIONAL HEAD THAT ALLOWS PARAPET FLASHING ATTACHED
NOTE: 7-3/4" SYSTEM SHOWN, 6-1/4" SYSTEM SIMILAR

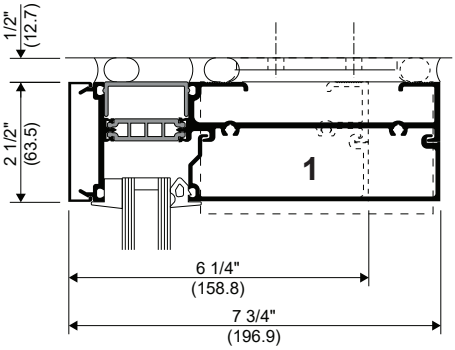


OPTIONAL HEAD WITH SNAP-ON PERIMETER COVER

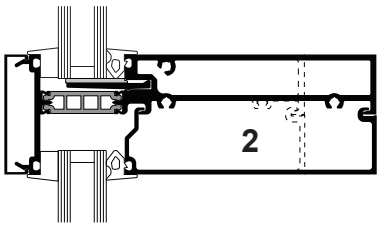


ELEVATION IS NUMBER KEYED TO DETAILS

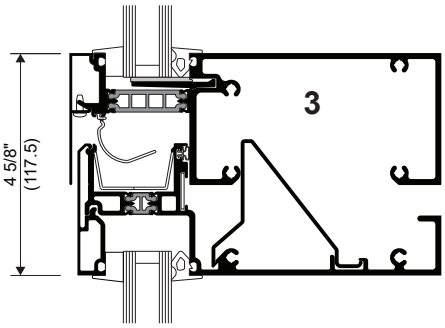
1", 1-1/4" OR 1-5/16" INFILL AVAILABLE



HEAD

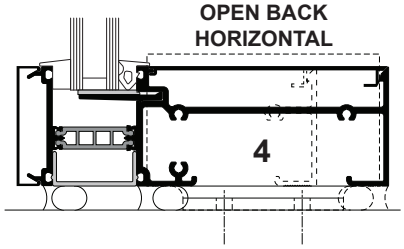


HORIZONTAL

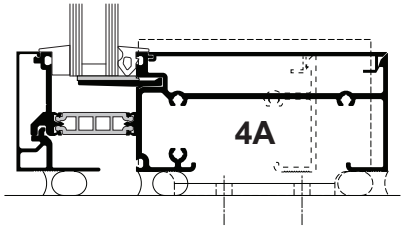


EXPANSION HORIZONTAL
NOTE: 7-3/4" SYSTEM SHOWN,
6-1/4" SYSTEM SIMILAR

OPEN BACK HORIZONTAL

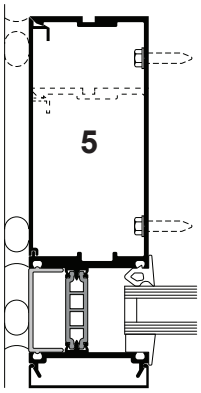


SILL

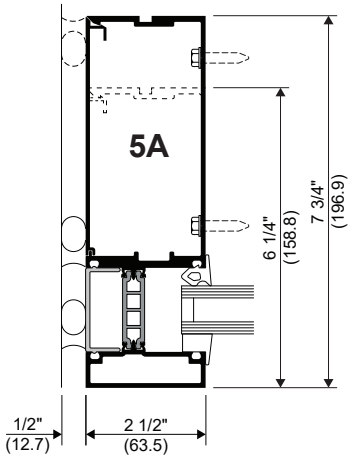


OPTIONAL SILL WITH SNAP-ON PERIMETER COVER

JAMB OPTIONS

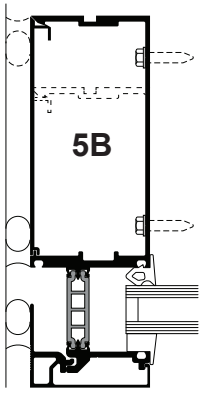


JAMB WITH SNAP-ON COVER (Standard)

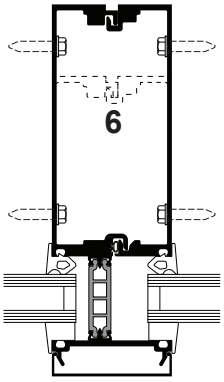


JAMB WITH HOLLOW PRESSURE PLATE (Optional)

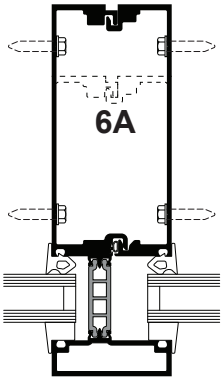
VERTICAL OPTIONS



JAMB WITH SNAP-ON PERIMETER COVER (Optional)



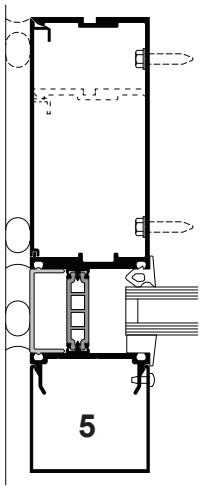
VERTICAL WITH SNAP-ON COVER (Standard)



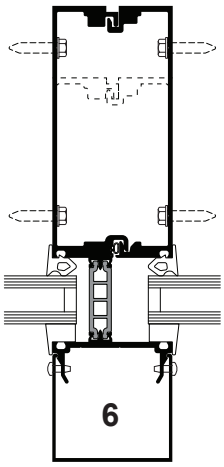
VERTICAL WITH HOLLOW PRESSURE PLATE (Optional)

OPTIONAL 2-1/2" (63.5) DEEP COVER

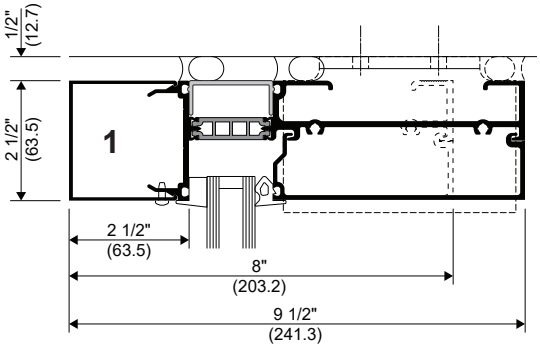
NOTE: DEEP COVER IS NOT APPLICABLE WITH HORIZONTALS (OUTSIDE GAZING)



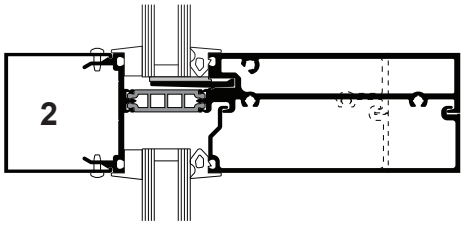
JAMB



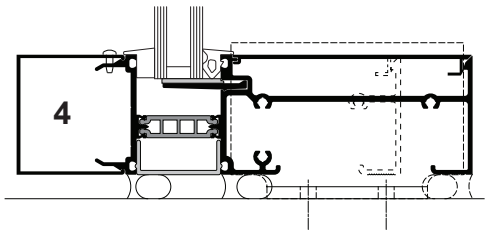
VERTICAL



HEAD

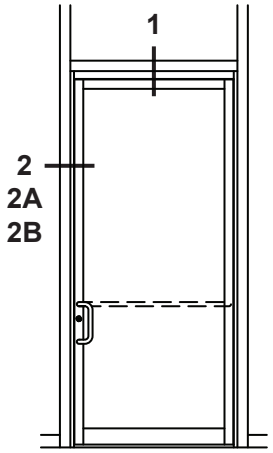


HORIZONTAL



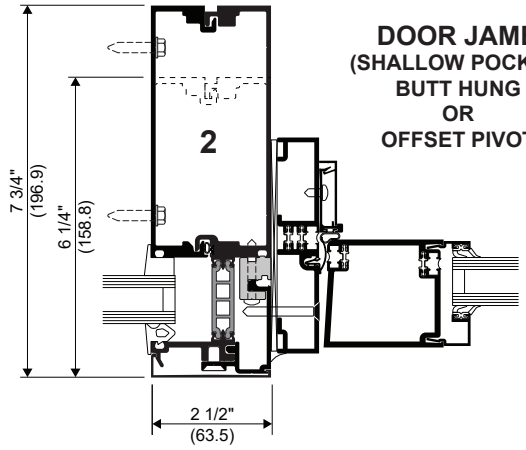
SILL

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

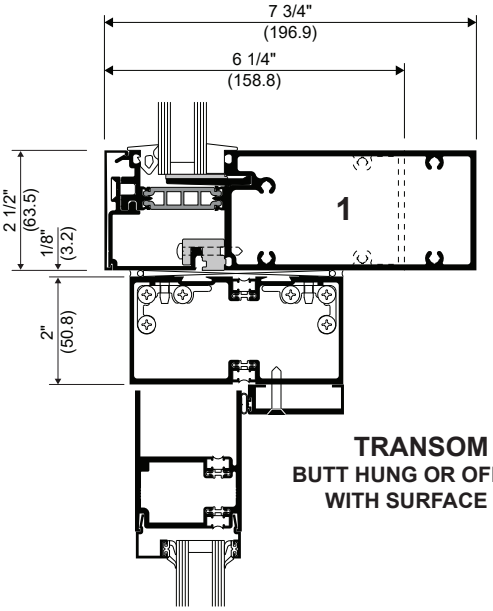


ELEVATION IS NUMBER KEYED TO DETAILS

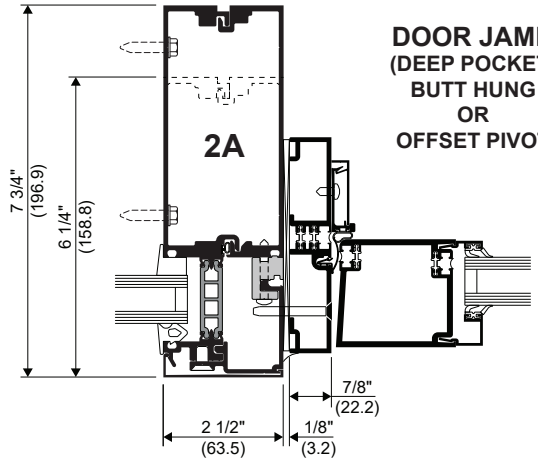
NOTE: 250T INSULPOUR® THERMAL ENTRANCE SHOWN.
OTHER TYPES OF KAWNEER DOORS MAY BE USED WITH THIS FRAMING SYSTEM.
SEE ENTRANCE SECTION FOR ADDITIONAL INFORMATION.



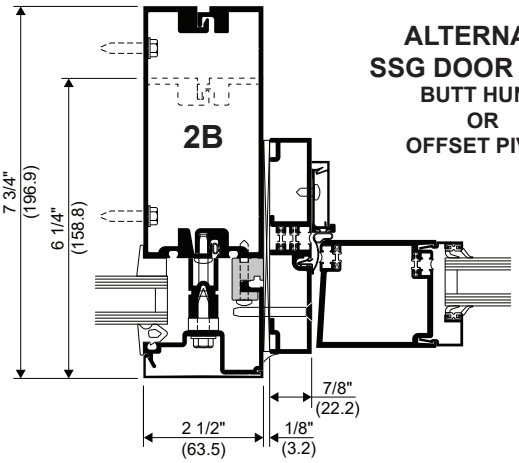
DOOR JAMB
(SHALLOW POCKET)
BUTT HUNG
OR
OFFSET PIVOT



TRANSOM BAR
BUTT HUNG OR OFFSET PIVOT
WITH SURFACE CLOSER

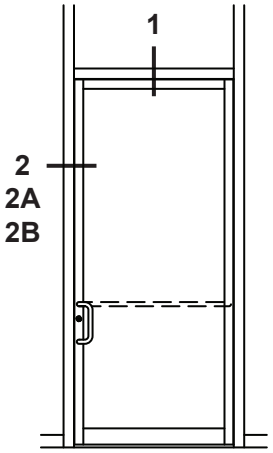


DOOR JAMB
(DEEP POCKET)
BUTT HUNG
OR
OFFSET PIVOT

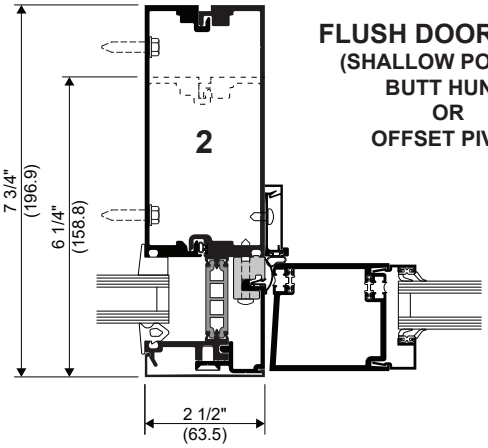


ALTERNATE
SSG DOOR JAMB
BUTT HUNG
OR
OFFSET PIVOT

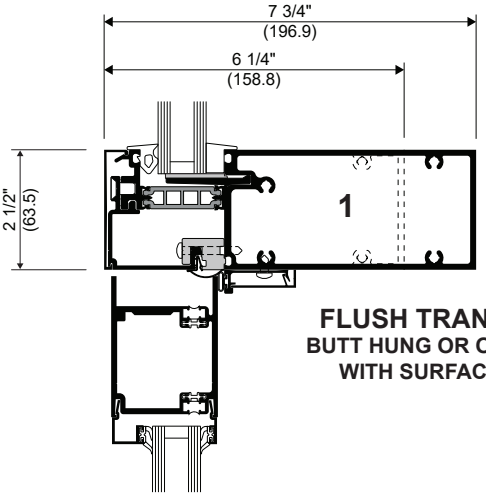
Additional information and CAD details are available at www.kawneer.com



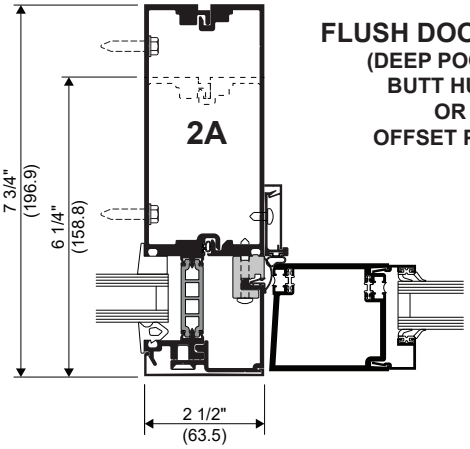
ELEVATION IS NUMBER KEYED TO DETAILS



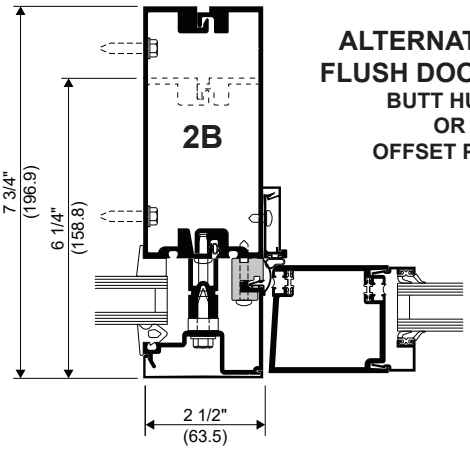
FLUSH DOOR JAMB
(SHALLOW POCKET)
BUTT HUNG
OR
OFFSET PIVOT



FLUSH TRANSOM BAR
BUTT HUNG OR OFFSET PIVOT
WITH SURFACE CLOSER



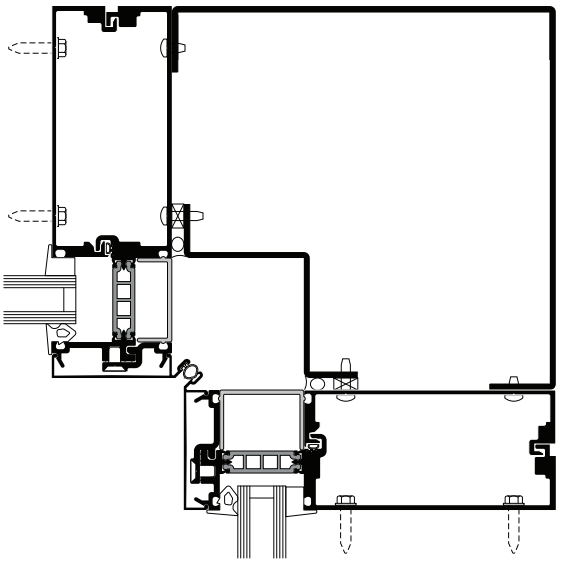
FLUSH DOOR JAMB
(DEEP POCKET)
BUTT HUNG
OR
OFFSET PIVOT



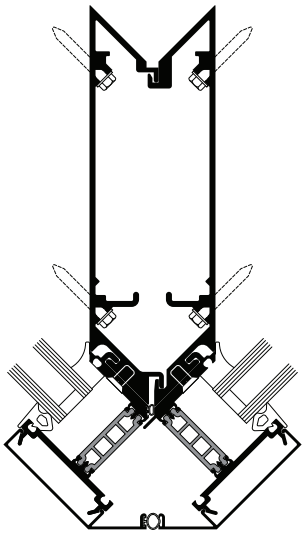
ALTERNATE SSG
FLUSH DOOR JAMB
BUTT HUNG
OR
OFFSET PIVOT

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

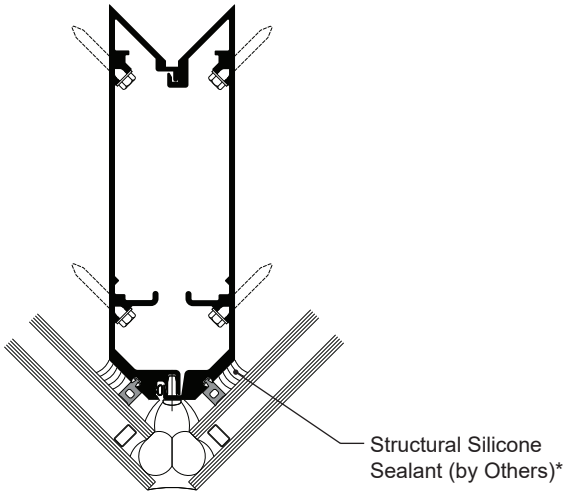
NOTE: 7-3/4" SYSTEM SHOWN, 6-1/4" SYSTEM SIMILAR



90° INSIDE CORNER



90° OUTSIDE DART CORNER

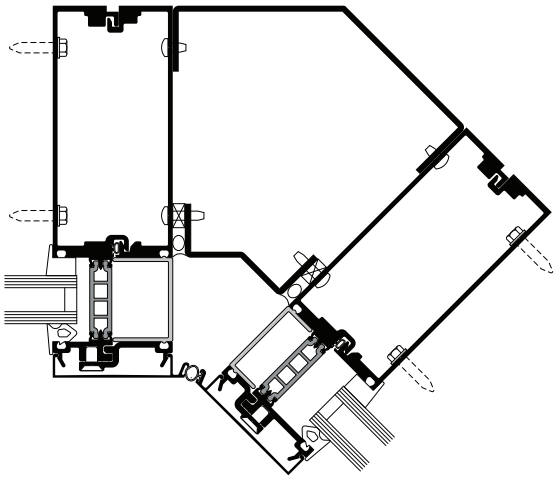


90° OUTSIDE SSG CORNER

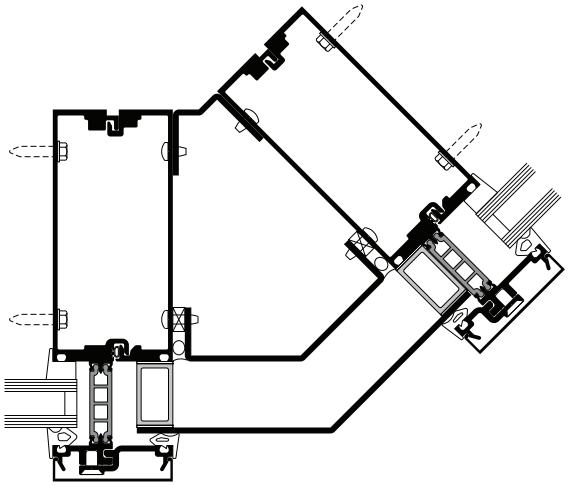
*** INSTALLER NOTE:** Installer is responsible for all required compatibility review and approvals with the Structural Silicone Manufacturer and the Insulating Glass Unit Manufacturer.

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

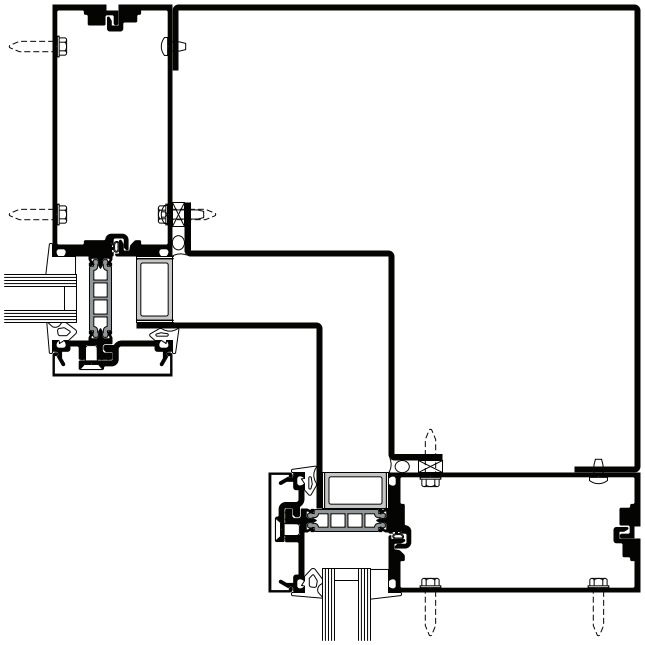
NOTE: 7-3/4" SYSTEM SHOWN, 6-1/4" SYSTEM SIMILAR



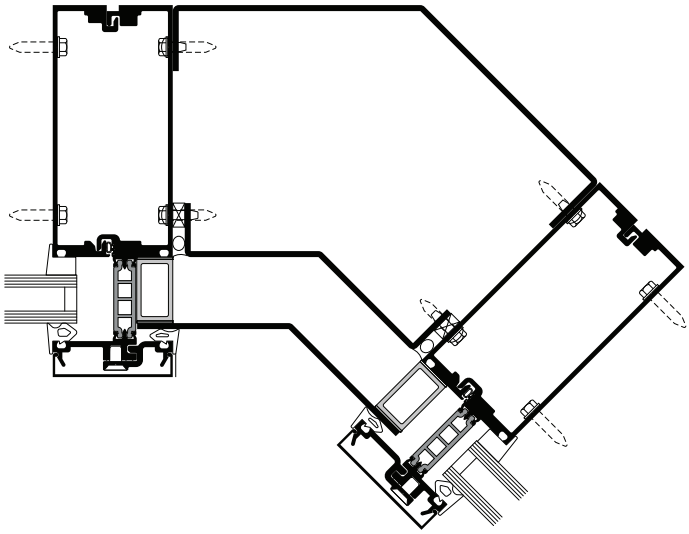
135° INSIDE CORNER
WITHOUT EXPANSION HORIZONTAL



135° OUTSIDE CORNER
WITHOUT EXPANSION HORIZONTAL



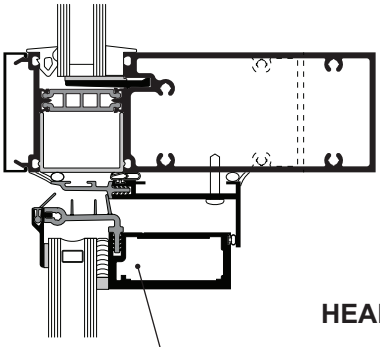
90° INSIDE CORNER
WITH EXPANSION HORIZONTAL



135° INSIDE CORNER
WITH EXPANSION HORIZONTAL

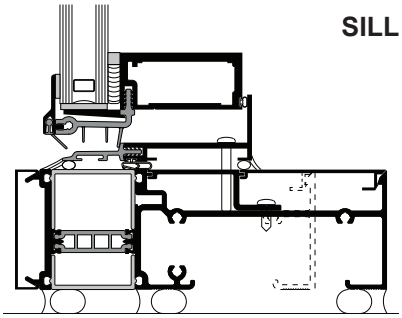
Additional information and CAD details are available at www.kawneer.com

1600UT SS Captured with GLASSvent® UT Window

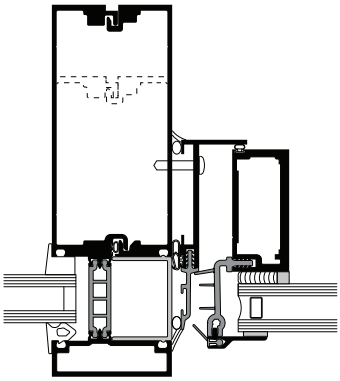


HEAD

Structural Silicone
Sealant (by Others)*

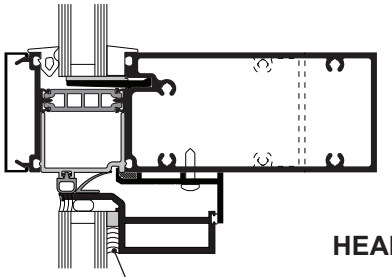


SILL



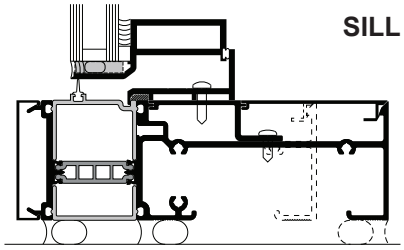
JAMB
AT CAPTURED VERTICAL

1600UT SS SSG with GLASSvent® Window for Curtain Wall

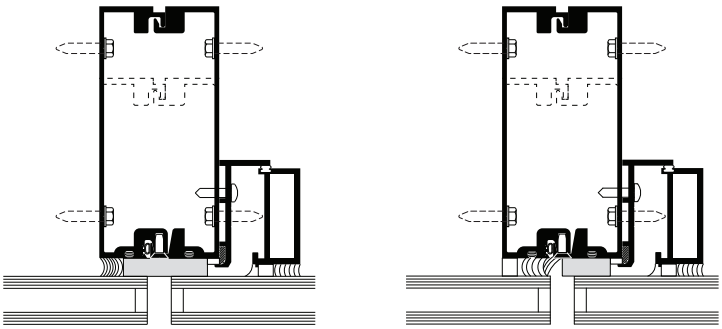


HEAD

Structural Silicone
Sealant (by Others)*



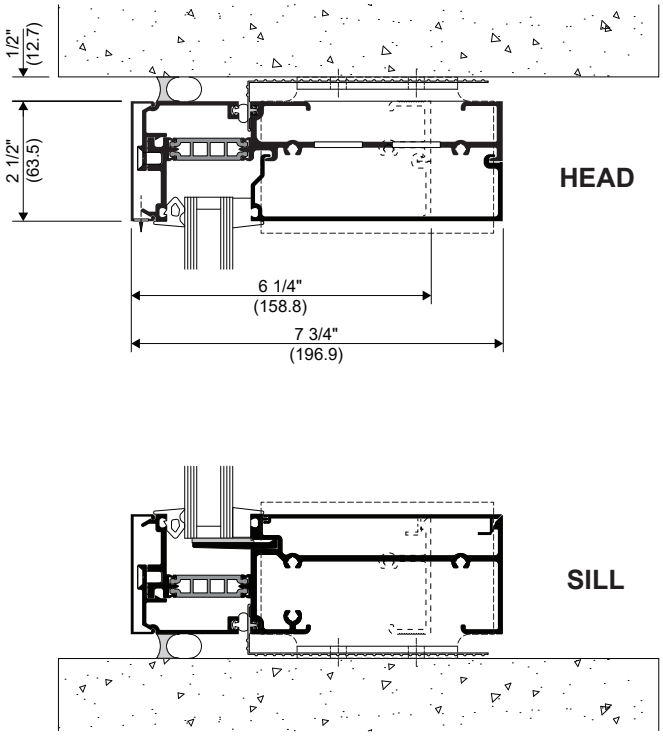
SILL



JAMB
AT SSG VERTICAL

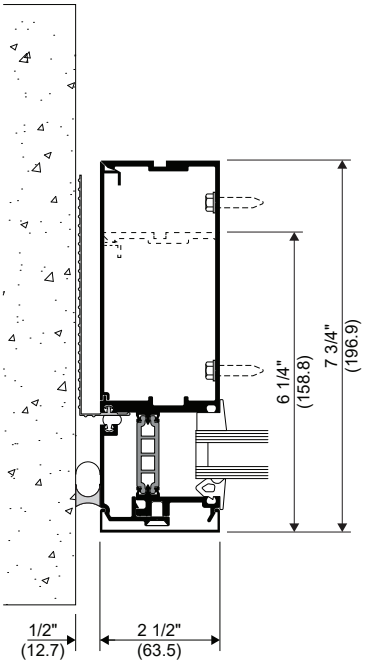
*** INSTALLER NOTE:** Installer is responsible for all required compatibility review and approvals with the Structural Silicone Manufacturer and the Insulating Glass Unit Manufacturer.

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



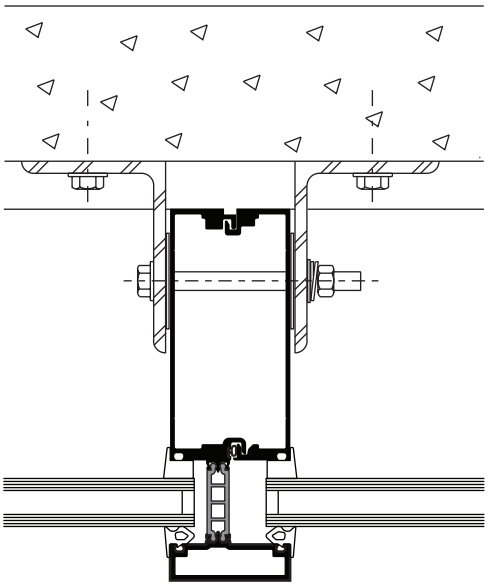
HEAD

SILL

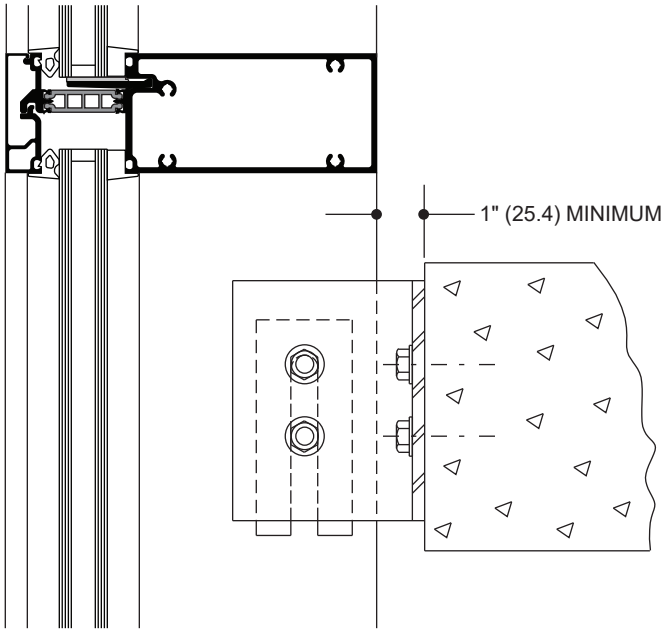


JAMB

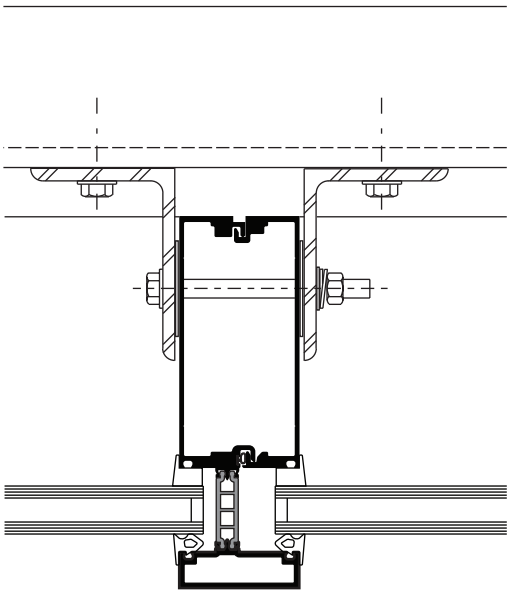
Actual project conditions will determine specific anchor design. Details on this page are for reference only.



ANCHORING TO FLOOR SLAB

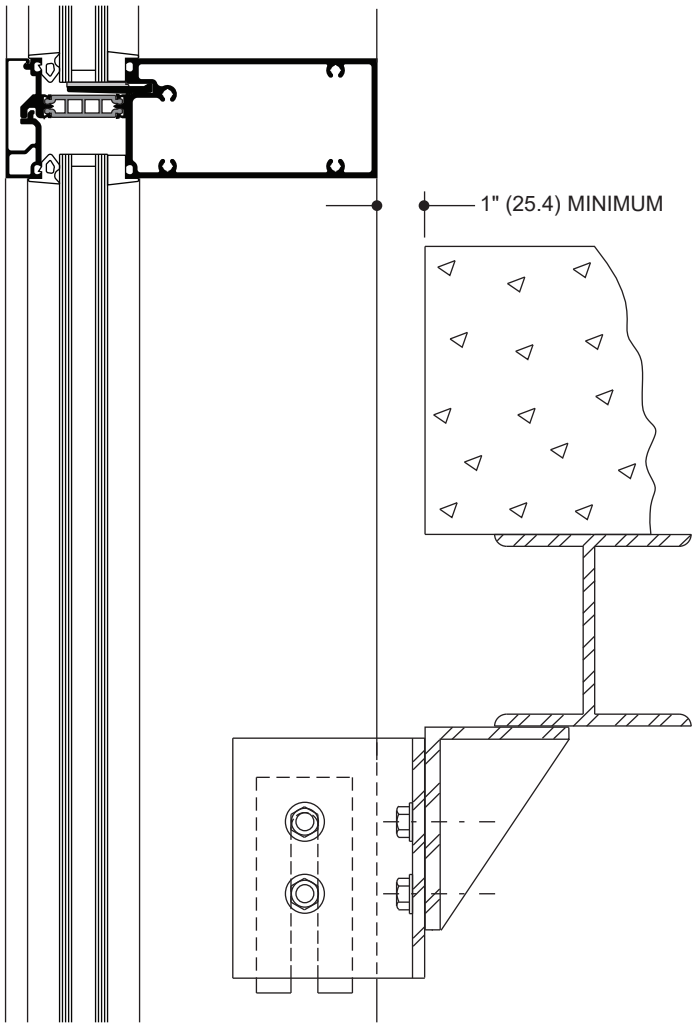


NOTE: 7-3/4" SYSTEM SHOWN, 6-1/4" SYSTEM SIMILAR

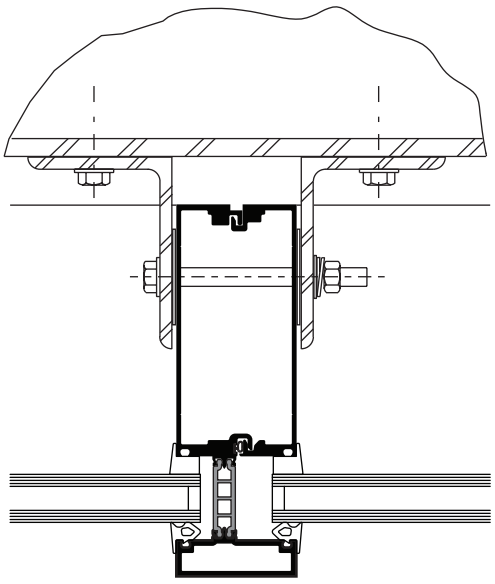


ANCHORING TO SUPPORT STEEL

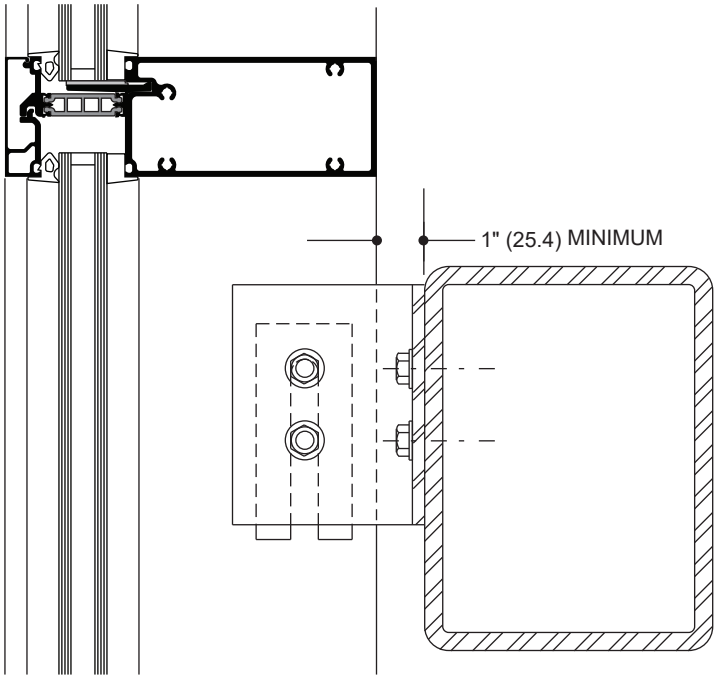
NOTE: 7-3/4" SYSTEM SHOWN,
6-1/4" SYSTEM SIMILAR



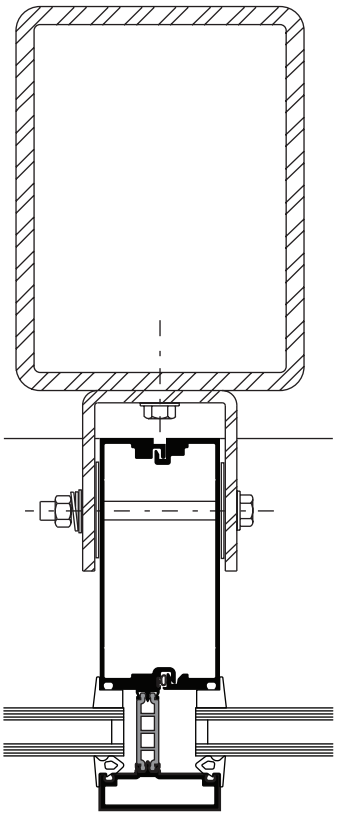
Actual project conditions will determine specific anchor design. Details on this page are for reference only.



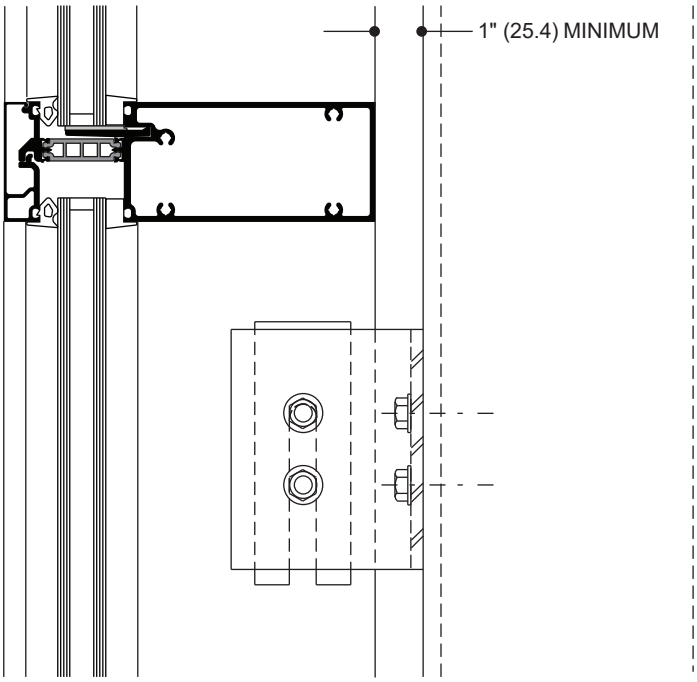
ANCHORING TO HORIZONTAL STRUCTURAL STEEL



NOTE: 7-3/4" SYSTEM SHOWN, 6-1/4" SYSTEM SIMILAR

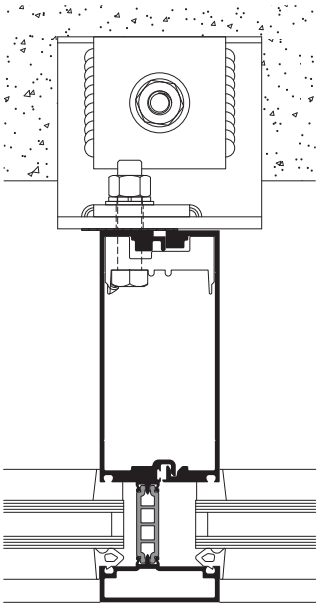


ANCHORING TO VERTICAL STRUCTURAL STEEL

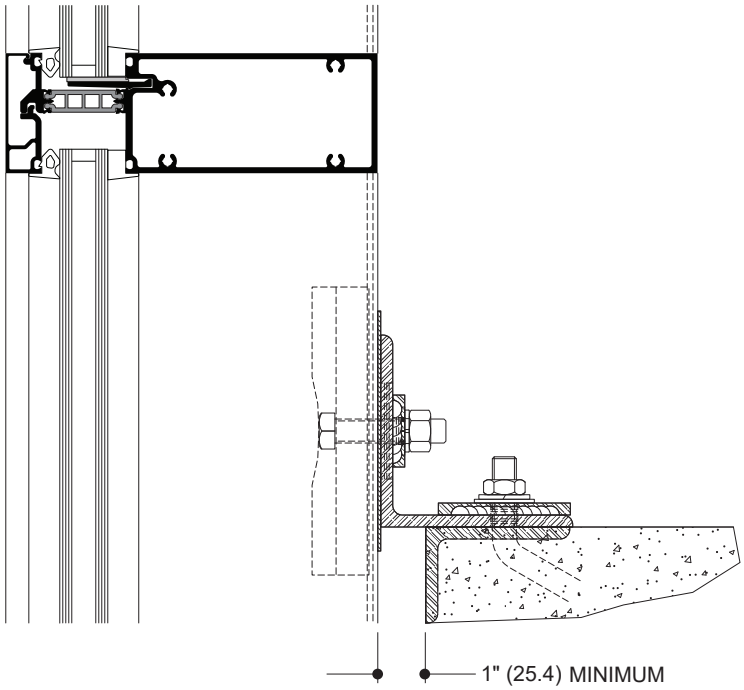


NOTE: 7-3/4" SYSTEM SHOWN, 6-1/4" SYSTEM SIMILAR

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



SINGLE DEADLOAD BACK ANCHOR



NOTE: 7-3/4" SYSTEM SHOWN, 6-1/4" SYSTEM SIMILAR

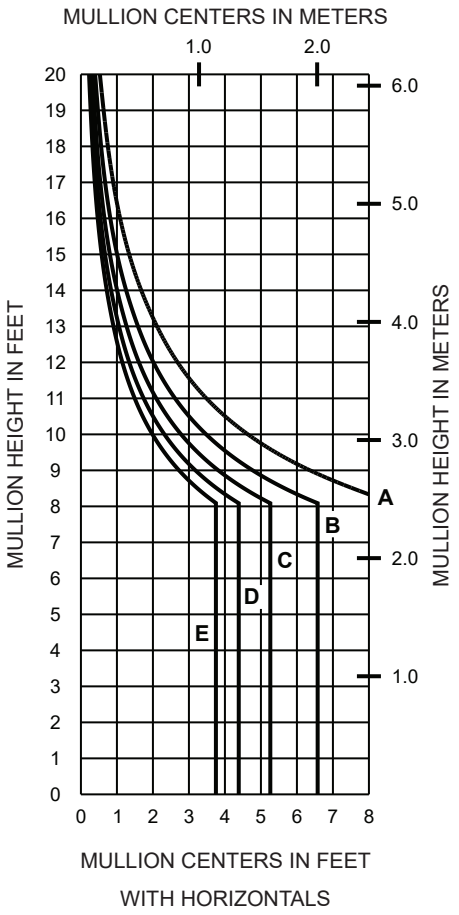
WIND LOAD CHARTS

Mullions are designed for deflection limitations in accordance with AAMA TIR-A11 of L/175 up to 13' 6" and L/240 +1/4" above 13' 6". These curves are for mullions WITH HORIZONTALS and are based on engineering calculations for stress and deflection. Allowable wind load stress for ALUMINUM 15,152 psi (104 MPa), STEEL 30,000 psi (207 MPa). Charted curves, in all cases are for the limiting value. Wind load charts contained herein are based upon nominal wind load utilized in allowable stress design. A conversion from Load Resistance Factor Design (LRFD) is provided. To convert ultimate wind loads to nominal loads, multiply ultimate wind loads by a factor of 0.6 per ASCE/SEI 7. A 4/3 increase in allowable stress has not been used to develop these curves. For special situations not covered by these curves, contact your Kawneer representative for additional information.

DEADLOAD CHARTS

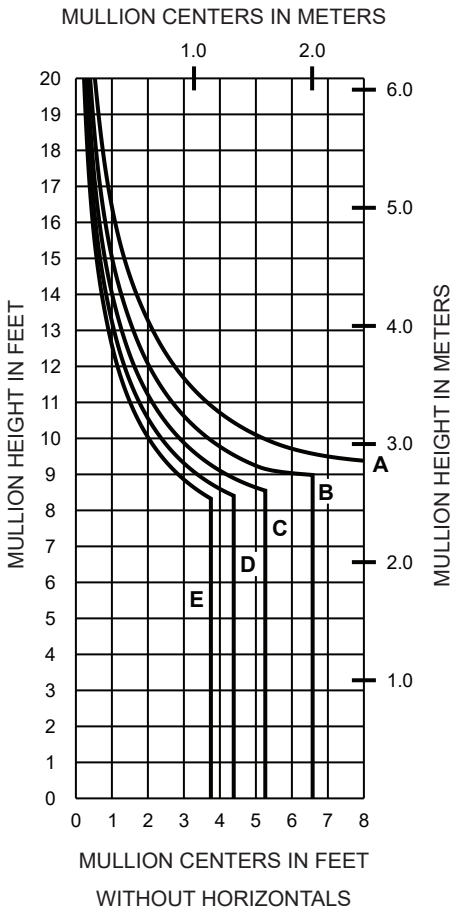
Horizontal or deadload limitations are based upon 1/8" (3.2), maximum allowable deflection at the center of an intermediate horizontal member. The accompanying charts are calculated for 1" (25.4) thick insulating glass or 1-5/16" (33.34) thick insulating glass supported on two setting blocks placed at the loading points shown.

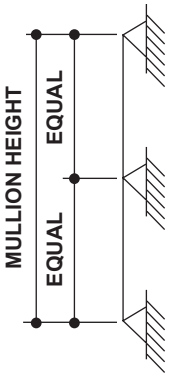
SINGLE SPAN



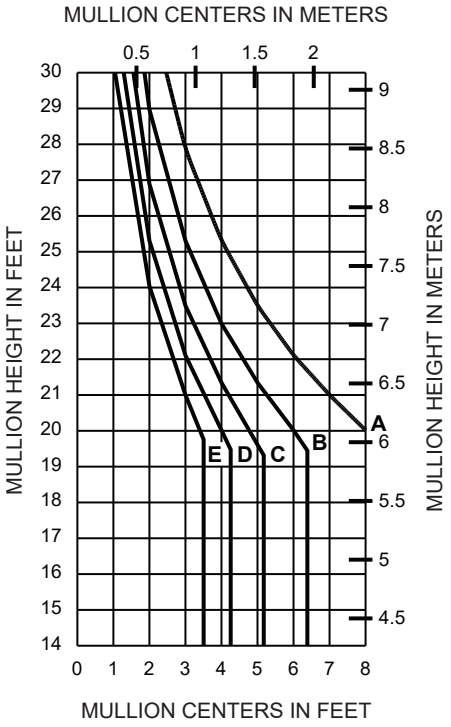
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	30 PSF (1440)	50 PSF (2400)
B =	40 PSF (1920)	67 PSF (3200)
C =	50 PSF (2400)	83 PSF (4000)
D =	60 PSF (2880)	100 PSF (4790)
E =	70 PSF (3360)	117 PSF (5600)

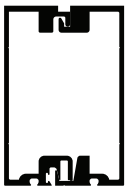
SINGLE SPAN





TWIN SPAN



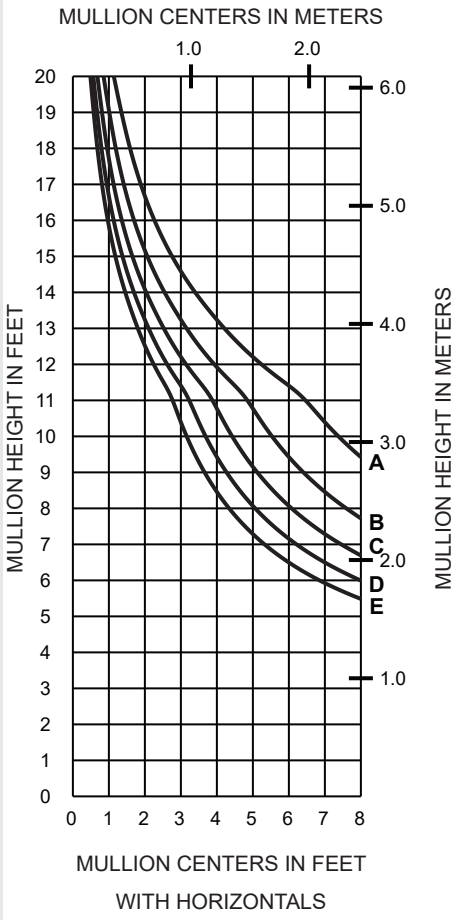


185006 185005

I = 4.553 (424.47 x 10^4)

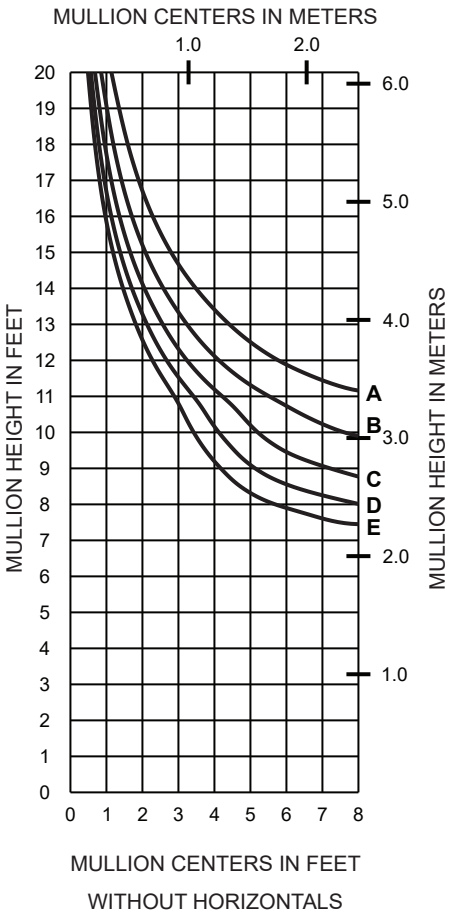
S = 2.400 (62.78 x 10^3)

SINGLE SPAN

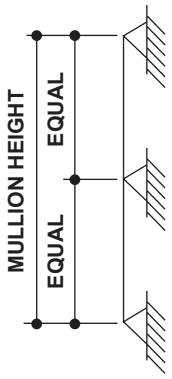


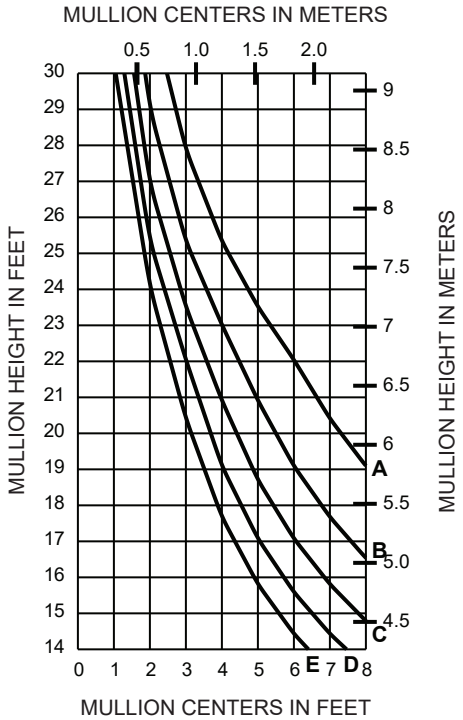
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	30 PSF (1440)	50 PSF (2400)
B =	40 PSF (1920)	67 PSF (3200)
C =	50 PSF (2400)	83 PSF (4000)
D =	60 PSF (2880)	100 PSF (4790)
E =	70 PSF (3360)	117 PSF (5600)

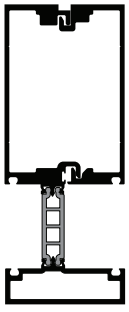
SINGLE SPAN



TWIN SPAN



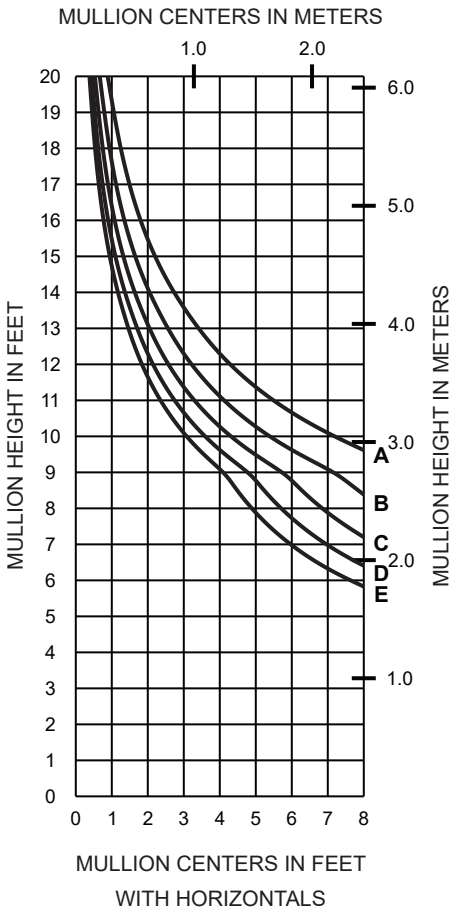




185223 185004

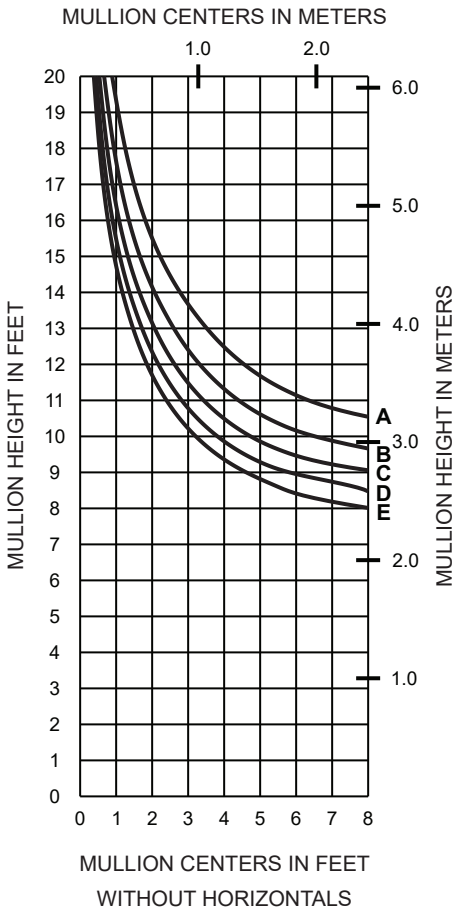
WINDLOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505

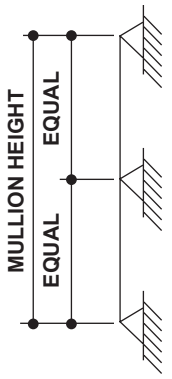
SINGLE SPAN



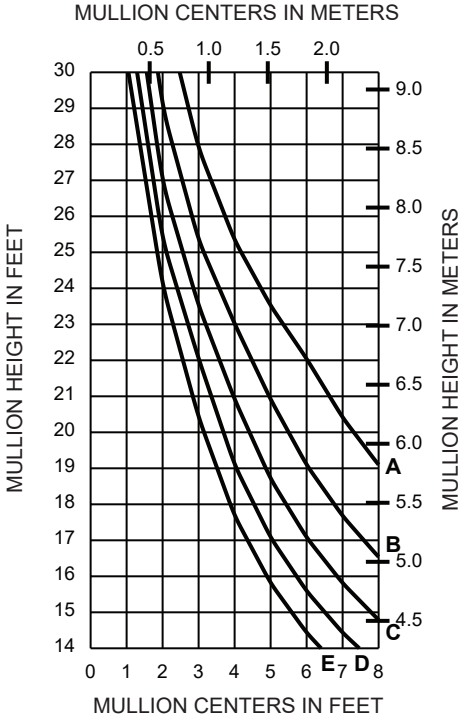
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	30 PSF (1440)	50 PSF (2400)
B =	40 PSF (1920)	67 PSF (3200)
C =	50 PSF (2400)	83 PSF (4000)
D =	60 PSF (2880)	100 PSF (4790)
E =	70 PSF (3360)	117 PSF (5600)

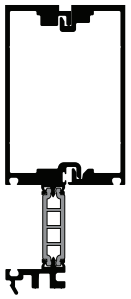
SINGLE SPAN





TWIN SPAN

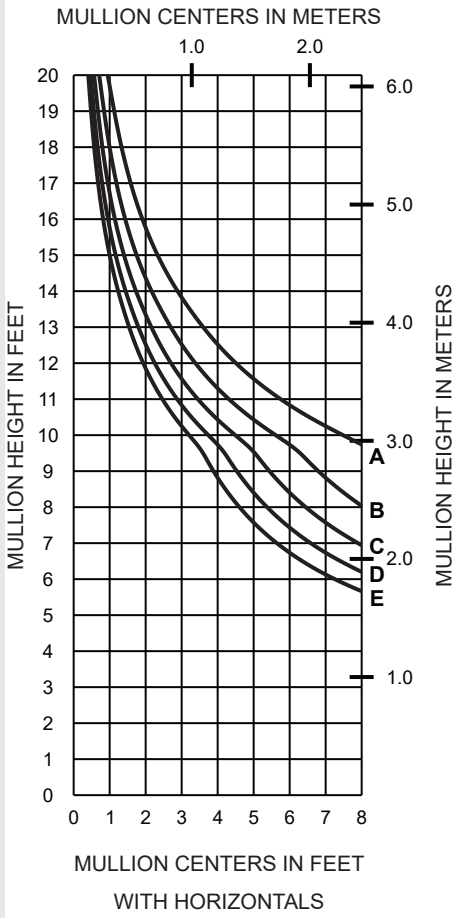




184225 185004

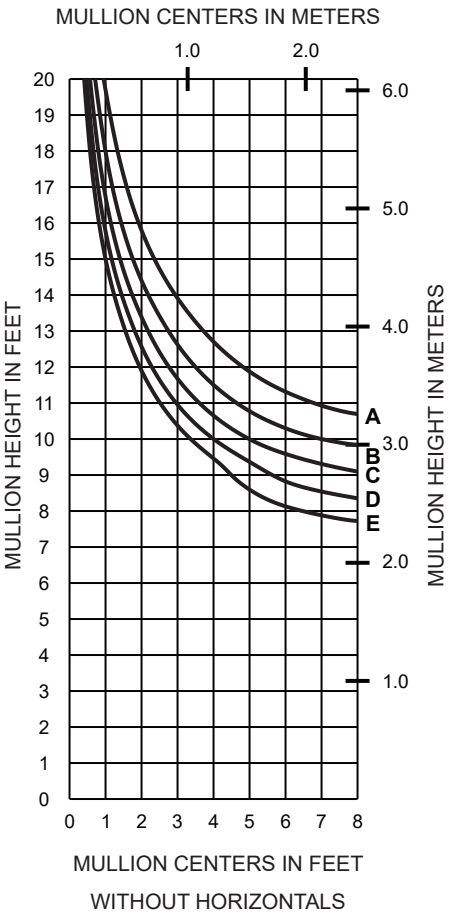
WINDLOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505

SINGLE SPAN

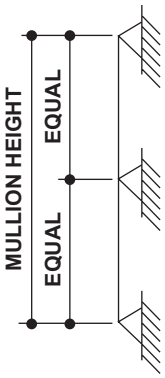


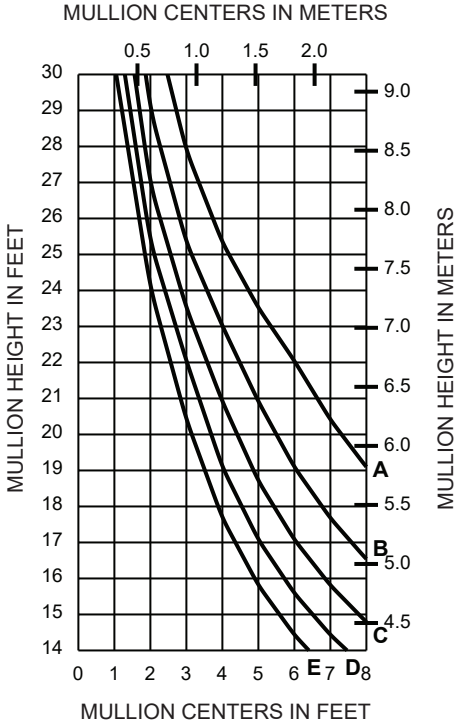
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	30 PSF (1440)	50 PSF (2400)
B =	40 PSF (1920)	67 PSF (3200)
C =	50 PSF (2400)	83 PSF (4000)
D =	60 PSF (2880)	100 PSF (4790)
E =	70 PSF (3360)	117 PSF (5600)

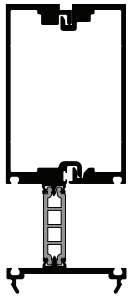
SINGLE SPAN



TWIN SPAN



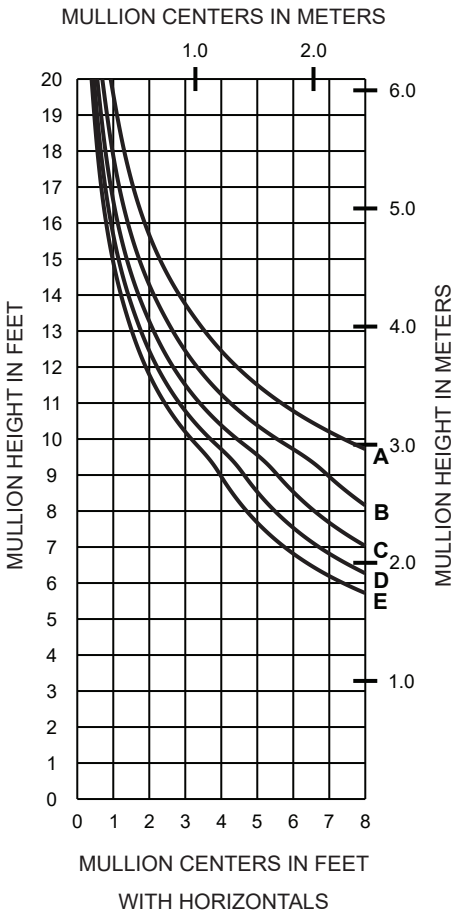




185233 185004

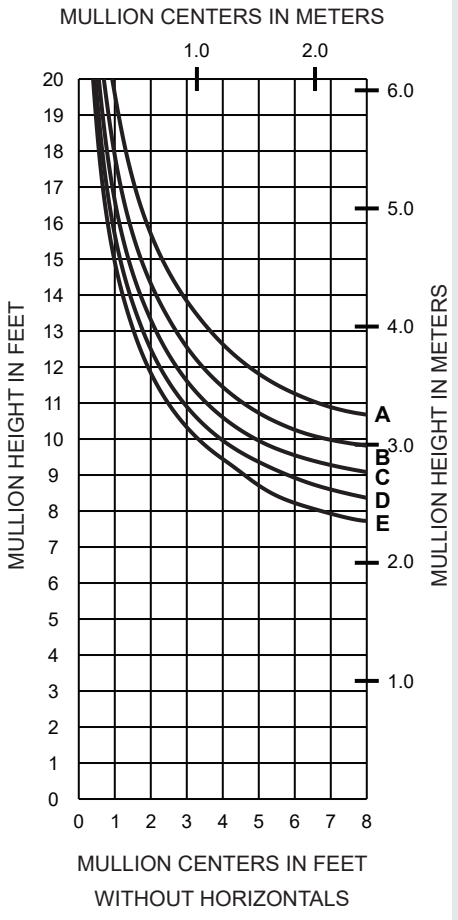
WINDLOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505

SINGLE SPAN

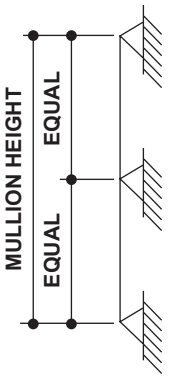


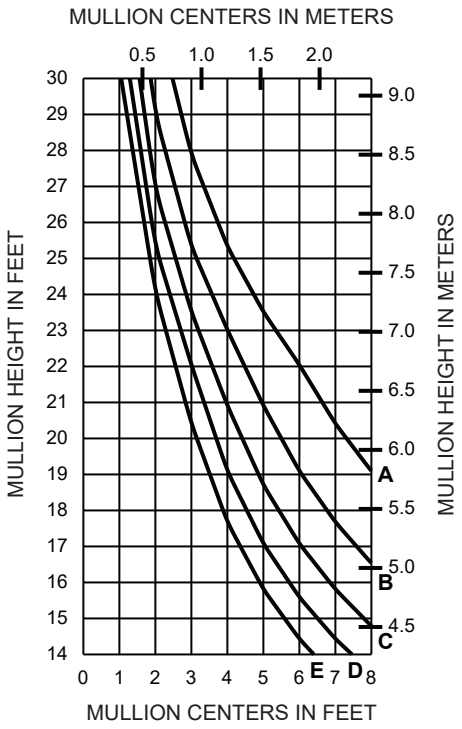
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	30 PSF (1440)	50 PSF (2400)
B =	40 PSF (1920)	67 PSF (3200)
C =	50 PSF (2400)	83 PSF (4000)
D =	60 PSF (2880)	100 PSF (4790)
E =	70 PSF (3360)	117 PSF (5600)

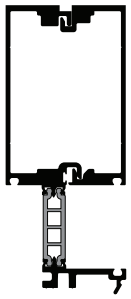
SINGLE SPAN



TWIN SPAN



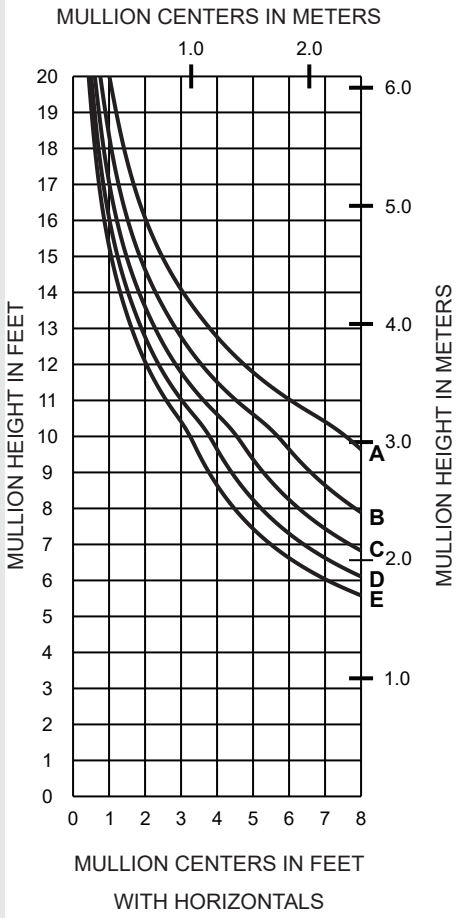




185235 185004

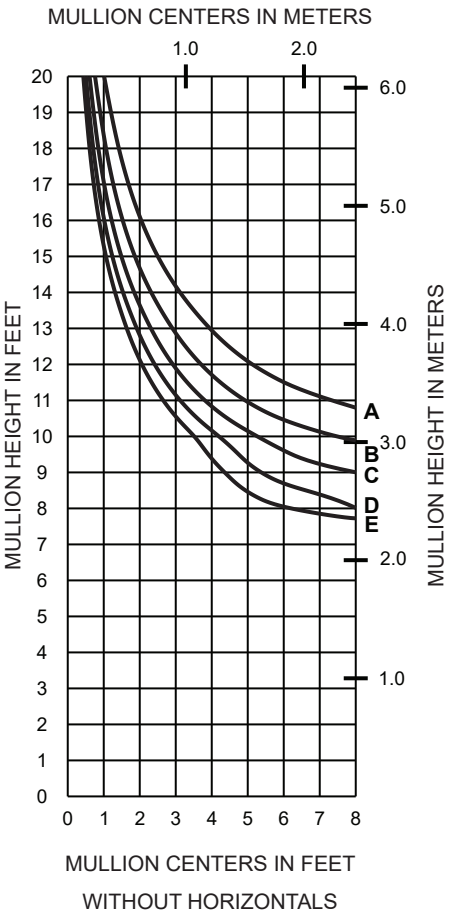
WINDLOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505

SINGLE SPAN

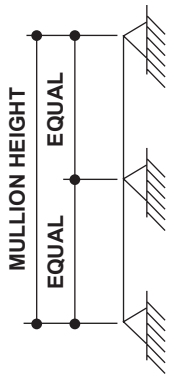


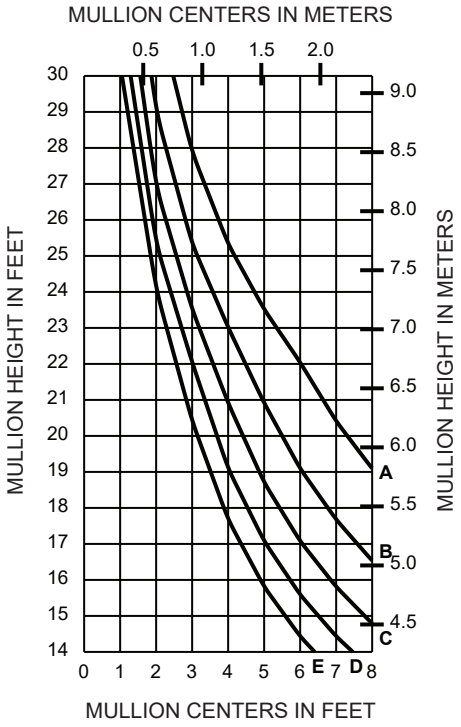
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	30 PSF (1440)	50 PSF (2400)
B =	40 PSF (1920)	67 PSF (3200)
C =	50 PSF (2400)	83 PSF (4000)
D =	60 PSF (2880)	100 PSF (4790)
E =	70 PSF (3360)	117 PSF (5600)

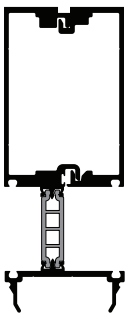
SINGLE SPAN



TWIN SPAN



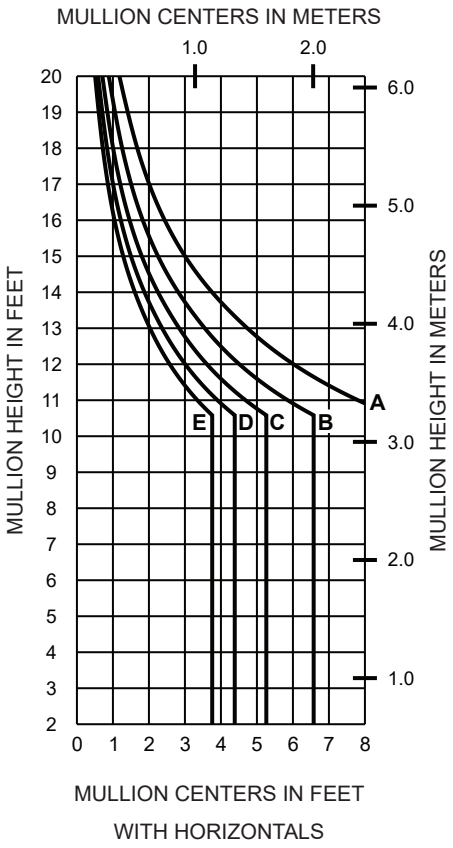




185263 185004

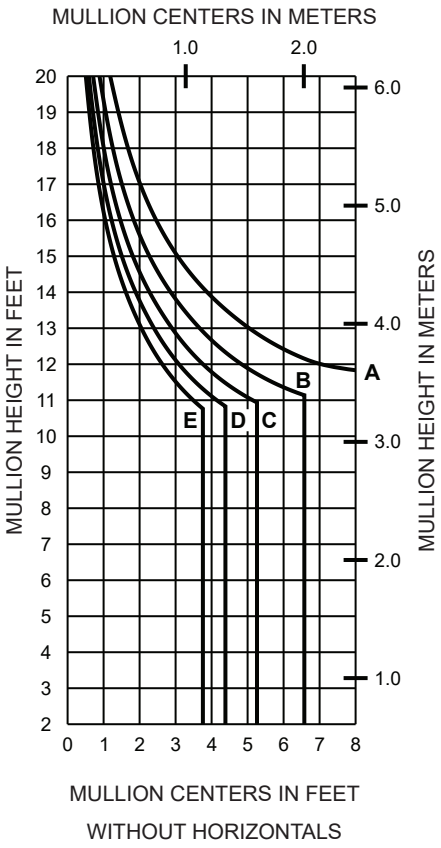
WINDLOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505

SINGLE SPAN

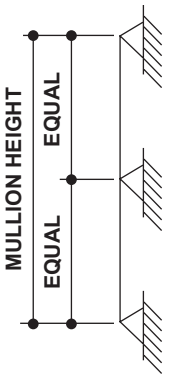


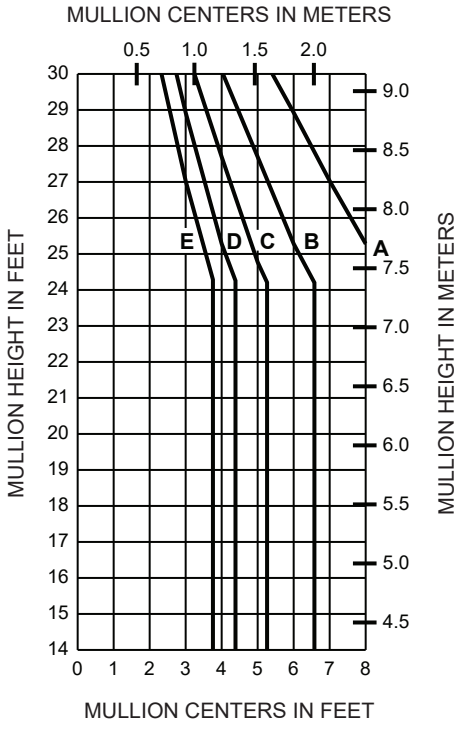
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	30 PSF (1440)	50 PSF (2400)
B =	40 PSF (1920)	67 PSF (3200)
C =	50 PSF (2400)	83 PSF (4000)
D =	60 PSF (2880)	100 PSF (4790)
E =	70 PSF (3360)	117 PSF (5600)

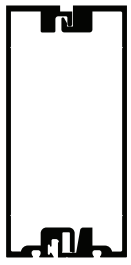
SINGLE SPAN



TWIN SPAN



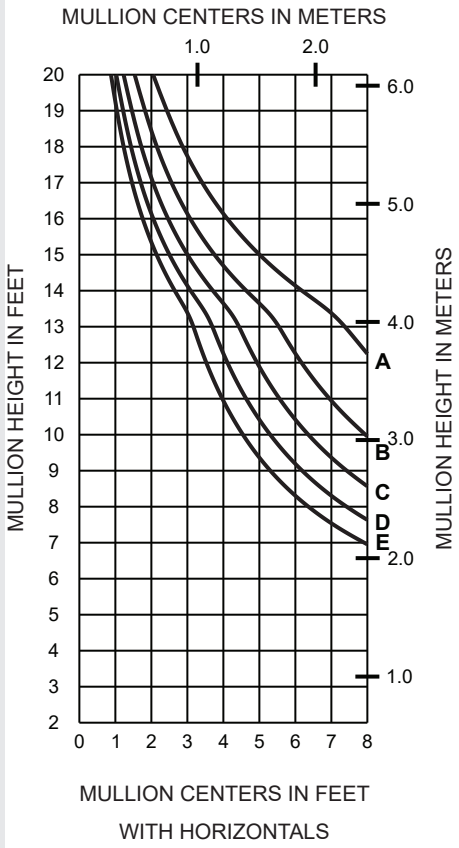




184005 184006

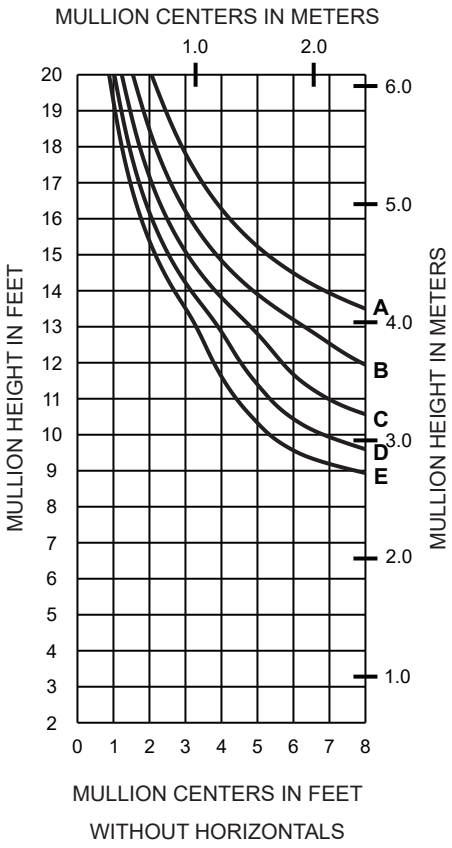
I = 10.198 (424.47 x 10^4)
S = 3.831 (62.78 x 10^3)

SINGLE SPAN

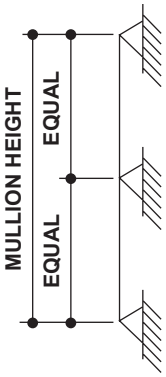


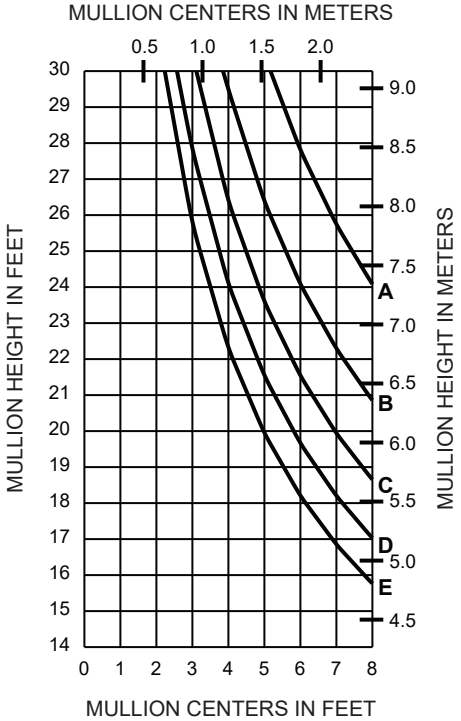
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	30 PSF (1440)	50 PSF (2400)
B =	40 PSF (1920)	67 PSF (3200)
C =	50 PSF (2400)	83 PSF (4000)
D =	60 PSF (2880)	100 PSF (4790)
E =	70 PSF (3360)	117 PSF (5600)

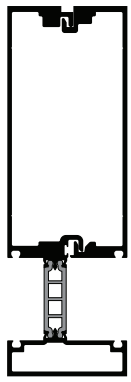
SINGLE SPAN



TWIN SPAN



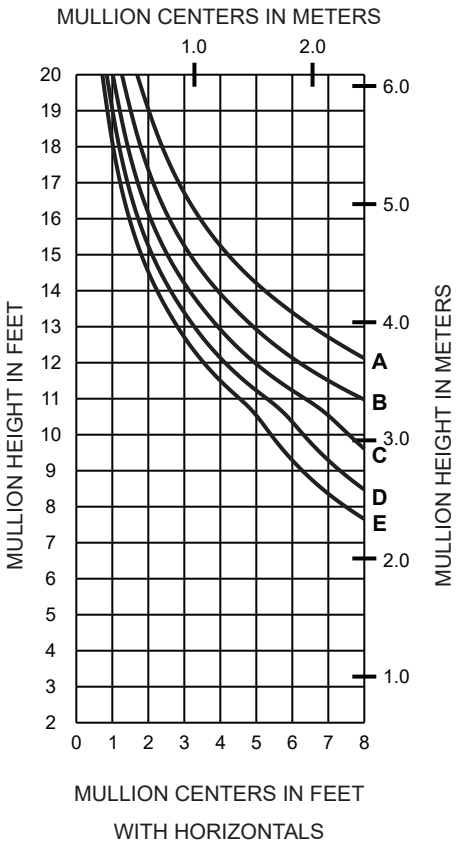




184223 **184004**

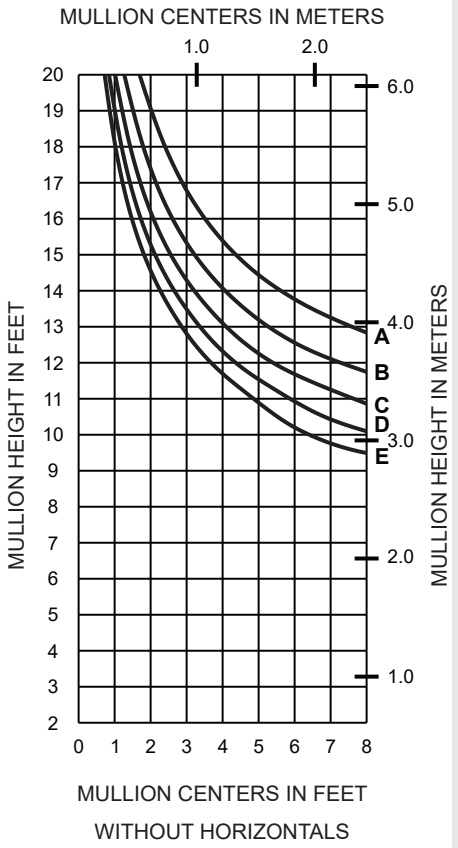
WINDLOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505

SINGLE SPAN

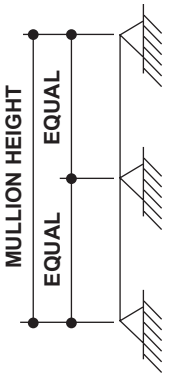


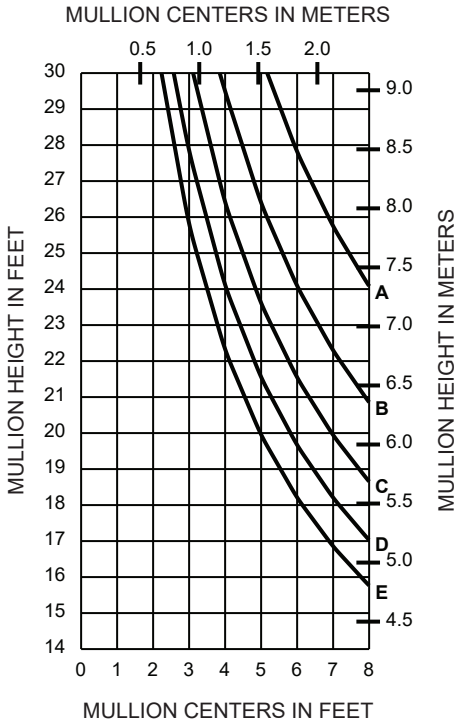
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	30 PSF (1440)	50 PSF (2400)
B =	40 PSF (1920)	67 PSF (3200)
C =	50 PSF (2400)	83 PSF (4000)
D =	60 PSF (2880)	100 PSF (4790)
E =	70 PSF (3360)	117 PSF (5600)

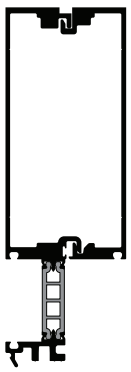
SINGLE SPAN



TWIN SPAN



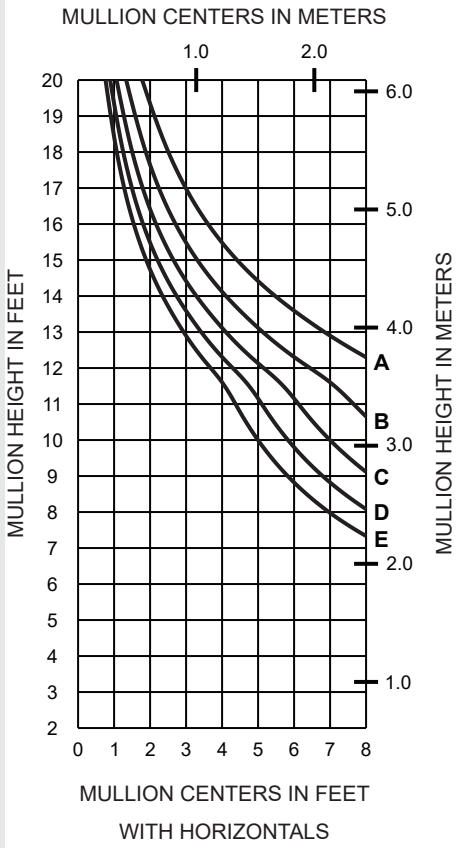




184225 184004

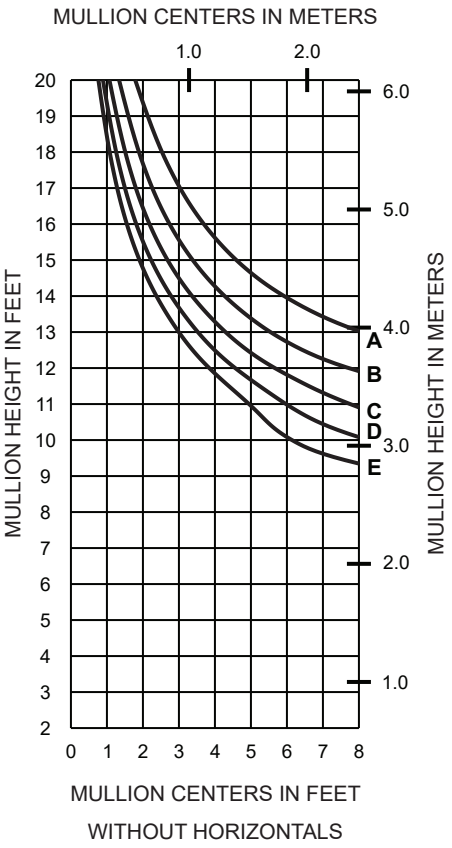
WINDLOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505

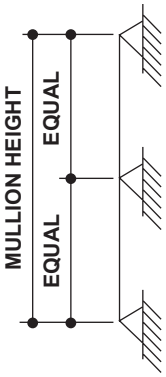
SINGLE SPAN



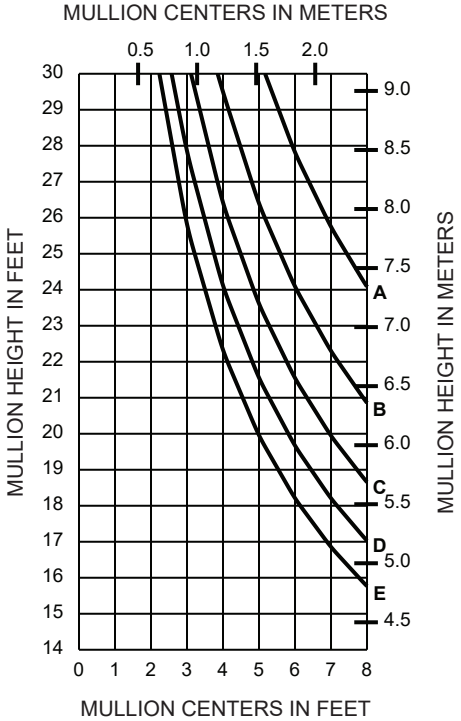
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	30 PSF (1440)	50 PSF (2400)
B =	40 PSF (1920)	67 PSF (3200)
C =	50 PSF (2400)	83 PSF (4000)
D =	60 PSF (2880)	100 PSF (4790)
E =	70 PSF (3360)	117 PSF (5600)

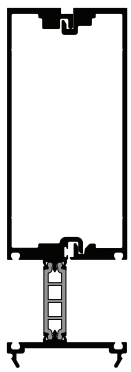
SINGLE SPAN





TWIN SPAN

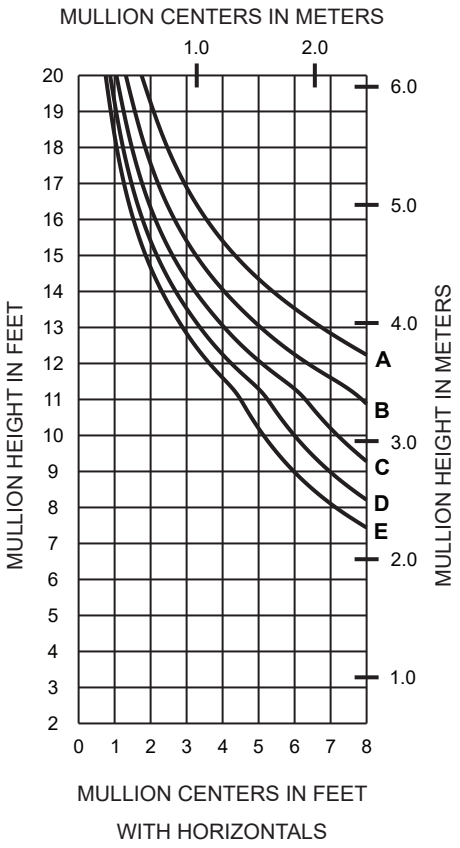




184233 184004

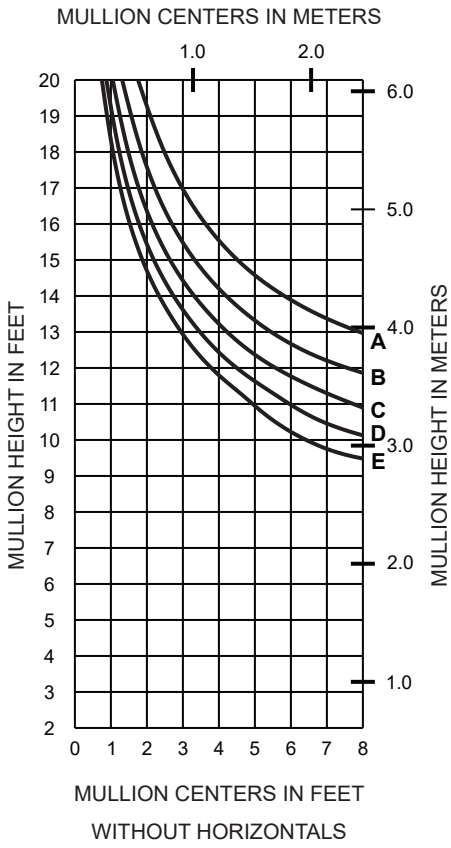
WINDLOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505

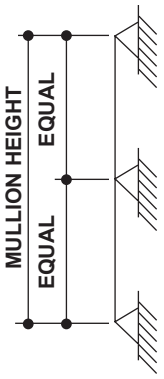
SINGLE SPAN



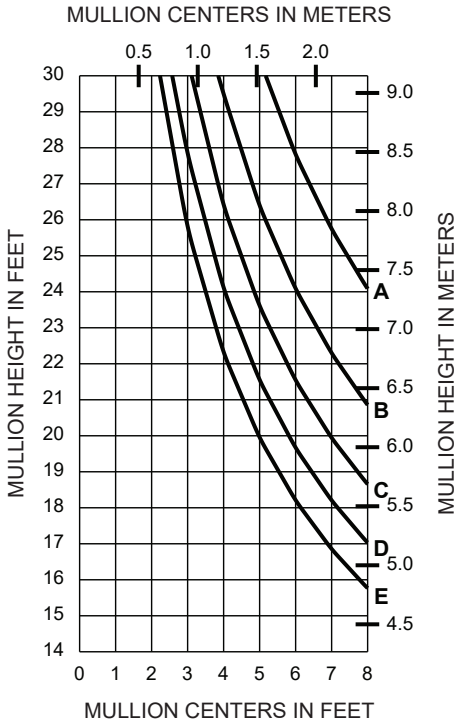
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	30 PSF (1440)	50 PSF (2400)
B =	40 PSF (1920)	67 PSF (3200)
C =	50 PSF (2400)	83 PSF (4000)
D =	60 PSF (2880)	100 PSF (4790)
E =	70 PSF (3360)	117 PSF (5600)

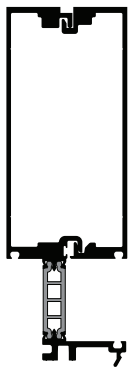
SINGLE SPAN





TWIN SPAN

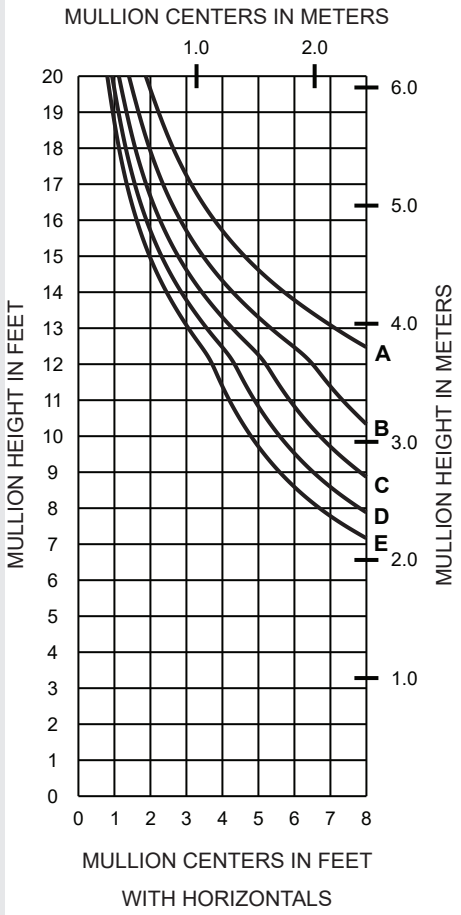




184235 184004

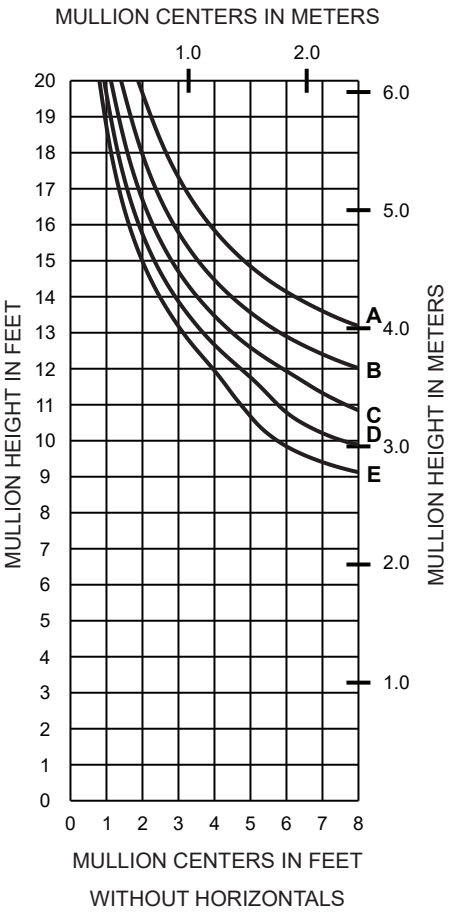
WINDLOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505

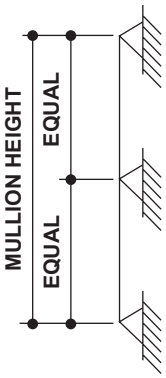
SINGLE SPAN



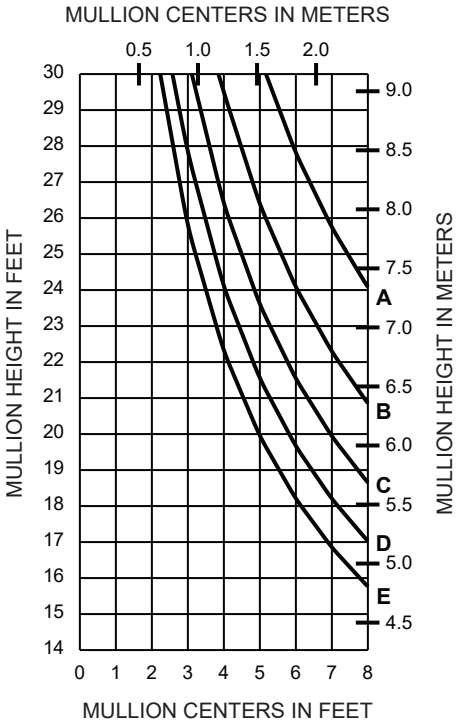
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	30 PSF (1440)	50 PSF (2400)
B =	40 PSF (1920)	67 PSF (3200)
C =	50 PSF (2400)	83 PSF (4000)
D =	60 PSF (2880)	100 PSF (4790)
E =	70 PSF (3360)	117 PSF (5600)

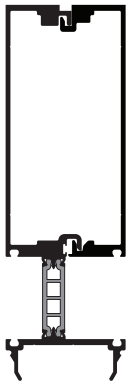
SINGLE SPAN





TWIN SPAN

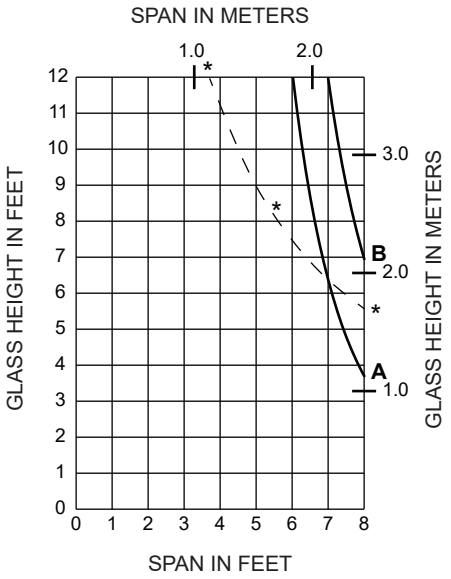




184263 184004

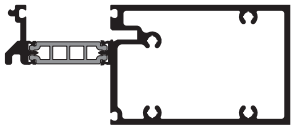
WINDLOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505

(1" OR 1-1/4" INFILL)



A = 1/4 POINT LOADING
B = 1/8 POINT LOADING
C = 1/10 POINT LOADING

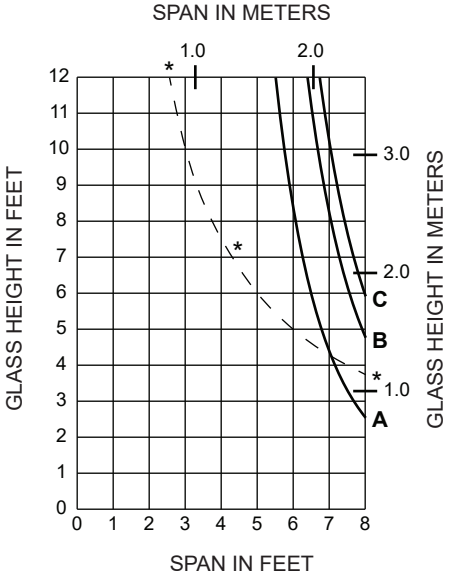
NOTE: GLASS CHAIR CENTERLINE SHOULD NOT BE LESS THAN 6-1/2" (165.1) FROM EDGE OF GLASS.



185224

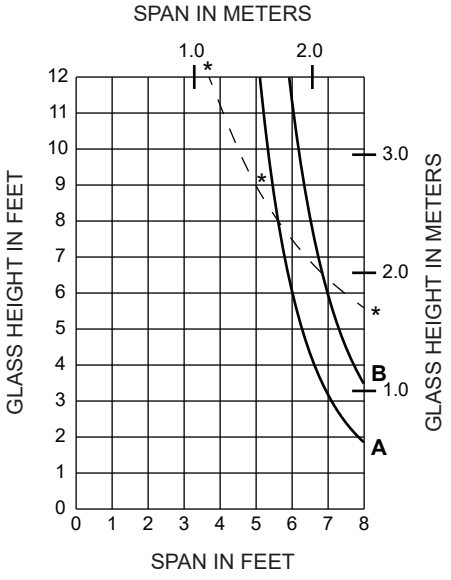
I = 1.841 (76.63 x 10^4)
S = 1.431 (23.45 x 10^3)

(1-5/16" INFILL)



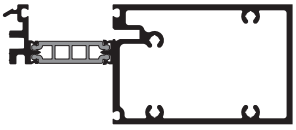
*** NOTE:**
DASHED LINE REPRESENTS ALLOWABLE MAXIMUM GLASS LIMIT FOR A 4-1/2" LONG GLASS CHAIR. GLASS SIZES ABOVE THIS LINE REQUIRE THE GLASS CHAIR AND SETTING BLOCK TO BE DOUBLED UP (SIDE BY SIDE) AT POINTS REQUIRED.

(1" OR 1-1/4" INFILL)



A = 1/4 POINT LOADING
B = 1/8 POINT LOADING
C = 1/10 POINT LOADING

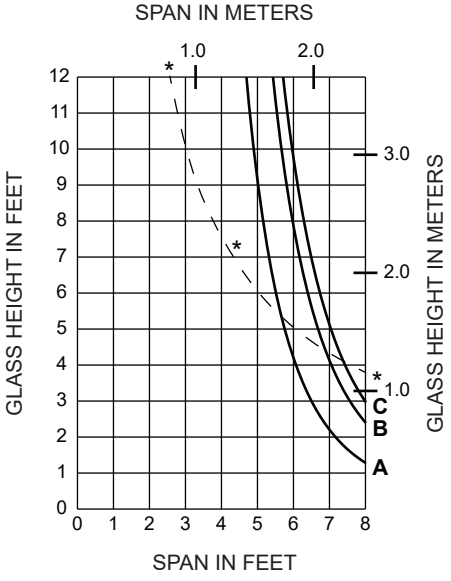
NOTE: GLASS CHAIR CENTERLINE SHOULD NOT BE LESS THAN 6-1/2" (165.1) FROM EDGE OF GLASS.



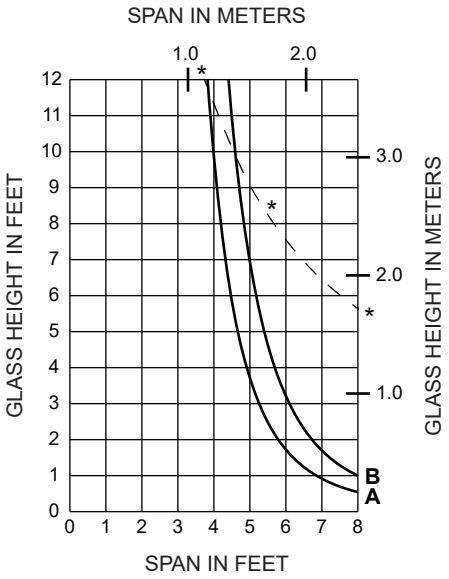
185227

I = 1.841 (76.63 x 10^4)
S = 1.431 (23.45 x 10^3)

(1-5/16" INFILL)

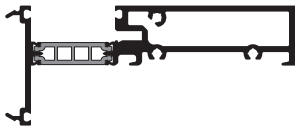


(1" OR 1-1/4" INFILL)



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

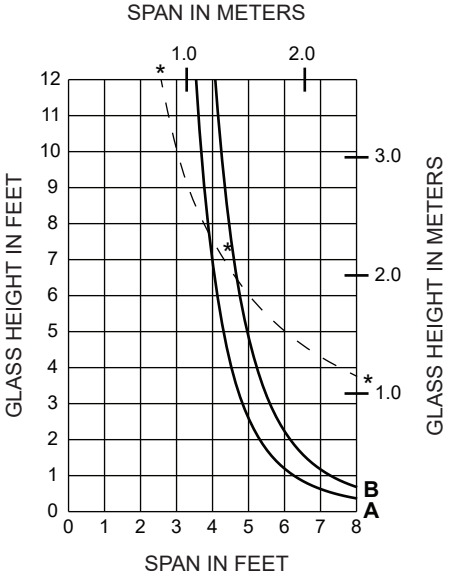
NOTE: GLASS CHAIR CENTERLINE SHOULD NOT BE LESS THAN 6-1/2" (165.1) FROM EDGE OF GLASS.



185229

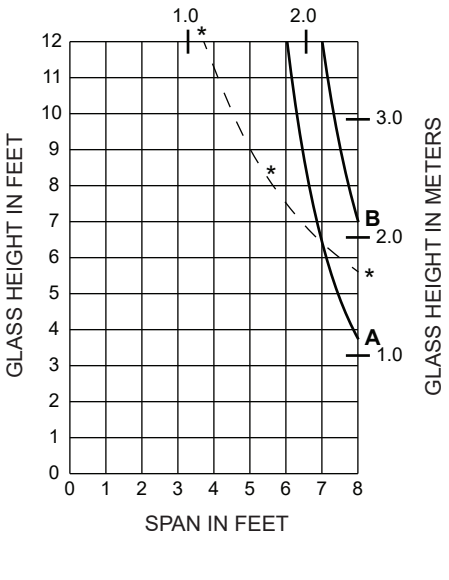
I = 0.260 (10.82 x 10^4)
S = 0.358 (5.87 x 10^3)

(1-5/16" INFILL)



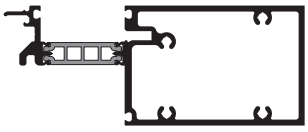
*** NOTE:**
DASHED LINE REPRESENTS ALLOWABLE MAXIMUM GLASS LIMIT FOR A 4-1/2" LONG GLASS CHAIR. GLASS SIZES ABOVE THIS LINE REQUIRE THE GLASS CHAIR AND SETTING BLOCK TO BE DOUBLED UP (SIDE BY SIDE) AT POINTS REQUIRED.

(1" OR 1-1/4" INFILL)



A = 1/4 POINT LOADING
B = 1/8 POINT LOADING
C = 1/10 POINT LOADING

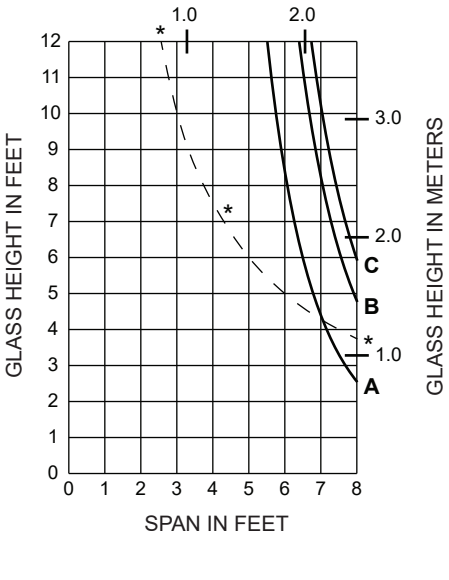
NOTE: GLASS CHAIR CENTERLINE SHOULD NOT BE LESS THAN 6-1/2" (165.1) FROM EDGE OF GLASS.



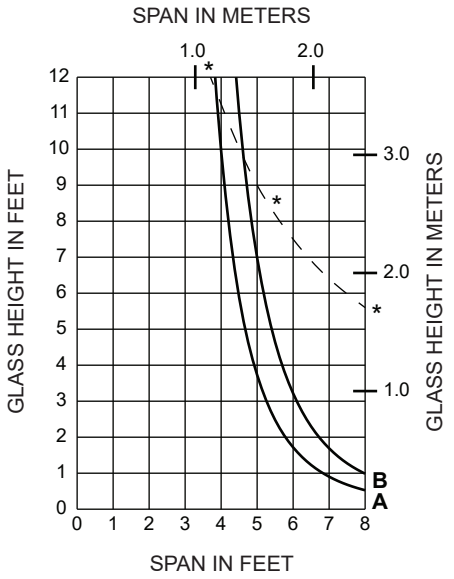
185249

I = 1.841 (76.63 x 10^4)
S = 1.431 (23.45 x 10^3)

(1-5/16" INFILL)

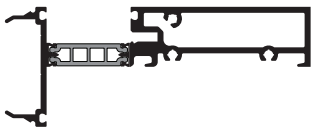


(1" OR 1-1/4" INFILL)



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

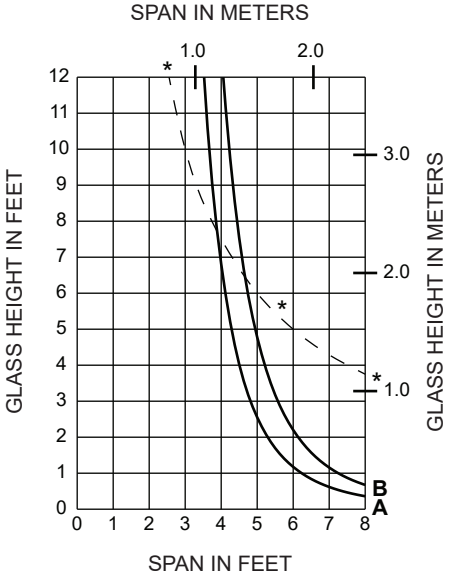
NOTE: GLASS CHAIR CENTERLINE SHOULD NOT BE LESS THAN 6-1/2" (165.1) FROM EDGE OF GLASS.



185251

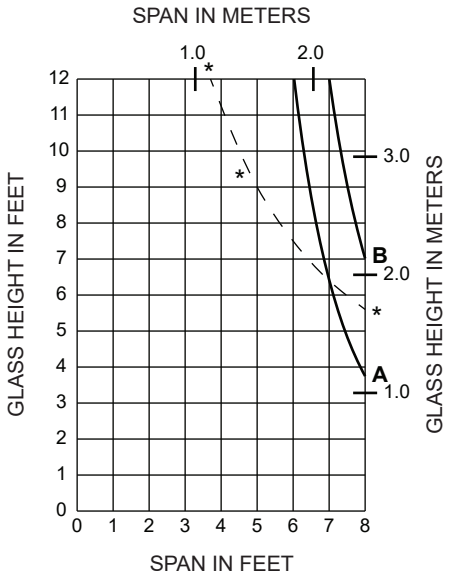
I = 0.260 (10.82 x 10^4)
S = 0.358 (5.87 x 10^3)

(1-5/16" INFILL)



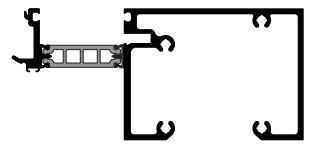
*** NOTE:**
DASHED LINE REPRESENTS ALLOWABLE MAXIMUM GLASS LIMIT FOR A 4-1/2" LONG GLASS CHAIR. GLASS SIZES ABOVE THIS LINE REQUIRE THE GLASS CHAIR AND SETTING BLOCK TO BE DOUBLED UP (SIDE BY SIDE) AT POINTS REQUIRED.

(1" OR 1-1/4" INFILL)



A = 1/4 POINT LOADING
B = 1/8 POINT LOADING
C = 1/10 POINT LOADING

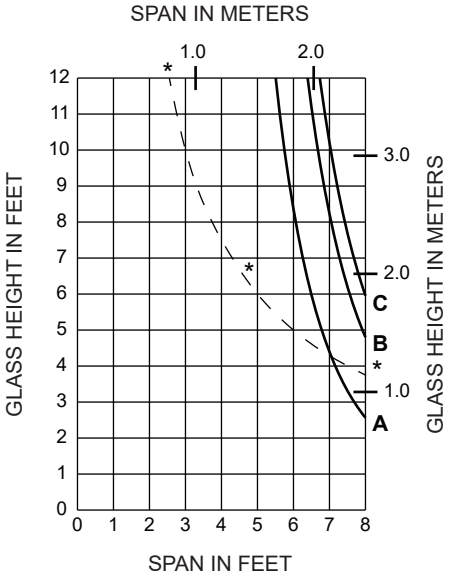
NOTE: GLASS CHAIR CENTERLINE SHOULD NOT BE LESS THAN 6-1/2" (165.1) FROM EDGE OF GLASS.



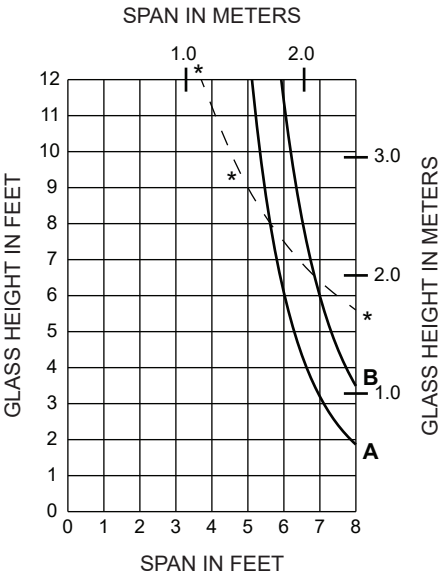
185258

I = 1.850 (77.00 x 10^4)
S = 1.165 (19.09 x 10^3)

(1-5/16" INFILL)

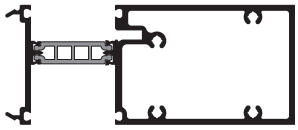


(1" OR 1-1/4" INFILL)



A = 1/4 POINT LOADING
B = 1/8 POINT LOADING
C = 1/10 POINT LOADING

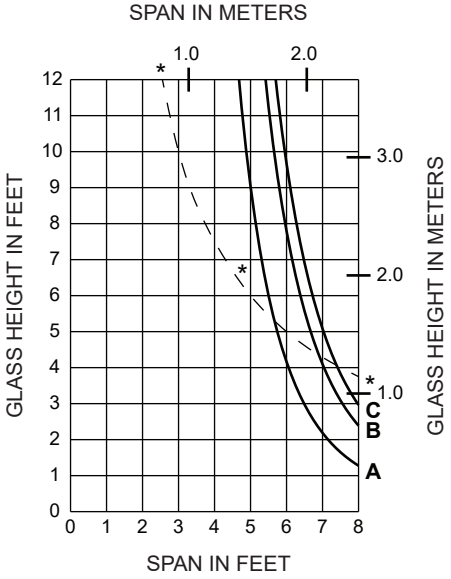
NOTE: GLASS CHAIR CENTERLINE SHOULD NOT BE LESS THAN 6-1/2" (165.1) FROM EDGE OF GLASS.



185276

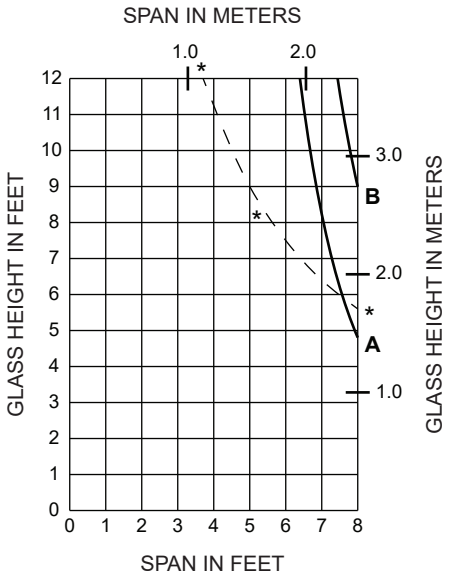
I = 1.841 (76.63 x 10^4)
S = 1.431 (23.45 x 10^3)

(1-5/16" INFILL)



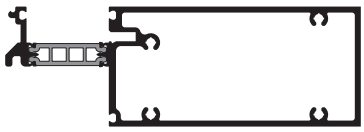
*** NOTE:**
DASHED LINE REPRESENTS ALLOWABLE MAXIMUM GLASS LIMIT FOR A 4-1/2" LONG GLASS CHAIR. GLASS SIZES ABOVE THIS LINE REQUIRE THE GLASS CHAIR AND SETTING BLOCK TO BE DOUBLED UP (SIDE BY SIDE) AT POINTS REQUIRED.

(1" OR 1-1/4" INFILL)



A = 1/4 POINT LOADING
B = 1/8 POINT LOADING
C = 1/10 POINT LOADING

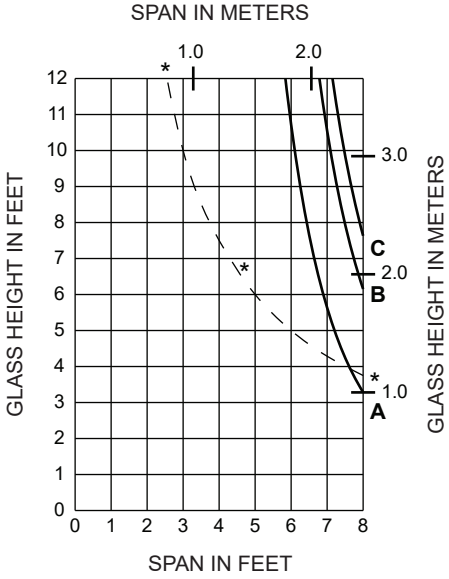
NOTE: GLASS CHAIR CENTERLINE SHOULD NOT BE LESS THAN 6-1/2" (165.1) FROM EDGE OF GLASS.



184224

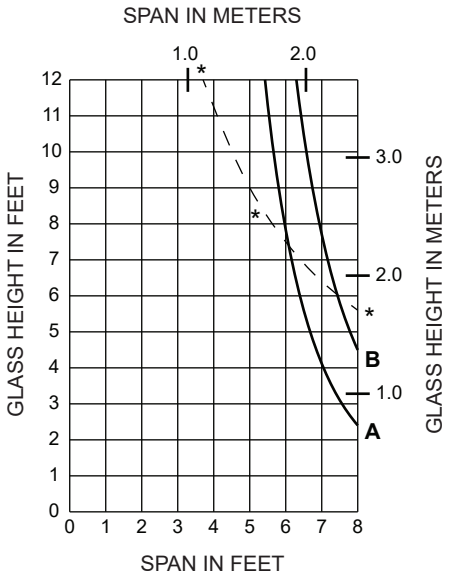
I = 2.371 (98.69 x 10^4)
S = 1.851 (30.33 x 10^3)

(1-5/16" INFILL)



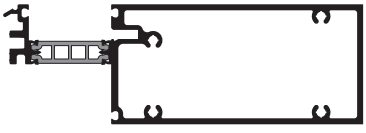
*** NOTE:**
DASHED LINE REPRESENTS ALLOWABLE MAXIMUM GLASS LIMIT FOR A 4-1/2" LONG GLASS CHAIR. GLASS SIZES ABOVE THIS LINE REQUIRE THE GLASS CHAIR AND SETTING BLOCK TO BE DOUBLED UP (SIDE BY SIDE) AT POINTS REQUIRED.

(1" OR 1-1/4" INFILL)



A = 1/4 POINT LOADING
B = 1/8 POINT LOADING
C = 1/10 POINT LOADING

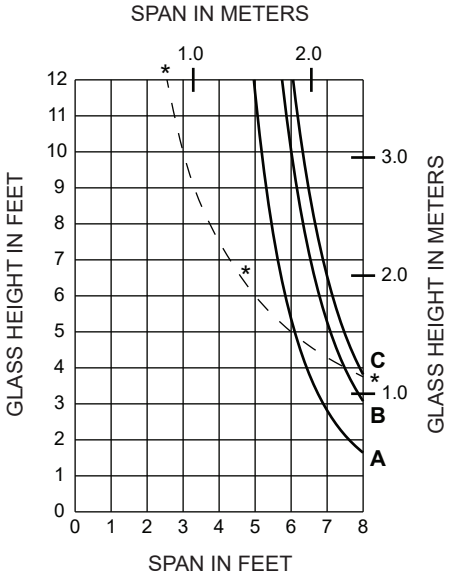
NOTE: GLASS CHAIR CENTERLINE SHOULD NOT BE LESS THAN 6-1/2" (165.1) FROM EDGE OF GLASS.



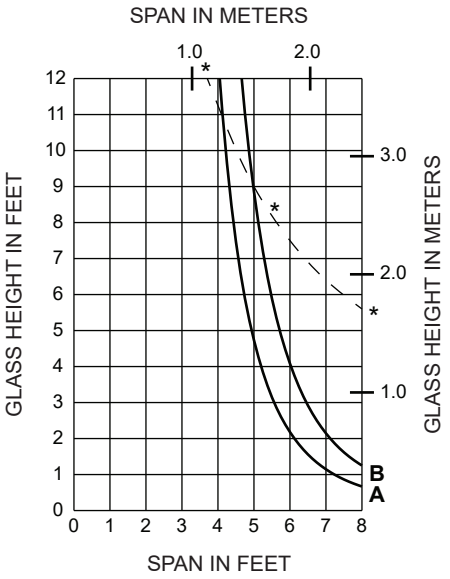
184227

I = 2.371 (98.69 x 10^4)
S = 1.851 (30.33 x 10^3)

(1-5/16" INFILL)

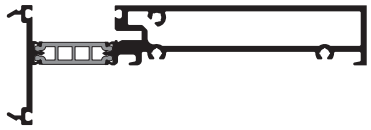


(1" OR 1-1/4" INFILL)



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

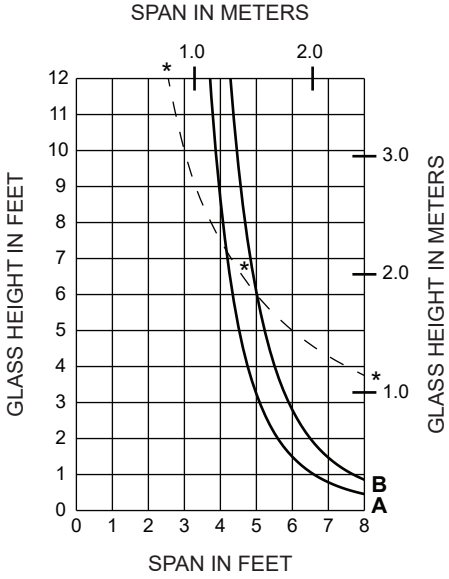
NOTE: GLASS CHAIR CENTERLINE SHOULD NOT BE LESS THAN 6-1/2" (165.1) FROM EDGE OF GLASS.



184229

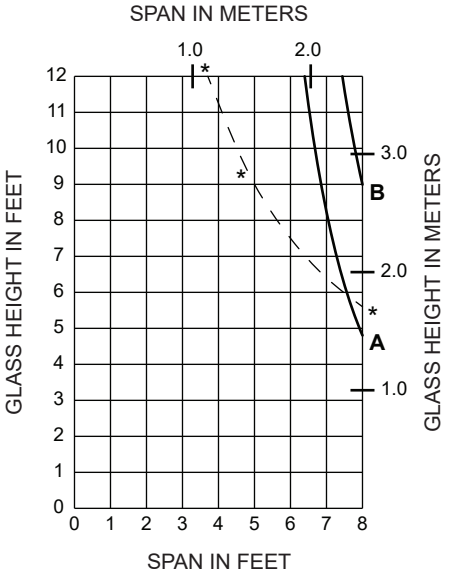
I = 0.330 (13.74 x 10^4)
S = 0.443 (7.26 x 10^3)

(1-5/16" INFILL)



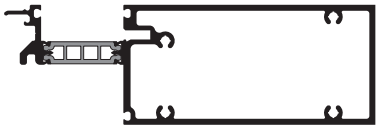
*** NOTE:**
DASHED LINE REPRESENTS ALLOWABLE MAXIMUM GLASS LIMIT FOR A 4-1/2" LONG GLASS CHAIR. GLASS SIZES ABOVE THIS LINE REQUIRE THE GLASS CHAIR AND SETTING BLOCK TO BE DOUBLED UP (SIDE BY SIDE) AT POINTS REQUIRED.

(1" OR 1-1/4" INFILL)



A = 1/4 POINT LOADING
B = 1/8 POINT LOADING
C = 1/10 POINT LOADING

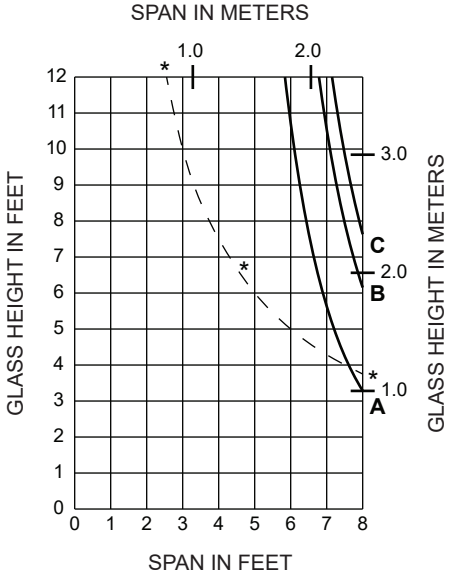
NOTE: GLASS CHAIR CENTERLINE SHOULD NOT BE LESS THAN 6-1/2" (165.1) FROM EDGE OF GLASS.



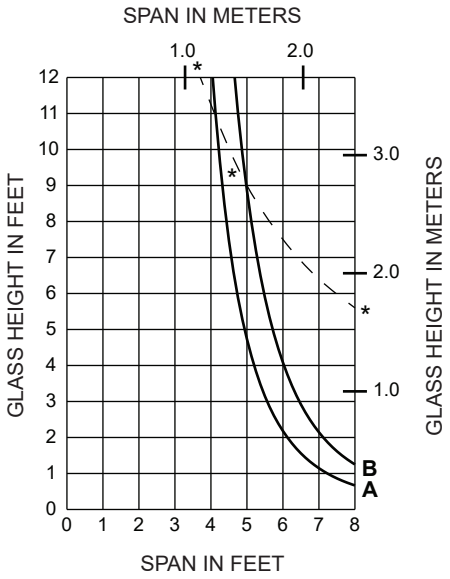
184249

I = 2.371 (98.69 x 10^4)
S = 1.851 (30.33 x 10^3)

(1-5/16" INFILL)



(1" OR 1-1/4" INFILL)



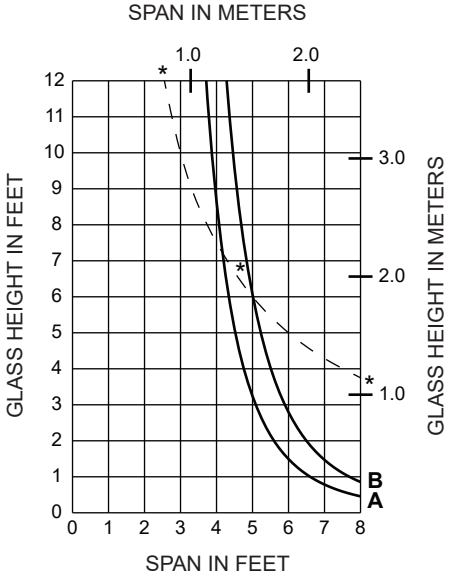
A = 1/4 POINT LOADING
B = 1/8 POINT LOADING

NOTE: GLASS CHAIR CENTERLINE SHOULD NOT BE LESS THAN 6-1/2" (165.1) FROM EDGE OF GLASS.

184251

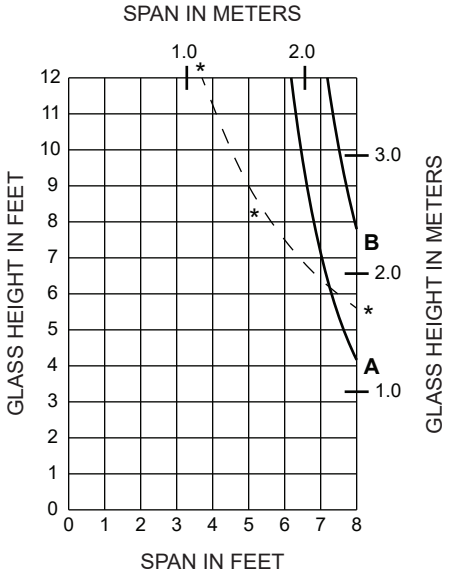
I = 0.330 (13.74 x 10^4)
S = 0.443 (7.26 x 10^3)

(1-5/16" INFILL)



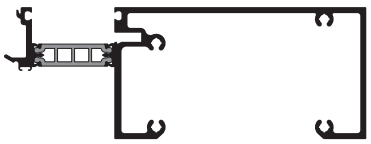
*** NOTE:**
DASHED LINE REPRESENTS ALLOWABLE MAXIMUM GLASS LIMIT FOR A 4-1/2" LONG GLASS CHAIR. GLASS SIZES ABOVE THIS LINE REQUIRE THE GLASS CHAIR AND SETTING BLOCK TO BE DOUBLED UP (SIDE BY SIDE) AT POINTS REQUIRED.

(1" OR 1-1/4" INFILL)



A = 1/4 POINT LOADING
B = 1/8 POINT LOADING
C = 1/10 POINT LOADING

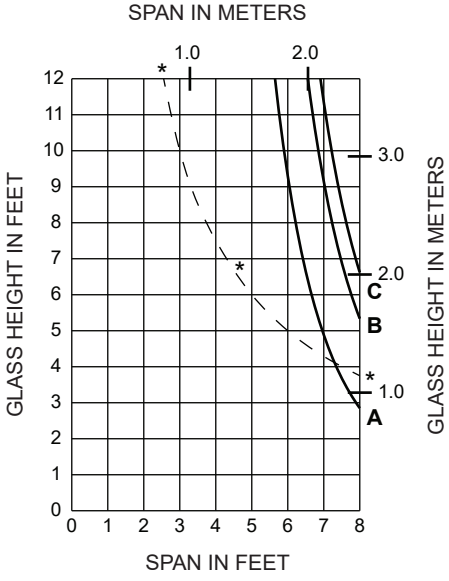
NOTE: GLASS CHAIR CENTERLINE SHOULD NOT BE LESS THAN 6-1/2" (165.1) FROM EDGE OF GLASS.



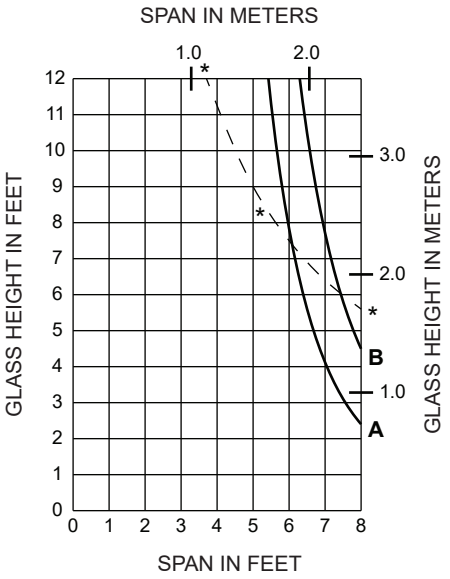
184258

I = 2.056 (85.58 x 10^4)
S = 1.217 (19.94 x 10^3)

(1-5/16" INFILL)

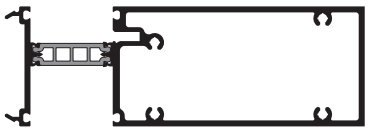


(1" OR 1-1/4" INFILL)



A = 1/4 POINT LOADING
B = 1/8 POINT LOADING
C = 1/10 POINT LOADING

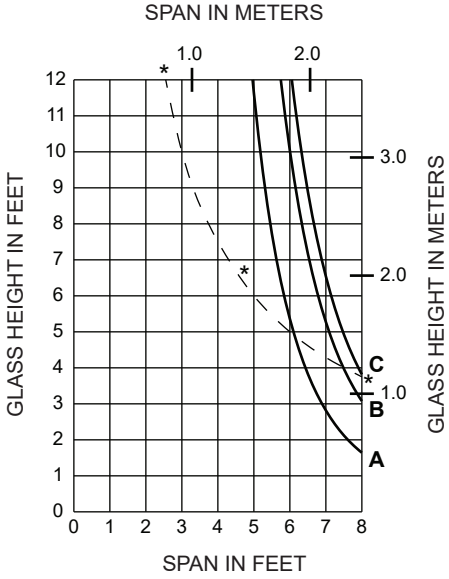
NOTE: GLASS CHAIR CENTERLINE SHOULD NOT BE LESS THAN 6-1/2" (165.1) FROM EDGE OF GLASS.



184276

$I = 2.371 (98.69 \times 10^4)$
$S = 1.851 (30.33 \times 10^3)$

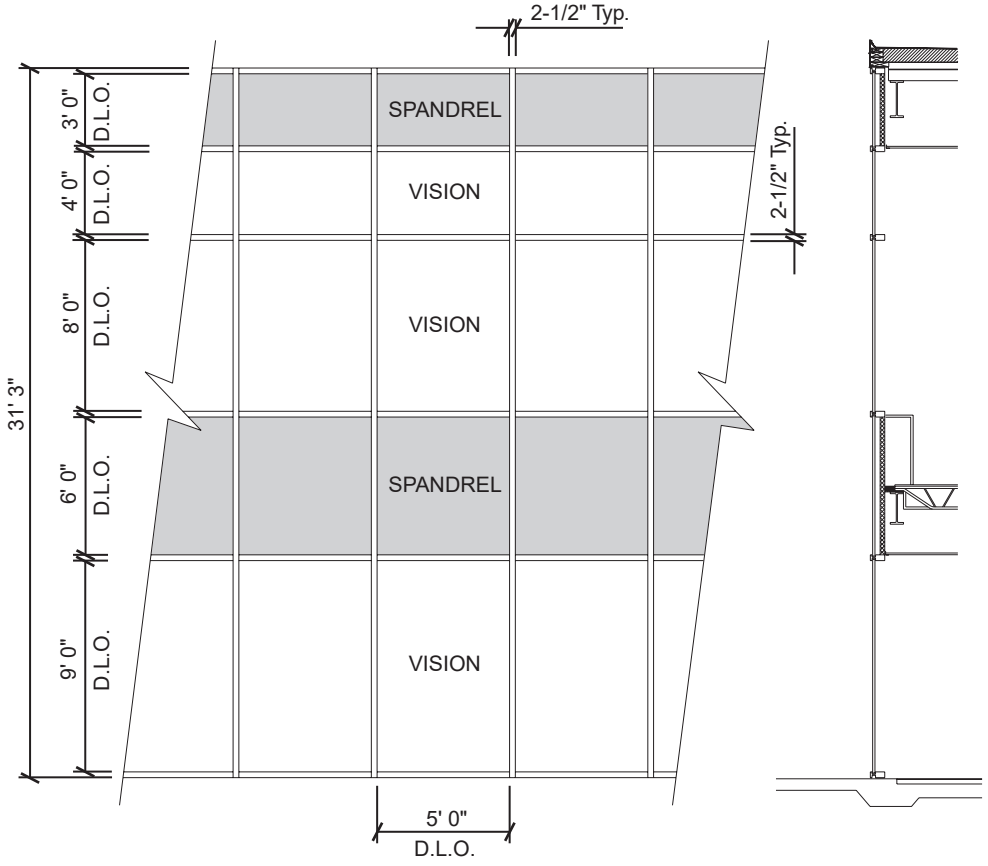
(1-5/16" INFILL)



*** NOTE:**
DASHED LINE REPRESENTS ALLOWABLE MAXIMUM GLASS LIMIT FOR A 4-1/2" LONG GLASS CHAIR. GLASS SIZES ABOVE THIS LINE REQUIRE THE GLASS CHAIR AND SETTING BLOCK TO BE DOUBLED UP (SIDE BY SIDE) AT POINTS REQUIRED.

Generic Project Specific U-factor Example Calculation
(Percent of Glass will vary on specific products depending on sitelines)

(Based on single bay of Curtain Wall/Window Wall)



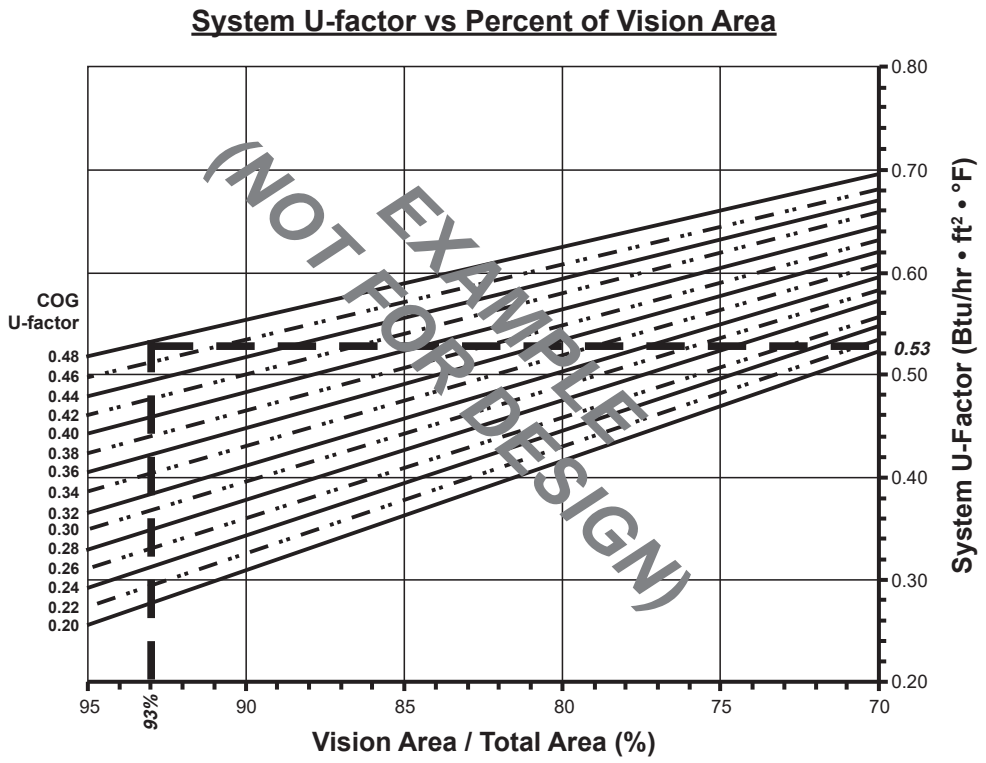
Vision Area

Example Glass U-factor	= 0.48 Btu/(ft² · h · °F)
Vision Area	= 5(9 + 8 + 4) = 105.0 ft²
Total Area (Vision)	= 5' 2-1/2" (9' 3-3/4" + 8' 2-1/2" + 4' 2-1/2") = 113.2 ft²
Percentage of Vision Glass	= (Vision Area ÷ Total Area)100 = (105.0 ÷ 113.2)100 = 93%

Spandrel Area

Example Spandrel R-value	= 15 (ft² · h · °F)/Btu
Spandrel Area	= 5(6 + 3) = 45.0 ft²
Total Area (Spandrel)	= 5' 2-1/2" (6' 2-1/2" + 3' 3-3/4") = 49.6 ft²
Percent of Spandrel	= (Spandrel Area ÷ Total Area)100 = (49.0 ÷ 49.6)100 = 91%

Vision Area Chart

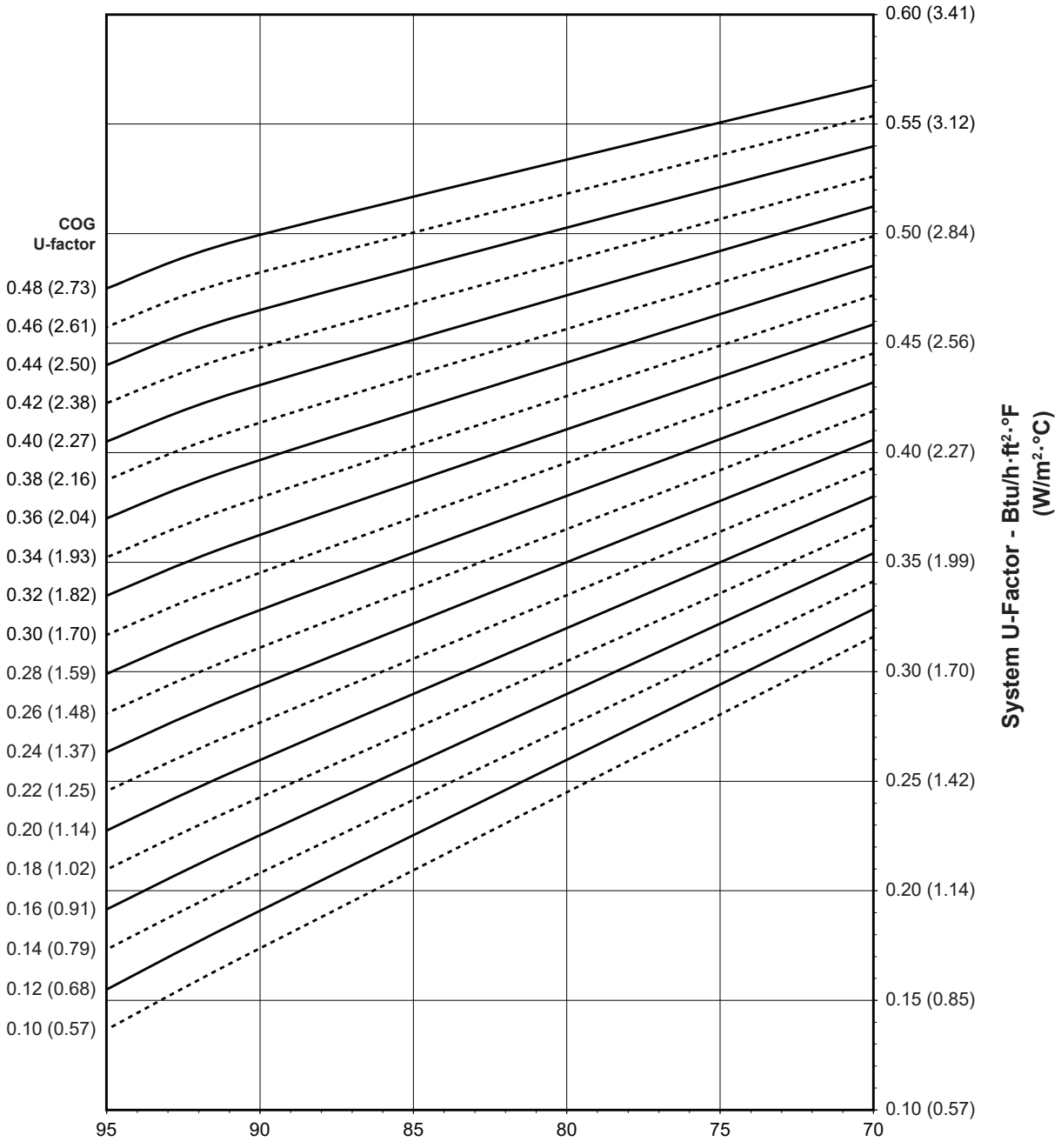


Based on a single curtain wall bay of 93% vision glass and center of glass U-factor of 0.48, System U-factor is equal to 0.53 Btu/(h·ft ²·°F)

4 Side Captured
1" Double Glazed - Warm-Edge Glazing Spacer

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

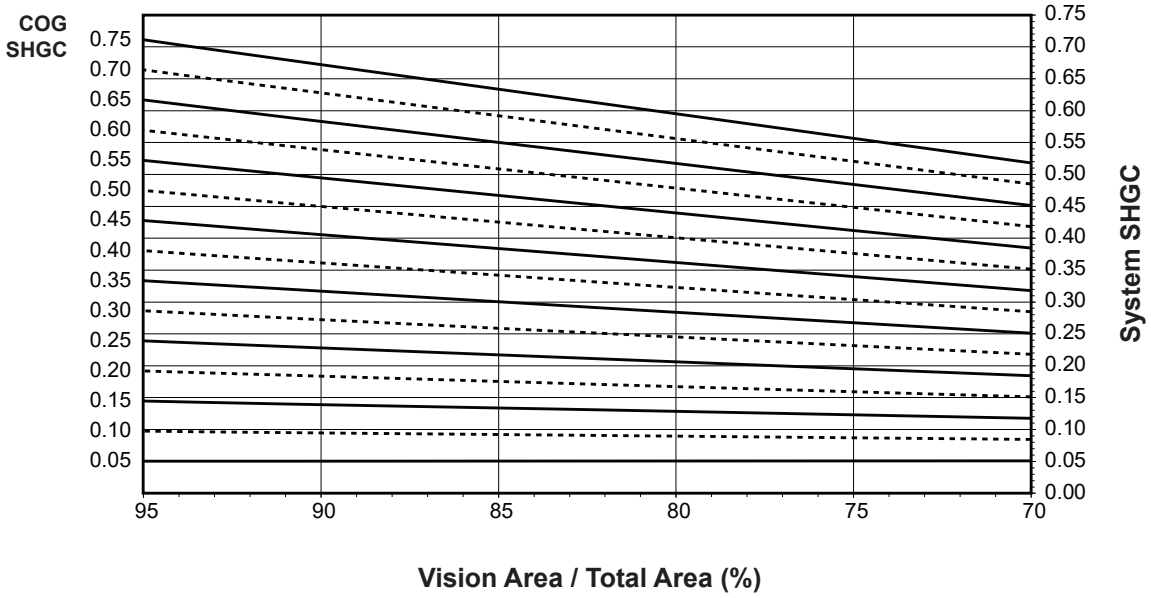
System U-Factor vs Percent of Glass Area



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

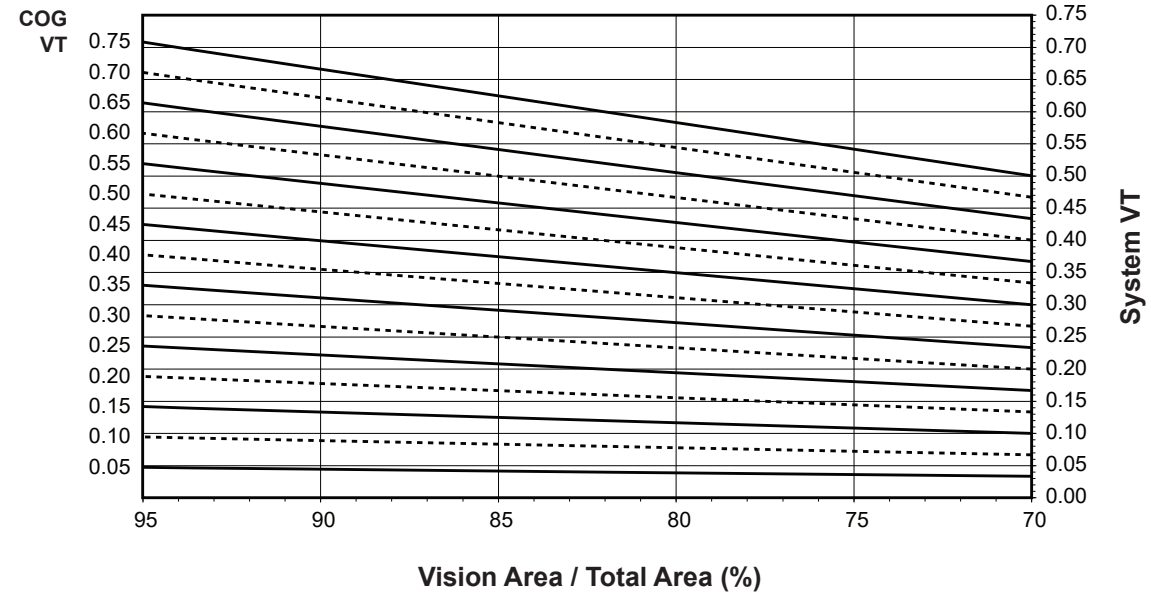
4 Side Captured
1" Double Glazed - Warm-Edge Glazing Spacer

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



Charts are generated per AAMA 507

System Visible Transmittance (VT) vs Percent of Vision Area



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

Glass U-Factor [3]	Overall U-Factor [4]
0.48	0.50
0.46	0.48
0.44	0.46
0.42	0.45
0.40	0.43
0.38	0.41
0.36	0.39
0.34	0.38
0.32	0.36
0.30	0.34
0.28	0.32
0.26	0.31
0.24	0.29
0.22	0.27
0.20	0.26
0.18	0.24
0.16	0.22
0.14	0.20
0.12	0.19
0.10	0.17

4 Side Captured
1" Double Glazed
Warm-Edge Glazing Spacer

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

1. U-Factors are determined in accordance with NFRC 100.
2. SHGC and VT values are determined in accordance with NFRC 200.
3. Glass properties are based on center of glass values and are obtained from your glass supplier.
4. Overall U-Factor, SHGC, and VT Matricies are based on the standard NFRC specimen size of 2,000 mm wide by 2,000 mm high (78-3/4" by 78-3/4").

SHGC Matrix [2]

Glass SHGC [3]	Overall SHGC [4]
0.75	0.68
0.70	0.63
0.65	0.59
0.60	0.54
0.55	0.50
0.50	0.45
0.45	0.41
0.40	0.36
0.35	0.32
0.30	0.27
0.25	0.23
0.20	0.18
0.15	0.14
0.10	0.10
0.05	0.05

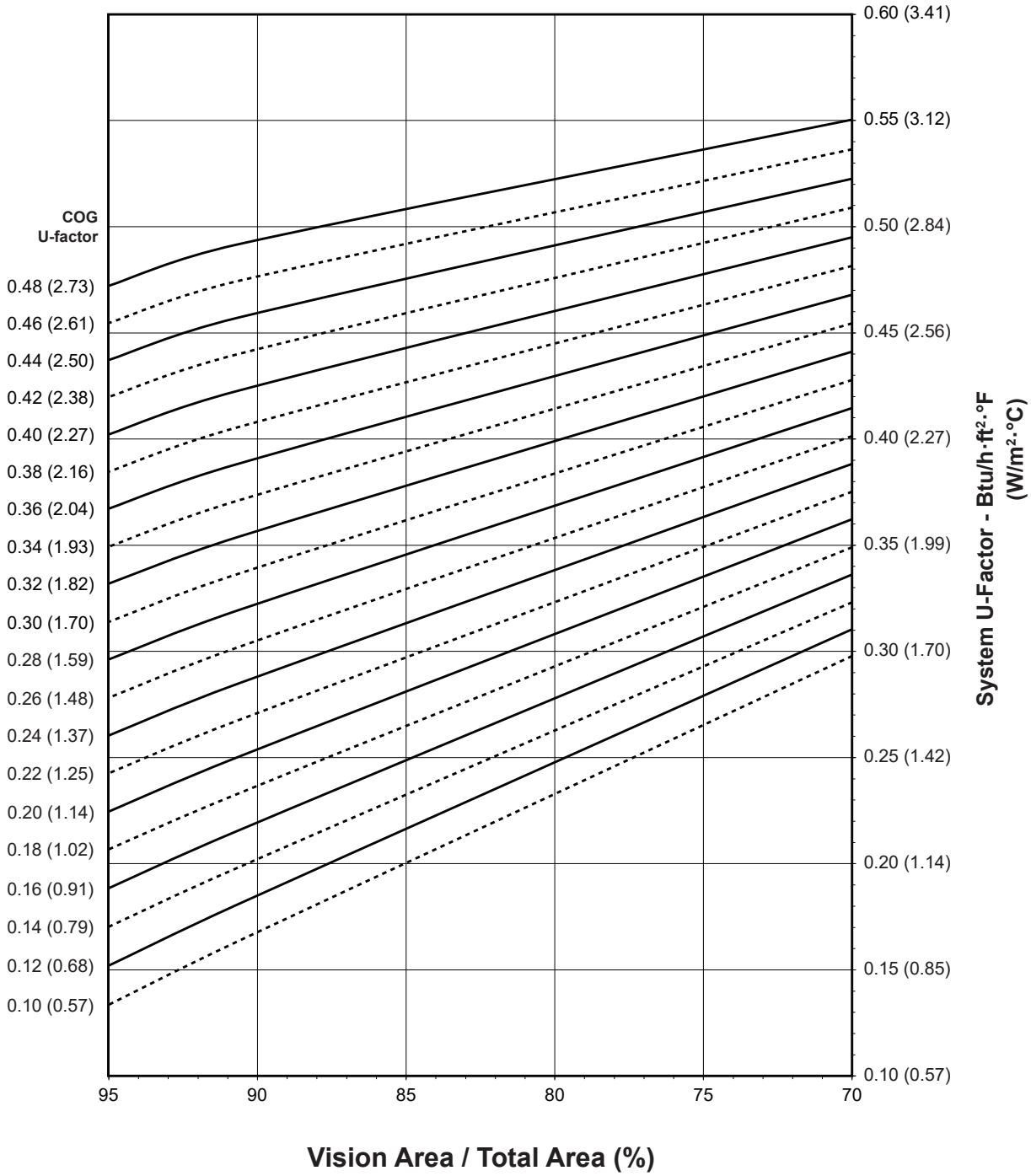
Visible Transmittance [2]

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

4 Side Captured with Backer Rod Above Glass
1" Double Glazed - Warm-Edge Glazing Spacer - COG = 0.20

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

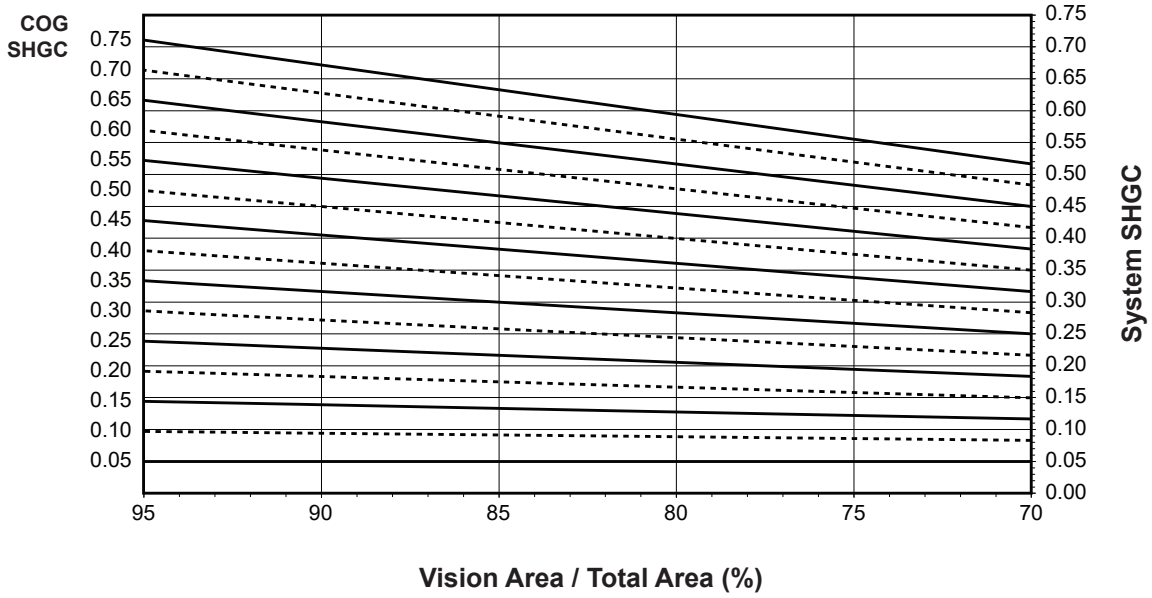
System U-Factor vs Percent of Glass Area



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

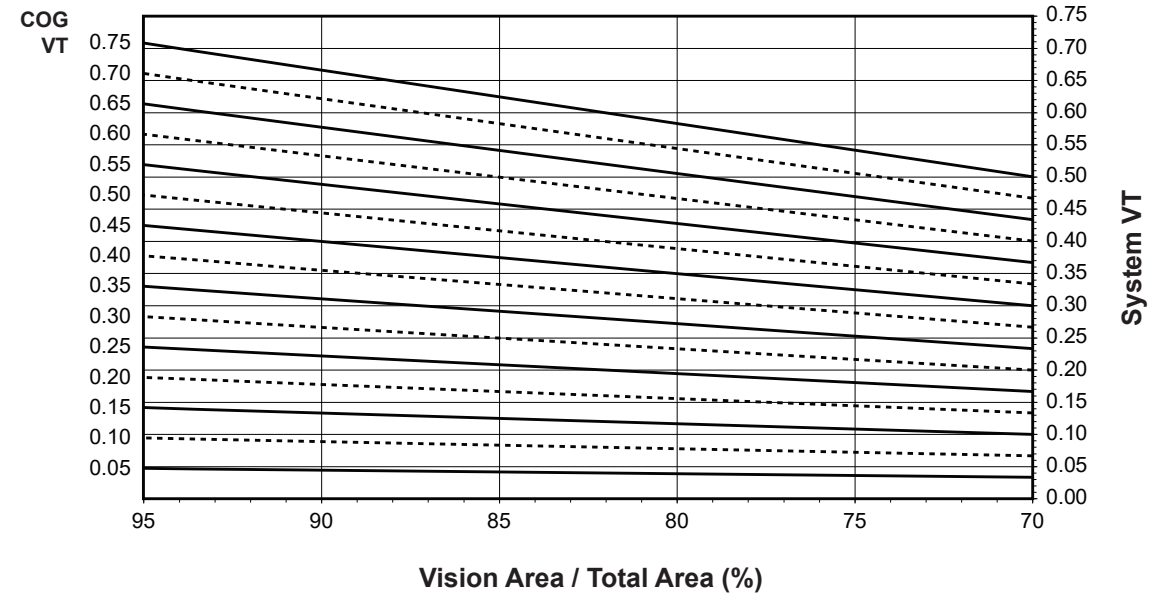
4 Side Captured with Backer Rod Above Glass
1" Double Glazed - Warm-Edge Glazing Spacer - COG = 0.20

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



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

Glass U-Factor [3]	Overall U-Factor [4]
0.48	0.49
0.46	0.47
0.44	0.46
0.42	0.44
0.40	0.42
0.38	0.41
0.36	0.39
0.34	0.37
0.32	0.35
0.30	0.34
0.28	0.32
0.26	0.30
0.24	0.28
0.22	0.27
0.20	0.25
0.18	0.23
0.16	0.22
0.14	0.20
0.12	0.18
0.10	0.16

4 Side Captured with
Backer Rod Above Glass
1" Double Glazed
Warm-Edge Glazing Spacer
COG = 0.20

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

1. U-Factors are determined in accordance with NFRC 100.
2. SHGC and VT values are determined in accordance with NFRC 200.
3. Glass properties are based on center of glass values and are obtained from your glass supplier.
4. Overall U-Factor, SHGC, and VT Matricies are based on the standard NFRC specimen size of 2,000 mm wide by 2,000 mm high (78-3/4" by 78-3/4").

SHGC Matrix [2]

Glass SHGC [3]	Overall SHGC [4]
0.75	0.68
0.70	0.63
0.65	0.59
0.60	0.54
0.55	0.50
0.50	0.45
0.45	0.41
0.40	0.36
0.35	0.32
0.30	0.27
0.25	0.23
0.20	0.18
0.15	0.14
0.10	0.09
0.05	0.05

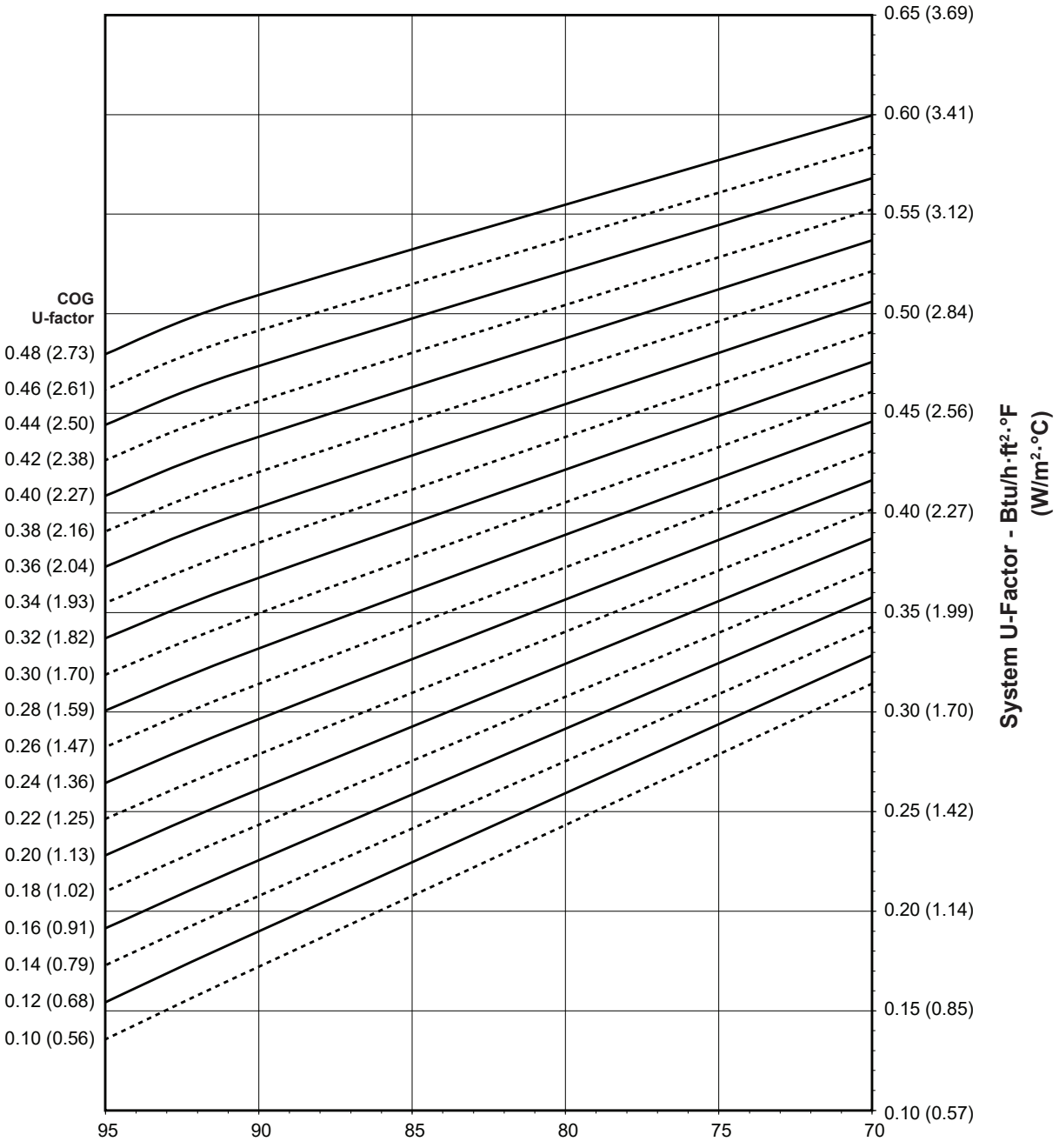
Visible Transmittance [2]

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

Vertical SSG
1" Double Glazed - Warm-Edge Glazing Spacer

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

System U-Factor vs Percent of Glass Area



Notes for System U-factor, SHGC and VT charts:
For glass values that are not listed, linear interpolation is permitted.
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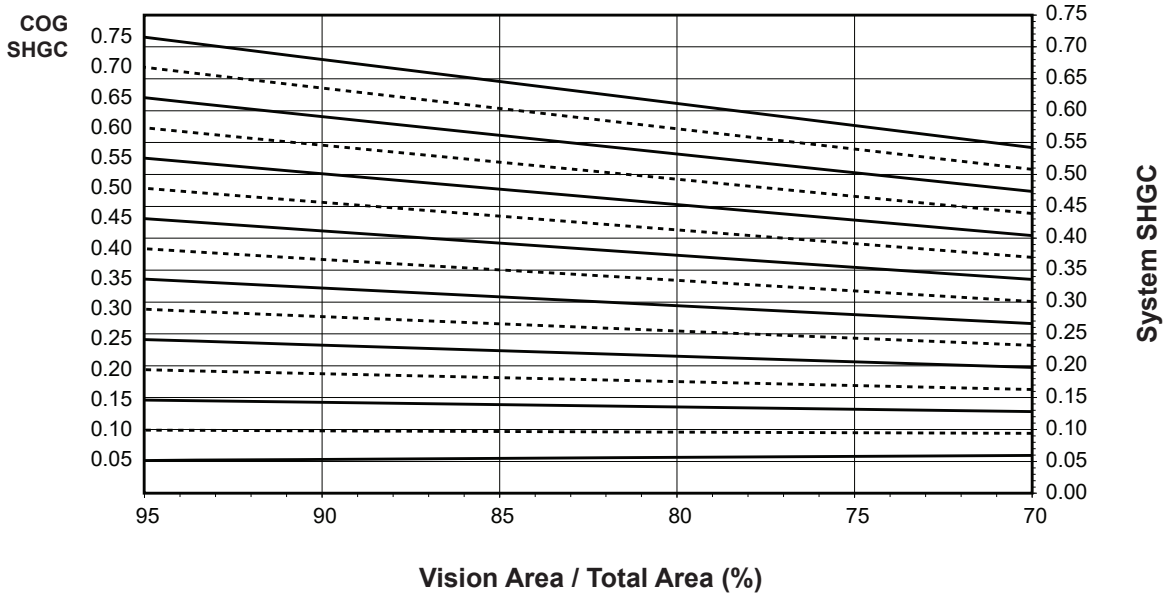
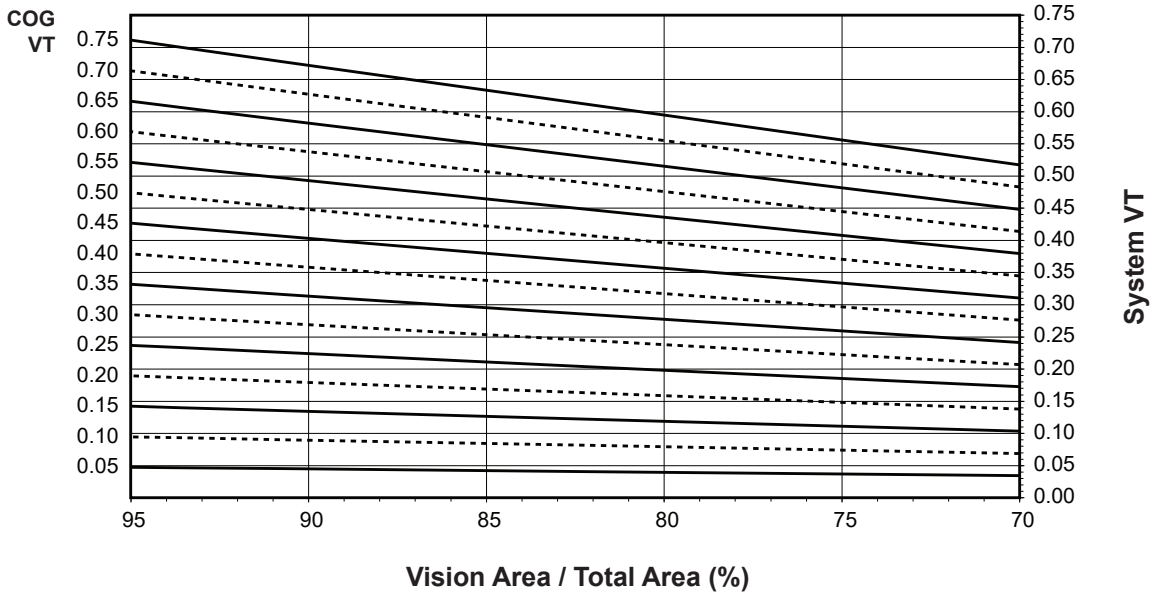
Vertical SSG
1" Double Glazed - Warm-Edge Glazing Spacer

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



Charts are generated per AAMA 507

System Visible Transmittance (VT) vs Percent of Vision Area



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

Glass U-Factor [3]	Overall U-Factor [4]
0.48	0.51
0.46	0.49
0.44	0.47
0.42	0.45
0.40	0.43
0.38	0.42
0.36	0.40
0.34	0.38
0.32	0.36
0.30	0.35
0.28	0.33
0.26	0.31
0.24	0.29
0.22	0.27
0.20	0.26
0.18	0.24
0.16	0.22
0.14	0.20
0.12	0.19
0.10	0.17

Vertical SSG
1" Double Glazed
Warm-Edge Glazing Spacer

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

1. U-Factors are determined in accordance with NFRC 100.
2. SHGC and VT values are determined in accordance with NFRC 200.
3. Glass properties are based on center of glass values and are obtained from your glass supplier.
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SHGC Matrix [2]

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0.70	0.64
0.65	0.59
0.60	0.55
0.55	0.50
0.50	0.46
0.45	0.41
0.40	0.37
0.35	0.32
0.30	0.28
0.25	0.23
0.20	0.19
0.15	0.14
0.10	0.10
0.05	0.05

Visible Transmittance [2]

Glass VT [3]	Overall VT [4]
0.75	0.68
0.70	0.63
0.65	0.59
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0.30	0.27
0.25	0.23
0.20	0.18
0.15	0.14
0.10	0.09
0.05	0.05

Vertical SSG with Backer Rod Above Glass
1" Double Glazed - Warm-Edge Glazing Spacer - COG = 0.20

Note:
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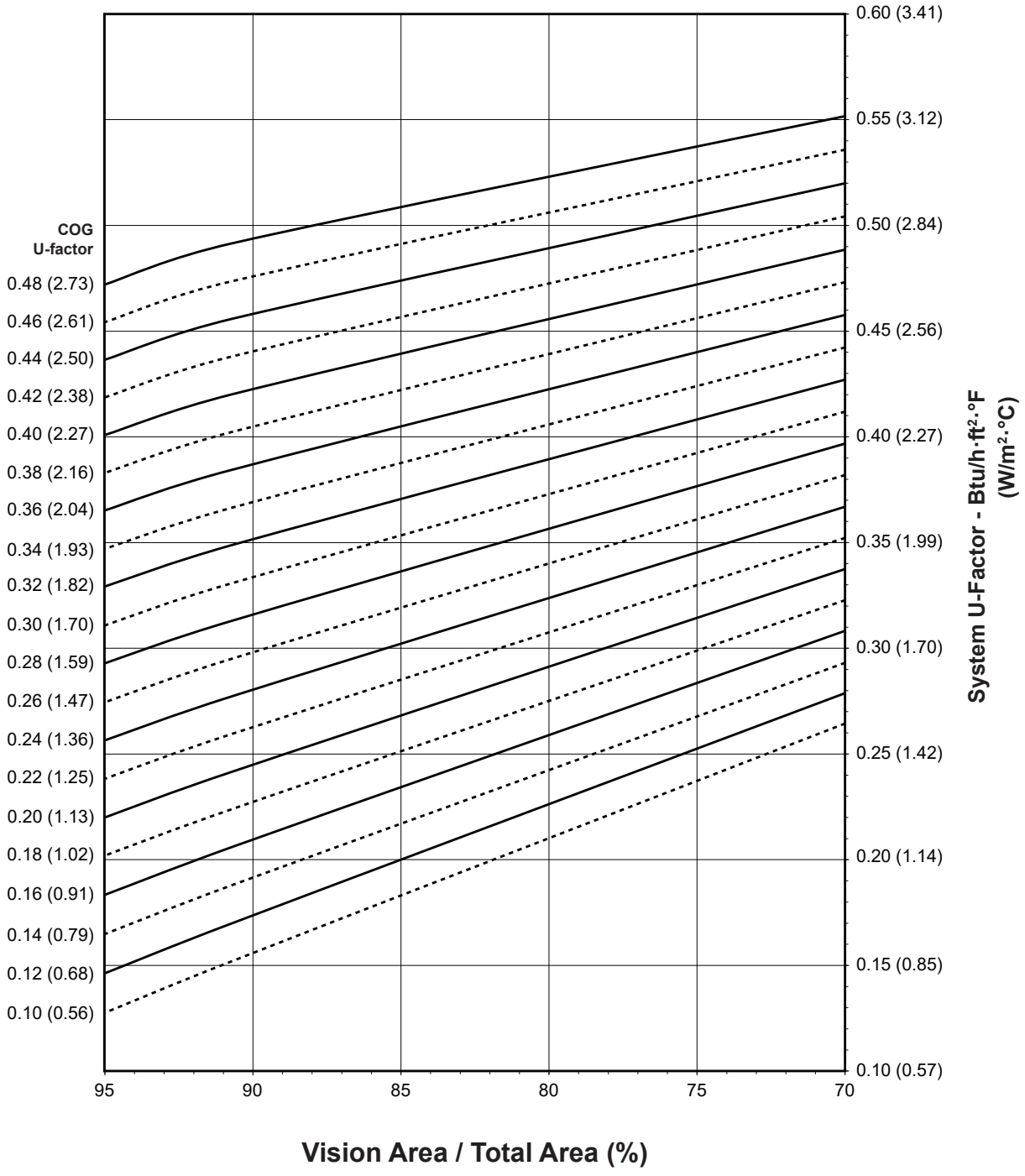
COG = Center of Glass.
Charts are generated per AAMA 507

System U-Factor vs Percent of Glass Area



Notes for System U-factor, SHGC and VT charts:
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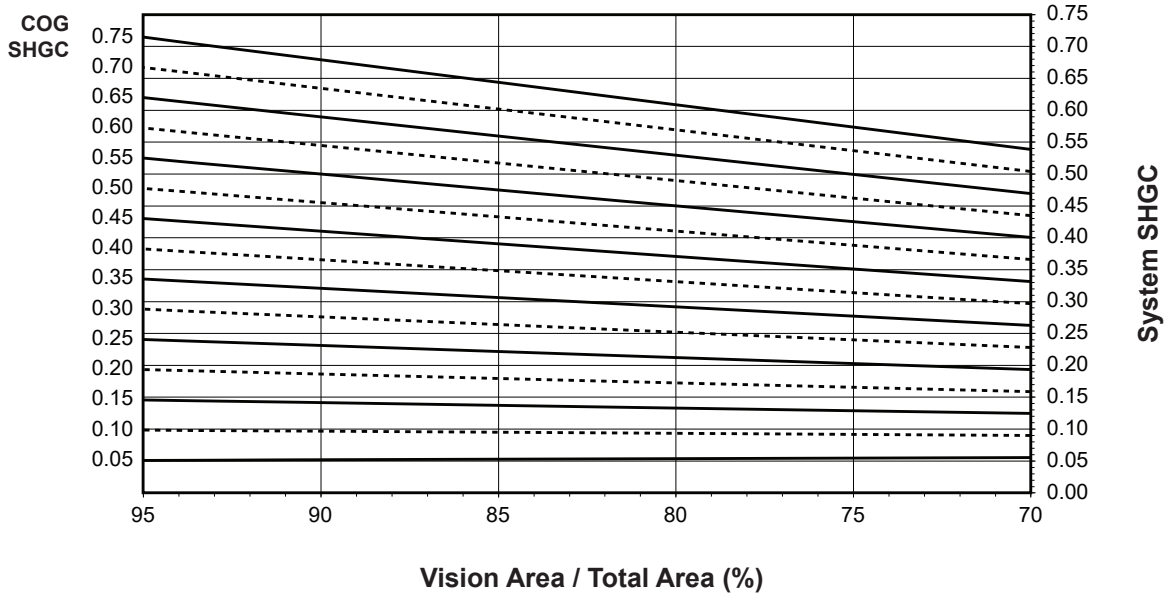
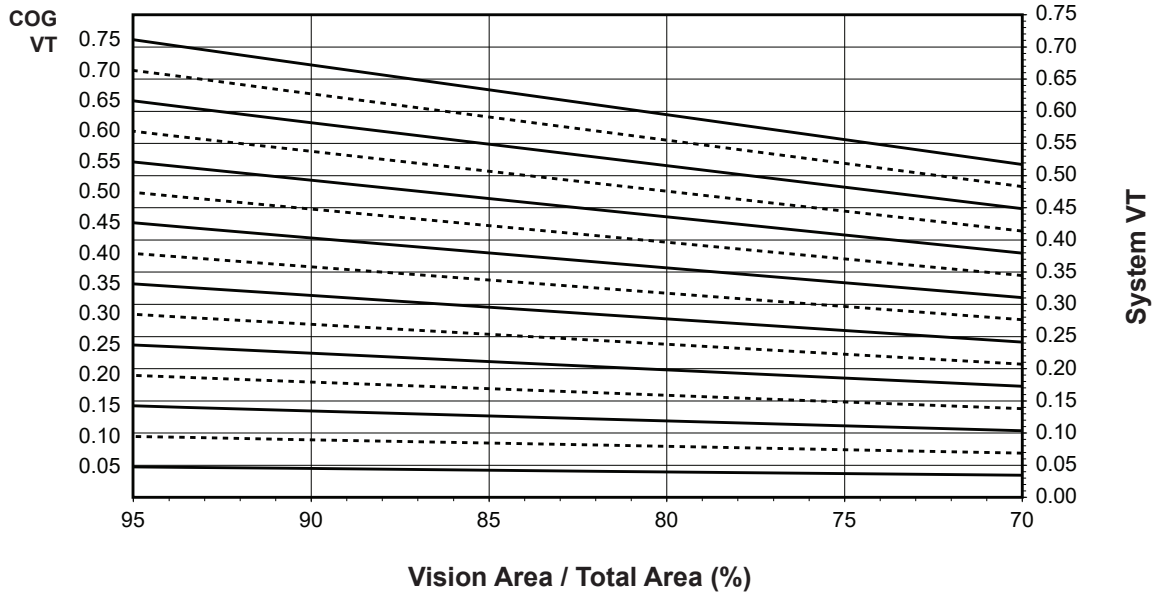
Vertical SSG with Backer Rod Above Glass
1" Double Glazed - Warm-Edge Glazing Spacer - COG = 0.20

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



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0.32	0.35
0.30	0.33
0.28	0.31
0.26	0.30
0.24	0.28
0.22	0.26
0.20	0.24
0.18	0.22
0.16	0.21
0.14	0.19
0.12	0.17
0.10	0.15

Vertical SSG with
Backer Rod Above Glass
1" Double Glazed
Warm-Edge Glazing Spacer
COG = 0.20

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

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0.55	0.50
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0.45	0.41
0.40	0.37
0.35	0.32
0.30	0.28
0.25	0.23
0.20	0.19
0.15	0.14
0.10	0.10
0.05	0.05

Visible Transmittance [2]

Glass VT [3]	Overall VT [4]
0.75	0.68
0.70	0.63
0.65	0.59
0.60	0.54
0.55	0.50
0.50	0.45
0.45	0.41
0.40	0.36
0.35	0.32
0.30	0.27
0.25	0.23
0.20	0.18
0.15	0.14
0.10	0.09
0.05	0.05