Clearwall® Curtain Wall System

Features

- Clearwall® is a 4-sided Toggle Glazed (TG) curtain wall system
- Achieves an all-glass monolithic aesthetic in a field glazed; screw spline or shear block fabricated application
  - 5/8" (15.9) exterior vertical and horizontal weatherseal sightline
  - 2-1/2" (63.5) interior metal sightline
- Innovative toggle assembly captures glass, eliminating field application of structural silicone
- All three glazing options, use the toggle based glass retention system
  - Clearwall® SS (Screw Spline) or SB (Shear Block)
    - Toggles capture 1-1/8" (28.6) insulating glass unit, with a recessed spacer
    - Inside lite of insulating glass unit is directly engaged by toggles
    - No structural silicone required
  - Clearwall® SSI (Screw Spline Interface) or SBI (Shear Block Interface)
    - Toggles capture standard 1" (25.4) insulating glass unit attached with shop applied metal interface using structural silicone
  - Clearwall® SSIT (Screw Spline Interface Tape) or SBIT (Shear Block Interface Tape)
    - Toggles capture standard 1" (25.4) insulating glass unit attached with shop applied metal interface using 3M™ VHB™ SGT (Structural Glazing Tape)
- Screw spline joinery method allows shop assembly of ladder sections, reducing field labor
- Shear Block joinery and deeper mullions allow for higher free-spans (up to 26' with steel reinforcing)
- Clearwall® can be supplied fabricated and KD, or in stock lengths
- Silicone compatible EPDM glazing materials for long-lasting seals
- Offers integrated entrance framing systems
- Two color option
- Permanodic® anodized finishes option
- Painted finishes in standard and custom choices
- Comprehensively tested to latest high performance standards
- Full technical support from 3M™ for application of the 3M™ VHB™ SGT (Structural Glazing Tape) for Clearwall® SSIT and SBIT

Optional Features

- Air barrier and back pan applications available
- Profit$Maker® Plus die sets available
- Hurricane impact resistant for SSI and SSIT
- Clearwall® SSI and SSIT systems Seismic performance tested with AAMA 501.6 standards

Product Applications

- Ideal for low-rise applications of four floors or less requiring a sleek, uninterrupted all-glass facade
- Ideal for office buildings, and lobbies or accent walls of high profile buildings

For specific product applications,
consult your Kawneer representative.

Architects – Most extrusions illustrated in this catalog are standard products for Kawneer. These concepts have been expanded and modified to afford you design freedom. Some miscellaneous details are non-standard and are intended to demonstrate how the system can be modified to expand design flexibility. Please contact your Kawneer representative for further assistance.

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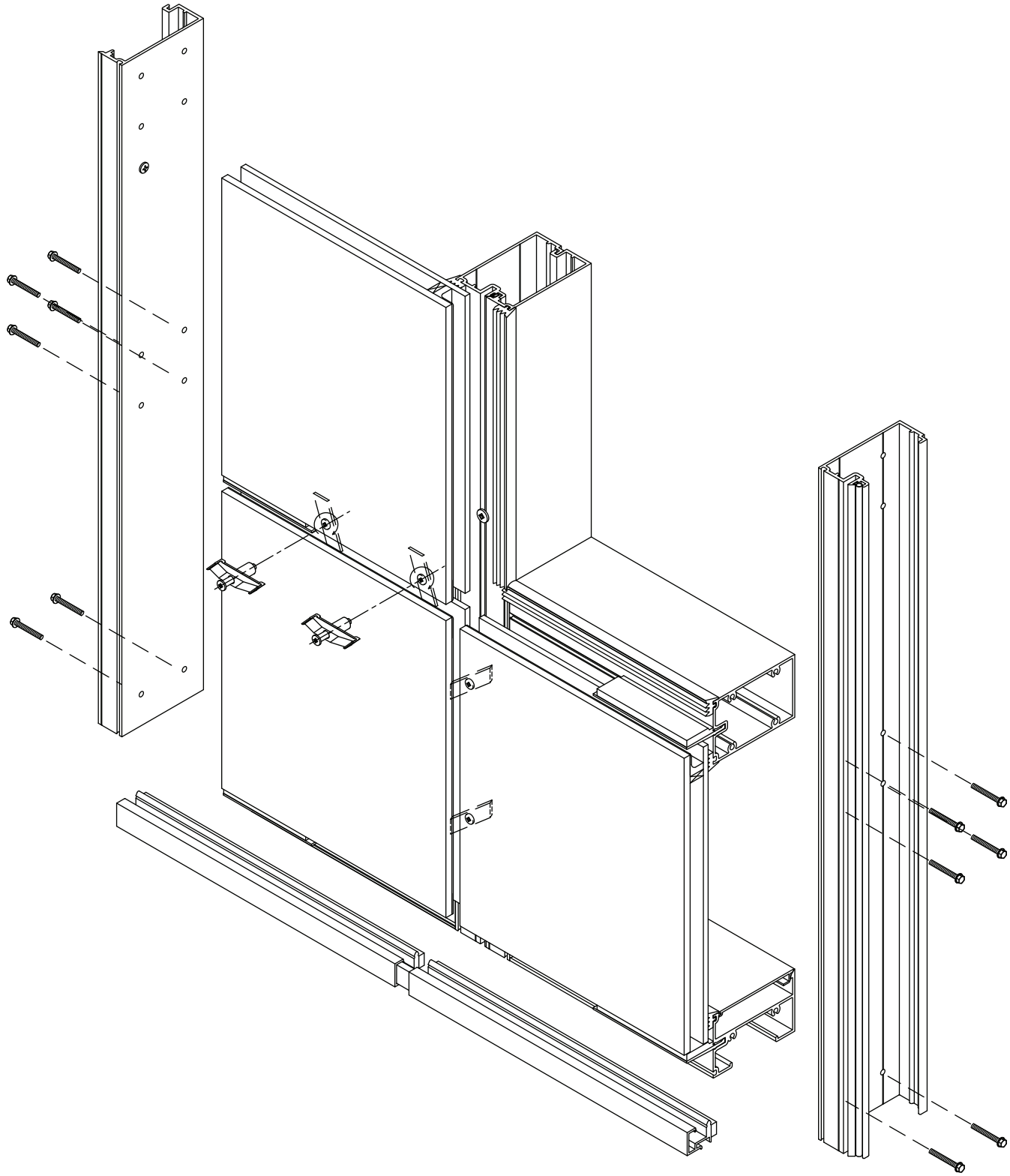
Metric (SI) conversion figures are included throughout these details for reference. Numbers in parentheses ( ) are millimeters unless otherwise noted.

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

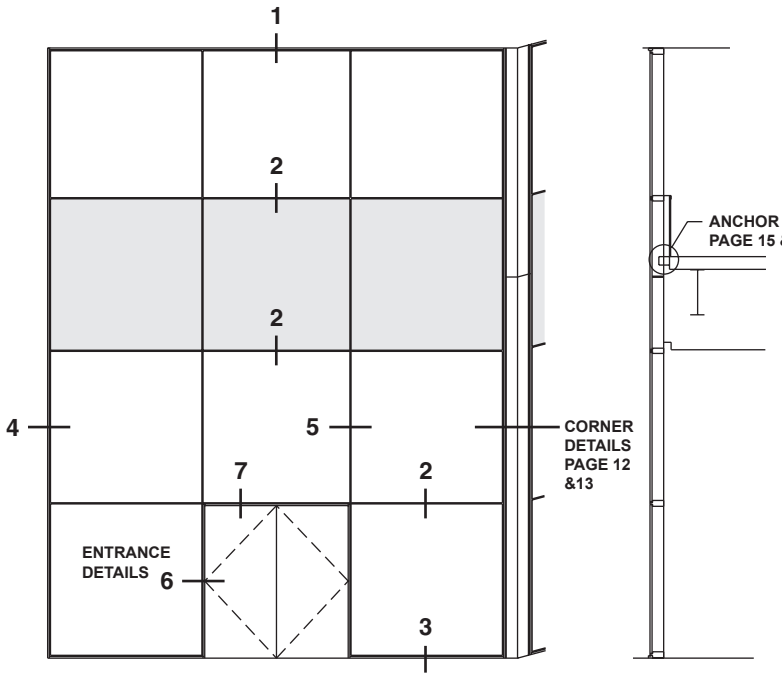
m – meter
cm – centimeter
mm – millimeter
s – second
Pa – pascal
MPa – megapascal

Clearwall® Curtain Wall System



CLEARWALL® SS (Screw Spline) shown

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



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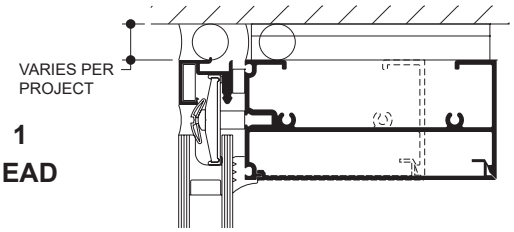

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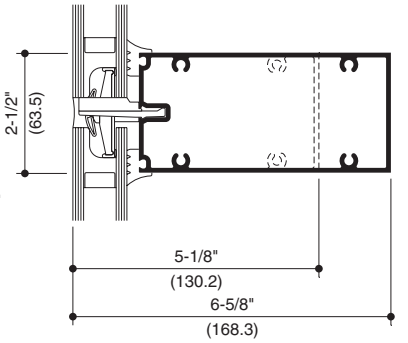

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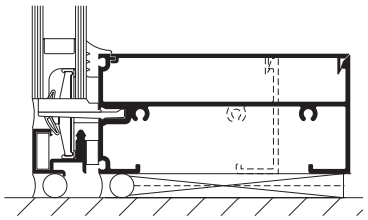

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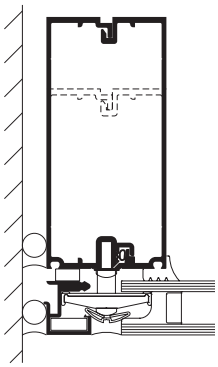

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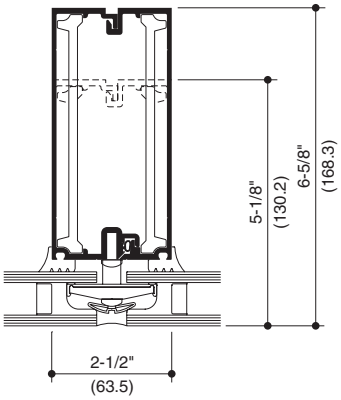

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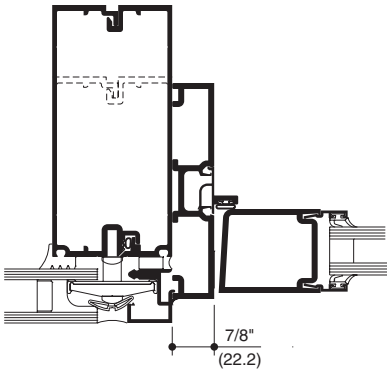
VERTICAL INTERMEDIATE



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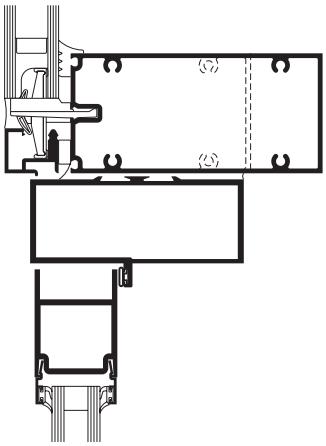
DOOR JAMB
BUTT HUNG
OR
OFFSET PIVOT



7
DOOR JAMB
BUTT HUNG
OR
OFFSET PIVOT

Note: 1-1/8" (28.6) insulating glass unit with recessed spacer by qualified Insulated Glass Unit (IGU) manufacturer.

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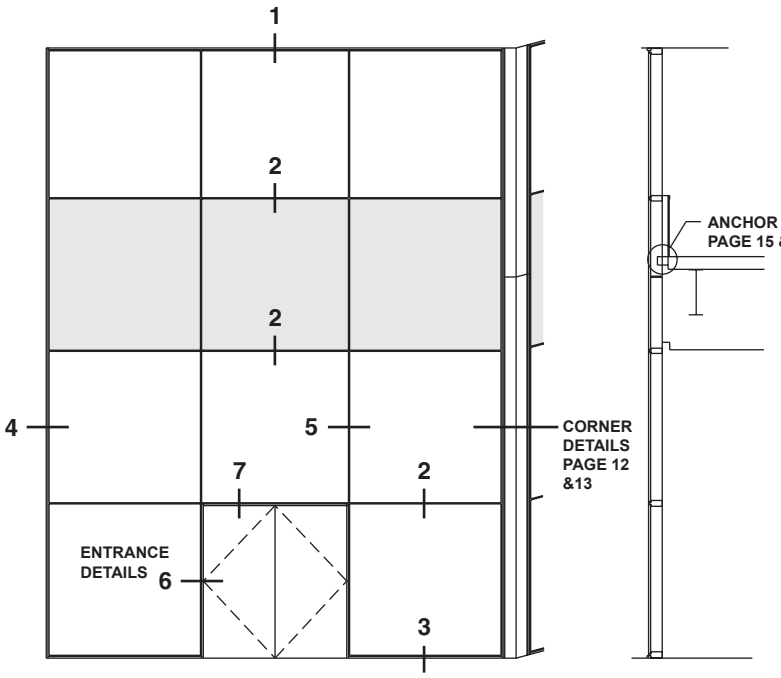

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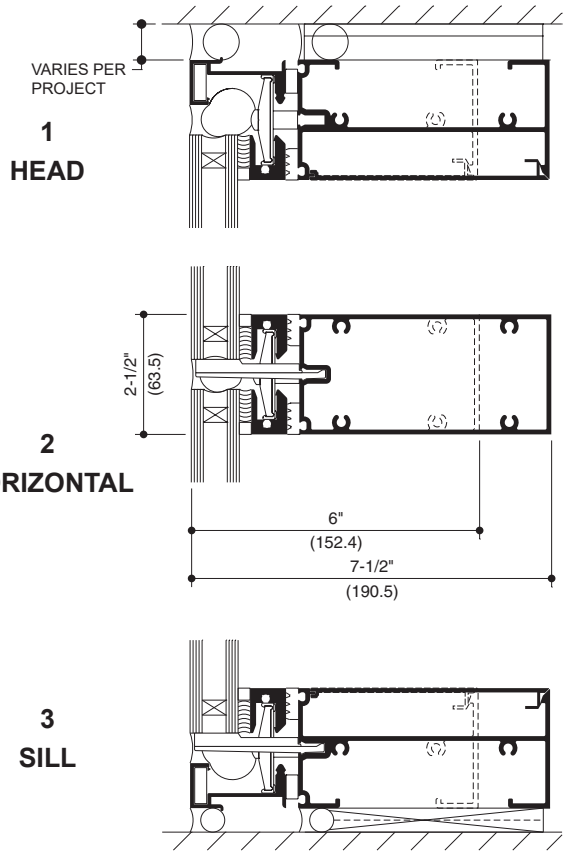

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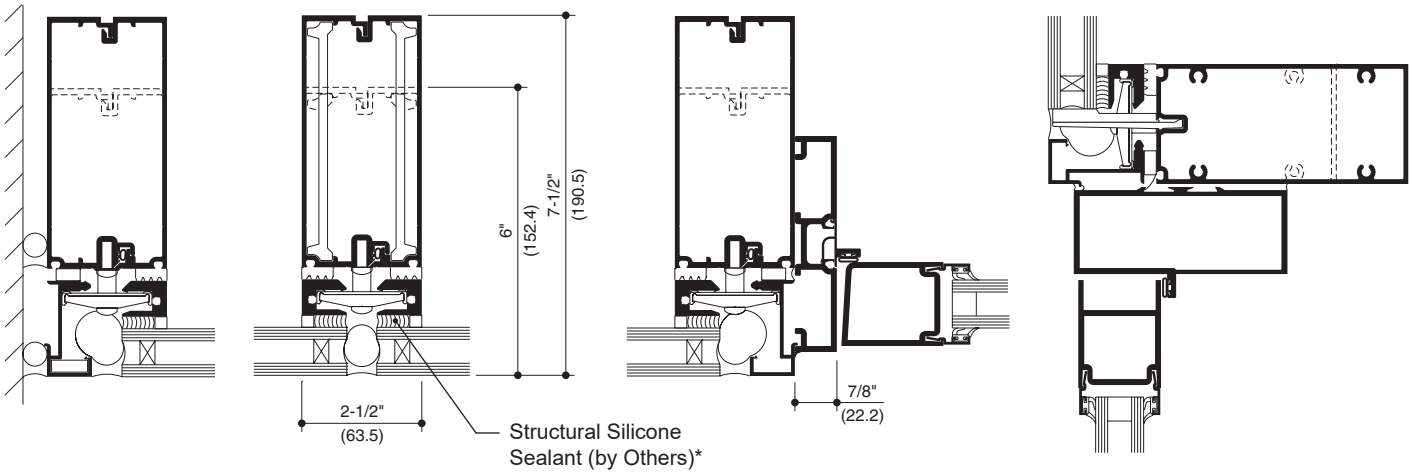
3 SILL



4 JAMB

5 VERTICAL INTERMEDIATE

6 DOOR JAMB BUTT HUNG OR OFFSET PIVOT

7 DOOR JAMB BUTT HUNG OR OFFSET PIVOT

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

Clearwall® Curtain Wall System

SCREW SPLINE INTERFACE TAPE (SSIT) DETAILS

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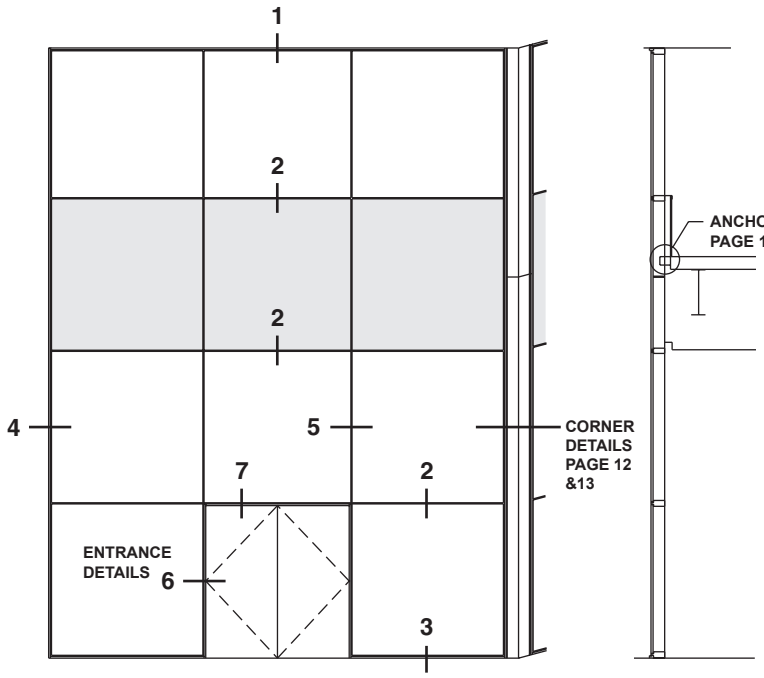

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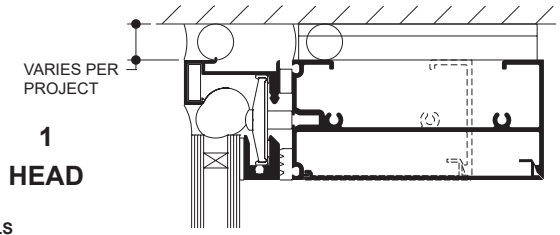

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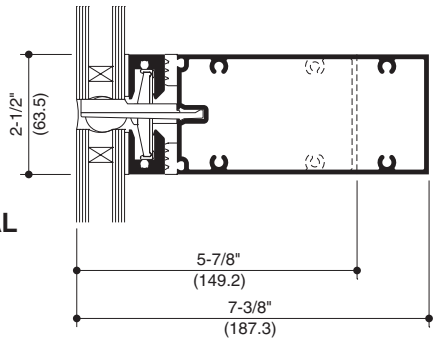

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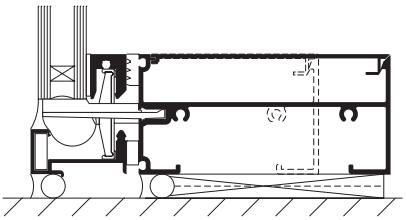

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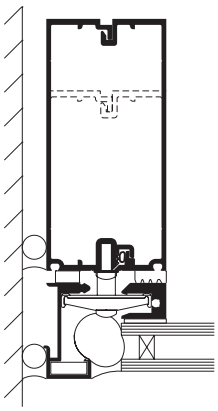

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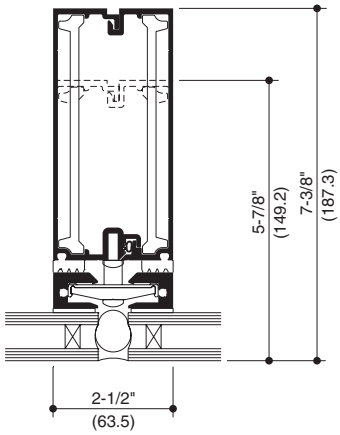

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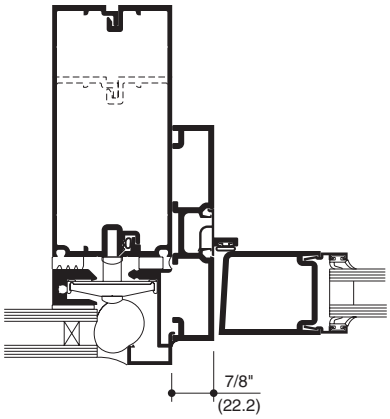

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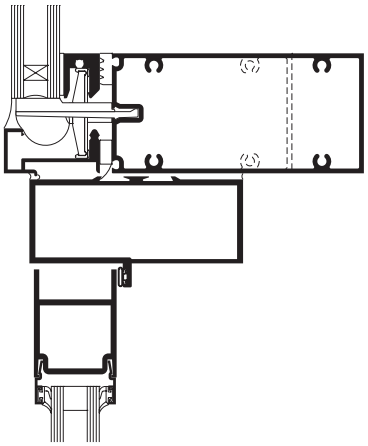
DOOR JAMB
BUTT HUNG OR OFFSET PIVOT



7
DOOR JAMB
BUTT HUNG OR OFFSET PIVOT

Note: Metal interface uses 3M™ VHB™ SGT (Structural Glazing Tape)

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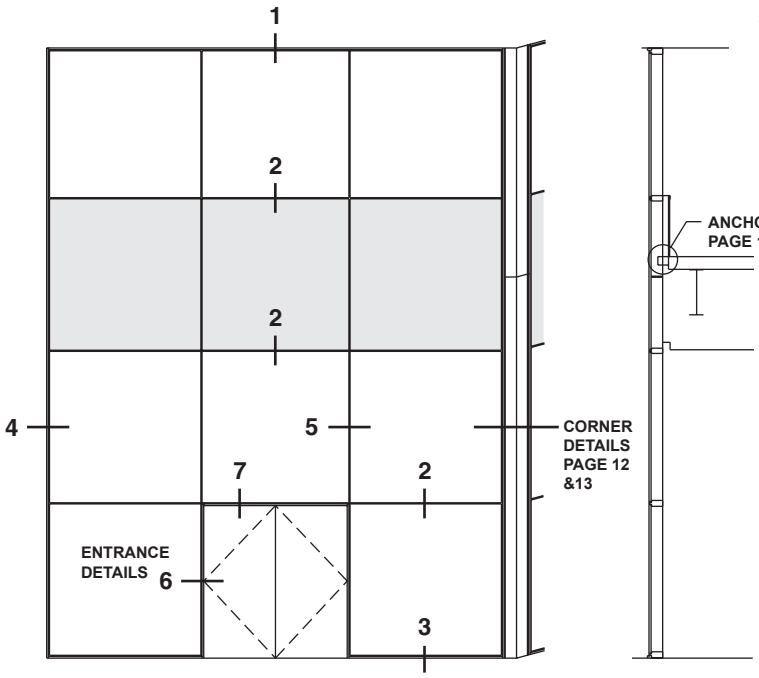

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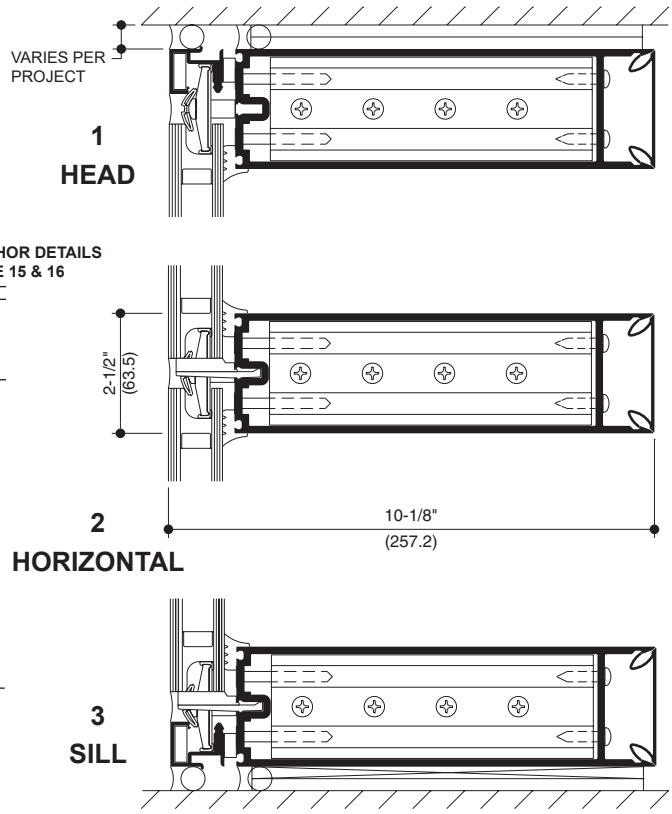
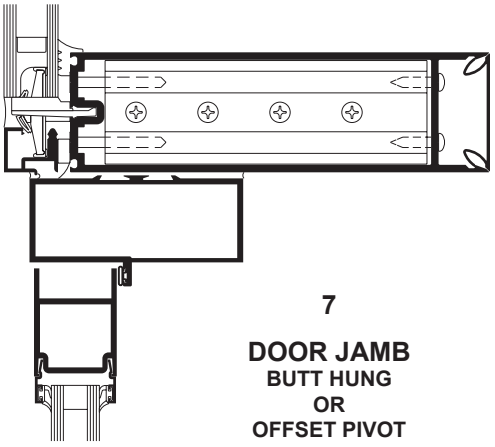


1
HEAD

2
HORIZONTAL

3
SILL



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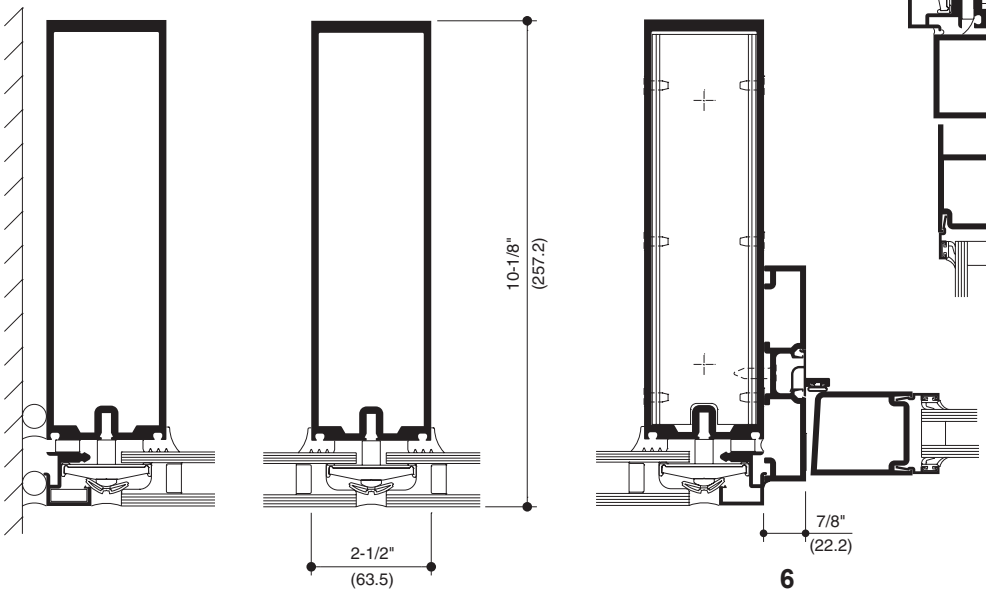
DOOR JAMB
BUTT HUNG
OR
OFFSET PIVOT



4
JAMB

5
VERTICAL
INTERMEDIATE

6
DOOR JAMB
BUTT HUNG
OR
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Note: 1-1/8" (28.6) insulating glass unit with recessed spacer by qualified Insulated Glass Unit (IGU) manufacturer.

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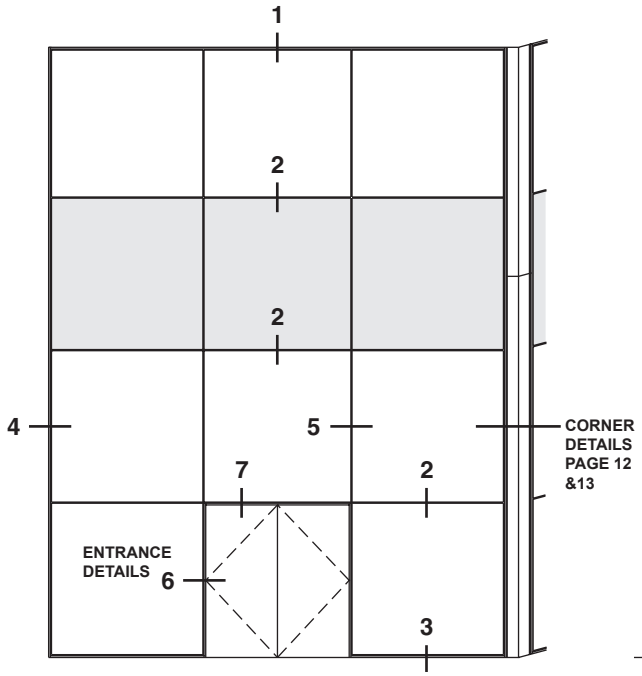

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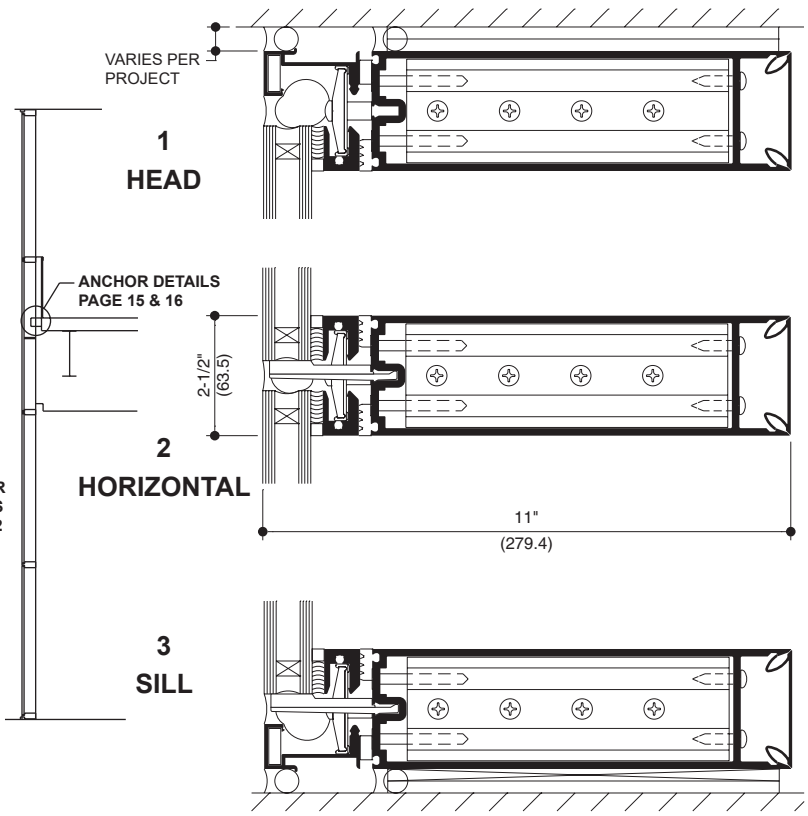
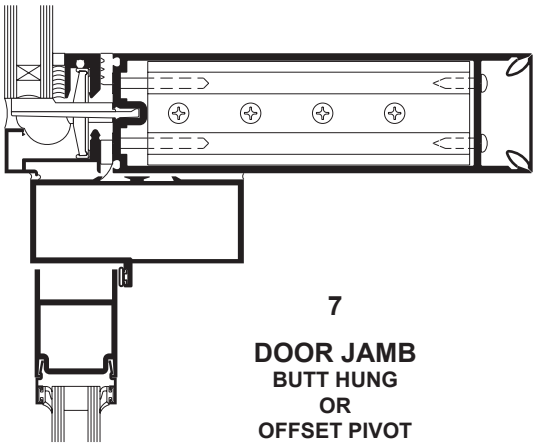
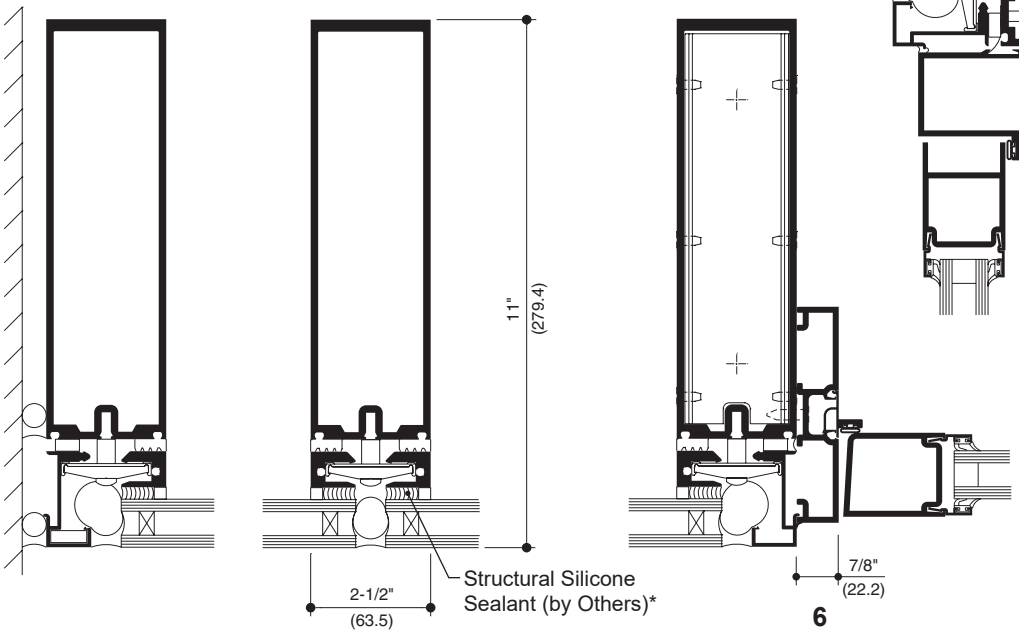




7
DOOR JAMB
BUTT HUNG OR OFFSET PIVOT



4
JAMB

5
VERTICAL INTERMEDIATE

6
DOOR JAMB
BUTT HUNG OR OFFSET PIVOT

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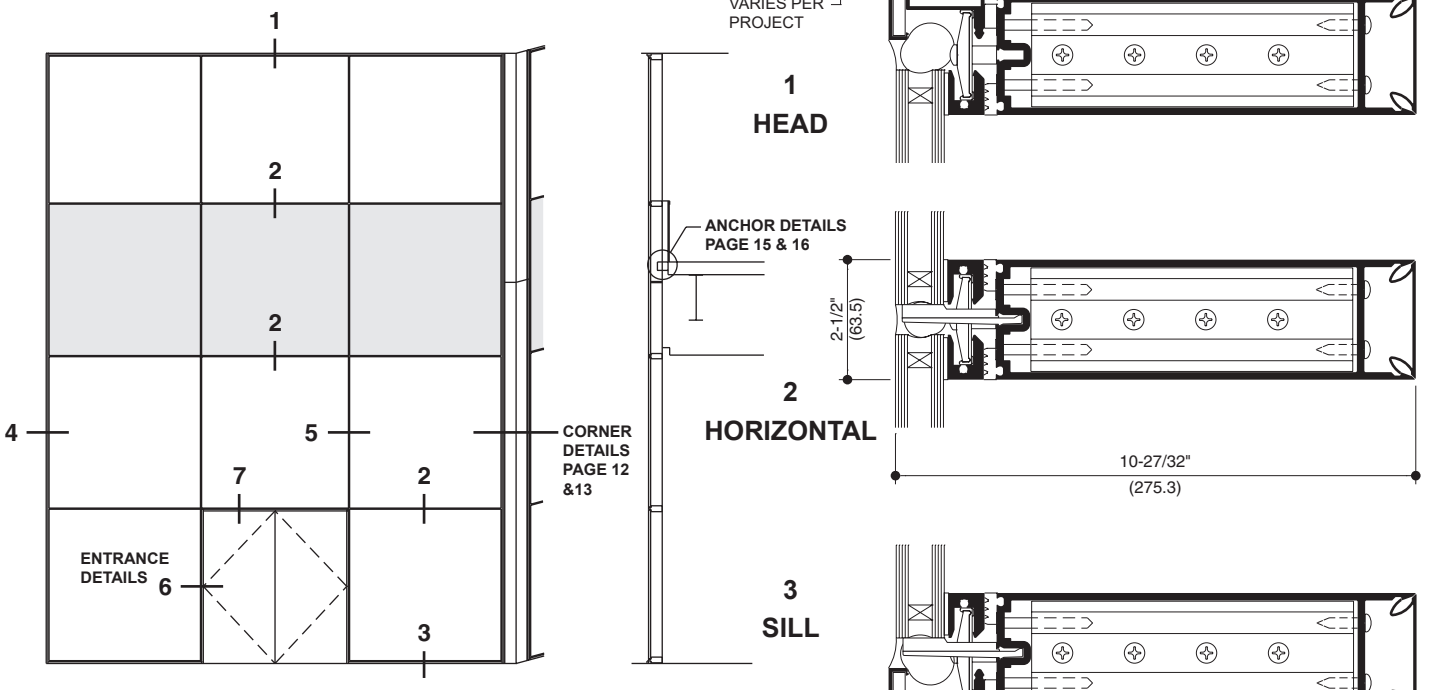

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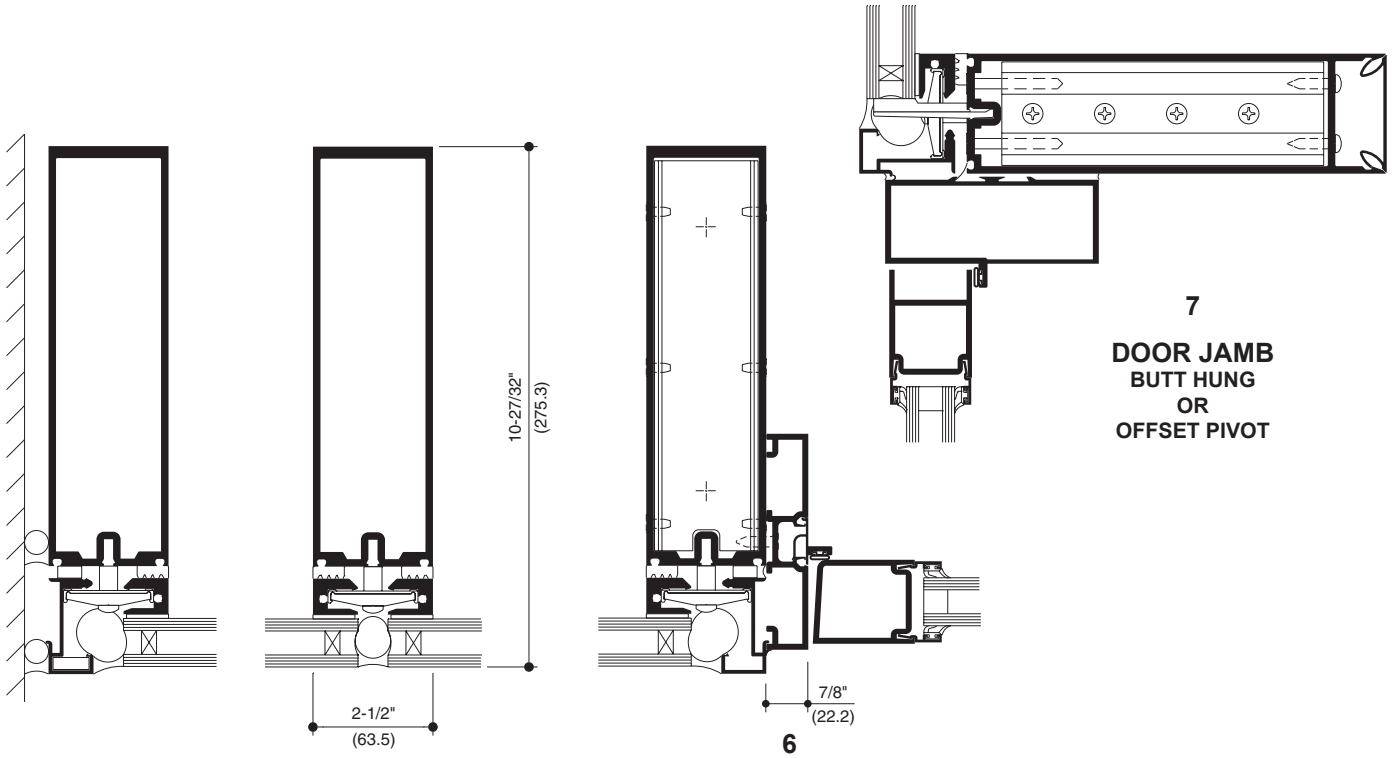

4
JAMB

5
VERTICAL INTERMEDIATE

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BUTT HUNG OR OFFSET PIVOT

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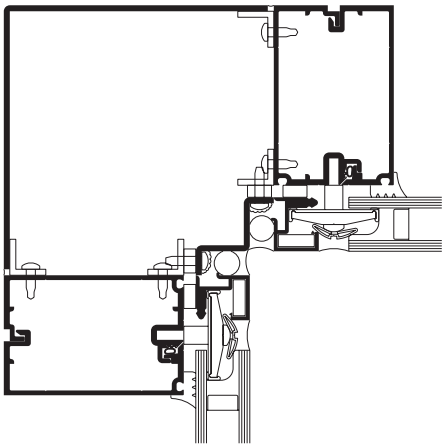
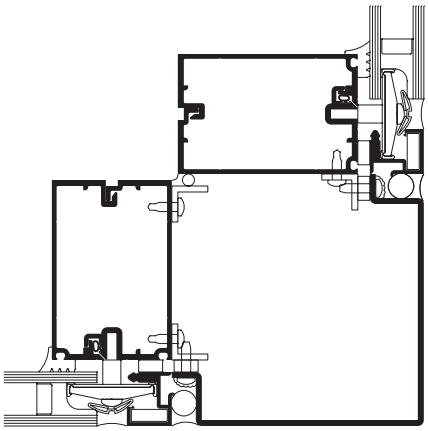
DOOR JAMB
BUTT HUNG OR OFFSET PIVOT

Note: Metal interface uses 3M™ VHB™ SGT (Structural Glazing Tape)

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

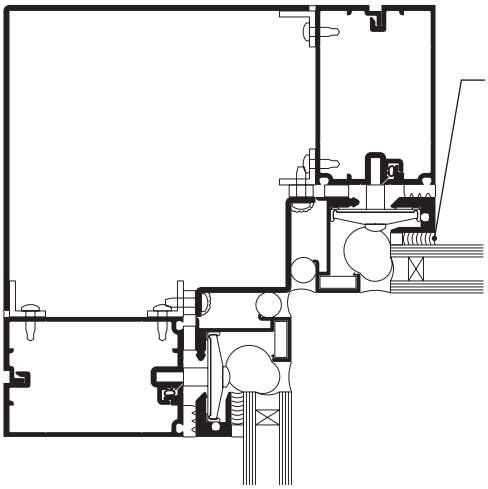


90° INSIDE (SS) CORNER

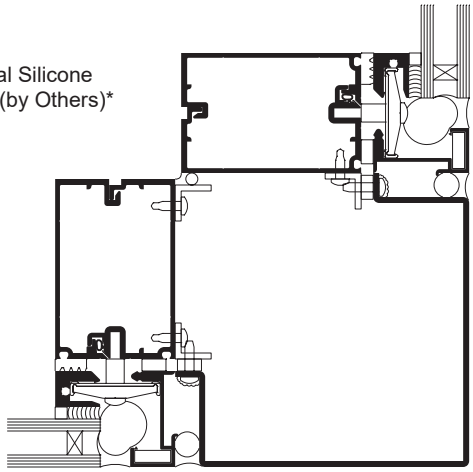


90° OUTSIDE (SS) CORNER

Note: 5-1/8" (130.2) System shown, 6-5/8" (168.3) System similar.

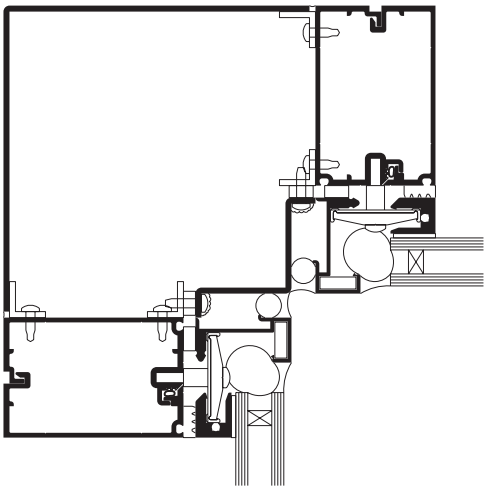


90° INSIDE (SSI) CORNER

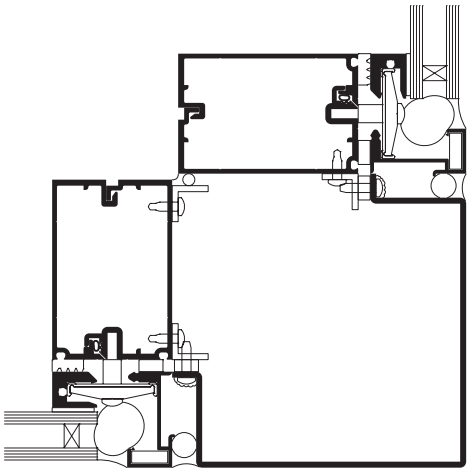


90° OUTSIDE (SSI) CORNER

Note: 6" (152.4) System shown, 7-1/2" (190.5) System similar.



90° INSIDE (SSIT) CORNER



90° OUTSIDE (SSIT) CORNER

Note: 5-7/8" (149.2) System shown, 7-3/8" (187.3) System similar.

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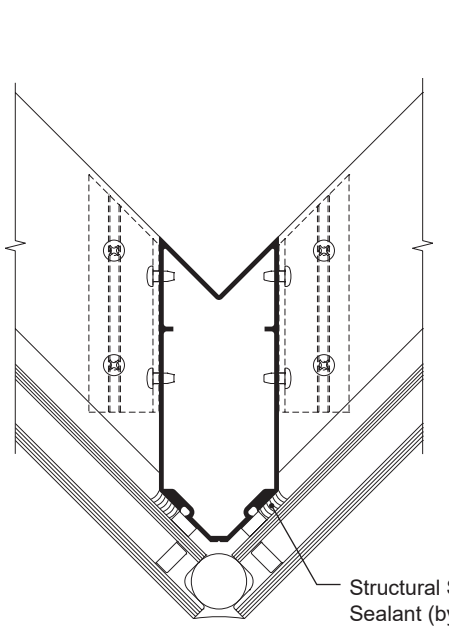
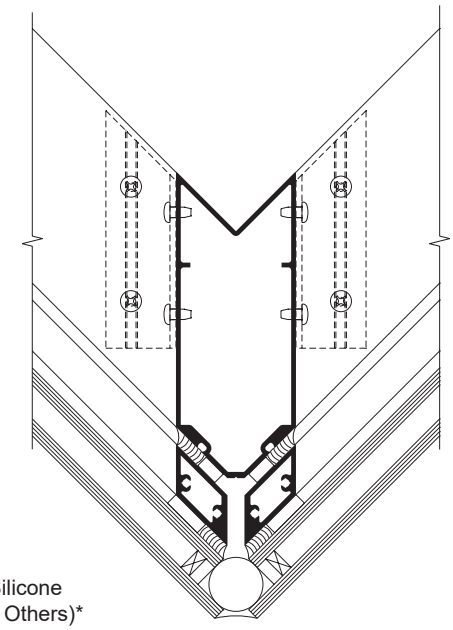
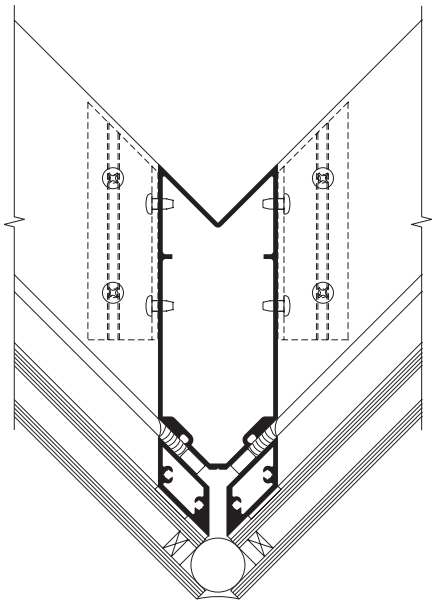


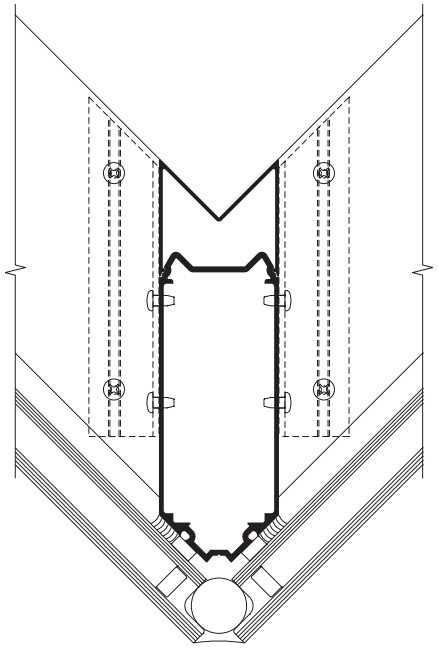
90° OUTSIDE (SS) CORNER
5-1/8" (130.2) System



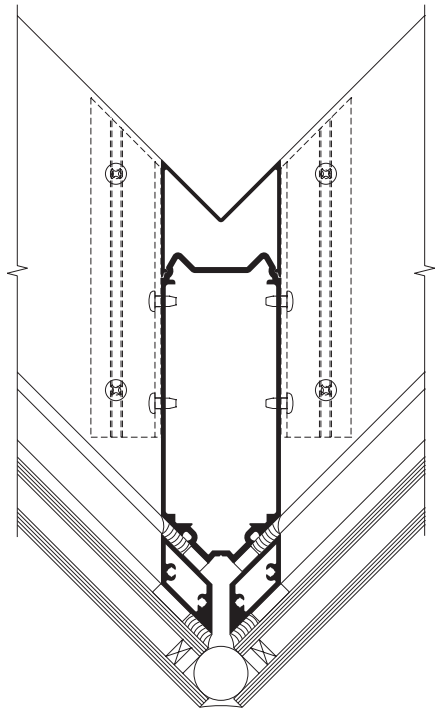
90° OUTSIDE (SSI) CORNER
6" (152.4) System



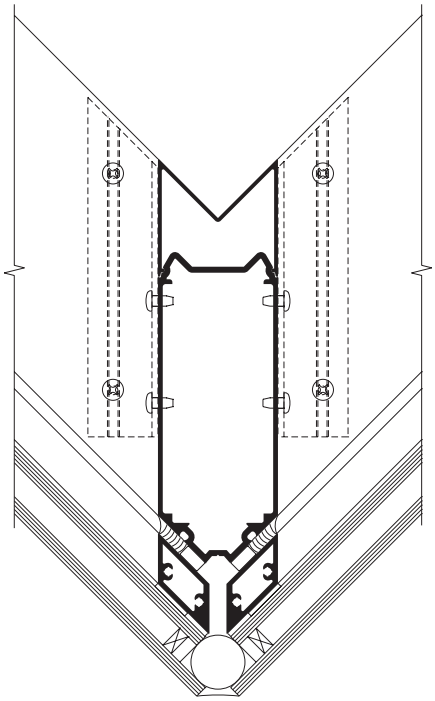
90° OUTSIDE (SSIT) CORNER
5-7/8" (149.2) System



90° OUTSIDE (SS) CORNER
6-5/8" (168.3) System



90° OUTSIDE (SSI) CORNER
7-1/2" (190.5) System



90° OUTSIDE (SSIT) CORNER
7-3/8" (187.3) System

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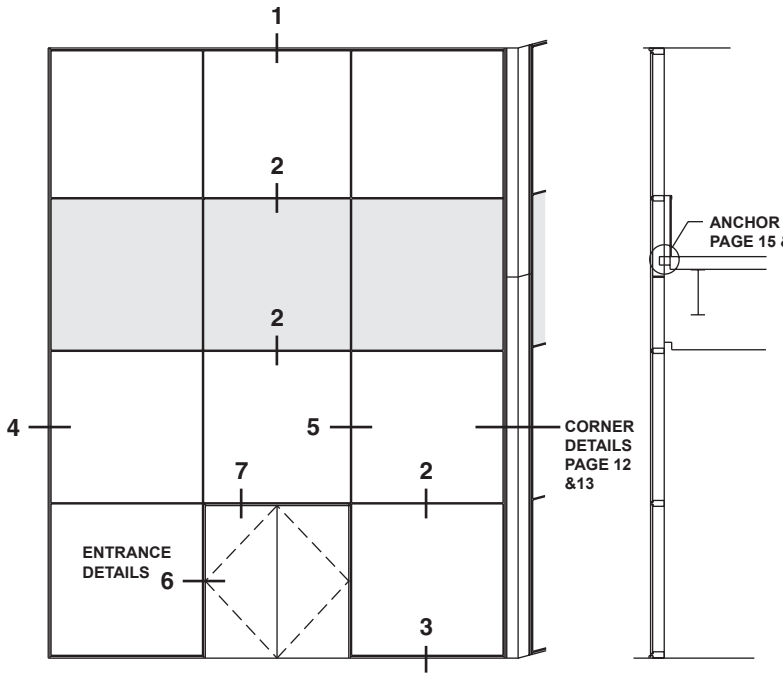

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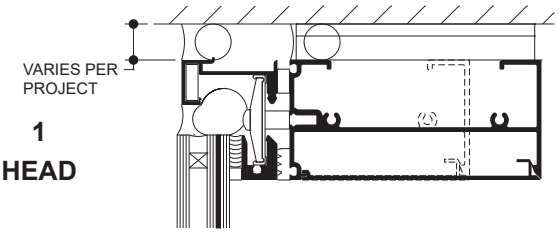
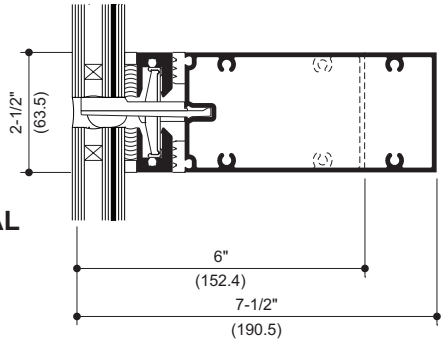


1
HEAD



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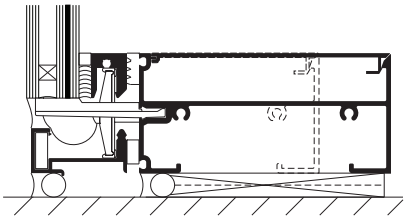
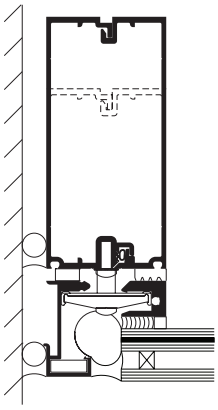
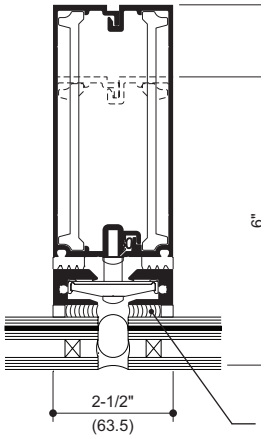


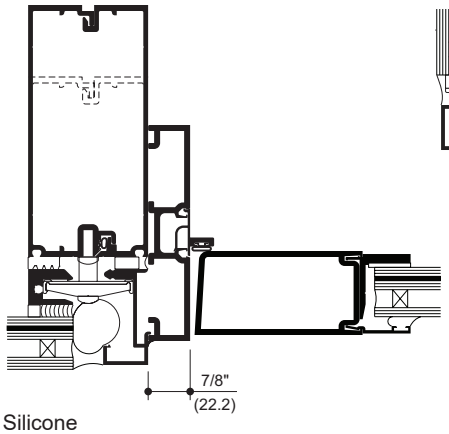
3
SILL



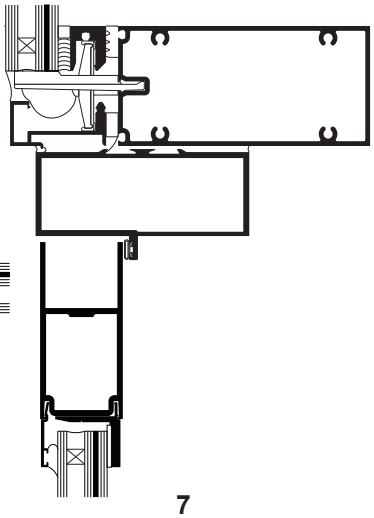
4
JAMB



5
VERTICAL INTERMEDIATE



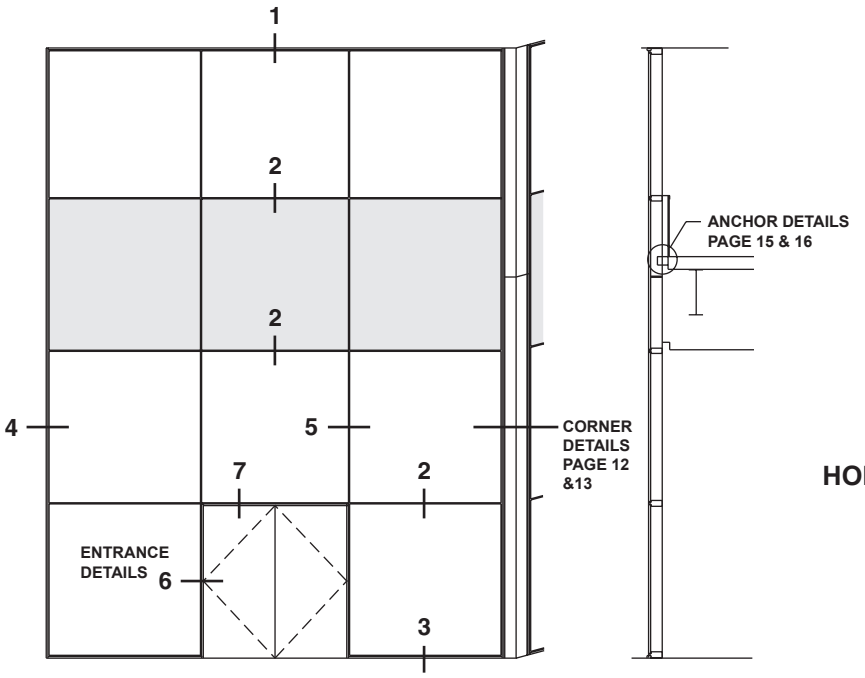
6
DOOR JAMB
BUTT HUNG OR OFFSET PIVOT



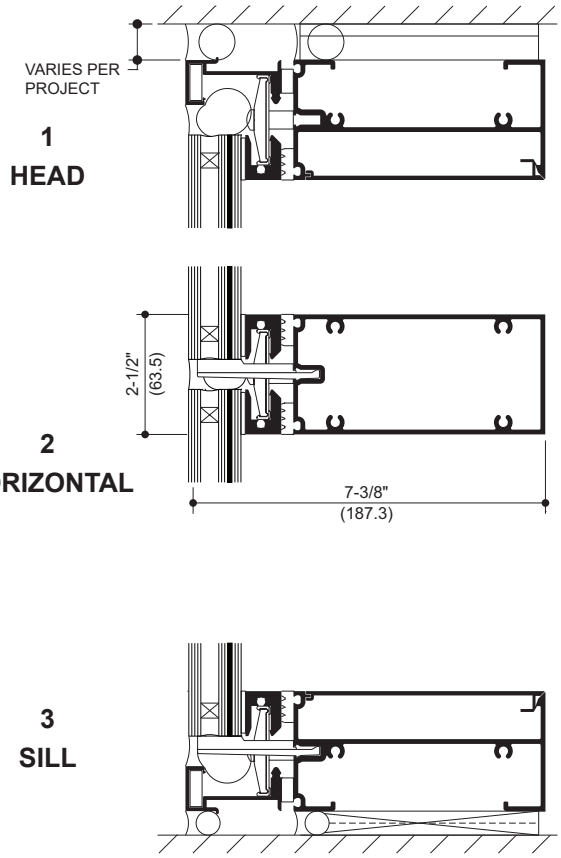
7
DOOR JAMB
BUTT HUNG OR OFFSET PIVOT

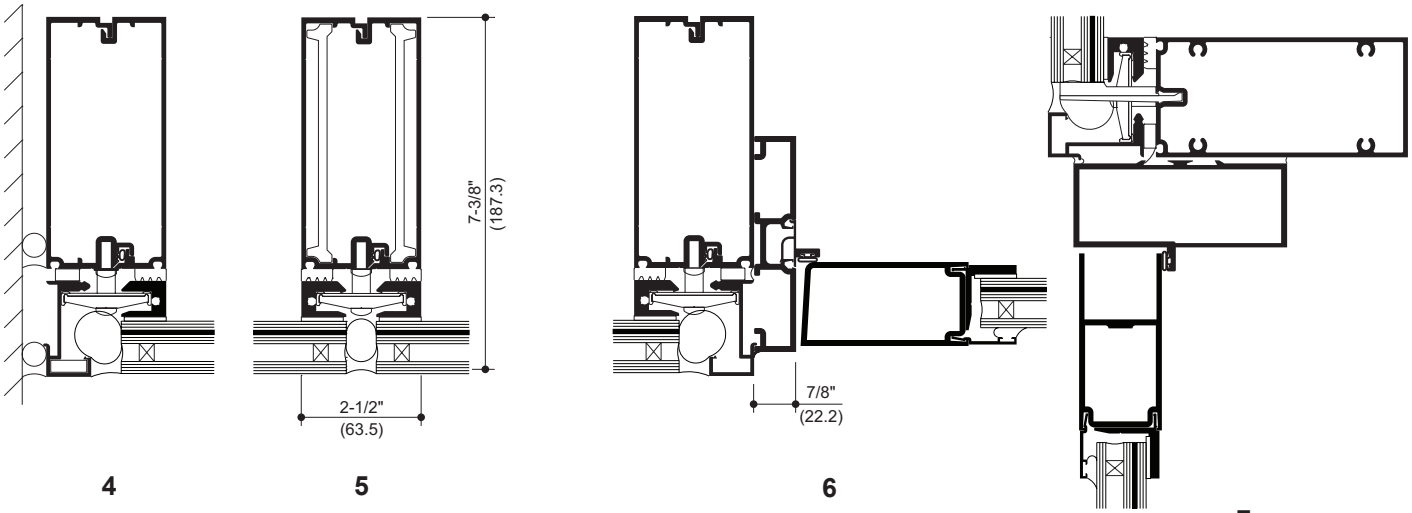
*** INSTALLER NOTE:** Installer is responsible for all required compatibility review and approvals with the Structural Silicone Manufacturer and the Insulating Glass Unit Manufacturer.

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



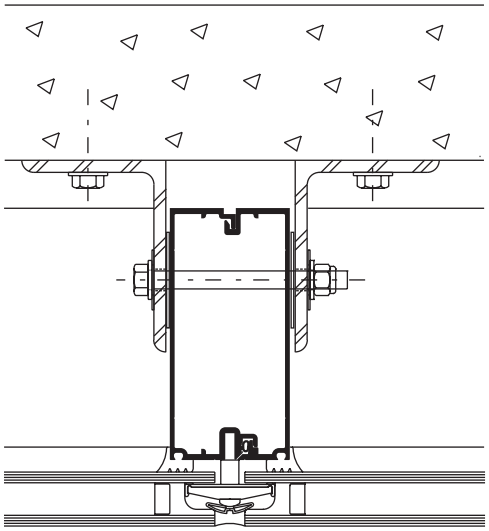
ELEVATION IS NUMBER KEYED TO DETAILS

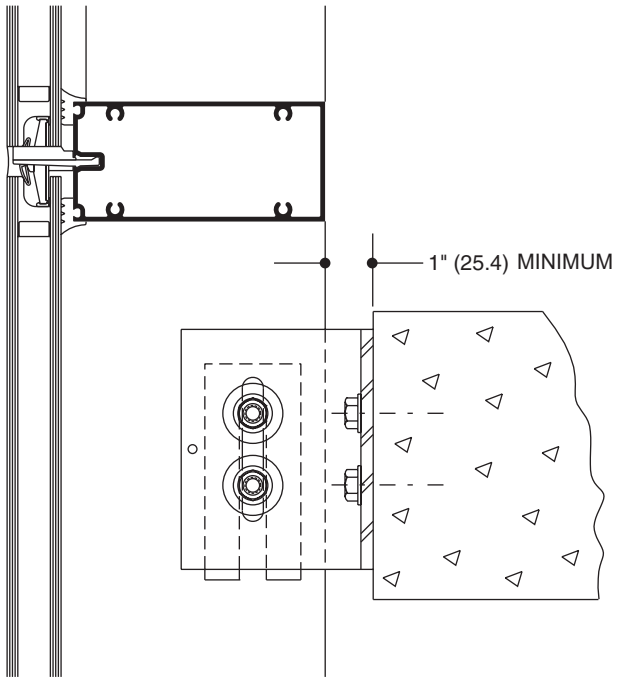




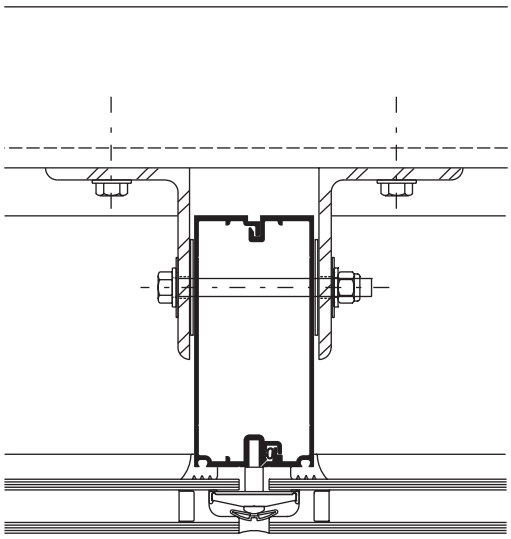
Note: Metal interface uses 3M™ VHB™ SGT (Structural Glazing Tape)

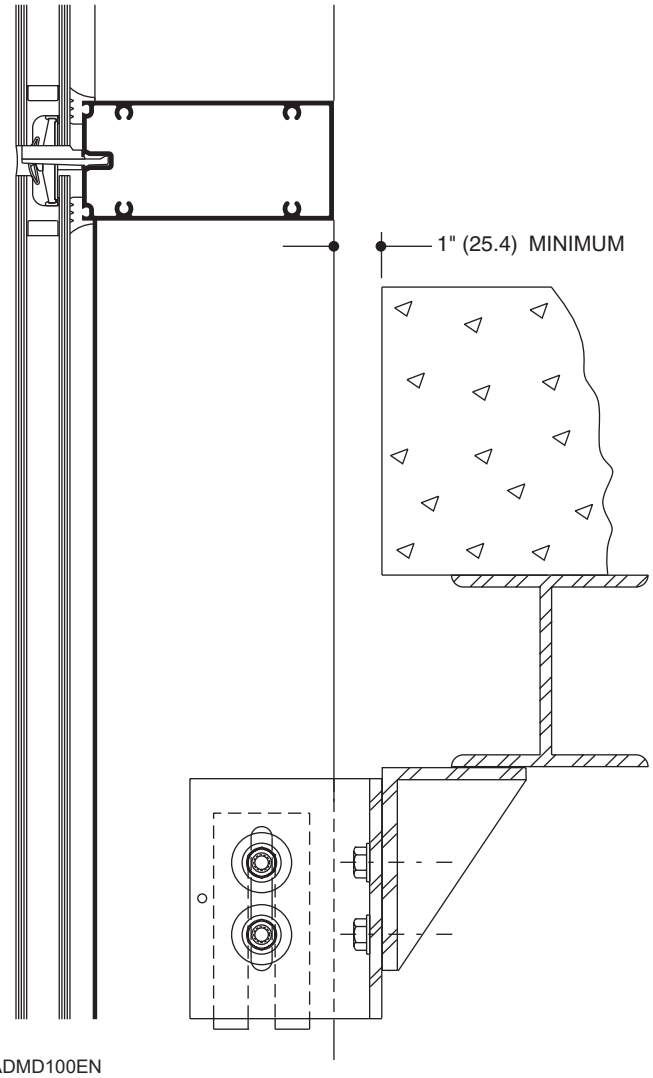
Actual project conditions will determine specific anchor design. Details on this page are for reference only.
Note: Clearwall 6-5/8" (168.3) Screw Spline (SS) system shown, other Clearwall systems are similar.





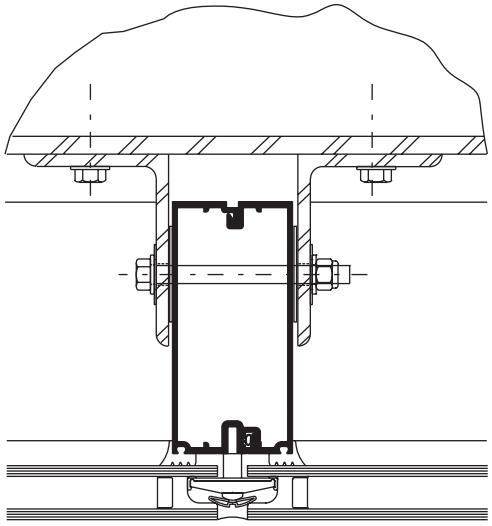
ANCHORING TO FLOOR SLAB



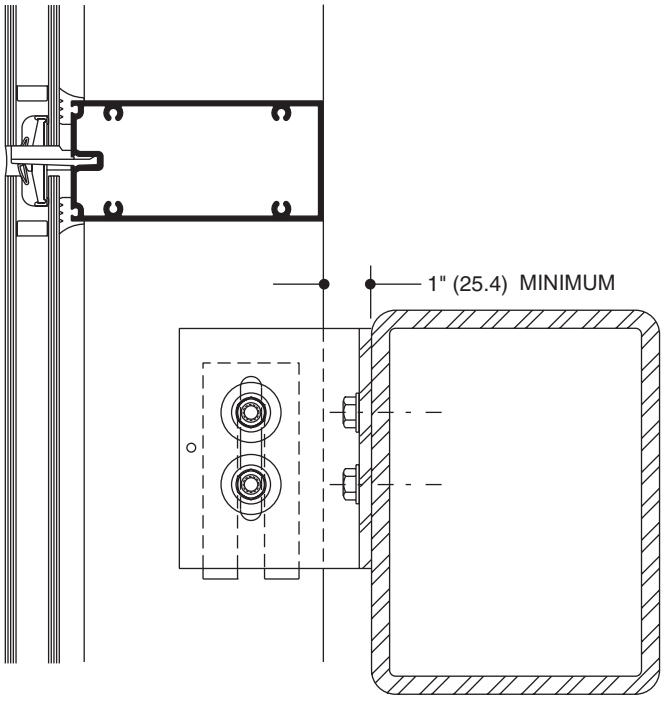


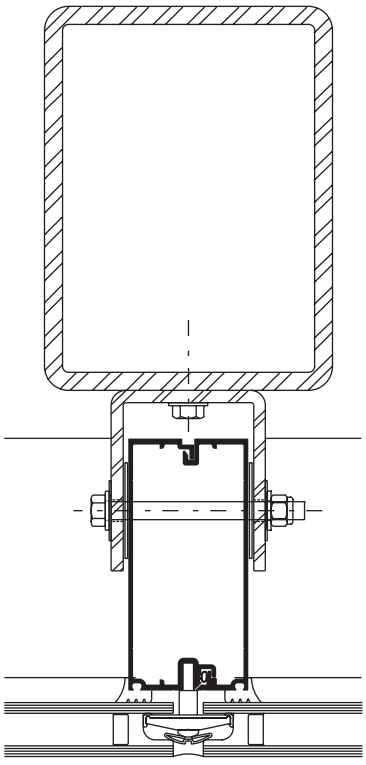
ANCHORING TO SUPPORT STEEL

Actual project conditions will determine specific anchor design. Details on this page are for reference only.
Note: Clearwall 6-5/8" (168.3) Screw Spline (SS) system shown, other Clearwall systems are similar.

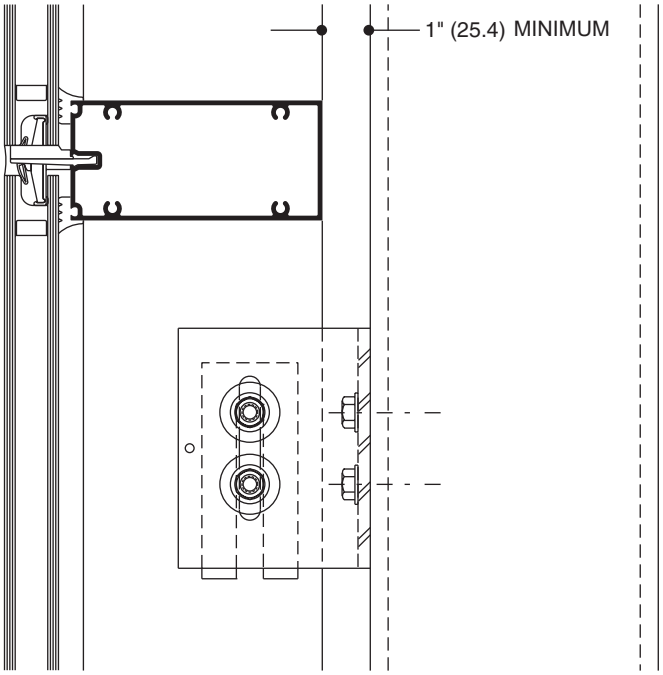


ANCHORING TO HORIZONTAL STRUCTURAL STEEL





ANCHORING TO VERTICAL STRUCTURAL STEEL



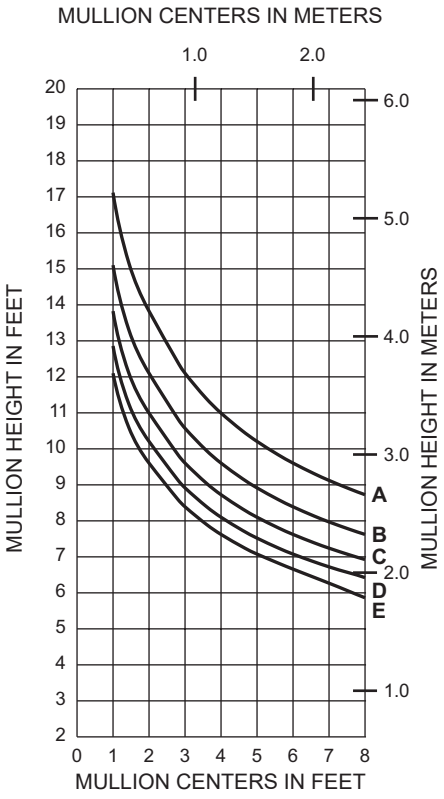
WIND LOAD CHARTS

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.

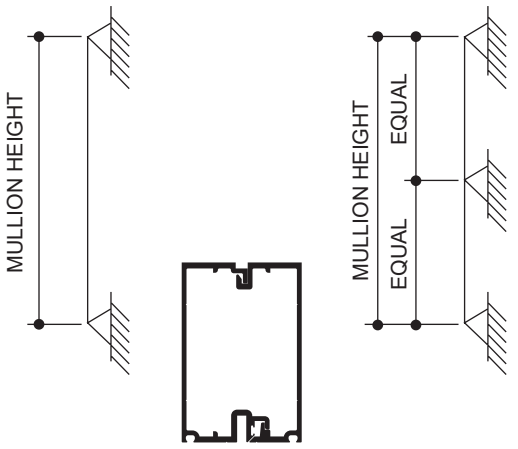
DEADLOAD CHARTS

Horizontal or deadload limitations are based upon 1/16" (1.6), maximum allowable deflection at the center of an intermediate horizontal member. The accompanying charts are calculated for 1" (25.4) thick insulating glass or 1-1/8" (28.6) thick glass supported on two setting blocks placed at the loading points shown.

SINGLE SPAN



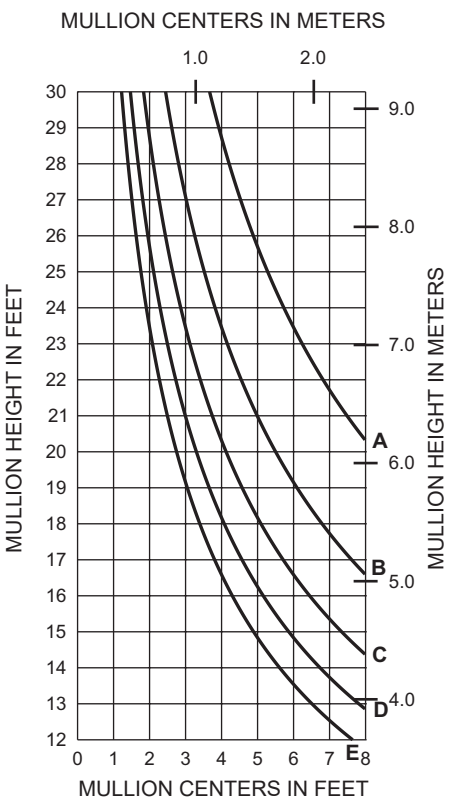
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	20 PSF (960)	33 PSF (1580)
B =	30 PSF (1440)	50 PSF (2400)
C =	40 PSF (1920)	67 PSF (3200)
D =	50 PSF (2400)	83 PSF (4000)
E =	60 PSF (2880)	100 PSF (4790)



(SS) 172001 **(SS) 172002**

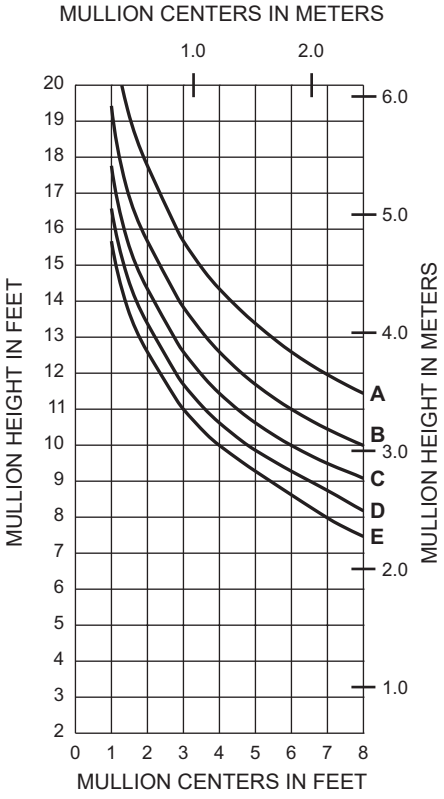
Combined I = 3.494 (145.43 x 10^4)
Combined S = 1.634 (26.78 x 10^3)

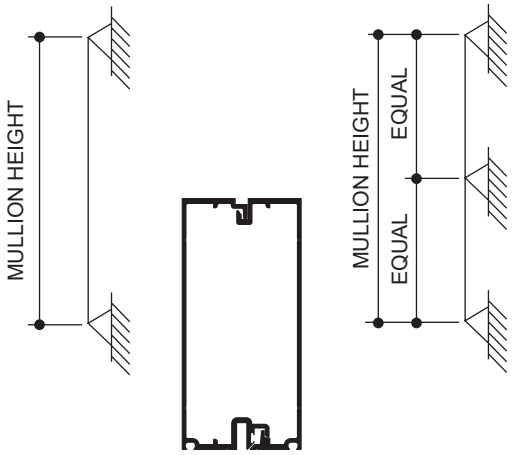
TWIN SPAN



Note:
These curves are for 6" (152.4) on center toggles with 1-1/8" (28.6) glass.

SINGLE SPAN

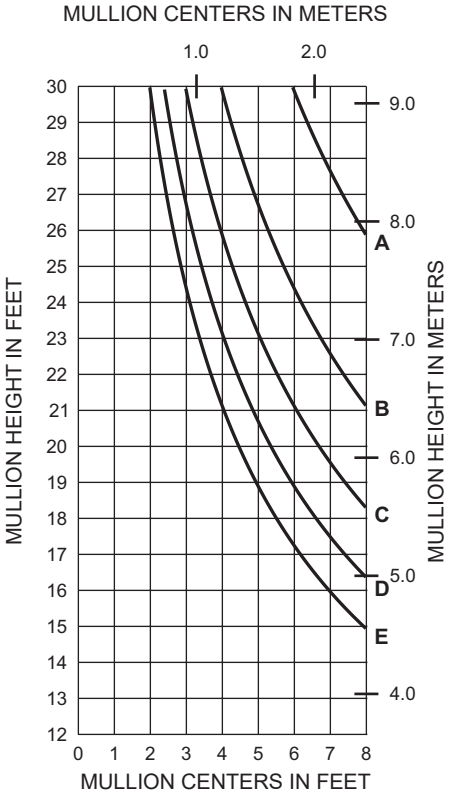




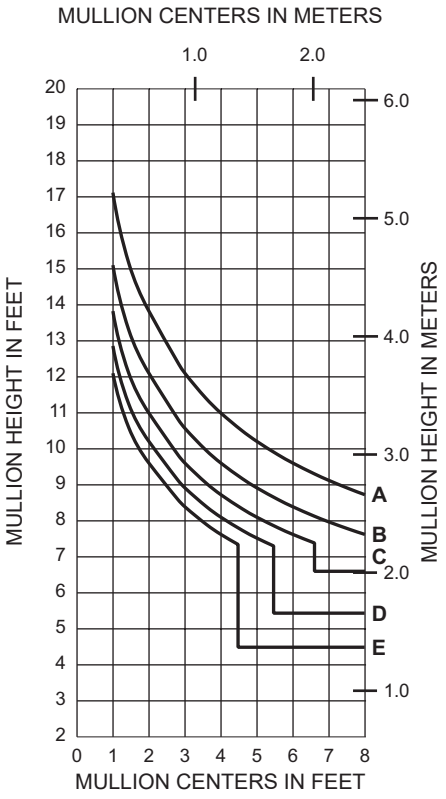
(SS) 172003 **(SS) 172004**

Combined I = 7.871 (327.61 x 10^4)
Combined S = 2.648 (43.39 x 10^3)

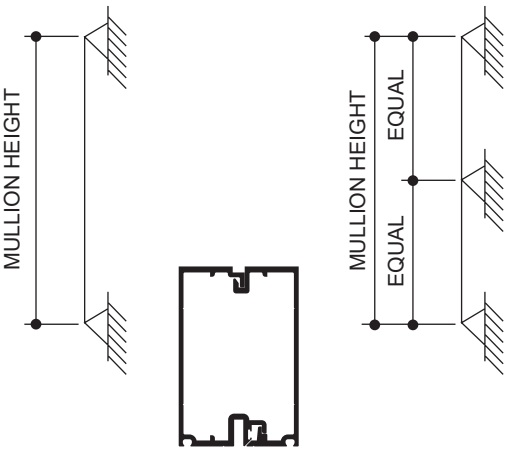
TWIN SPAN



SINGLE SPAN



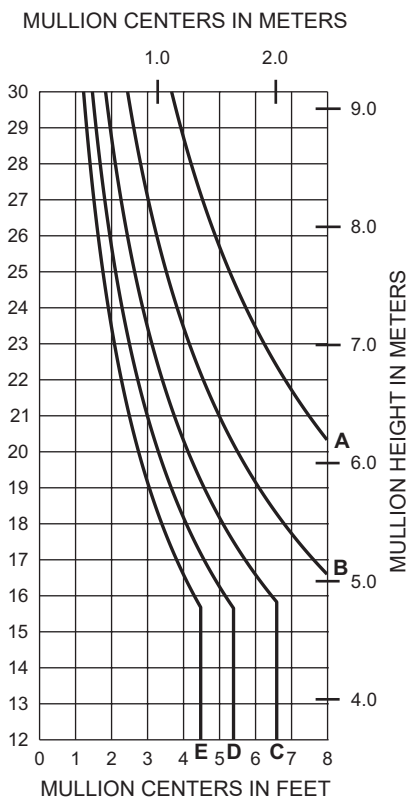
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	20 PSF (960)	33 PSF (1580)
B =	30 PSF (1440)	50 PSF (2400)
C =	40 PSF (1920)	67 PSF (3200)
D =	50 PSF (2400)	83 PSF (4000)
E =	60 PSF (2880)	100 PSF (4790)



(SS) 172001 (SS) 172002

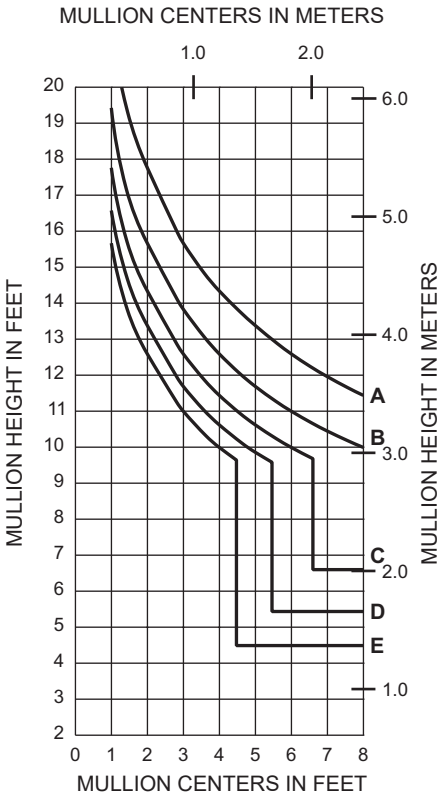
Combined I = 3.494 (145.43 x 10^4)
Combined S = 1.634 (26.78 x 10^3)

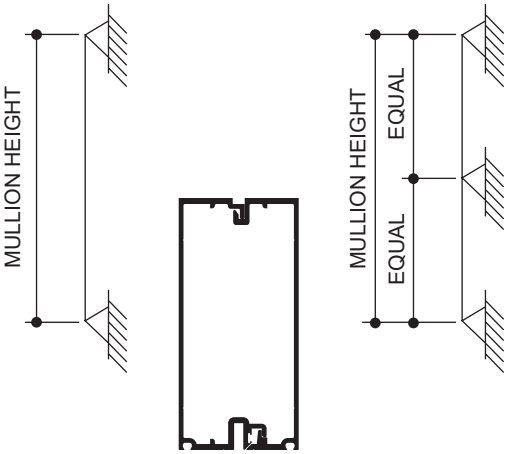
TWIN SPAN



Note:
These curves are for 9" (228.6) on center toggles with 1-1/8" (28.6) glass.

SINGLE SPAN

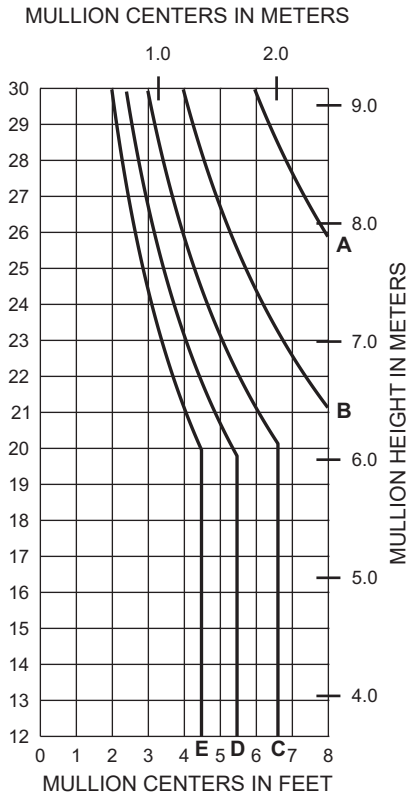




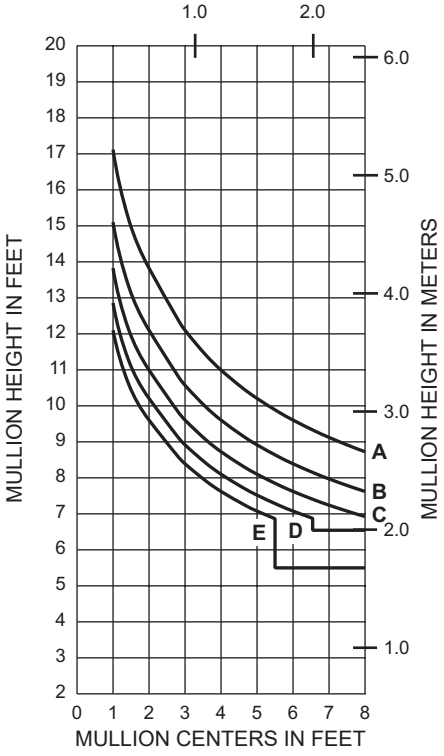
(SS) 172003 (SS) 172004

Combined I = 7.871 (327.61 x 10^4)
Combined S = 2.648 (43.39 x 10^3)

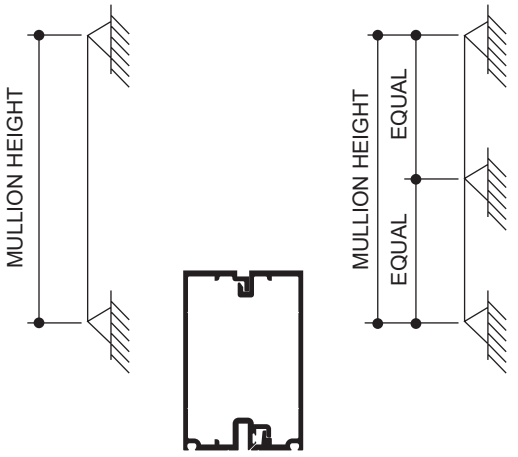
TWIN SPAN



SINGLE SPAN



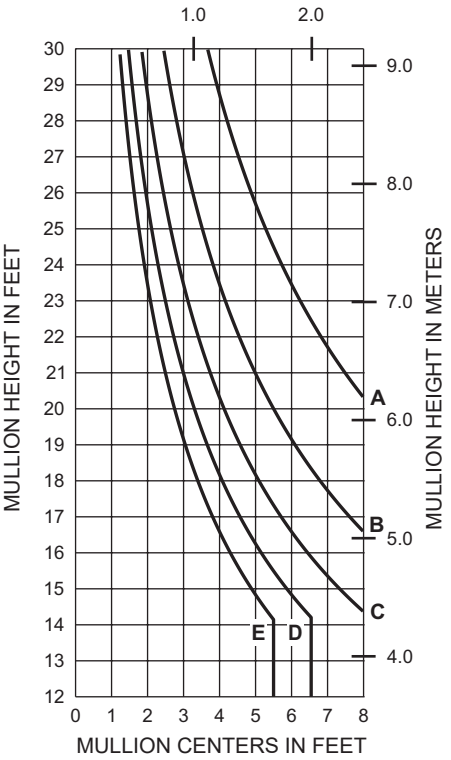
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	20 PSF (960)	33 PSF (1580)
B =	30 PSF (1440)	50 PSF (2400)
C =	40 PSF (1920)	67 PSF (3200)
D =	50 PSF (2400)	83 PSF (4000)
E =	60 PSF (2880)	100 PSF (4790)



(SSI) 172001 (SSI) 172002

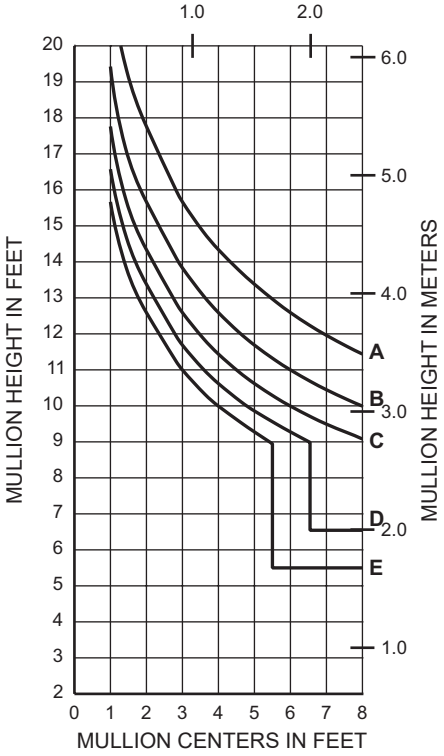
Combined I = 3.494 (145.43 x 10^4)
Combined S = 1.634 (26.78 x 10^3)

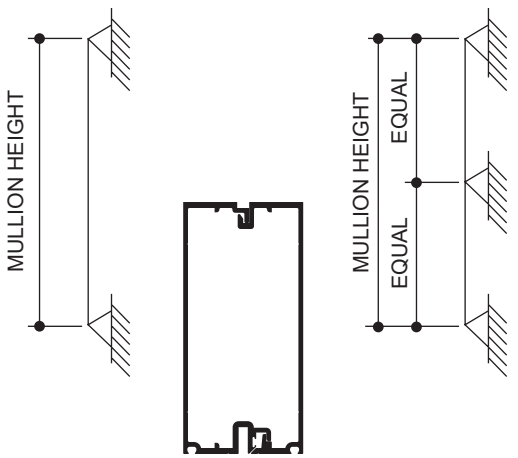
TWIN SPAN



Note:
These curves are for 9" (228.6) on center toggles with 1" (25.4) glass.

SINGLE SPAN

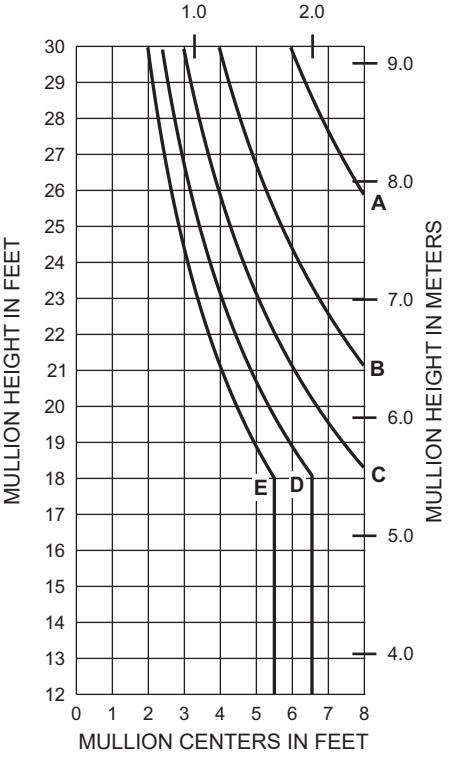




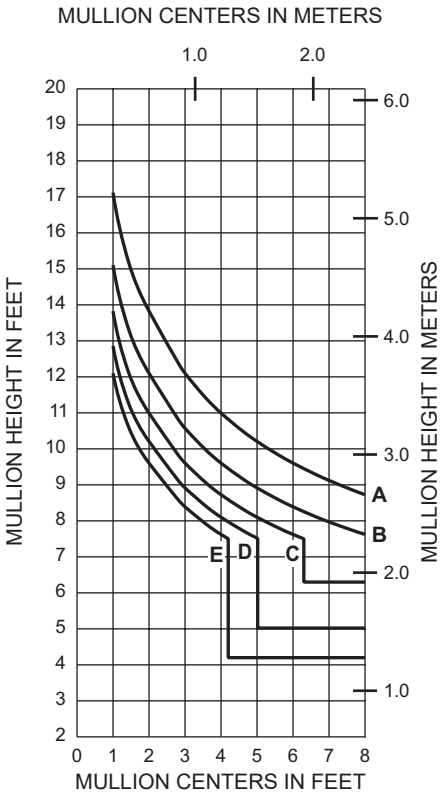
(SSI) 172003 (SSI) 172004

Combined I = 7.871 (327.61 x 10^4)
Combined S = 2.648 (43.39 x 10^3)

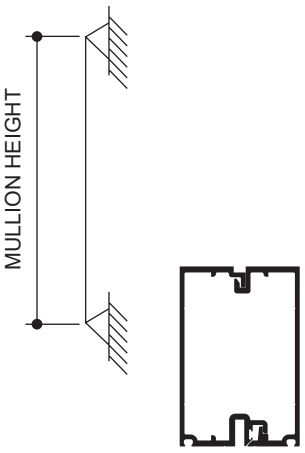
TWIN SPAN

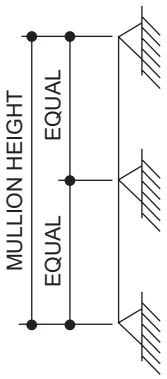


SINGLE SPAN



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



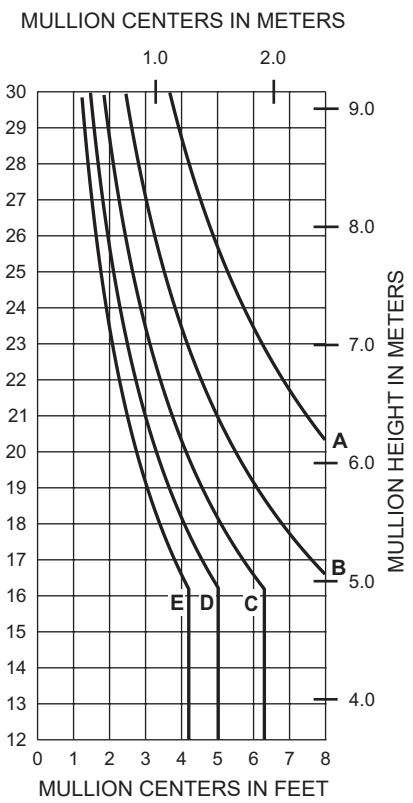


(SSIT) 172001 (SSIT) 172002

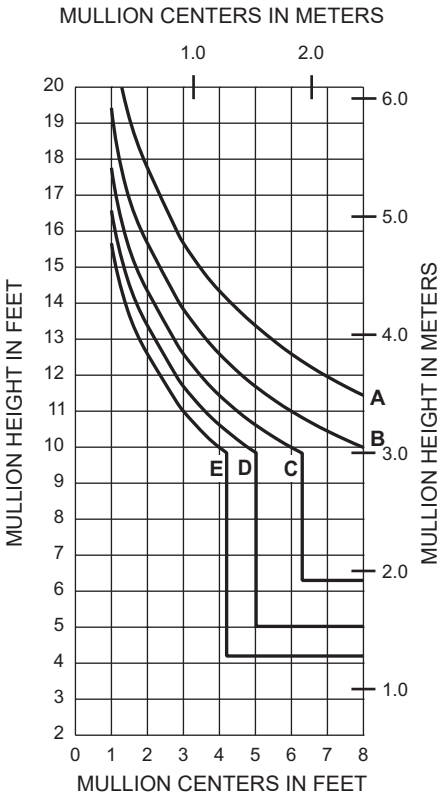
Combined I = 3.494 (145.43 x 10^4)
Combined S = 1.634 (26.78 x 10^3)

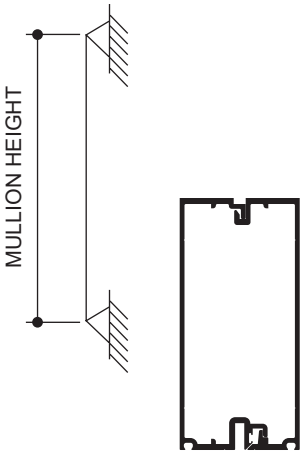
Note:
These curves are for 9" (228.6) on center toggles with 1" (25.4) glass.

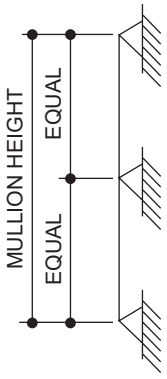
TWIN SPAN



SINGLE SPAN



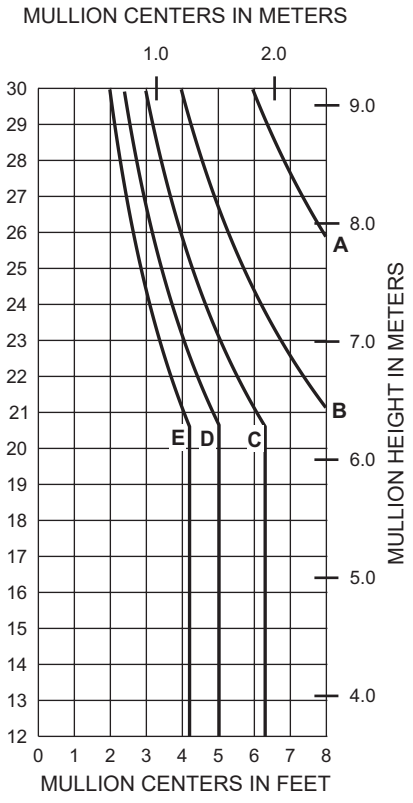




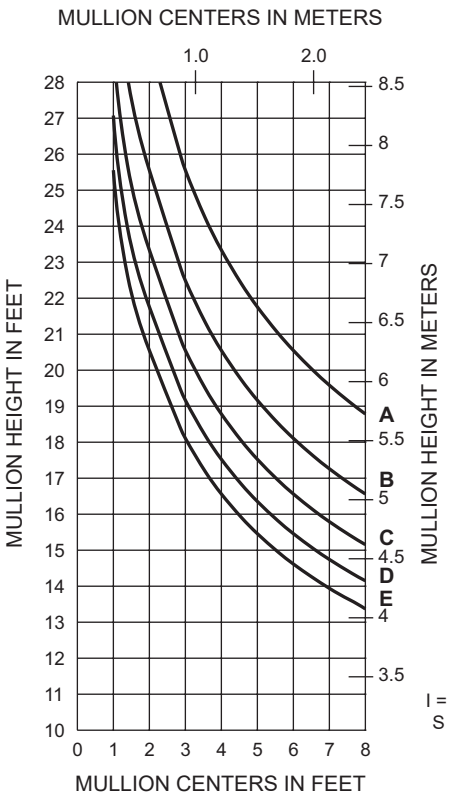
(SSIT) 172003 (SSIT) 172004

Combined I = 7.871 (327.61 x 10^4)
Combined S = 2.648 (43.39 x 10^3)

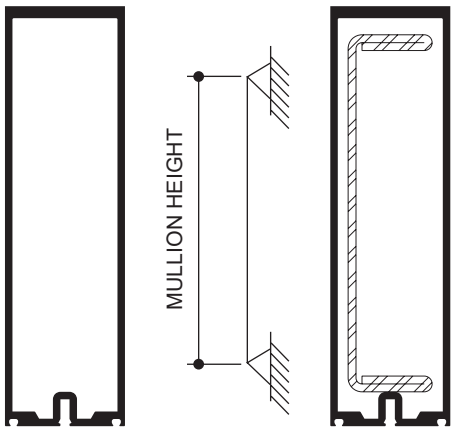
TWIN SPAN



SINGLE SPAN



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



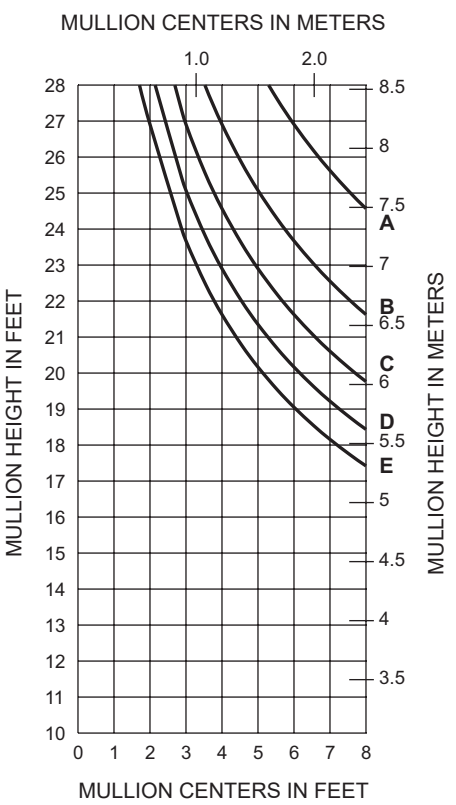
(SB) 172023

I = 37.690 (1568.77 x 10^4)
S = 8.525 (139.70 x 10^3)

(SB) 172023 W/162363

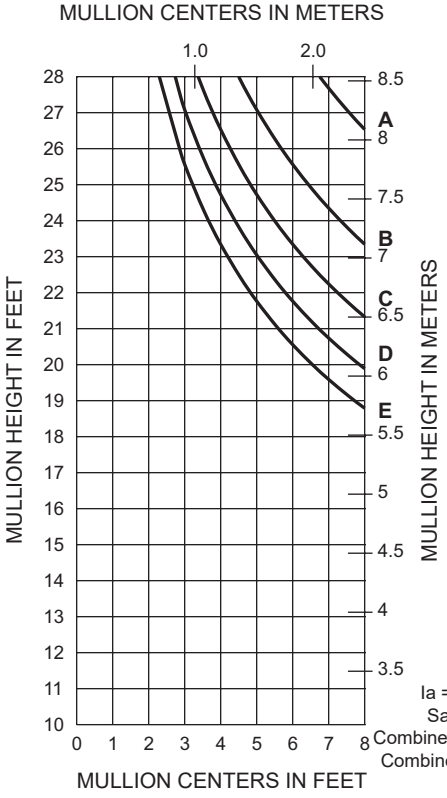
Ia = 37.690 (1568.77 x 10^4)
Sa = 8.525 (139.70 x 10^3)
Is = 17.600 (732.56 x 10^4)
Ss = 4.732 (77.54 x 10^3)

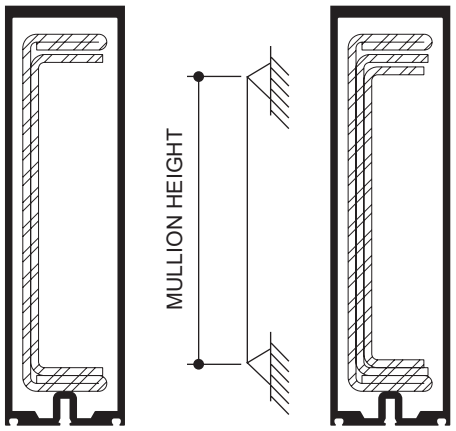
SINGLE SPAN



Note:
These curves are for 6" (152.4) on center toggles with 1-1/8" (28.6) glass.

SINGLE SPAN





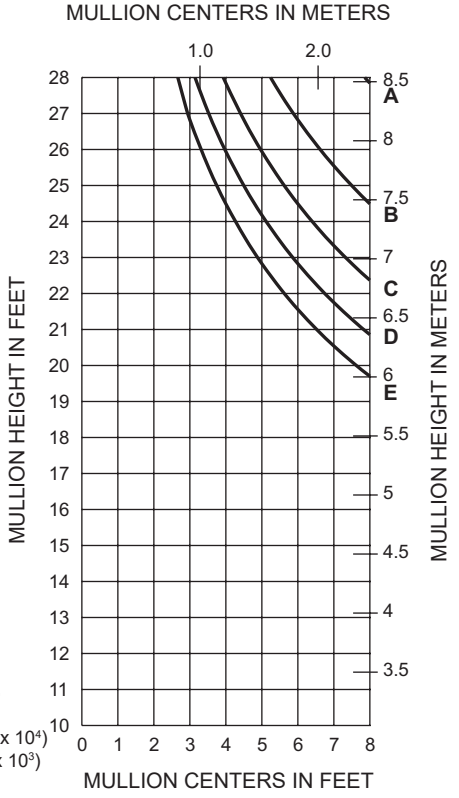
(SB) 172023 W/162363/364

Ia = 37.690 (1568.77 x 10^4)
Sa = 8.525 (139.70 x 10^3)
Combined Is = 26.033 (1083.57 x 10^4)
Combined Ss = 7.000 (114.71 x 10^3)

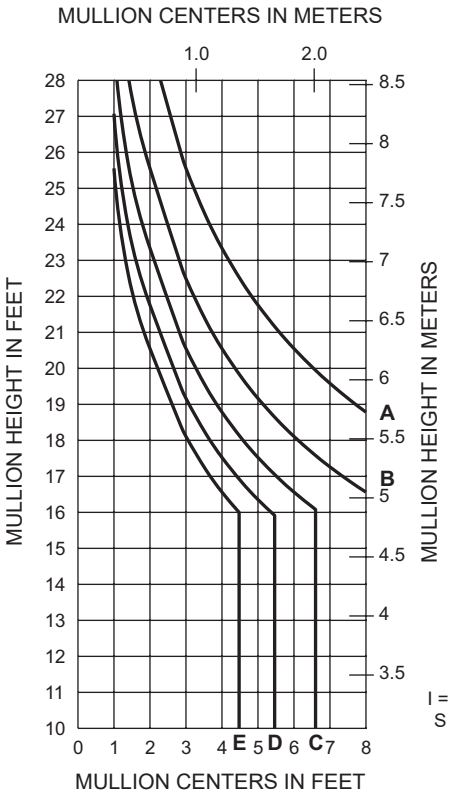
(SB) 172023 W/162363/364/365

Ia = 37.690 (1568.77 x 10^4)
Sa = 8.525 (139.70 x 10^3)
Combined Is = 32.432 (1349.92 x 10^4)
Combined Ss = 8.721 (142.91 x 10^3)

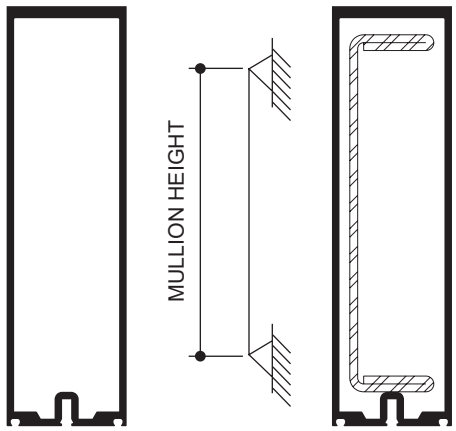
SINGLE SPAN



SINGLE SPAN



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



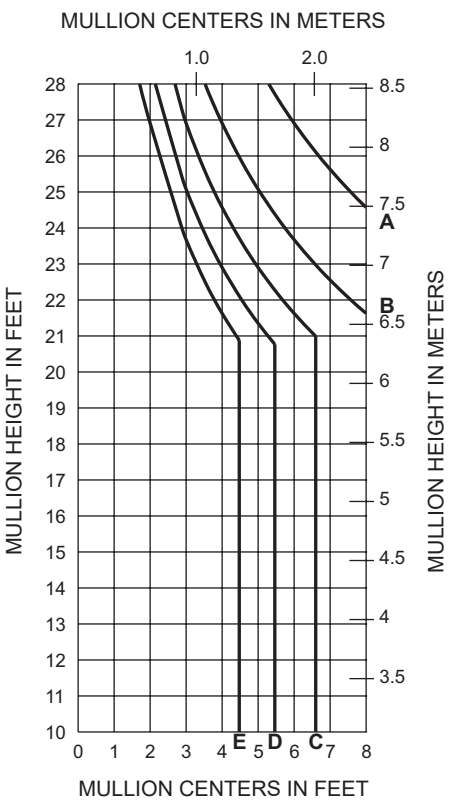
(SB) 172023

I = 37.690 (1568.77 x 10^4)
S = 8.525 (139.70 x 10^3)

(SB) 172023 W/162363

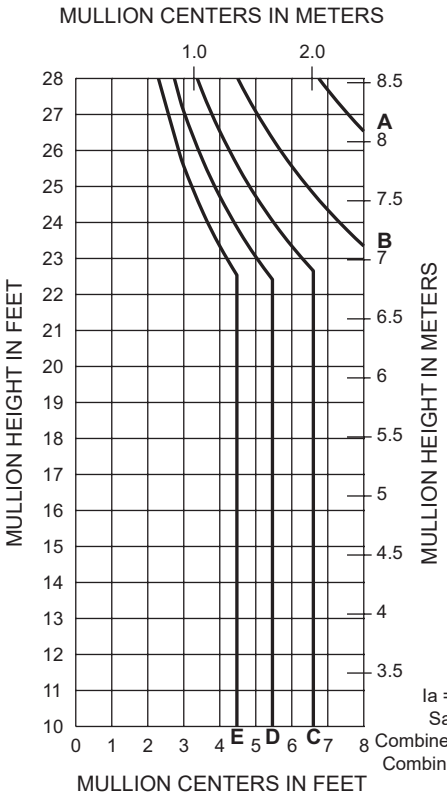
Ia = 37.690 (1568.77 x 10^4)
Sa = 8.525 (139.70 x 10^3)
Is = 17.600 (732.56 x 10^4)
Ss = 4.732 (77.54 x 10^3)

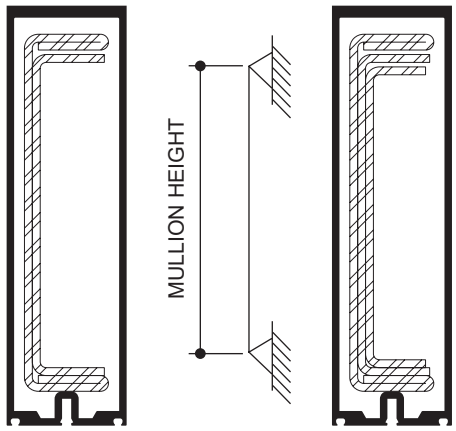
SINGLE SPAN



Note:
These curves are for 9" (228.6) on center toggles with 1-1/8" (28.6) glass.

SINGLE SPAN





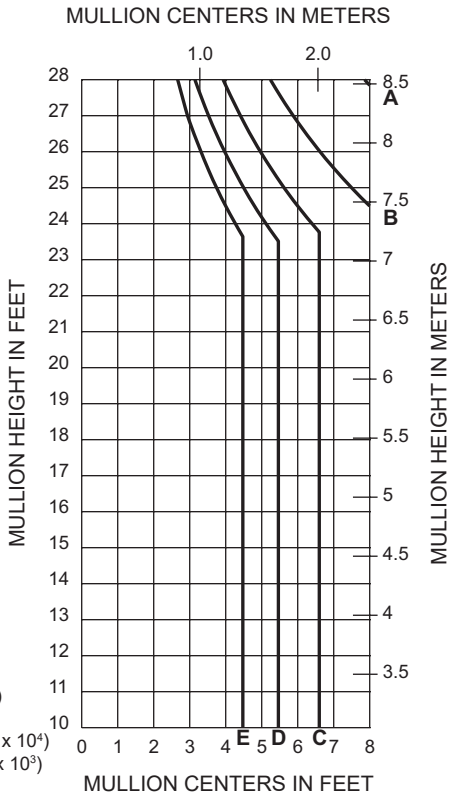
(SB) 172023 W/162363/364

Ia = 37.690 (1568.77 x 10^4)
Sa = 8.525 (139.70 x 10^3)
Combined Is = 26.033 (1083.57 x 10^4)
Combined Ss = 7.000 (114.71 x 10^3)

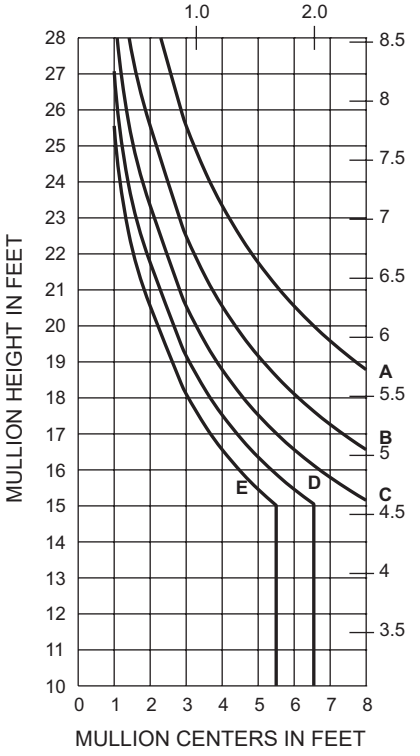
(SB) 172023 W/162363/364/365

Ia = 37.690 (1568.77 x 10^4)
Sa = 8.525 (139.70 x 10^3)
Combined Is = 32.432 (1349.92 x 10^4)
Combined Ss = 8.721 (142.91 x 10^3)

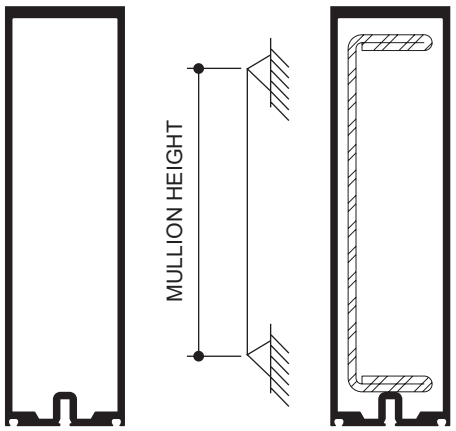
SINGLE SPAN



SINGLE SPAN



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



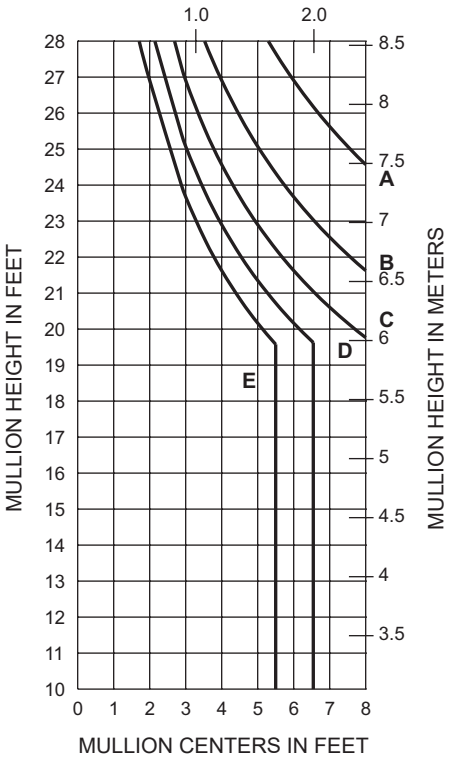
(SBI) 172023

I = 37.690 (1568.77 x 10^4)
S = 8.525 (139.70 x 10^3)

(SBI) 172023 W/162363

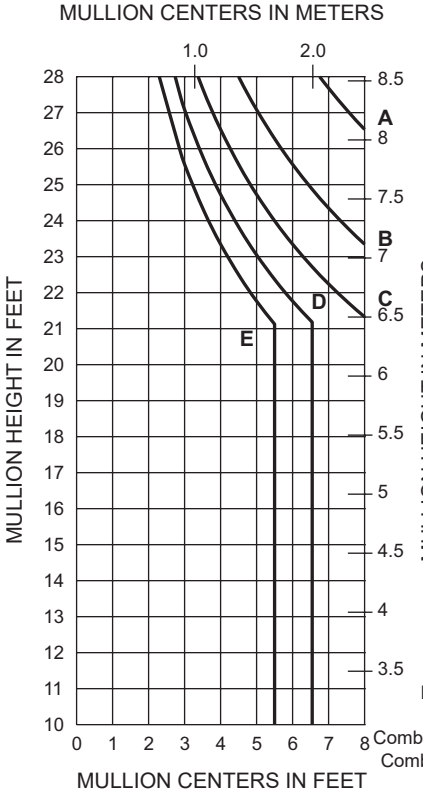
Ia = 37.690 (1568.77 x 10^4)
Sa = 8.525 (139.70 x 10^3)
Is = 17.600 (732.56 x 10^4)
Ss = 4.732 (77.54 x 10^3)

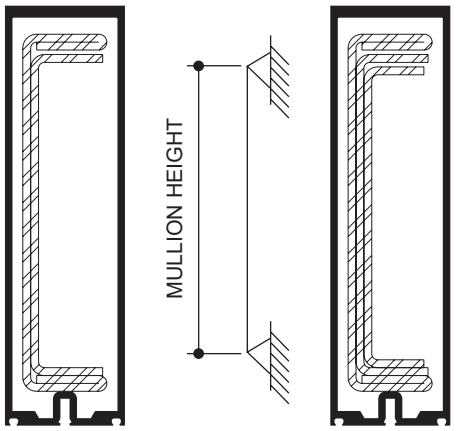
SINGLE SPAN



Note:
These curves are for 9" (228.6) on center toggles with 1" (25.4) glass.

SINGLE SPAN





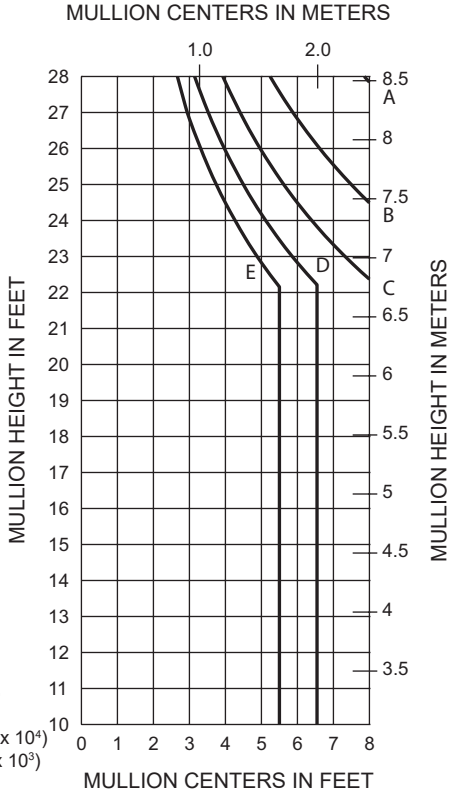
(SBI) 172023 W/162363/364

Ia = 37.690 (1568.77 x 10^4)
Sa = 8.525 (139.70 x 10^3)
Combined Is = 26.033 (1083.57 x 10^4)
Combined Ss = 7.000 (114.71 x 10^3)

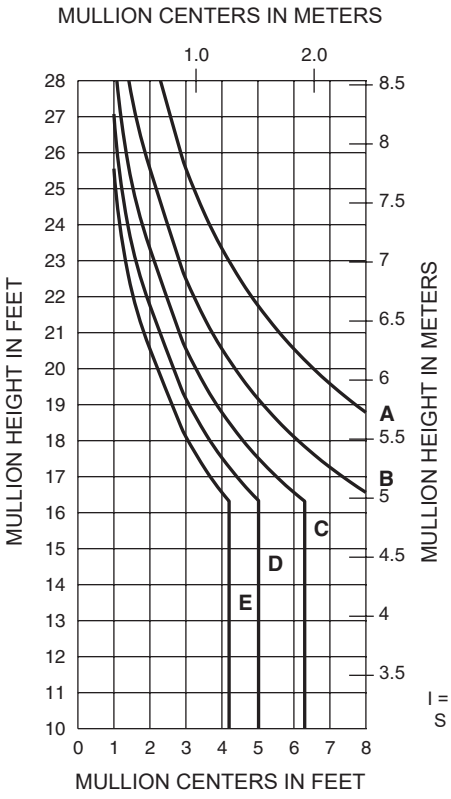
(SBI) 172023 W/162363/364/365

Ia = 37.690 (1568.77 x 10^4)
Sa = 8.525 (139.70 x 10^3)
Combined Is = 32.432 (1349.92 x 10^4)
Combined Ss = 8.721 (142.91 x 10^3)

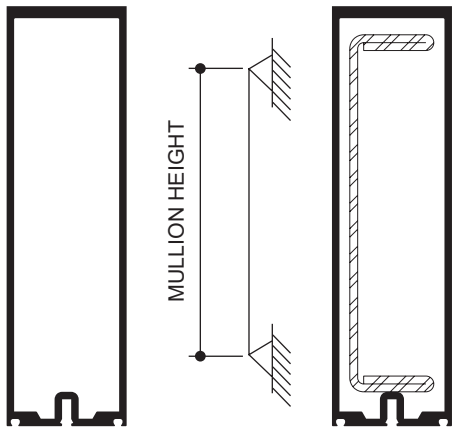
SINGLE SPAN



SINGLE SPAN



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



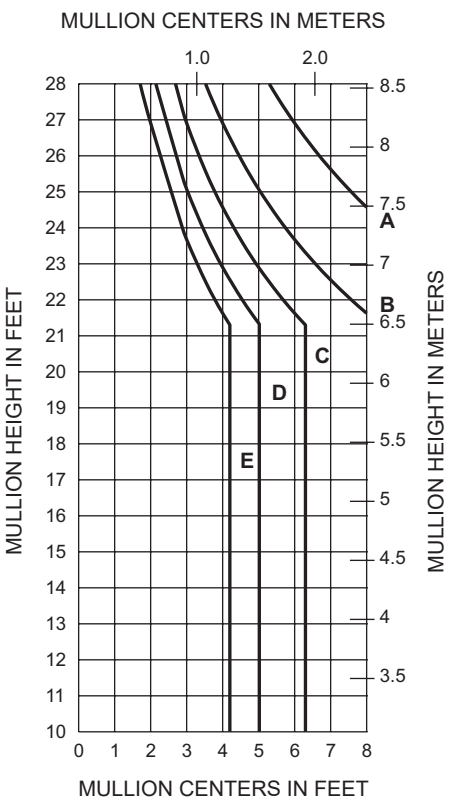
(SBIT) 172023

I = 37.690 (1568.77 x 10^4)
S = 8.525 (139.70 x 10^3)

(SBIT) 172023 W/162363

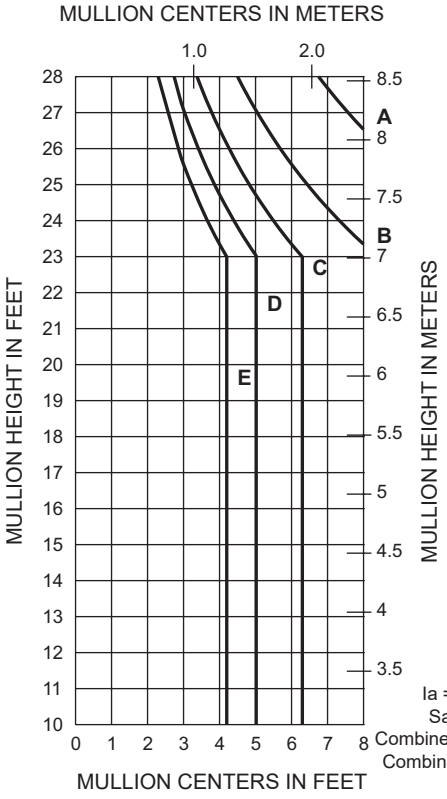
Ia = 37.690 (1568.77 x 10^4)
Sa = 8.525 (139.70 x 10^3)
Is = 17.600 (732.56 x 10^4)
Ss = 4.732 (77.54 x 10^3)

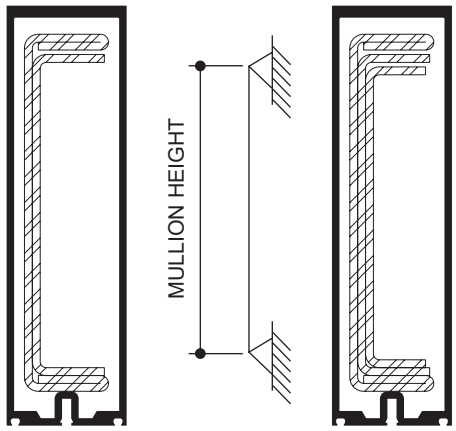
SINGLE SPAN



Note:
These curves are for 9" (228.6) on center toggles with 1" (25.4) glass.

SINGLE SPAN





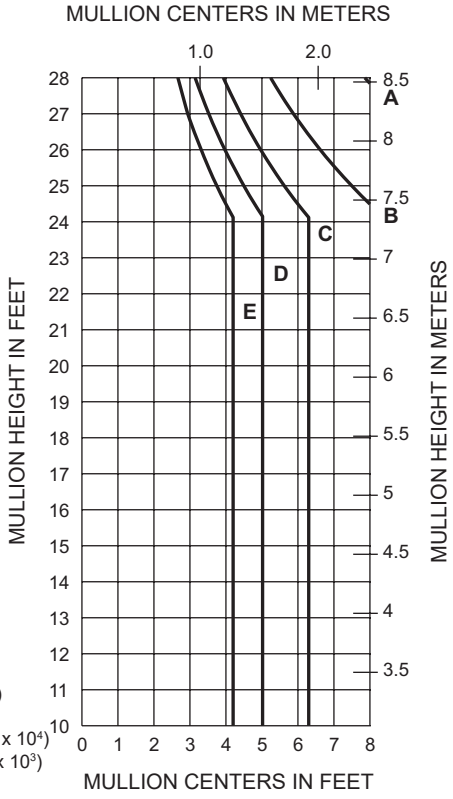
(SBIT) 172023 W/162363/364

Ia = 37.690 (1568.77 x 10^4)
Sa = 8.525 (139.70 x 10^3)
Combined Is = 26.033 (1083.57 x 10^4)
Combined Ss = 7.000 (114.71 x 10^3)

(SBIT) 172023 W/162363/364/365

Ia = 37.690 (1568.77 x 10^4)
Sa = 8.525 (139.70 x 10^3)
Combined Is = 32.432 (1349.92 x 10^4)
Combined Ss = 8.721 (142.91 x 10^3)

SINGLE SPAN

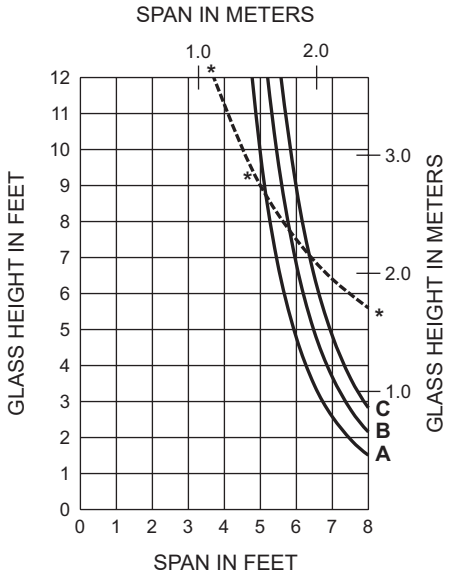


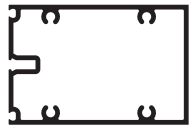
GLASS TYPE AND LOADING:

A = 1" OR 1-1/8" GLASS - 1/4 POINT LOADING
B = 1" OR 1-1/8" GLASS - 1/6 POINT LOADING
C = 1" OR 1-1/8" GLASS - 1/8 POINT LOADING

NOTE:
DASHED LINE REPRESENTS A 45 SQ/FT 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.

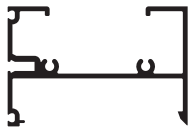
(1" or 1-1/8" INFILL)





172007

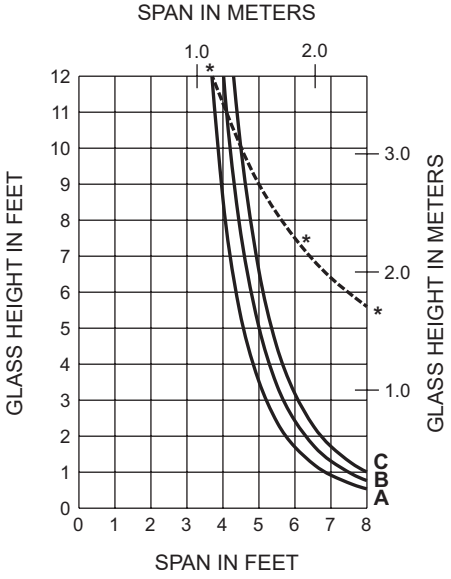
I = 1.601 (66.64 x 10^4)
S = 1.281 (20.99 x 10^3)



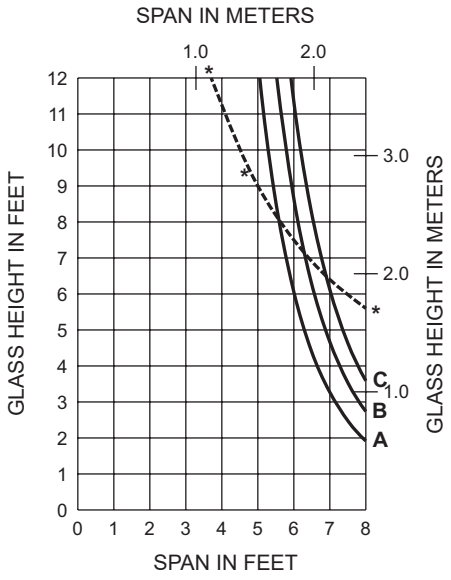
172008

I = 0.570 (23.73 x 10^4)
S = 0.428 (7.02 x 10^3)

(1" or 1-1/8" INFILL)



(1" or 1-1/8" INFILL)



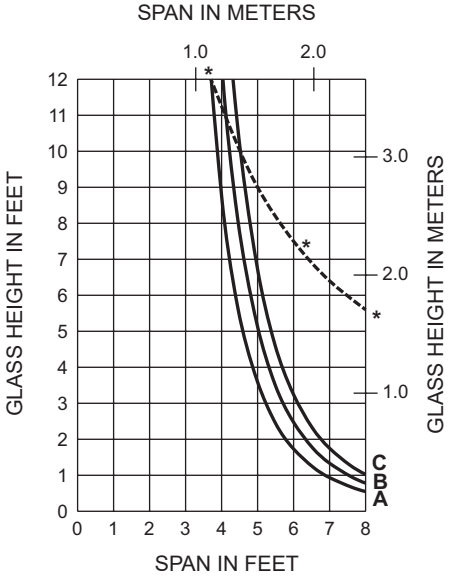
172009

I = 2.033 (84.62 x 10^4)
S = 1.627 (26.66 x 10^3)

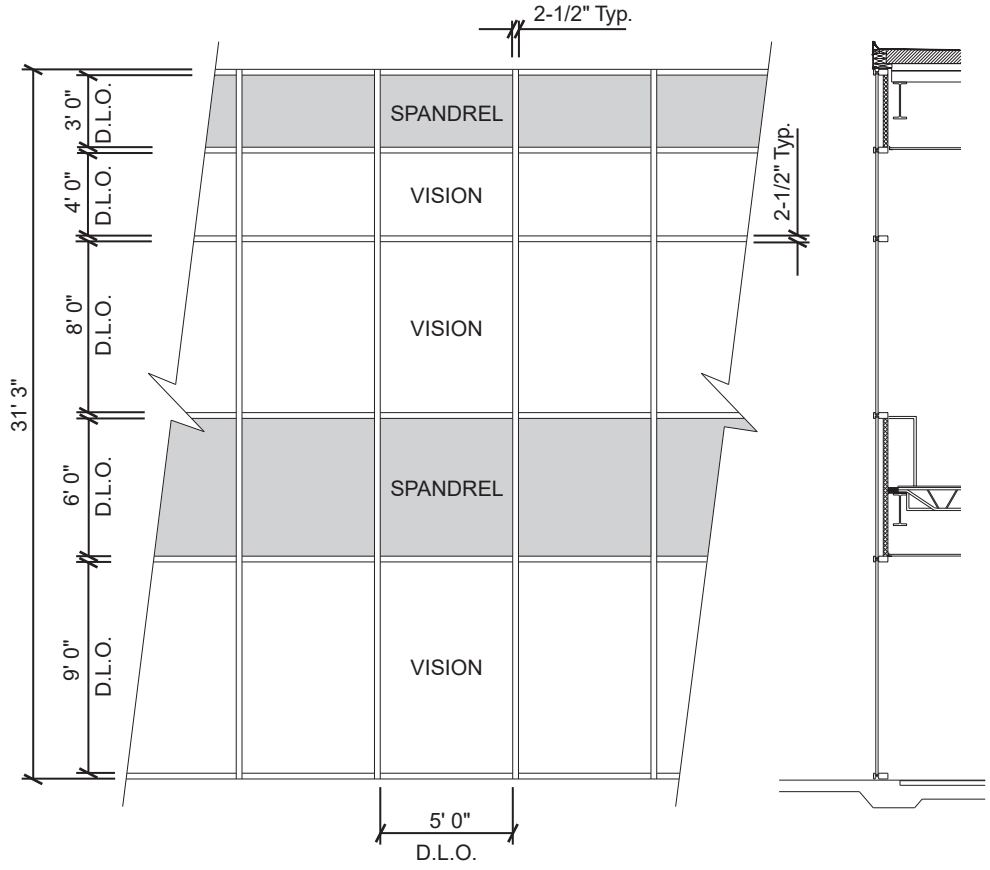
172010

I = 0.581 (24.18 x 10^4)
S = 0.446 (7.31 x 10^3)

(1" or 1-1/8" INFILL)



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



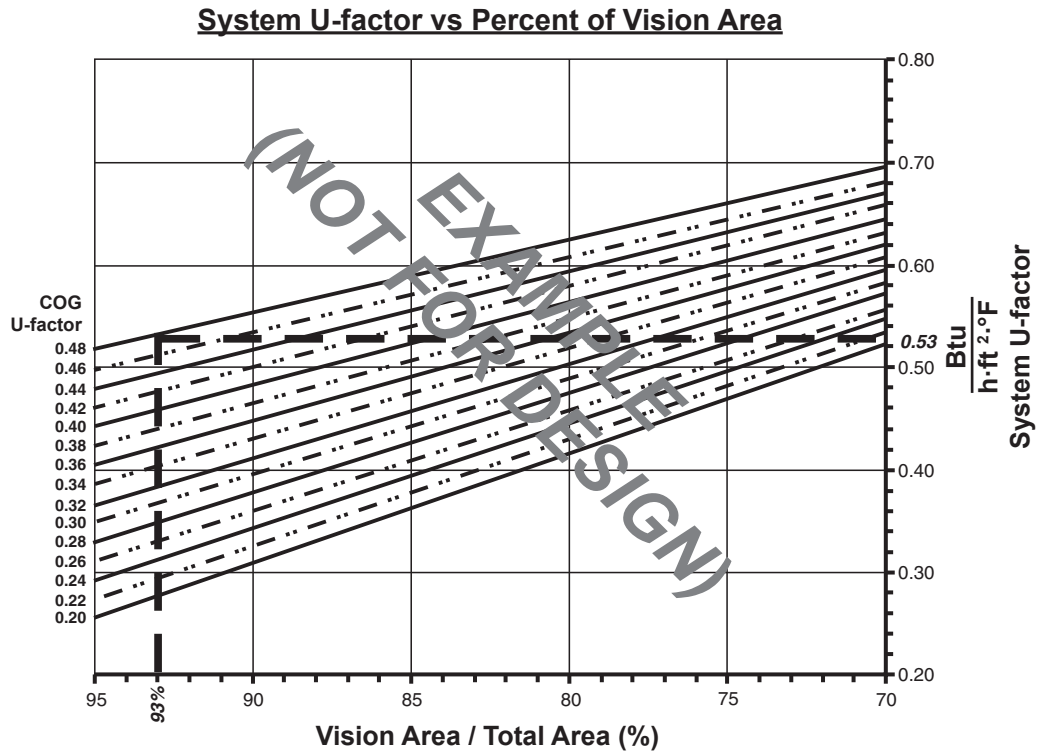
Vision Area

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

Spandrel Area

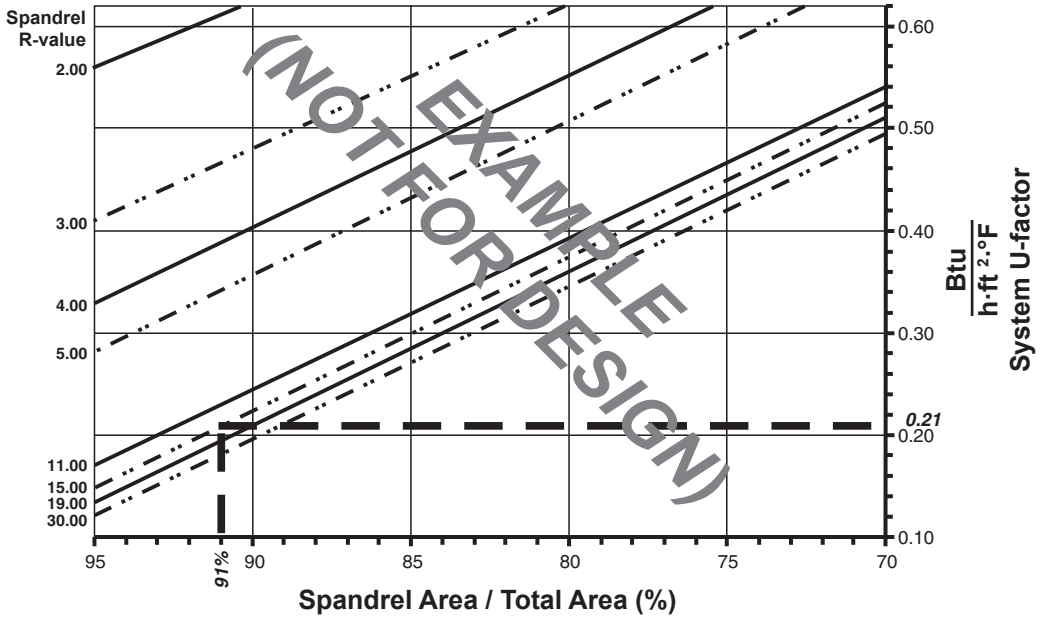
Example Spandrel R-value	= 15 (ft^2 · h · °F)/Btu
Spandrel Area	= 5(6 + 3) = 45.0 ft^2
Total Area (Spandrel)	= 5' 2-1/2" (6' 2-1/2" + 3' 3-3/4") = 49.6 ft^2
Percent of Spandrel	= (Spandrel Area ÷ Total Area)100 = (49.0 ÷ 49.6)100 = 91%

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)

Spandrel Area Chart

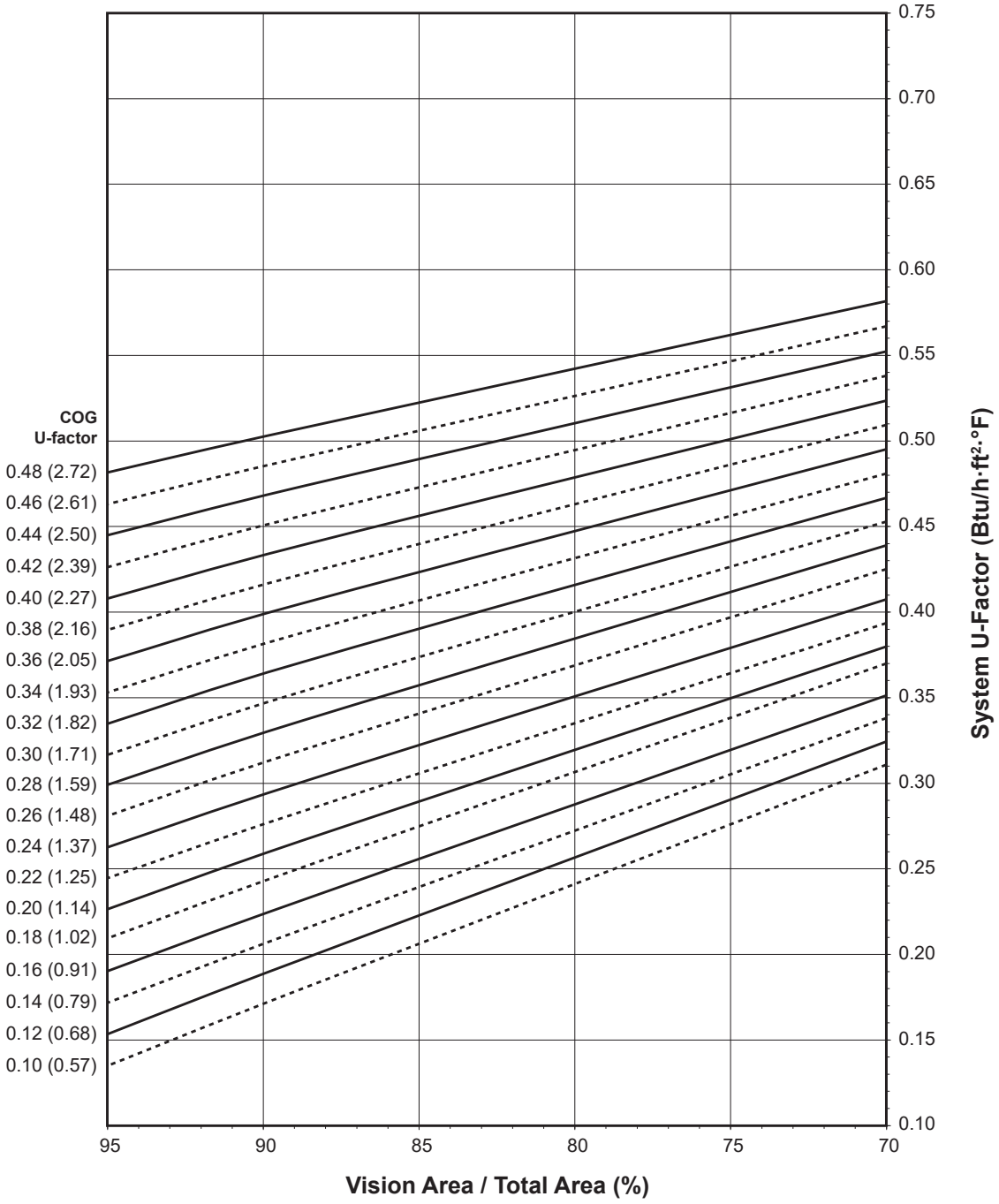


Based on a single curtain wall bay of 91% spandrel and center of spandrel R-value of 15, system U-factor is equal to 0.21 Btu/(h·ft ²·°F)

Screw Spline (SS)
1-1/8" Double Glazed - Warm-Edge Glazing Spacer

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

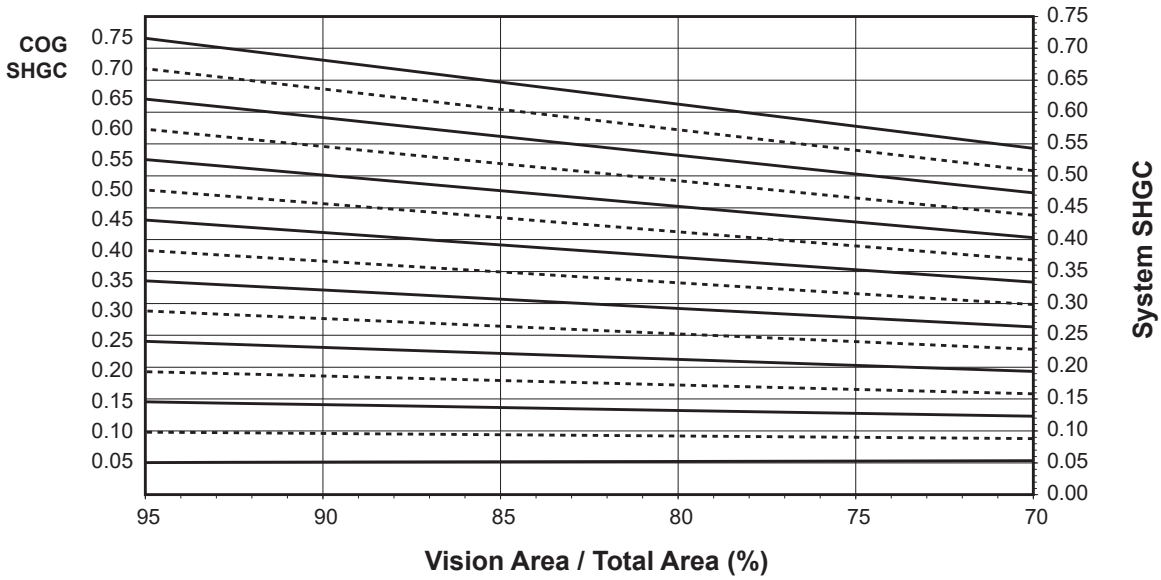
System U-Factor for Vision Glass



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

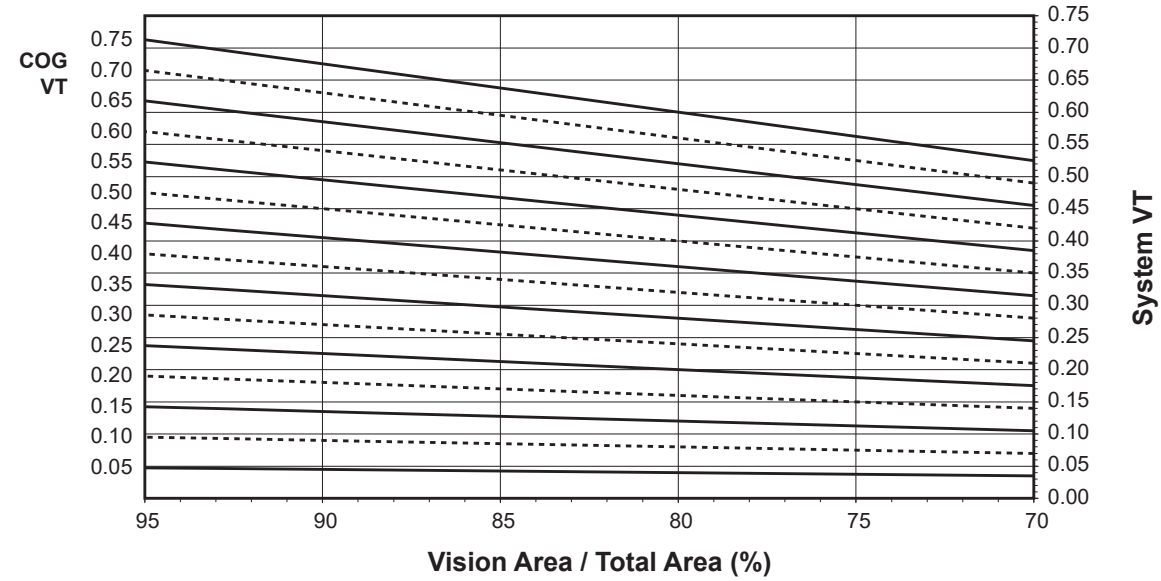
Screw Spline (SS)
1-1/8" Double Glazed - Warm-Edge Glazing Spacer

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



Charts are generated per AAMA 507.

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	0.46
0.40	0.44
0.38	0.42
0.36	0.41
0.34	0.39
0.32	0.37
0.30	0.35
0.28	0.34
0.26	0.32
0.24	0.30
0.22	0.28
0.20	0.27
0.18	0.25
0.16	0.23
0.14	0.21
0.12	0.20
0.10	0.18

Screw Spline (SS)
1-1/8" 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	0.67
0.70	0.63
0.65	0.58
0.60	0.54
0.55	0.49
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

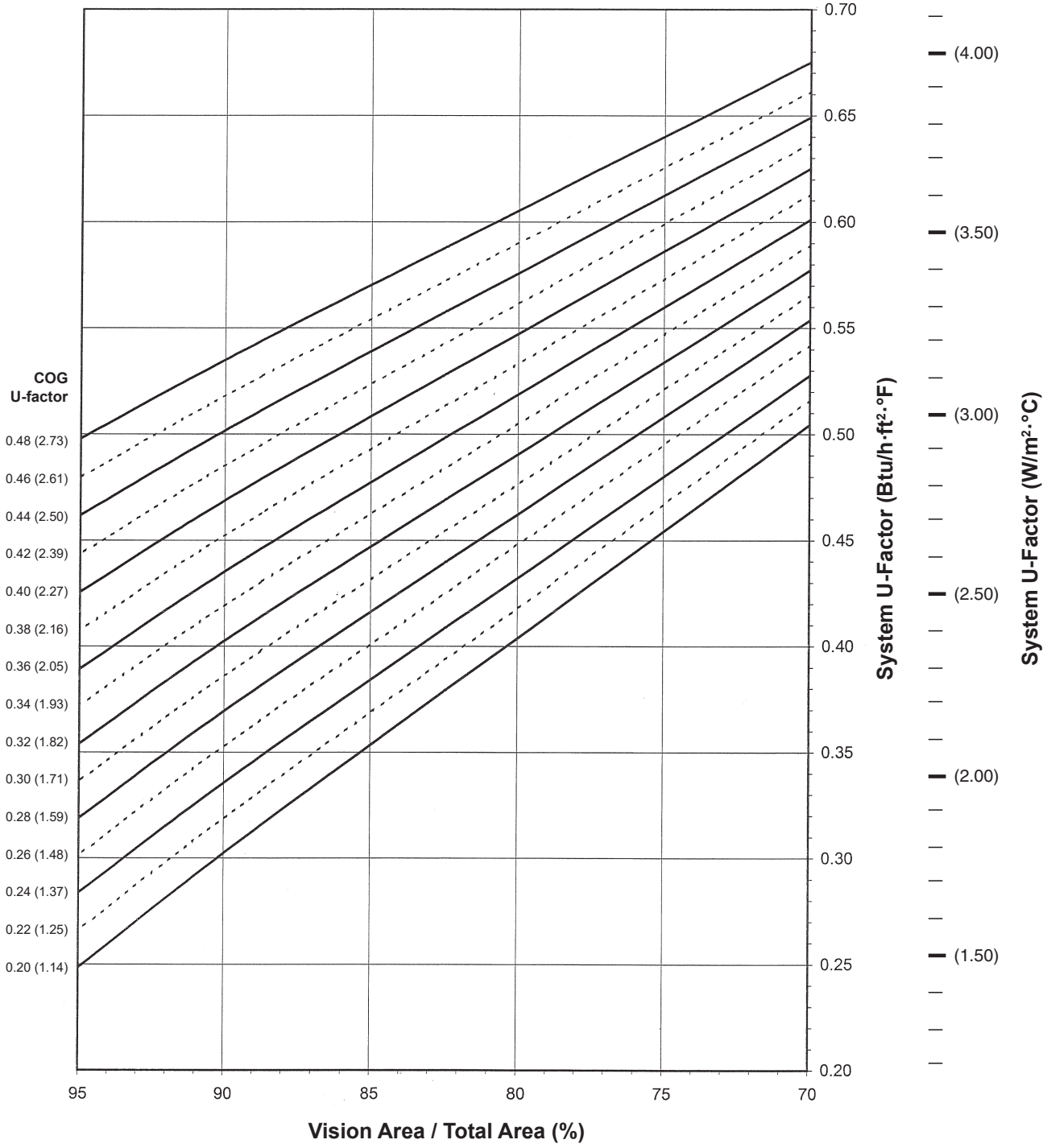
Visible Transmittance [2]

Glass VT [3]	Overall VT [4]
0.75	0.67
0.70	0.62
0.65	0.58
0.60	0.53
0.55	0.49
0.50	0.44
0.45	0.40
0.40	0.35
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

Screw Spline (SS)
1-1/8" Double Glazed - Aluminum Glazing Spacer

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

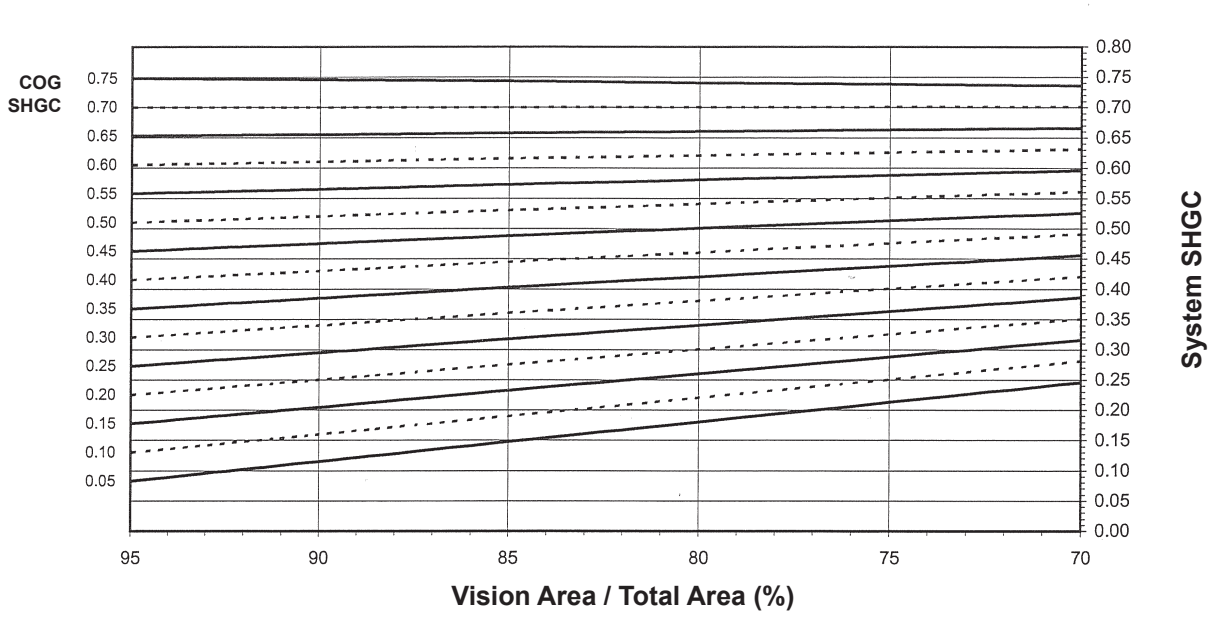
System U-Factor for Vision Glass



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

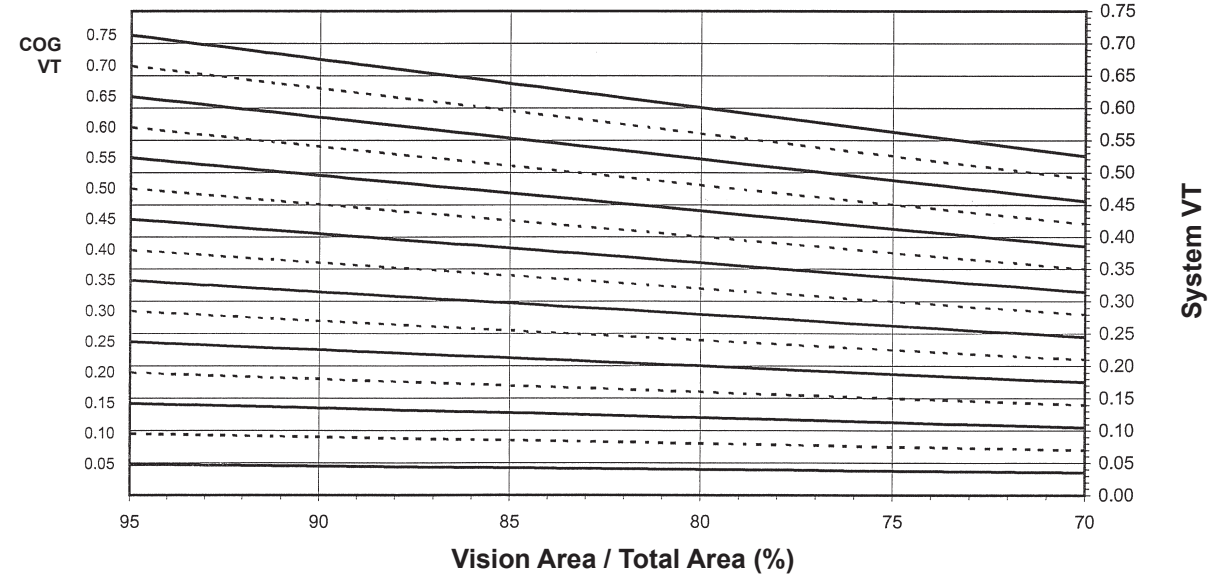
Screw Spline (SS)
1-1/8" Double Glazed - Aluminum Glazing Spacer

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



Charts are generated per AAMA 507.

System Visible Transmittance (VT) vs Percent of Vision Area



Charts are generated per AAMA 507.

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

Glass U-Factor [3]	Overall U-Factor [4]
0.48	0.54
0.46	0.53
0.44	0.51
0.42	0.50
0.40	0.48
0.38	0.46
0.36	0.45
0.34	0.43
0.32	0.41
0.30	0.40
0.28	0.38
0.26	0.37
0.24	0.35
0.22	0.33
0.20	0.32

Screw Spline (SS)
1-1/8" Double Glazed
Aluminum Glazing Spacer

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

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

SHGC Matrix [2]

Glass SHGC [3]	Overall SHGC [4]
0.75	0.74
0.70	0.70
0.65	0.66
0.60	0.61
0.55	0.57
0.50	0.52
0.45	0.48
0.40	0.43
0.35	0.39
0.30	0.35
0.25	0.30
0.20	0.26
0.15	0.21
0.10	0.17
0.05	0.12

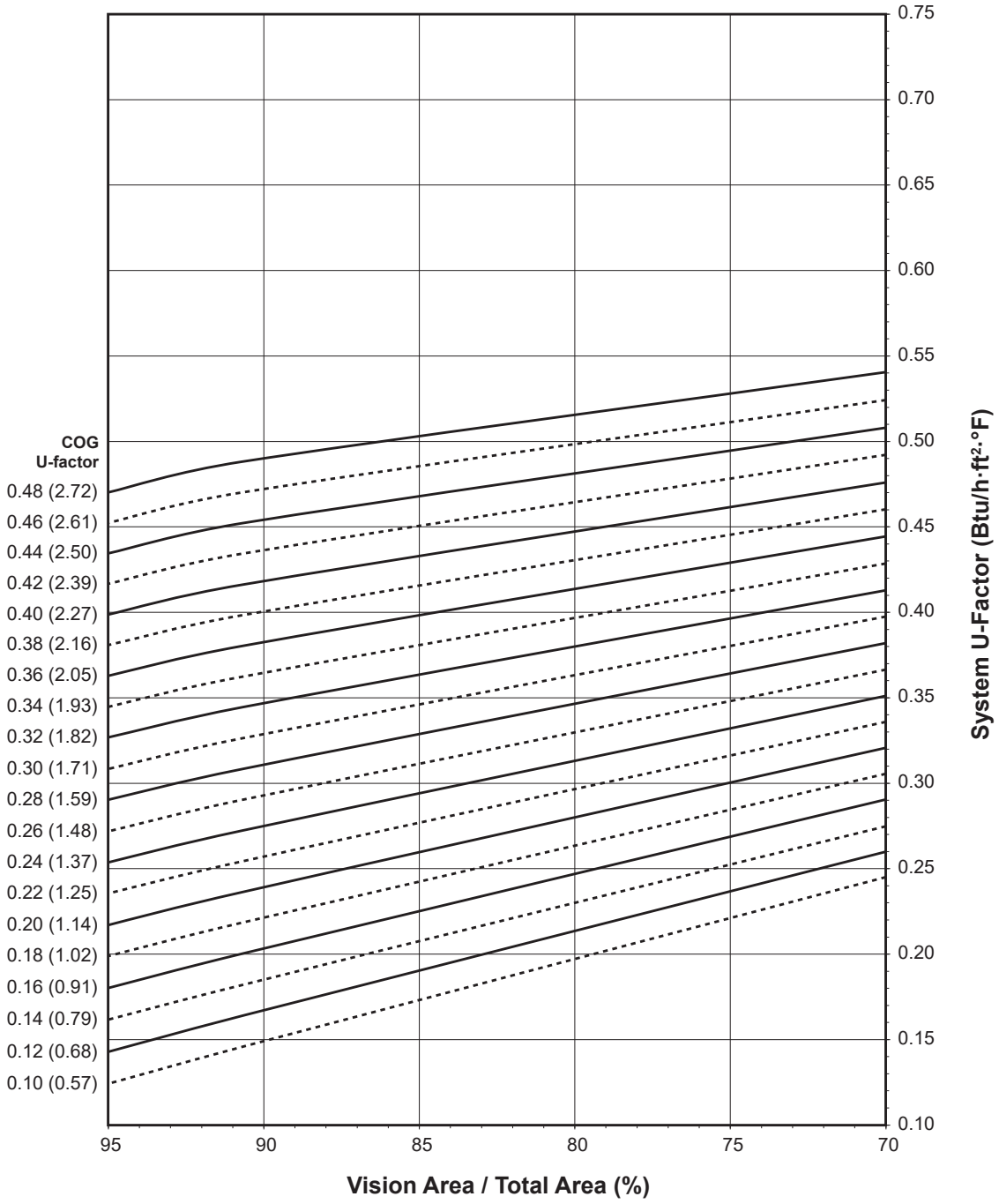
Visible Transmittance [2]

Glass VT [3]	Overall VT [4]
0.75	0.67
0.70	0.62
0.65	0.58
0.60	0.53
0.55	0.49
0.50	0.44
0.45	0.40
0.40	0.35
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

Screw Spline Interface (SSI) and Screw Spline Interface Tape (SSIT)
1" Double Glazed - Warm-Edge Glazing Spacer

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

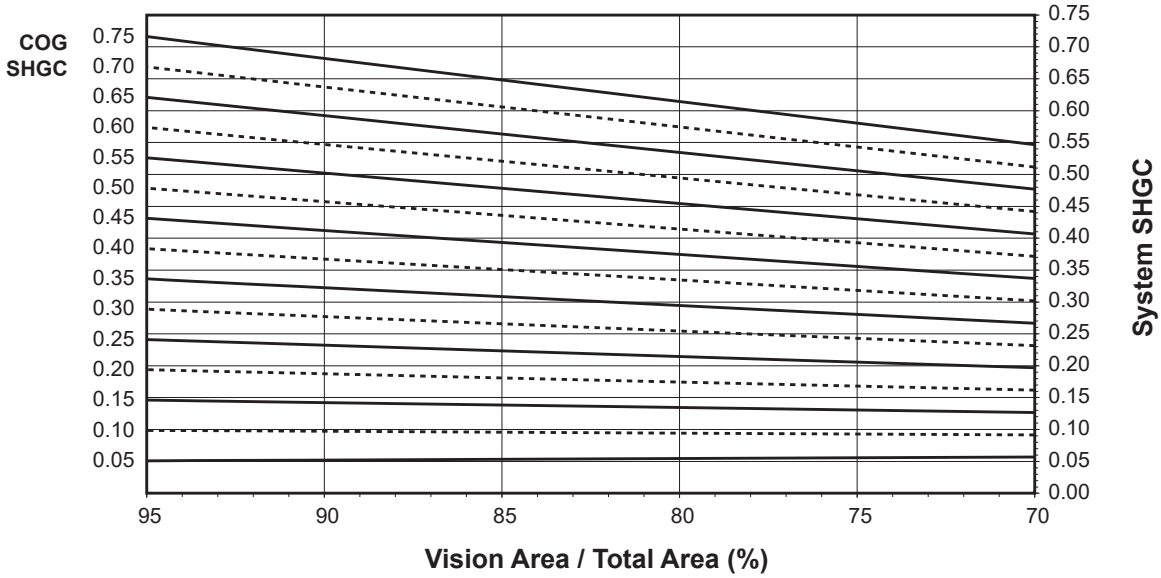
System U-Factor for Vision Glass



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

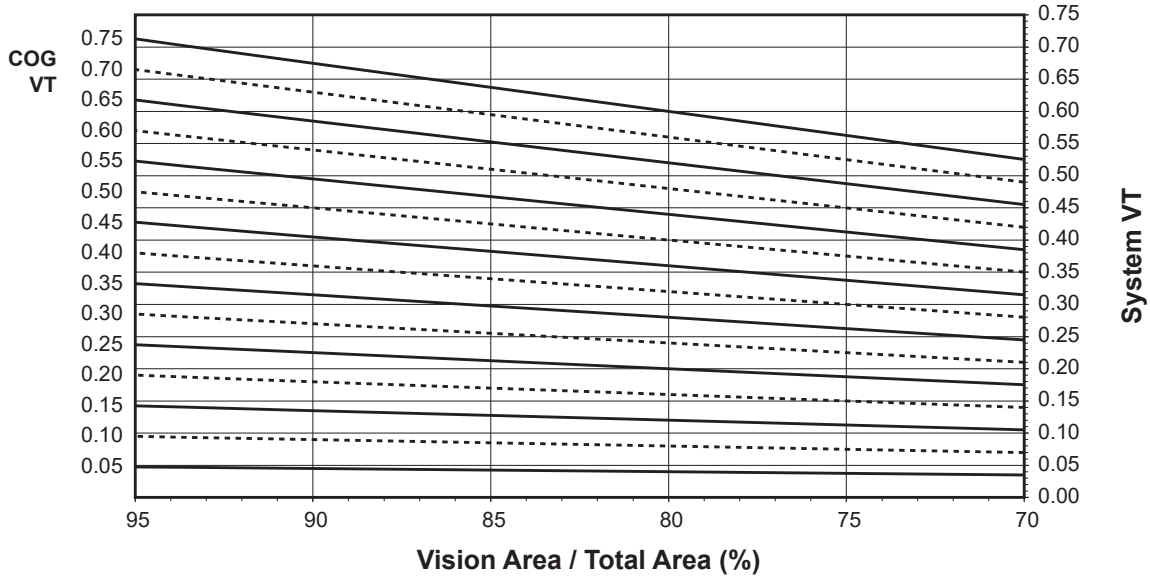
Screw Spline Interface (SSI) and Screw Spline Interface Tape (SSIT)
1" Double Glazed - Warm-Edge Glazing Spacer

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



Charts are generated per AAMA 507.

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	0.45
0.42	0.43
0.40	0.42
0.38	0.40
0.36	0.38
0.34	0.36
0.32	0.34
0.30	0.33
0.28	0.31
0.26	0.29
0.24	0.27
0.22	0.25
0.20	0.24
0.18	0.22
0.16	0.20
0.14	0.18
0.12	0.16
0.10	0.15

Screw Spline Interface (SSI) and Screw Spline Interface Tape (SSIT) 1" Double Glazed Warm-Edge Glazing Spacer

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

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

SHGC Matrix [2]

Glass SHGC [3]	Overall SHGC [4]
0.75	0.69
0.70	0.64
0.65	0.60
0.60	0.55
0.55	0.51
0.50	0.46
0.45	0.41
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

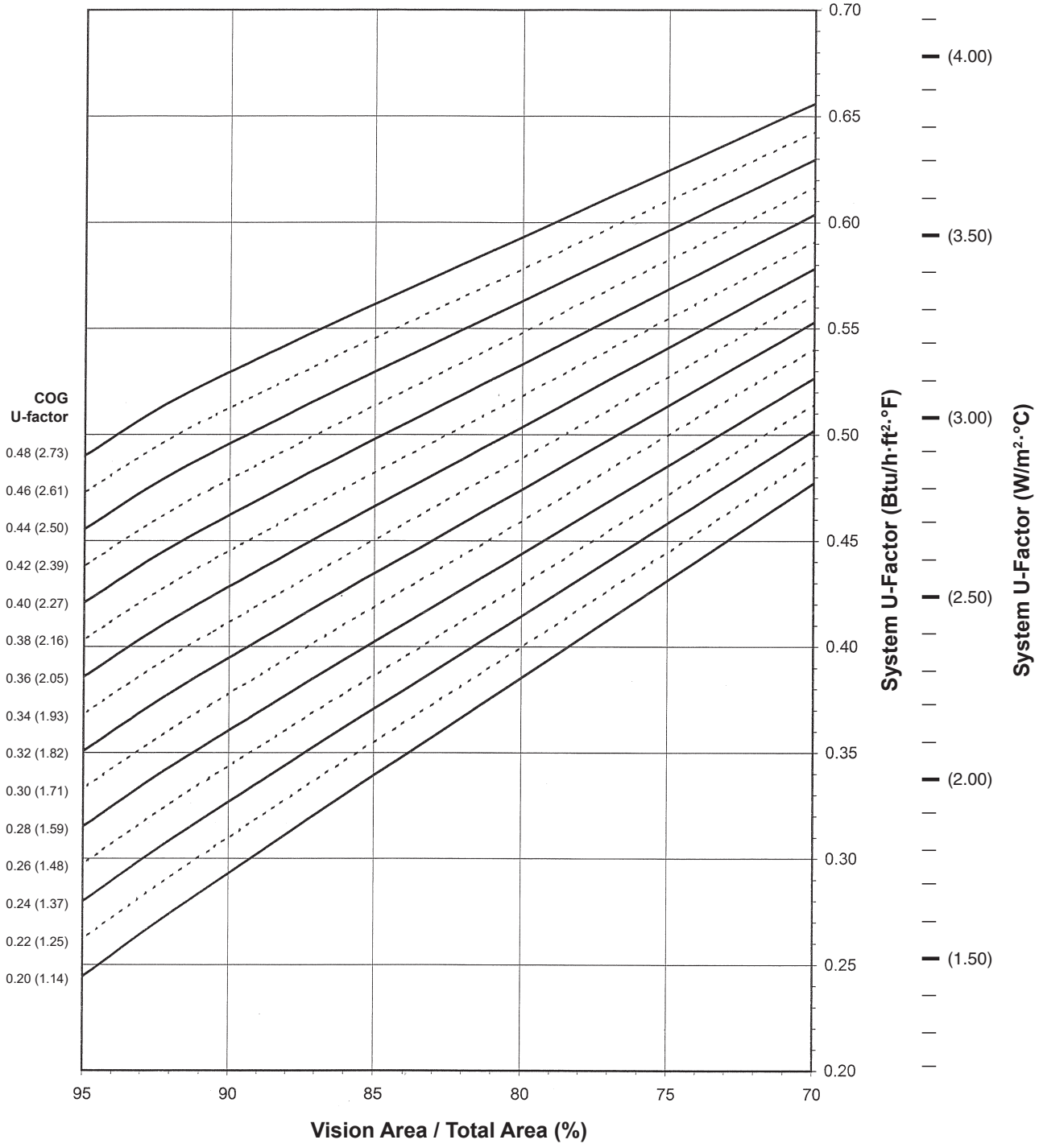
Visible Transmittance [2]

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

Screw Spline Interface (SSI)
1" Double Glazed - Aluminum Glazing Spacer

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

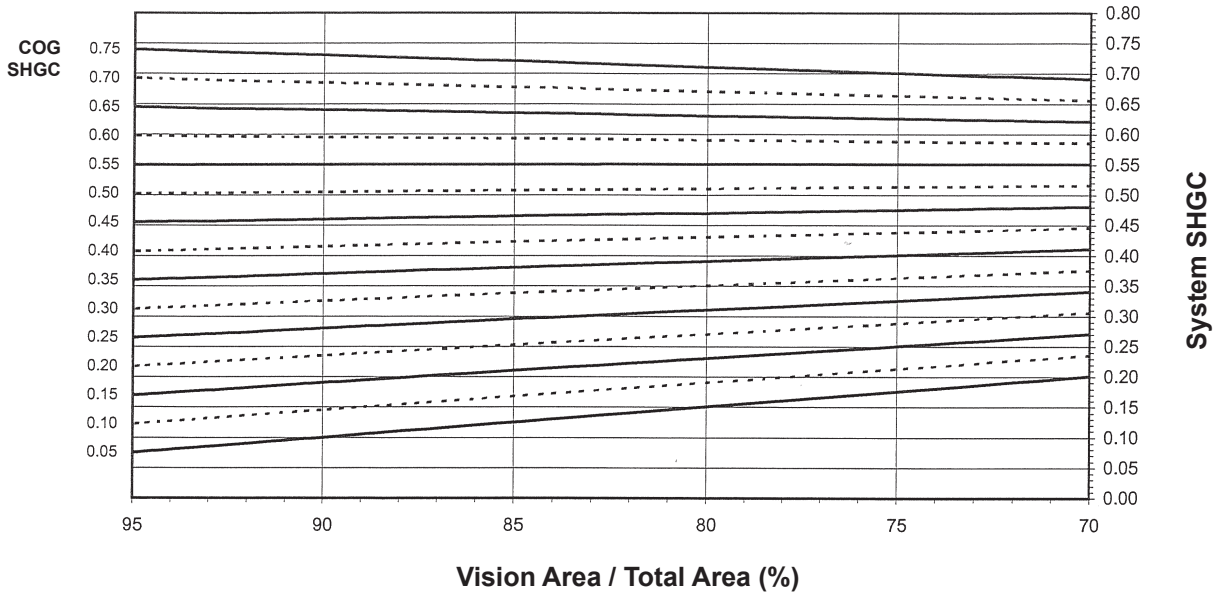
System U-Factor for Vision Glass



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

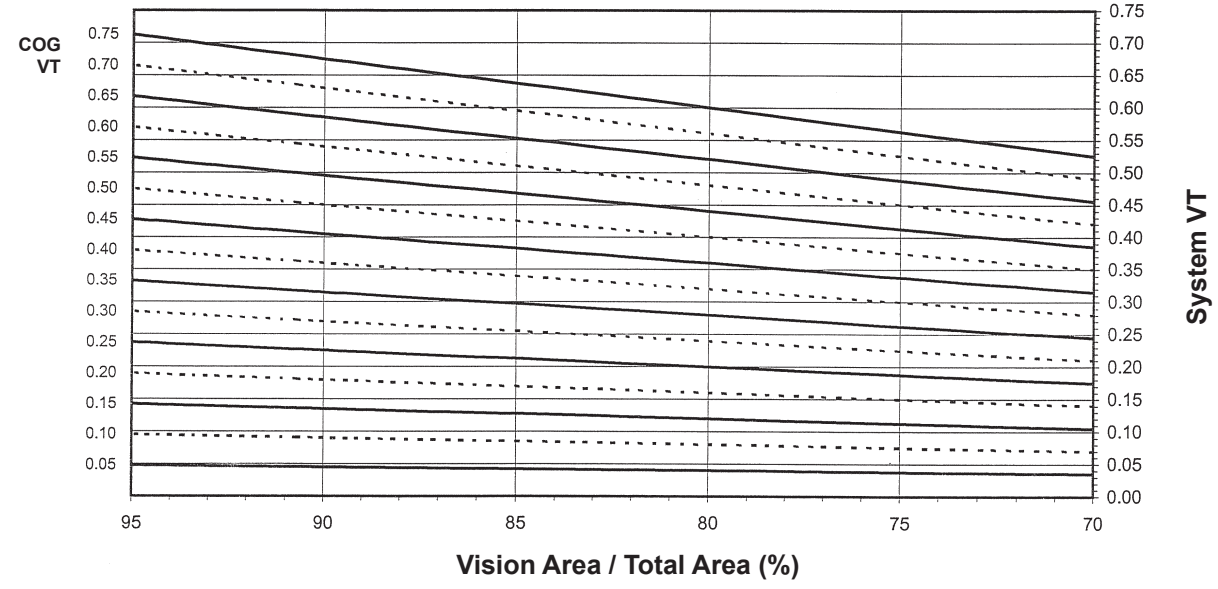
Screw Spline Interface (SSI)
1" Double Glazed - Aluminum Glazing Spacer

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



Charts are generated per AAMA 507.

System Visible Transmittance (VT) vs Percent of Vision Area



Charts are generated per AAMA 507.

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

Glass U-Factor [3]	Overall U-Factor [4]
0.48	0.53
0.46	0.51
0.44	0.49
0.42	0.47
0.40	0.46
0.38	0.44
0.36	0.42
0.34	0.41
0.32	0.39
0.30	0.37
0.28	0.35
0.26	0.34
0.24	0.32
0.22	0.30
0.20	0.29

Screw Spline Interface (SSI)
1" Double Glazed
Aluminum Glazing Spacer

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

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

SHGC Matrix [2]

Glass SHGC [3]	Overall SHGC [4]
0.75	0.73
0.70	0.69
0.65	0.64
0.60	0.60
0.55	0.55
0.50	0.50
0.45	0.46
0.40	0.41
0.35	0.37
0.30	0.32
0.25	0.28
0.20	0.23
0.15	0.19
0.10	0.14
0.05	0.10

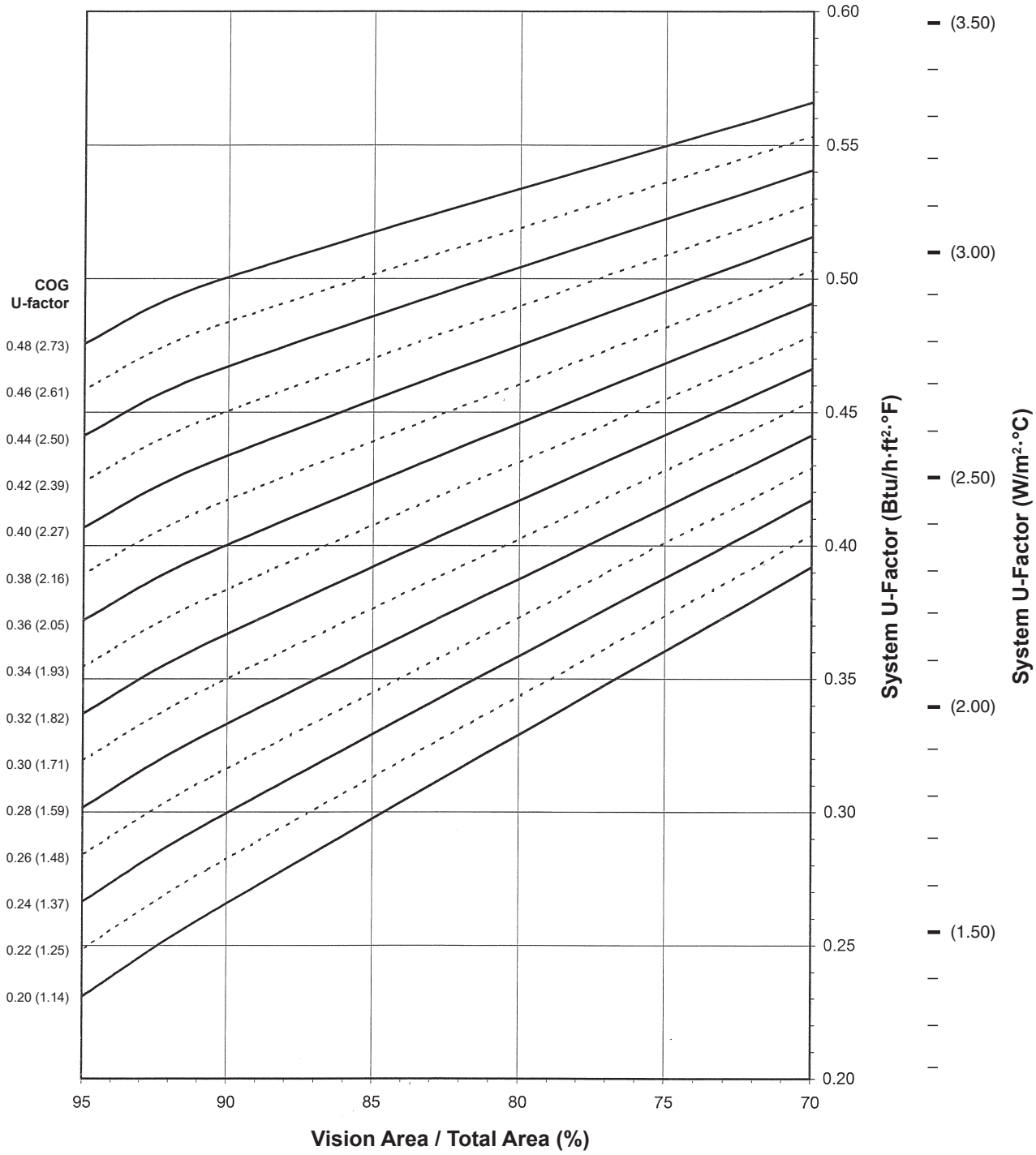
Visible Transmittance [2]

Glass VT [3]	Overall VT [4]
0.75	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

Screw Spline Interface Tape (SSIT)
1" Double Glazed - Aluminum Glazing Spacer

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

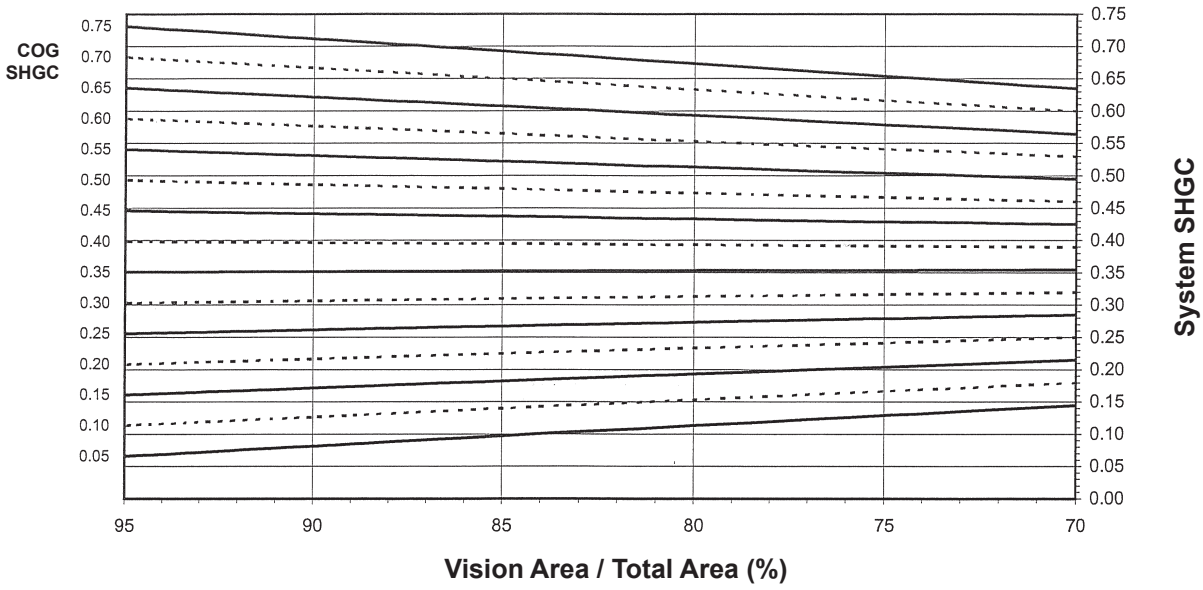
System U-Factor for Vision Glass



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

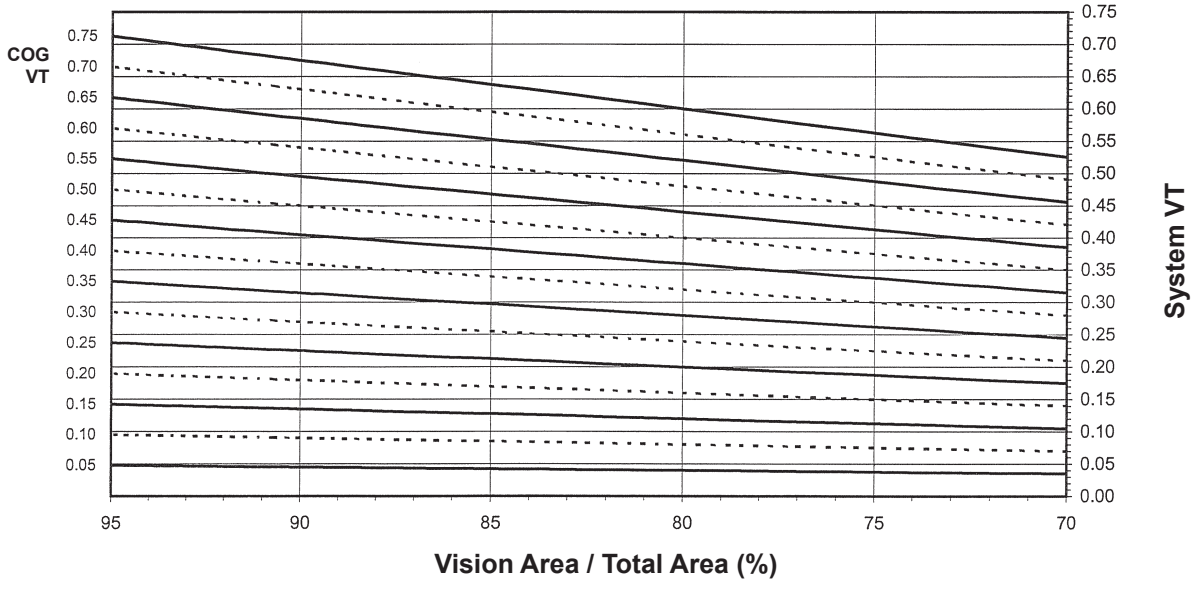
Screw Spline Interface Tape (SSIT)
1" Double Glazed - Aluminum Glazing Spacer

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



Charts are generated per AAMA 507.

System Visible Transmittance (VT) vs Percent of Vision Area



Charts are generated per AAMA 507.

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	0.40
0.34	0.38
0.32	0.36
0.30	0.35
0.28	0.33
0.26	0.31
0.24	0.30
0.22	0.28
0.20	0.26

Screw Spline Interface Tape (SSIT)
1" Double Glazed
Aluminum Glazing Spacer

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

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

SHGC Matrix [2]

Glass SHGC [3]	Overall SHGC [4]
0.75	0.71
0.70	0.67
0.65	0.62
0.60	0.58
0.55	0.53
0.50	0.49
0.45	0.44
0.40	0.40
0.35	0.35
0.30	0.31
0.25	0.26
0.20	0.22
0.15	0.17
0.10	0.12
0.05	0.08

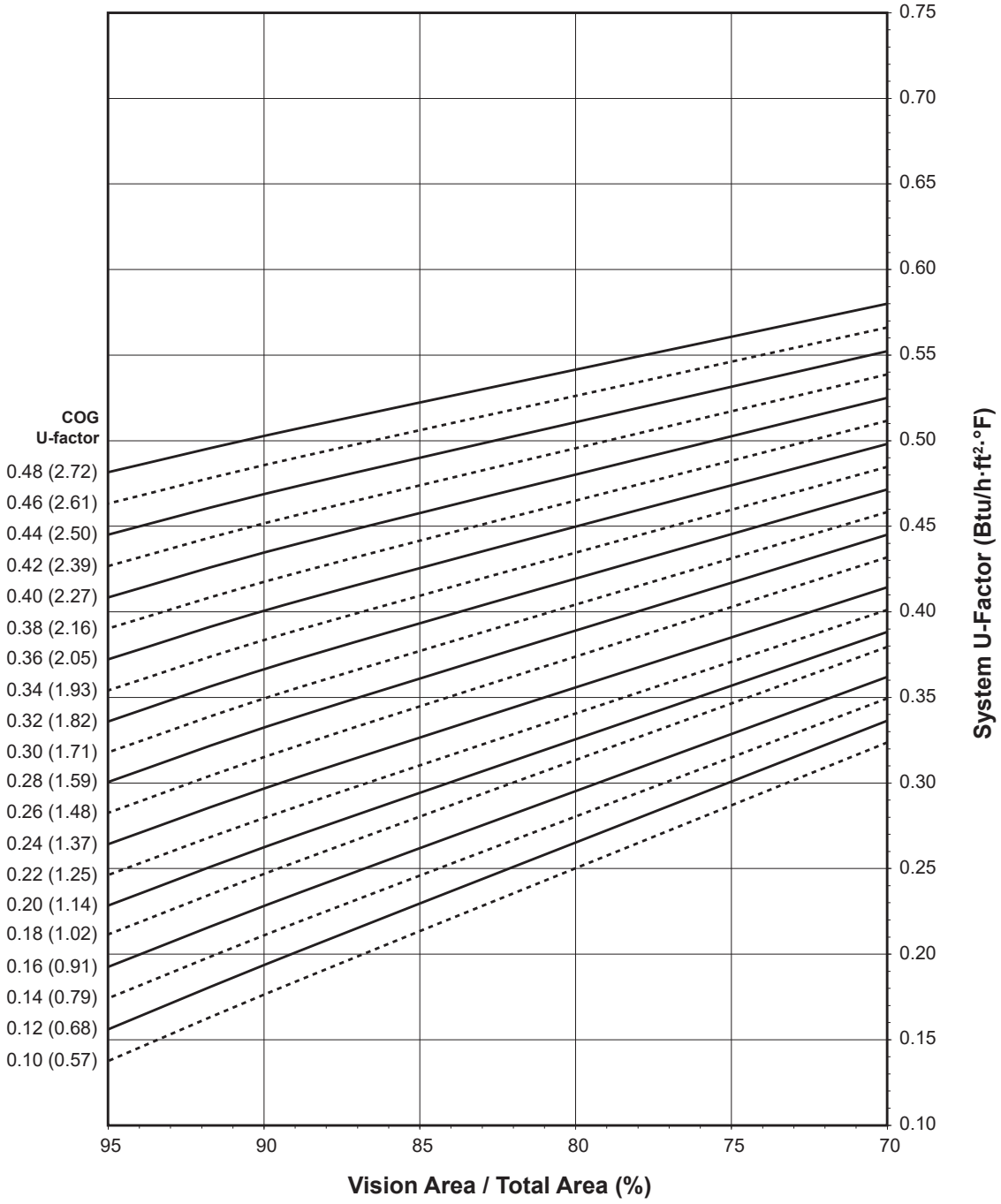
Visible Transmittance [2]

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

Shear Block (SB)
1-1/8" Double Glazed - Warm-Edge Glazing Spacer

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

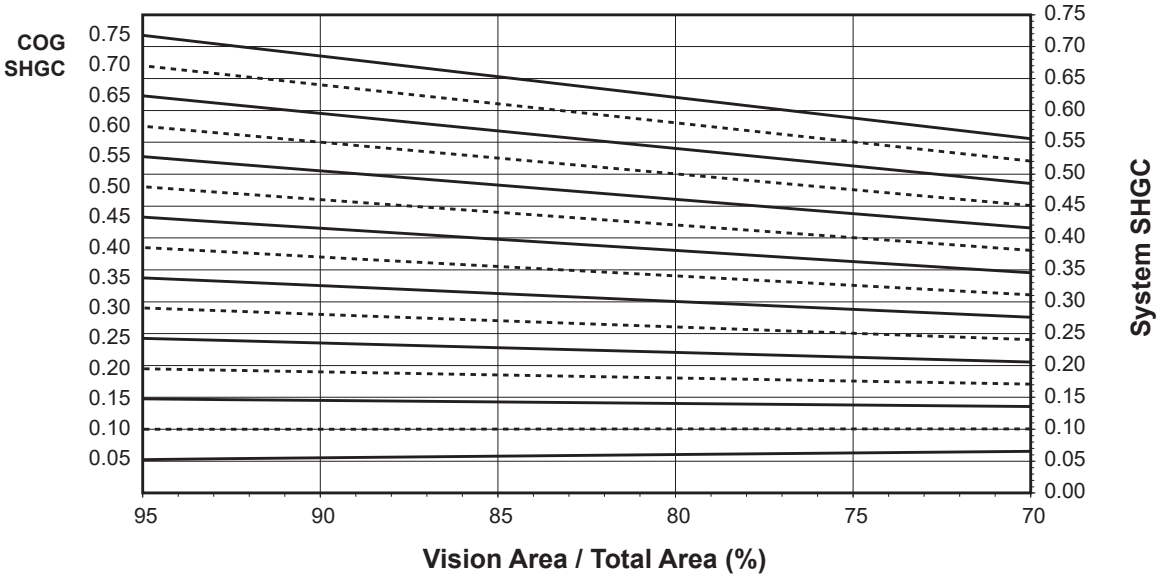
System U-Factor for Vision Glass



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

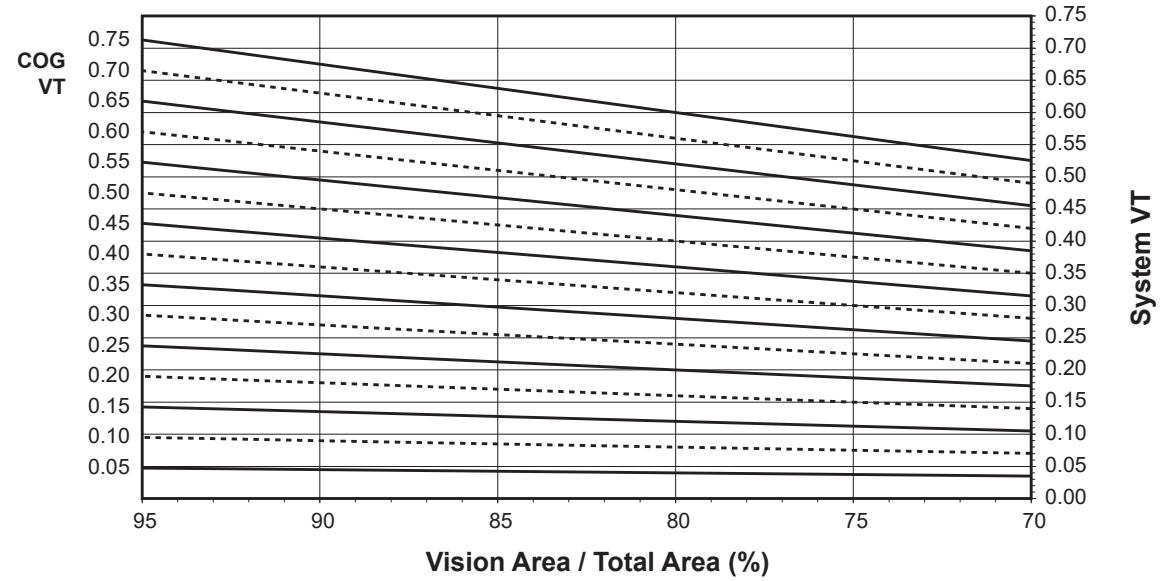
Shear Block (SB)
1-1/8" Double Glazed - Warm-Edge Glazing Spacer

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



Charts are generated per AAMA 507.

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	0.46
0.40	0.44
0.38	0.42
0.36	0.41
0.34	0.39
0.32	0.37
0.30	0.36
0.28	0.34
0.26	0.32
0.24	0.30
0.22	0.29
0.20	0.27
0.18	0.26
0.16	0.24
0.14	0.22
0.12	0.20
0.10	0.19

Shear Block (SB)
1-1/8" 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	0.46
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	0.06

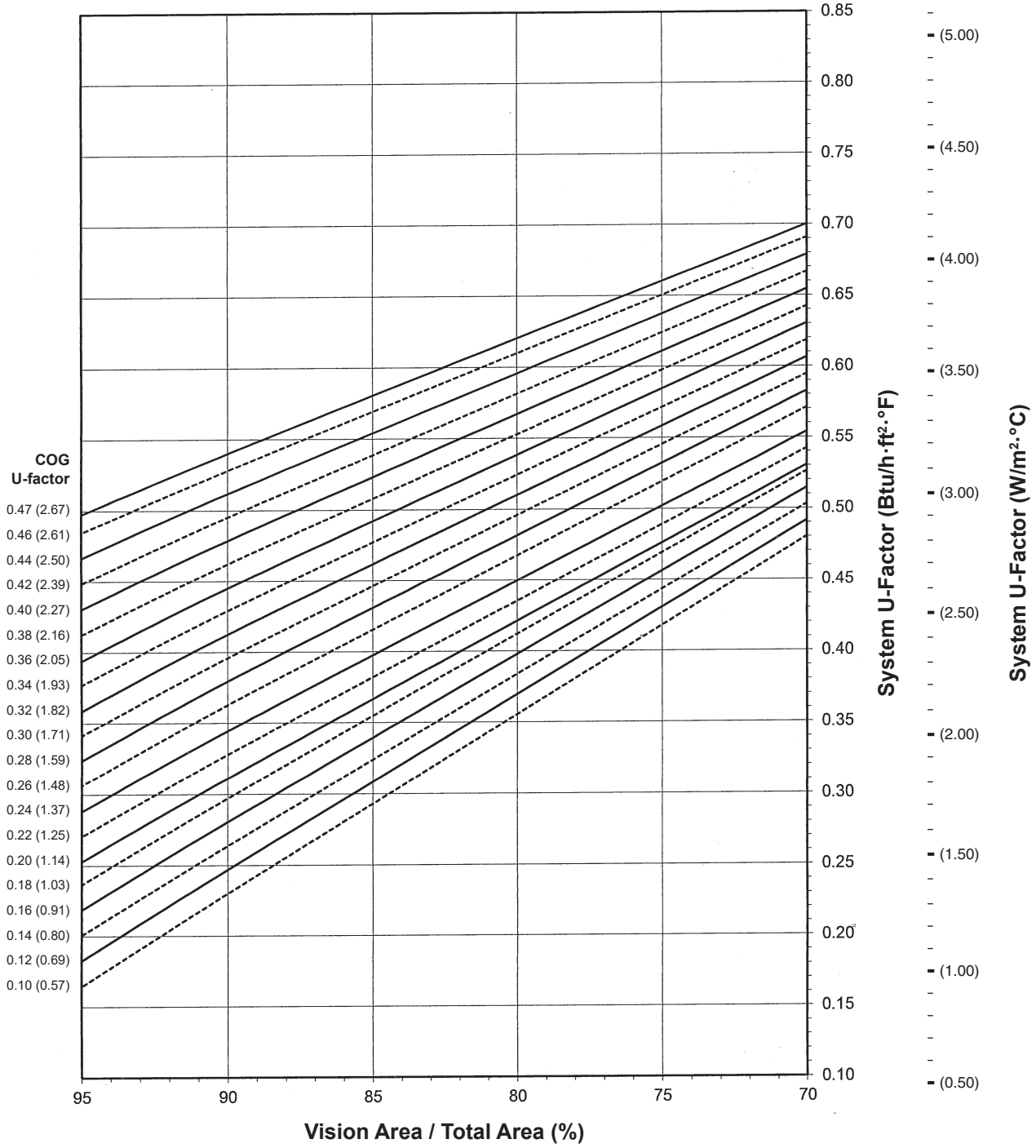
Visible Transmittance [2]

Glass VT [3]	Overall VT [4]
0.75	0.67
0.70	0.62
0.65	0.58
0.60	0.53
0.55	0.49
0.50	0.44
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

Shear Block (SB)
1-1/8" Double Glazed - Aluminum Glazing Spacer

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

System U-Factor for Vision Glass



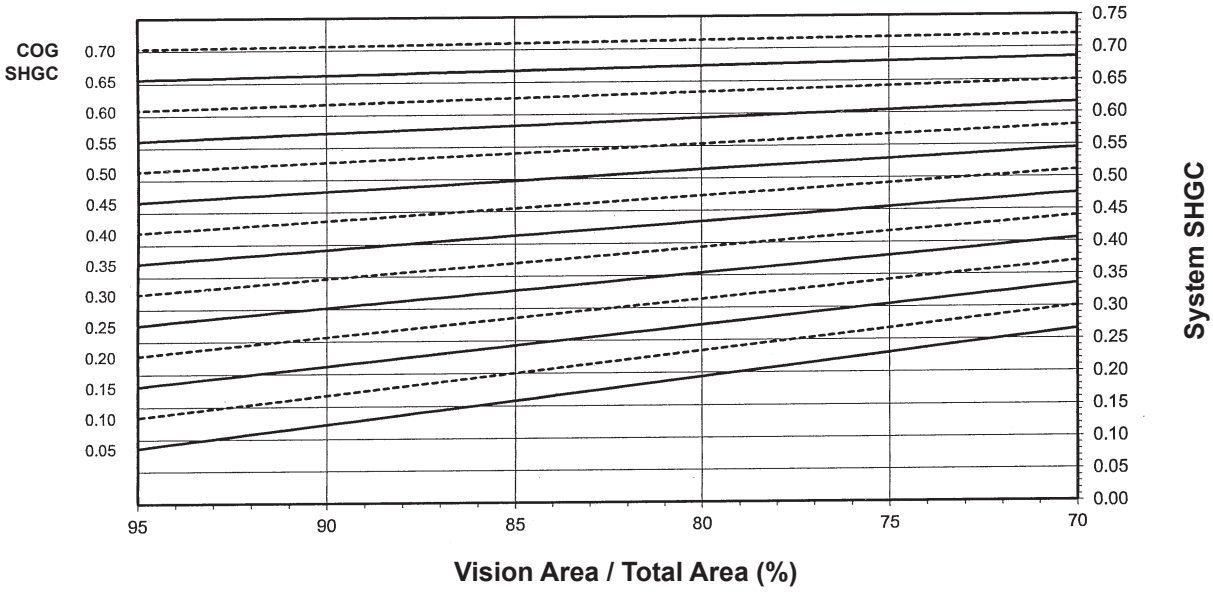
Notes for System U-Factor, SHGC and VT charts:

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

Glass properties are based on center of glass values (winter conditions) and are obtained from your glass supplier.

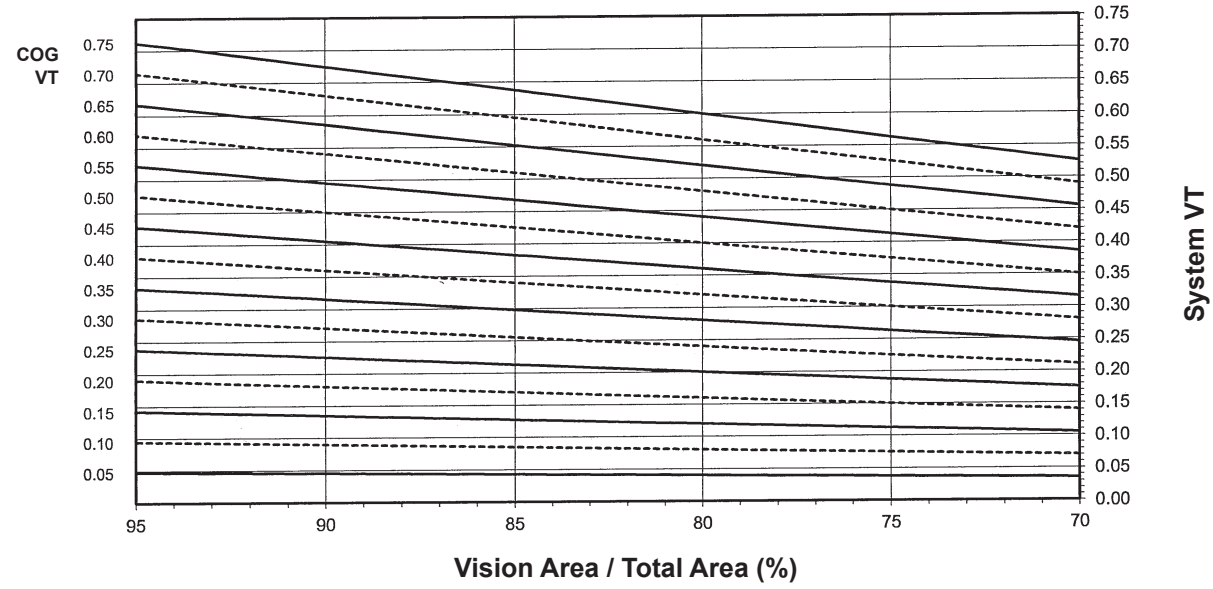
Shear Block (SB)
1-1/8" Double Glazed - Aluminum Glazing Spacer

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



Charts are generated per AAMA 507.

System Visible Transmittance (VT) vs Percent of Vision Area



Charts are generated per AAMA 507.

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

Glass U-Factor [3]	Overall U-Factor [4]
0.47	0.50
0.46	0.54
0.44	0.52
0.42	0.51
0.40	0.49
0.38	0.47
0.36	0.46
0.34	0.44
0.32	0.42
0.30	0.41
0.28	0.39
0.26	0.38
0.24	0.36
0.22	0.34
0.20	0.32
0.18	0.31
0.16	0.29
0.14	0.28
0.12	0.26
0.10	0.25

Shear Block (SB)
1-1/8" Double Glazed
Aluminum Glazing Spacer

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

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

SHGC Matrix [2]

Glass SHGC [3]	Overall SHGC [4]
0.75	0.75
0.70	0.71
0.65	0.66
0.60	0.62
0.55	0.57
0.50	0.53
0.45	0.49
0.40	0.44
0.35	0.40
0.30	0.35
0.25	0.31
0.20	0.26
0.15	0.22
0.10	0.17
0.05	0.13

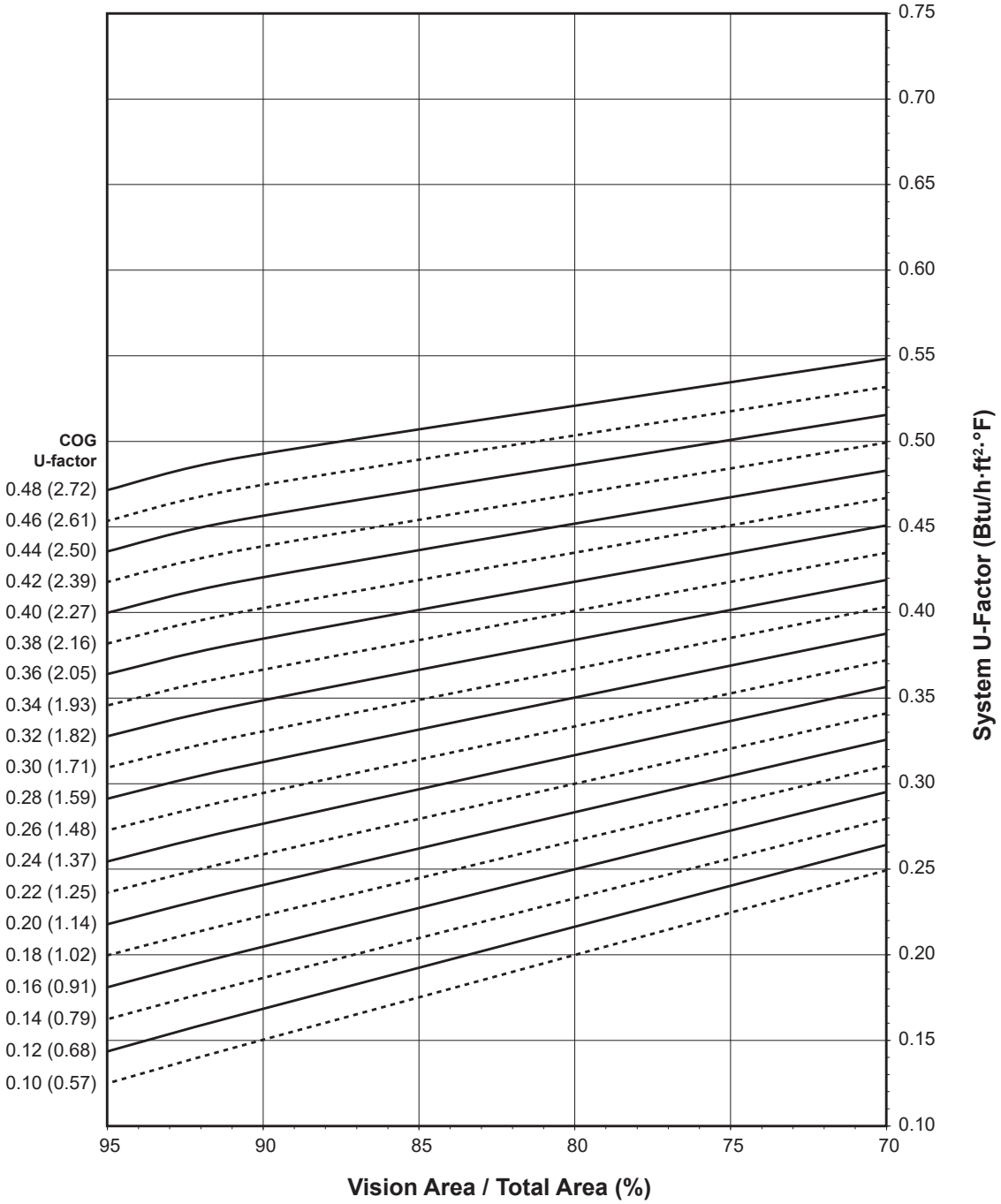
Visible Transmittance [2]

Glass VT [3]	Overall VT [4]
0.75	0.67
0.70	0.62
0.65	0.58
0.60	0.53
0.55	0.49
0.50	0.44
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

Shear Block Interface (SBI)
1" Double Glazed - Warm-Edge Glazing Spacer

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

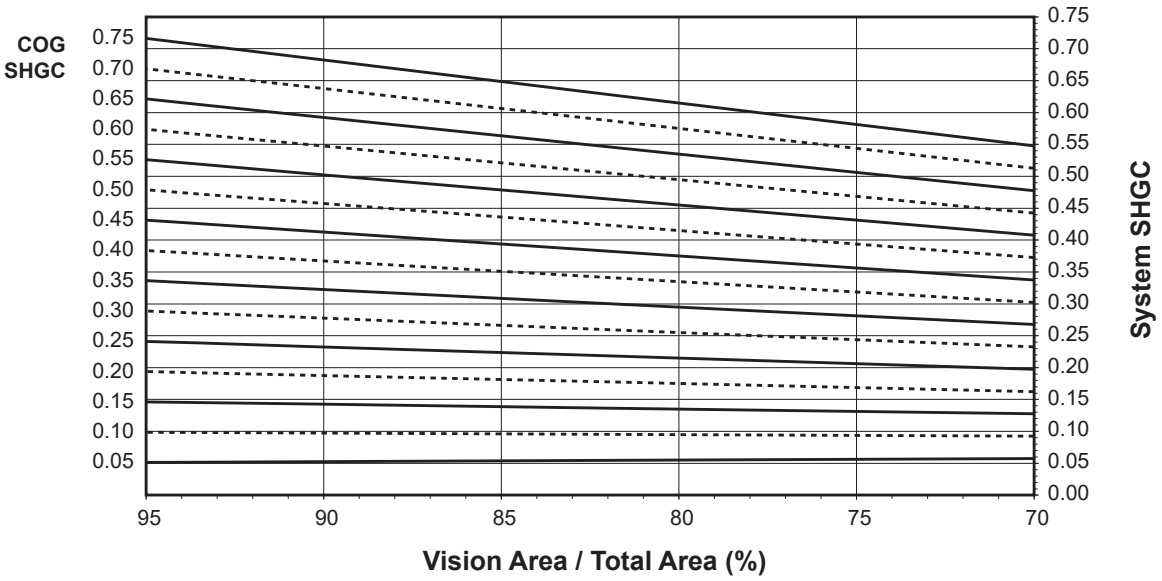
System U-Factor for Vision Glass



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

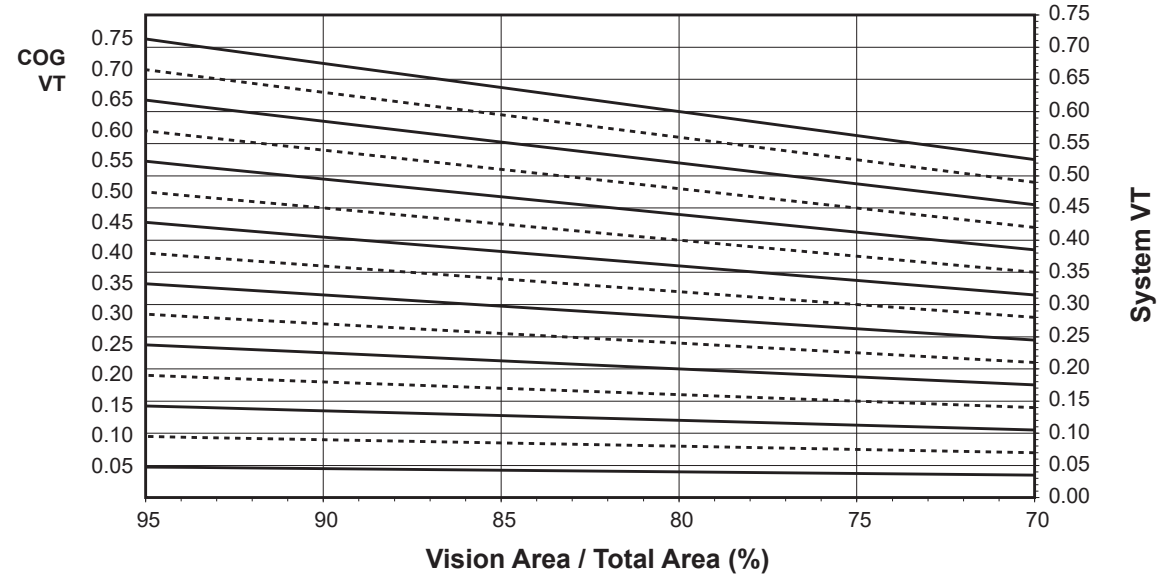
Shear Block Interface (SBI)
1" Double Glazed - Warm-Edge Glazing Spacer

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



Charts are generated per AAMA 507.

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	0.45
0.42	0.44
0.40	0.42
0.38	0.40
0.36	0.38
0.34	0.36
0.32	0.35
0.30	0.33
0.28	0.31
0.26	0.29
0.24	0.27
0.22	0.26
0.20	0.24
0.18	0.22
0.16	0.20
0.14	0.18
0.12	0.17
0.10	0.15

Shear Block Interface (SBI)
1" Double Glazed
Warm-Edge Glazing Spacer

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

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

SHGC Matrix [2]

Glass SHGC [3]	Overall SHGC [4]
0.75	0.69
0.70	0.64
0.65	0.60
0.60	0.55
0.55	0.51
0.50	0.46
0.45	0.42
0.40	0.37
0.35	0.32
0.30	0.28
0.25	0.23
0.20	0.19
0.15	0.14
0.10	0.10
0.05	0.05

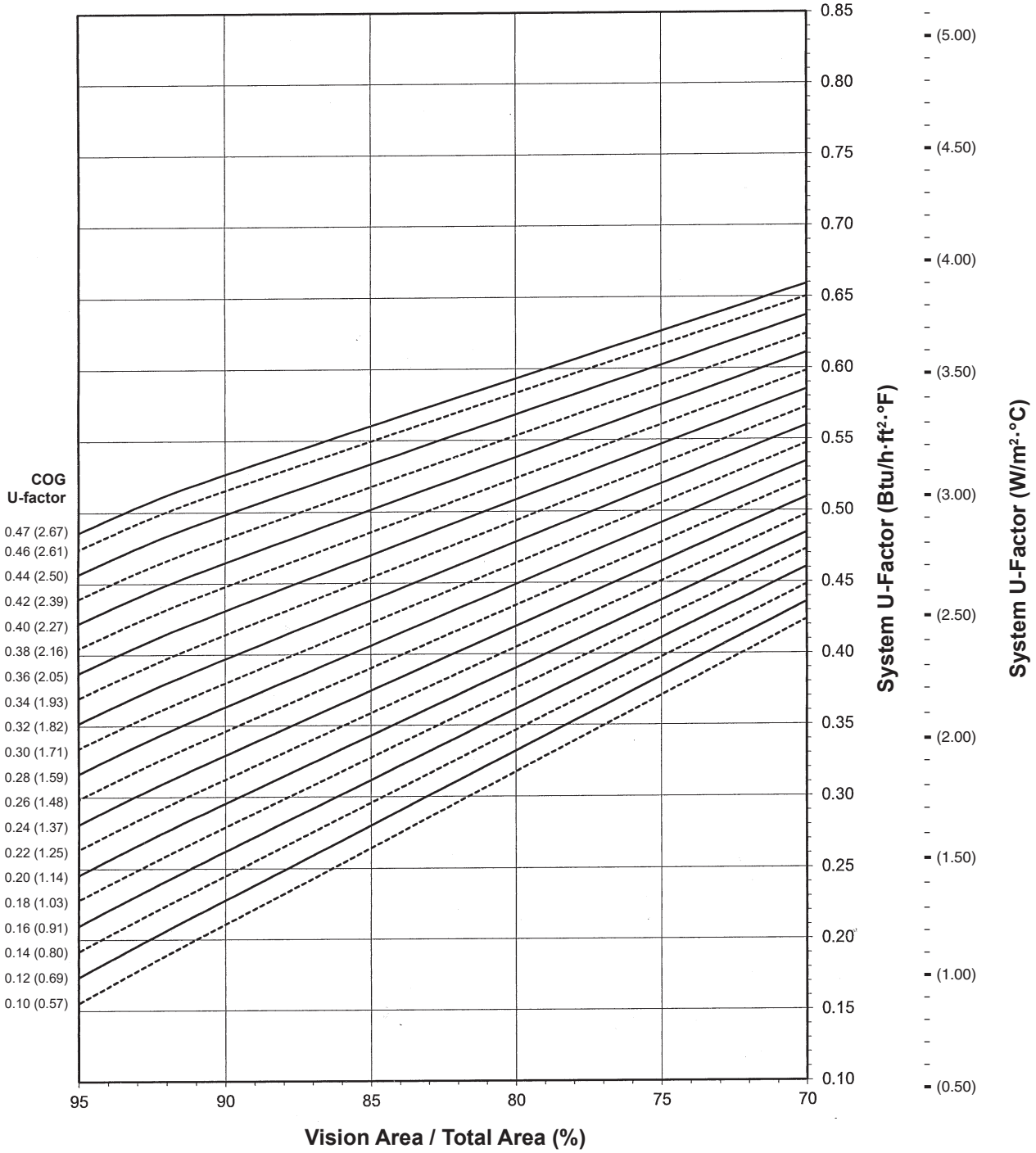
Visible Transmittance [2]

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

Shear Block Interface (SBI)
1" Double Glazed - Aluminum Glazing Spacer

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

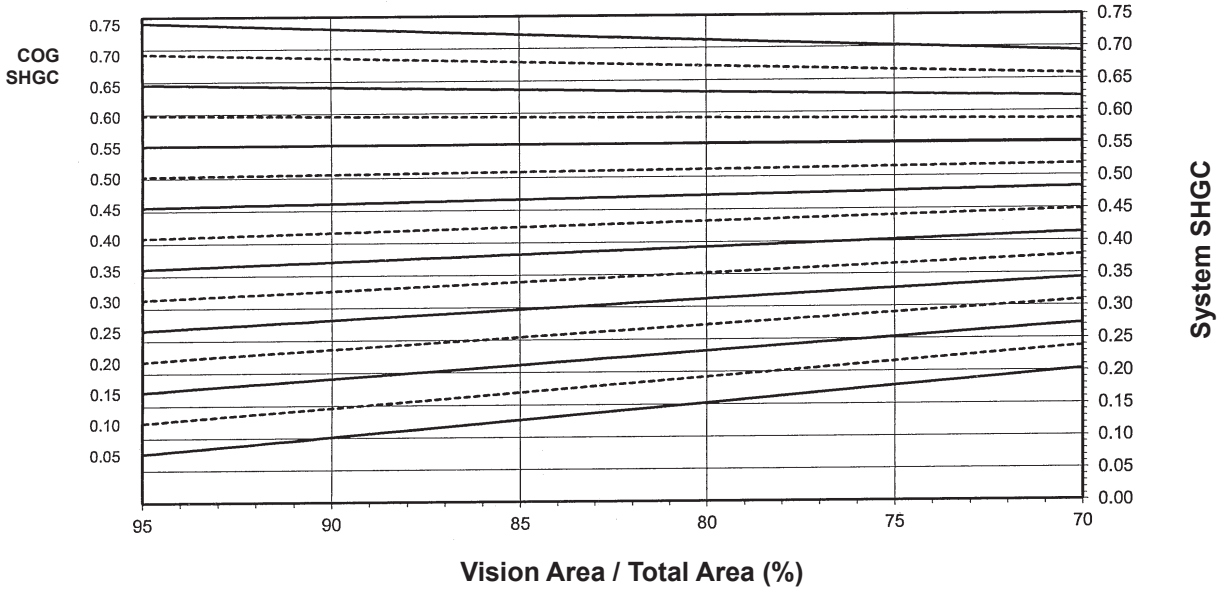
System U-Factor for Vision Glass



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

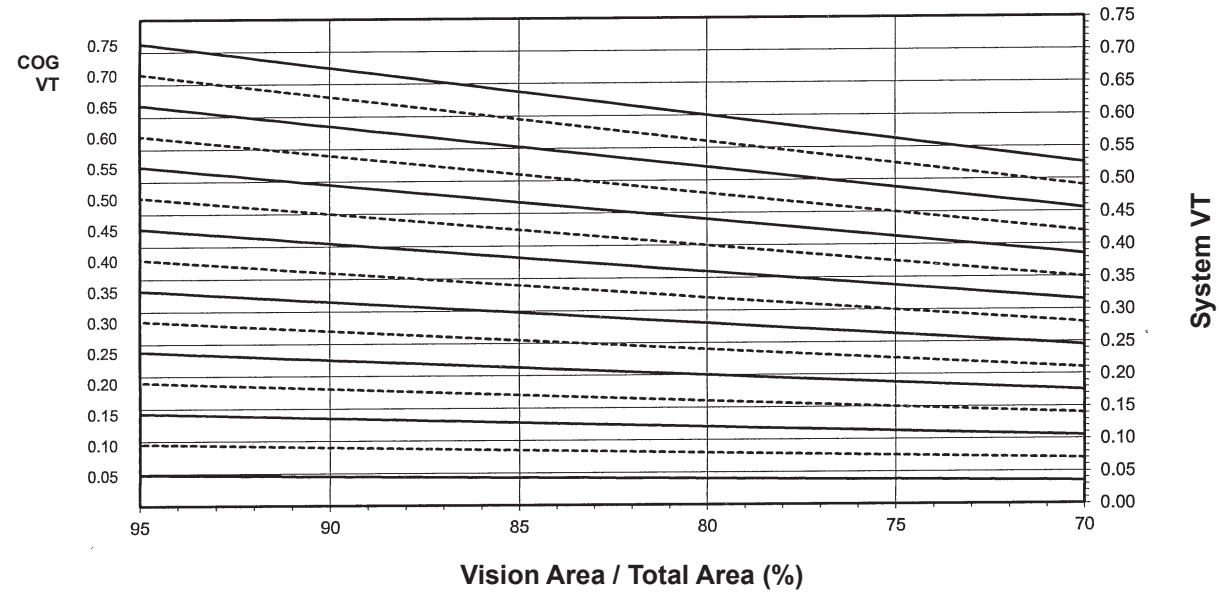
Shear Block Interface (SBI)
1" Double Glazed - Aluminum Glazing Spacer

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



Charts are generated per AAMA 507.

System Visible Transmittance (VT) vs Percent of Vision Area



Charts are generated per AAMA 507.

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

Glass U-Factor [3]	Overall U-Factor [4]
0.47	0.52
0.46	0.51
0.44	0.49
0.42	0.48
0.40	0.46
0.38	0.44
0.36	0.43
0.34	0.41
0.32	0.39
0.30	0.37
0.28	0.36
0.26	0.34
0.24	0.32
0.22	0.31
0.20	0.29
0.18	0.27
0.16	0.26
0.14	0.24
0.12	0.22
0.10	0.20

Shear Block Interface (SBI)
1" Double Glazed
Aluminum Glazing Spacer

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

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

SHGC Matrix [2]

Glass SHGC [3]	Overall SHGC [4]
0.75	0.73
0.70	0.69
0.65	0.64
0.60	0.60
0.55	0.55
0.50	0.51
0.45	0.46
0.40	0.41
0.35	0.37
0.30	0.32
0.25	0.28
0.20	0.23
0.15	0.19
0.10	0.14
0.05	0.10

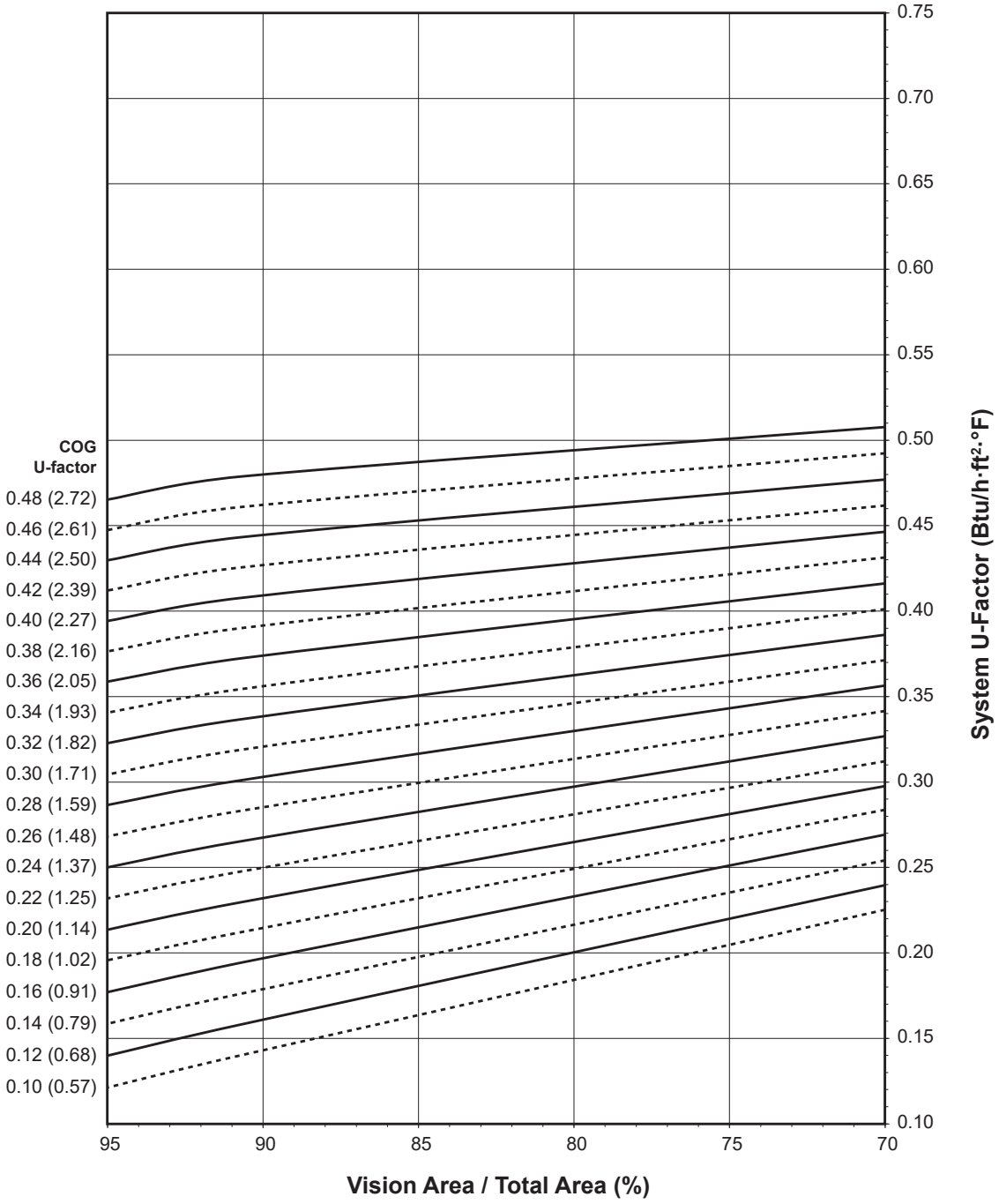
Visible Transmittance [2]

Glass VT [3]	Overall VT [4]
0.75	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

Shear Block Interface Tape (SBIT)
1" Double Glazed - Warm-Edge Glazing Spacer

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

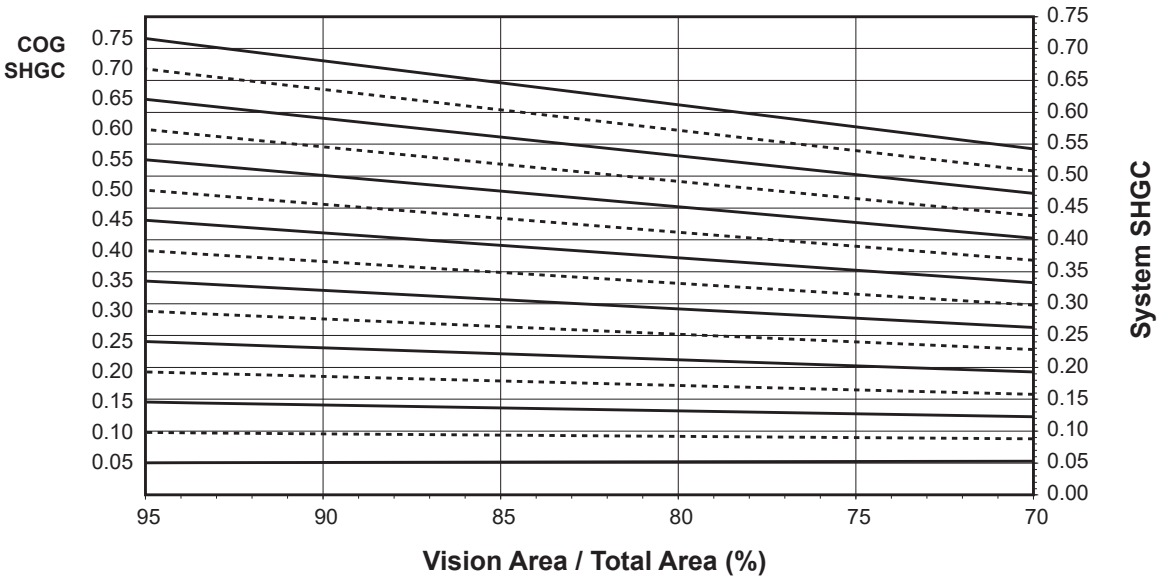
System U-Factor for Vision Glass



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

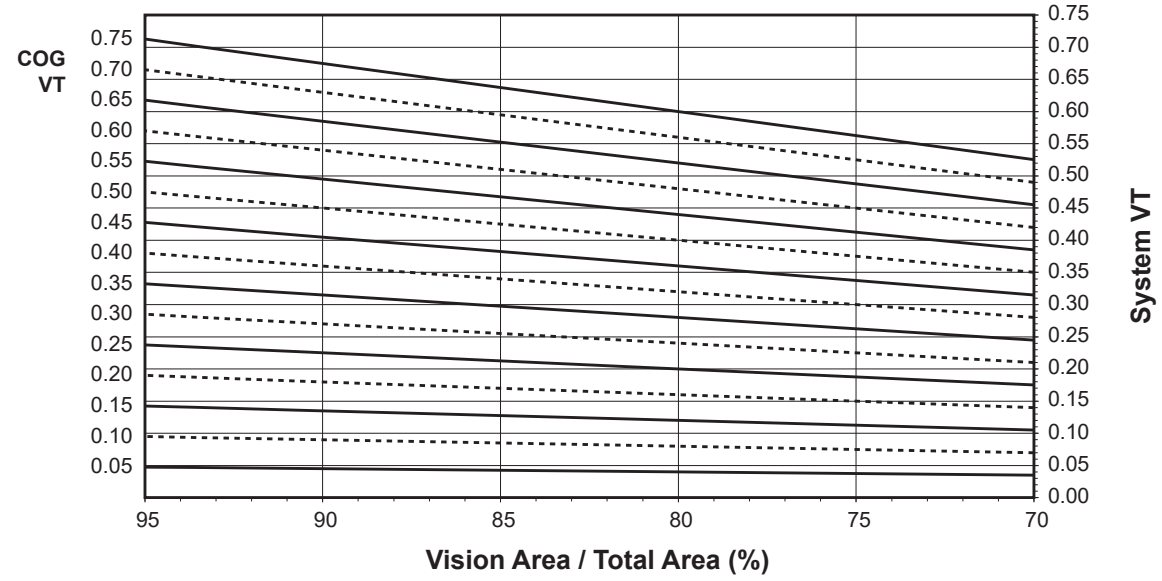
Shear Block Interface Tape (SBIT)
1" Double Glazed - Warm-Edge Glazing Spacer

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



Charts are generated per AAMA 507.

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

Glass U-Factor [3]	Overall U-Factor [4]
0.48	0.48
0.46	0.46
0.44	0.44
0.42	0.43
0.40	0.41
0.38	0.39
0.36	0.37
0.34	0.35
0.32	0.34
0.30	0.32
0.28	0.30
0.26	0.28
0.24	0.27
0.22	0.25
0.20	0.23
0.18	0.21
0.16	0.19
0.14	0.18
0.12	0.16
0.10	0.14

Shear Block Interface Tape (SBIT)
1" Double Glazed
Warm-Edge Glazing Spacer

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

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

SHGC Matrix [2]

Glass SHGC [3]	Overall SHGC [4]
0.75	0.69
0.70	0.64
0.65	0.59
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

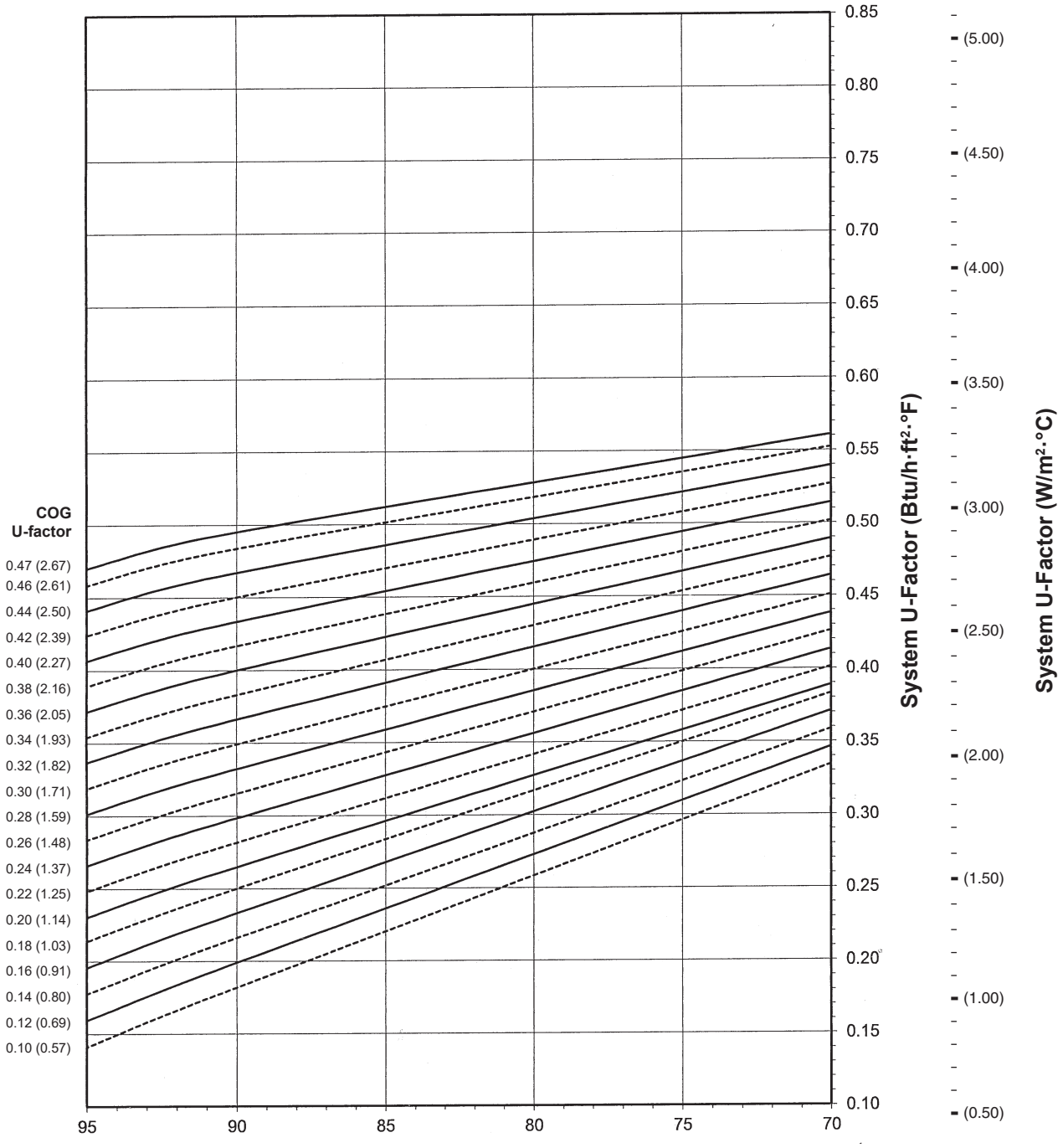
Visible Transmittance [2]

Glass VT [3]	Overall VT [4]
0.75	0.68
0.70	0.63
0.65	0.59
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

Shear Block Interface Tape (SBIT)
1" Double Glazed - Aluminum Glazing Spacer

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

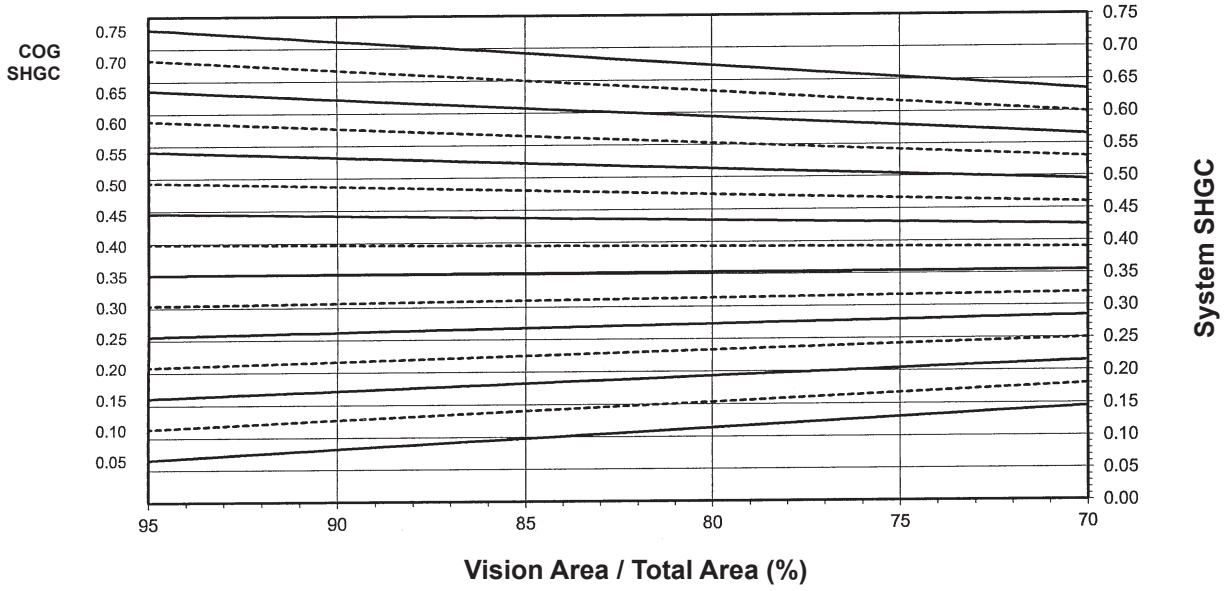
System U-Factor for Vision Glass



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

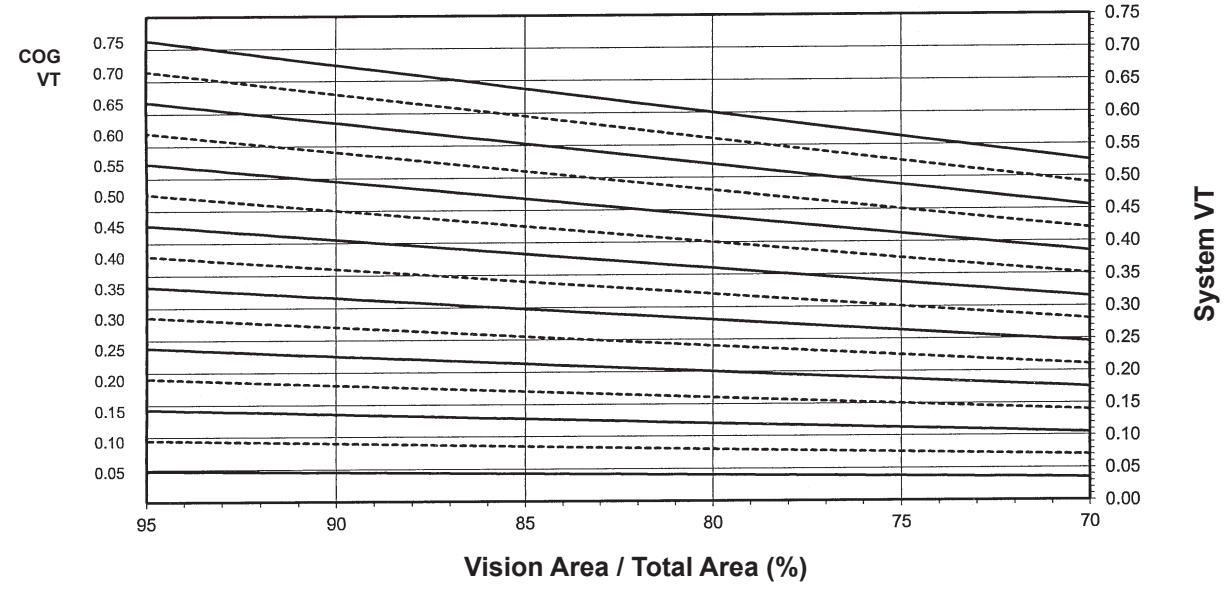
Shear Block Interface Tape (SBIT)
1" Double Glazed - Aluminum Glazing Spacer

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



Charts are generated per AAMA 507.

System Visible Transmittance (VT) vs Percent of Vision Area



Charts are generated per AAMA 507.

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

Glass U-Factor [3]	Overall U-Factor [4]
0.47	0.49
0.46	0.48
0.44	0.46
0.42	0.45
0.40	0.43
0.38	0.41
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	0.28
0.20	0.26
0.18	0.25
0.16	0.23
0.14	0.21
0.12	0.19
0.10	0.18

Shear Block Interface Tape (SBIT)
1" Double Glazed
Aluminum Glazing Spacer

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

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

SHGC Matrix [2]

Glass SHGC [3]	Overall SHGC [4]
0.75	0.71
0.70	0.67
0.65	0.62
0.60	0.58
0.55	0.53
0.50	0.49
0.45	0.44
0.40	0.40
0.35	0.35
0.30	0.31
0.25	0.26
0.20	0.22
0.15	0.17
0.10	0.12
0.05	0.08

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

CONDENSATION RESISTANCE

Glazing Infill	Condensation Resistance Factor (CRF) AAMA 1503		Temperature Index (TI) CSA A440-0	
	Frame	Glass	Frame	Glass
1" Double Clearwall® Screw Spline (SS)	78	61	74	56