Features

- 2500 UT SGT Unitwall® is a pre-glazed unitized curtain wall using 3M™ VHB™ structural glazing tape (SGT)
- 2-1/2" (63.5) sightline. System depths of:
  - 7-1/2" (190.5) captured and 6-1/2" (165.1) 4-side SGT with 1" (25.4) infill
  - 8-1/4" (209.6) captured and 7-1/4" (184.2) 4-sided SGT with 1-3/4" (44.5) infill
- No curing-wait time with SGT, unlike silicone. Units are ready to handle/ship immediately
- Patented polyamide thermal break
- Screw spline shop assembly
- Shop glazed infill options:
  - 1" (25.4) and 1-3/4" (44.5) insulating vision
  - 1" (25.4) and 1-3/4" (44.5) insulating spandrel
- Three system types available:
  - Captured
  - 4-sided SGT (all glass exterior look)
  - 2-sided Vertical SGT (Captured-Horizontal)
- No exterior applied joint seals. Can be fully installed from inside, saving installation costs
- Available spandrel back panning with enhanced pressure equalized venting/weeping options
- Exterior re-glazing capability
- 90° and 135° inside and outside corners
- Top of slab fully adjustable anchoring ±1" in & out, up & down and left & right
- Comprehensively tested to North American Standards, including seismic, thermal, and acoustical standards
- Two color option
- Permanodic® anodized finishes option
- Painted finishes in standard and custom choices
- Full Technical support from 3M™ for glazing application of 3M™ VHB™ SGT (Structural Glazing Tape)

Optional Features

- Steel reinforcing available
- Accepts GLASSvent® UT windows with captured system type
- Profit$Maker® Plus die sets available

Product Applications

- Suitable for new construction or remodel
- Ideal for mid-rise and high-rise applications

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.

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:

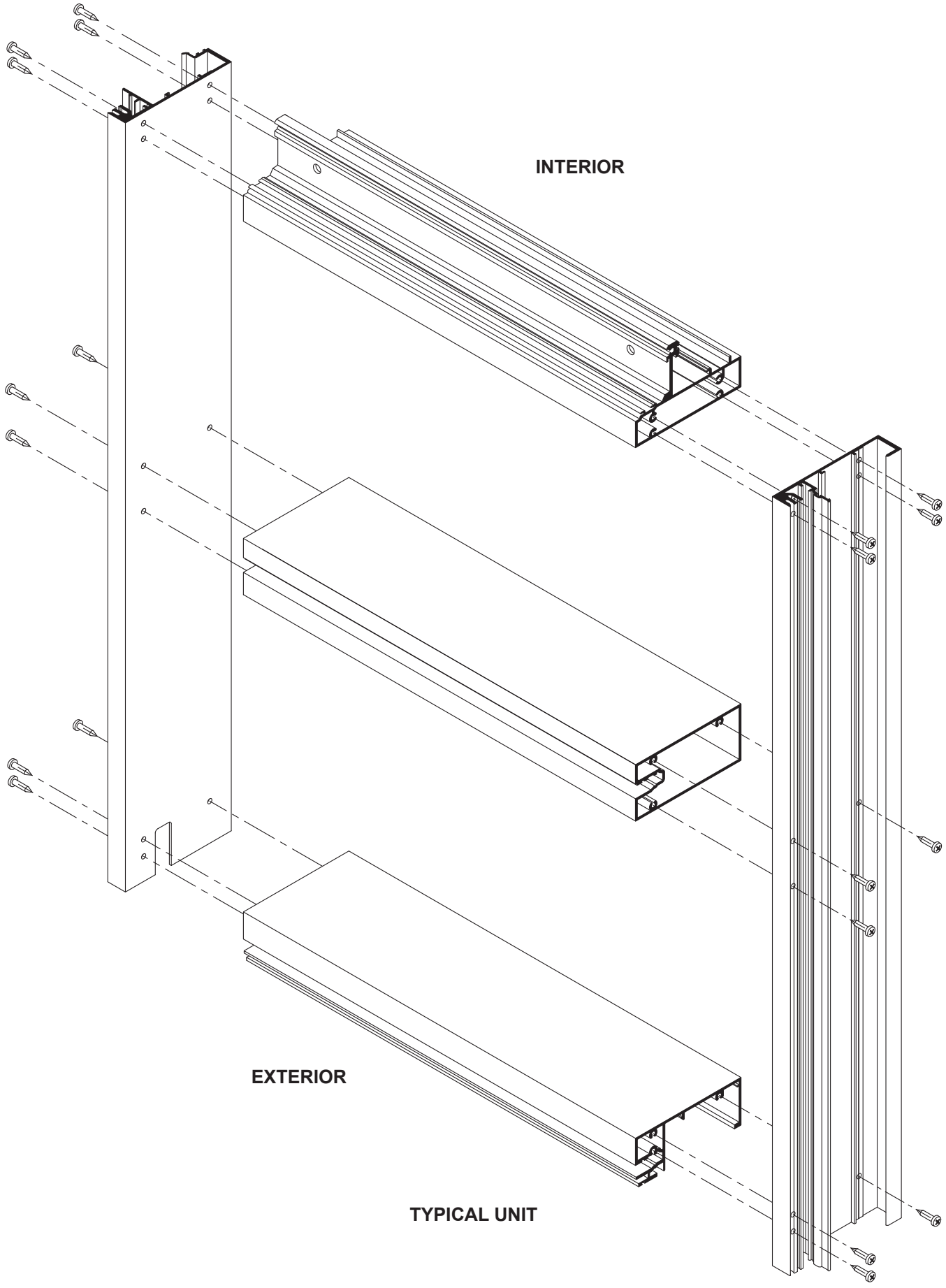
m – meter
cm – centimeter
mm – millimeter
s – second
Pa – pascal
MPa – megapascal

2500 UT Unitwall® System - SGT

AUGUST, 2023

PICTORIAL VIEW

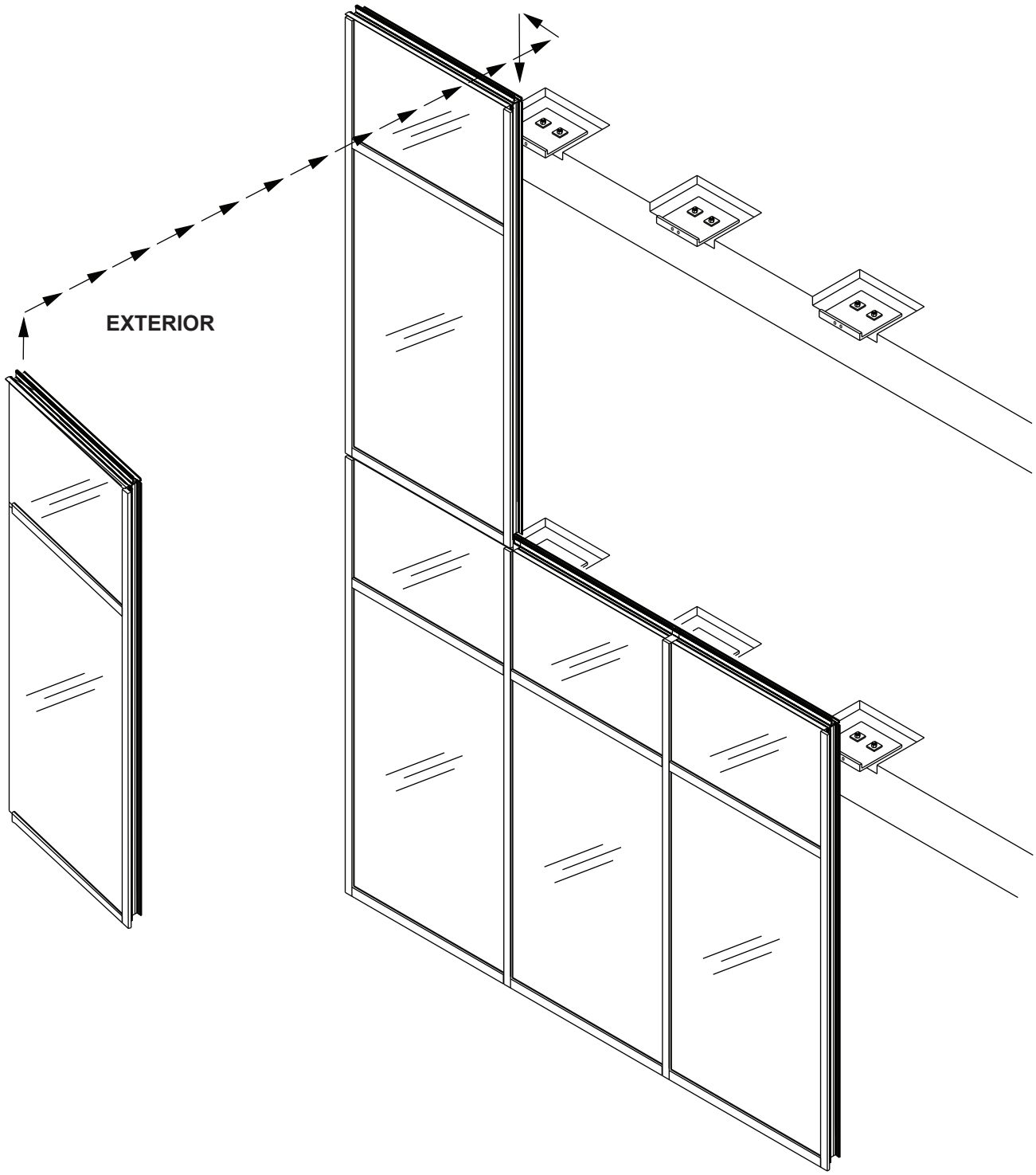
EC 97911-296



TYPICAL UNIT

2500 UT Unitwall® System - SGT

PICTORIAL VIEW



CAPTURED SYSTEM SHOWN

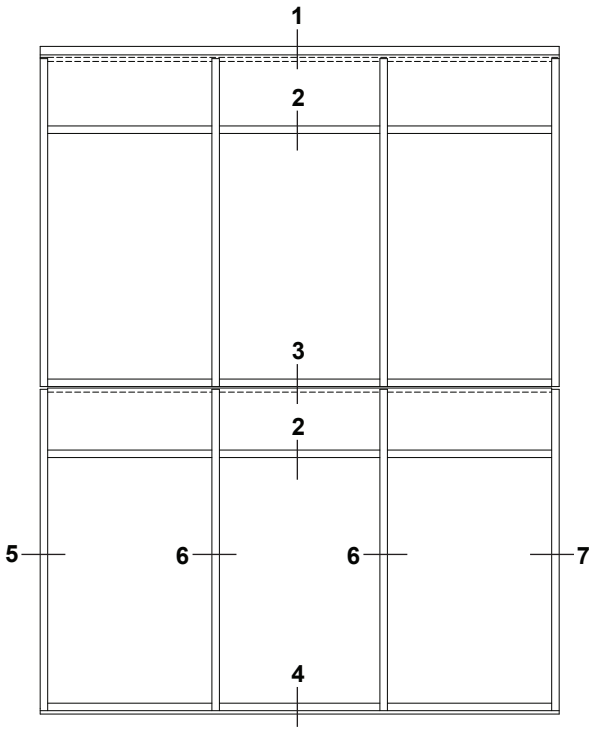
2500 UT Unitwall® System - SGT

AUGUST, 2023

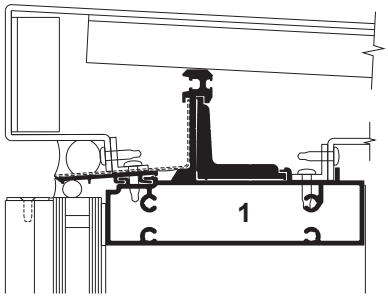
1" INFILL DETAILS (CAPTURED SYSTEM)

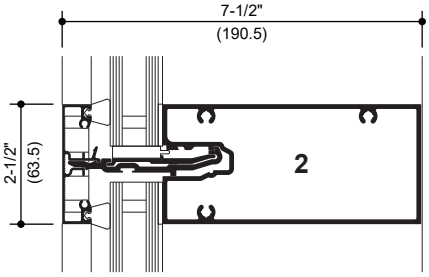
EC 97911-296

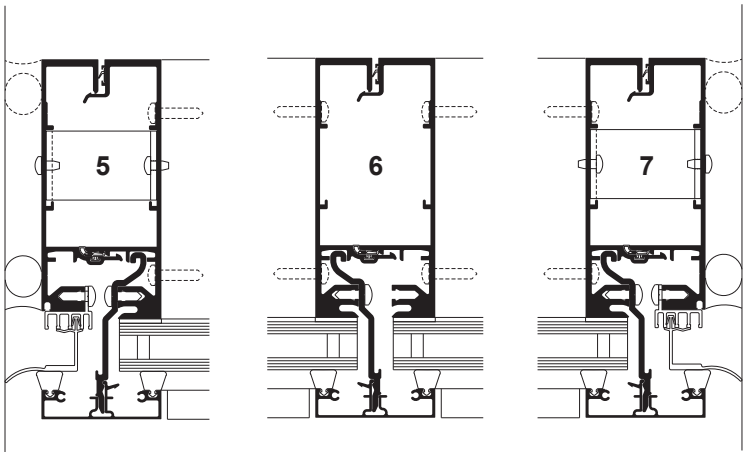
Additional information and CAD details are available at www.kawneer.com

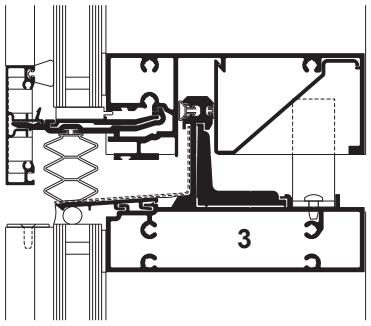


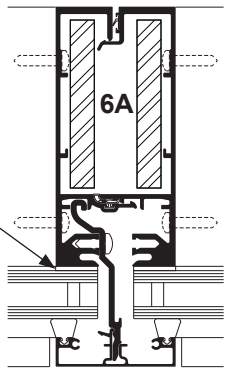
TYPICAL ELEVATION
(CAPTURED SYSTEM)





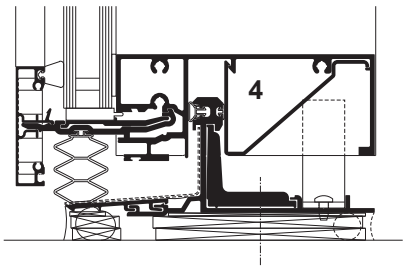






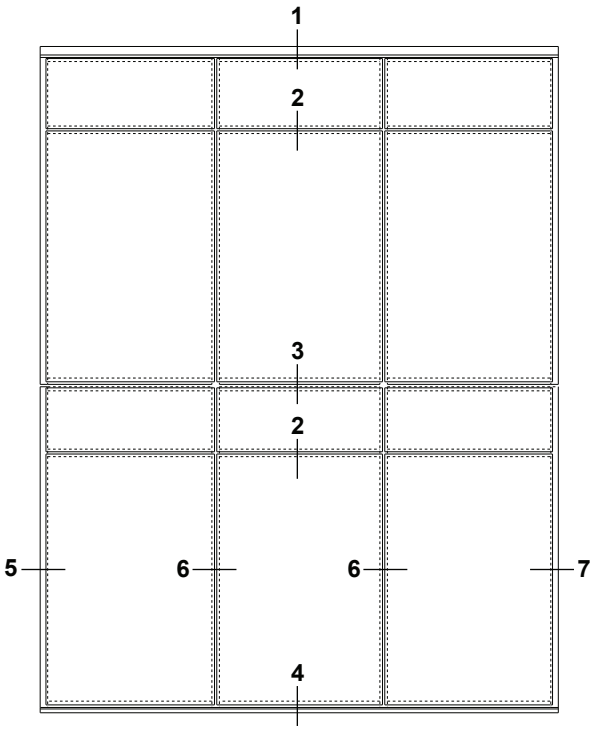
Structural Glazing Tape
(by Others)*

OPTIONAL STEEL
REINFORCING
AS REQUIRED

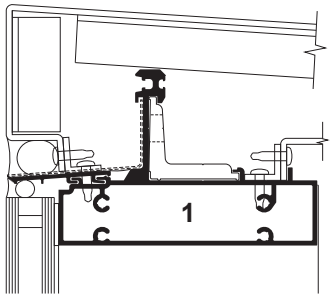


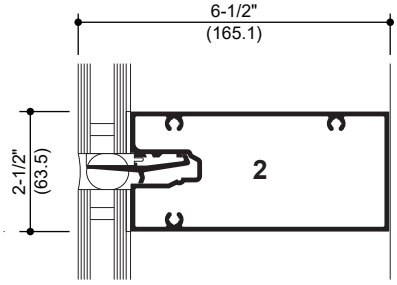
* **INSTALLER NOTE:** Installer is responsible for all required compatibility review and approvals with the Structural Glazing Tape Manufacturer and the Insulating Glass Unit Manufacturer.

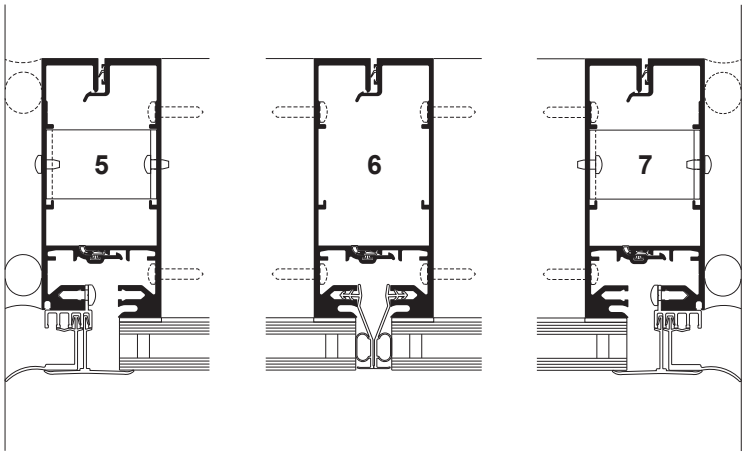
Additional information and CAD details are available at www.kawneer.com

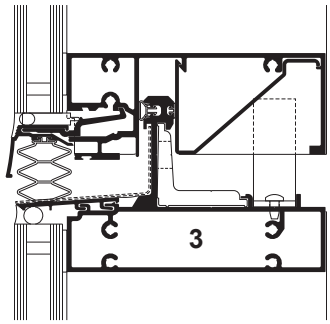


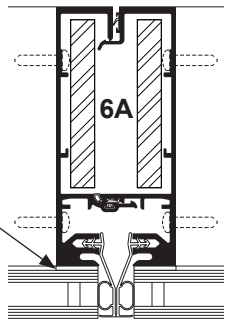
TYPICAL ELEVATION
(4-SIDED SGT SYSTEM)





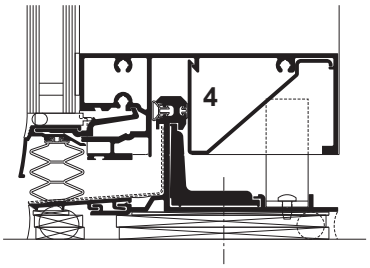






Structural Glazing Tape
(by Others)*

OPTIONAL STEEL
REINFORCING
AS REQUIRED



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

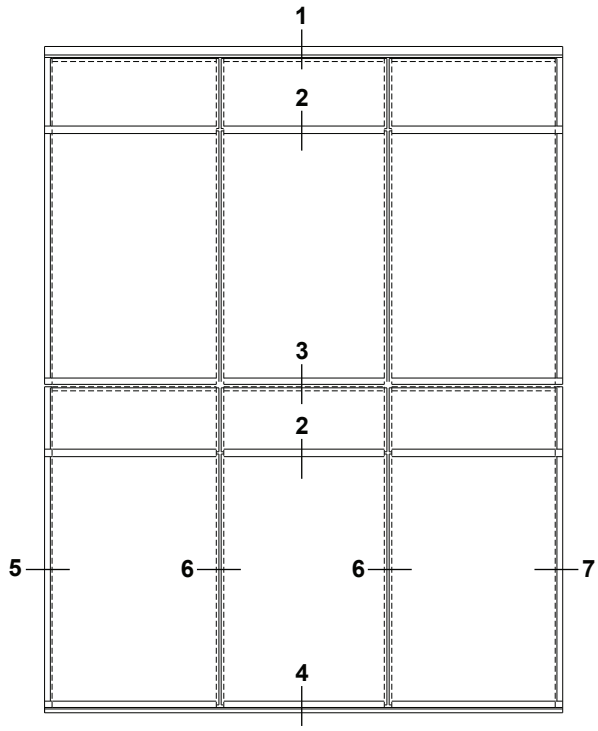
2500 UT Unitwall® System - SGT

AUGUST, 2023

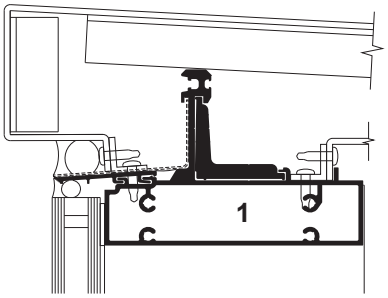
1" INFILL DETAILS (VERTICAL SGT SYSTEM)

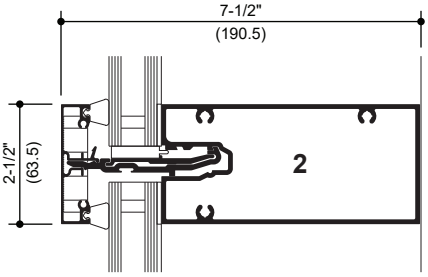
EC 97911-296

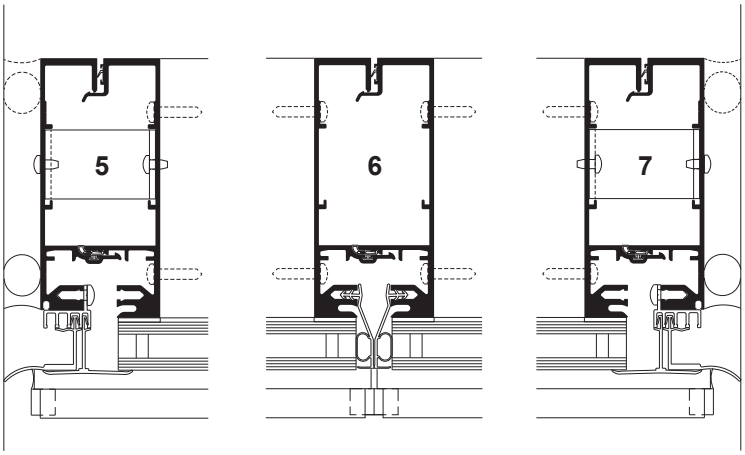
Additional information and CAD details are available at www.kawneer.com

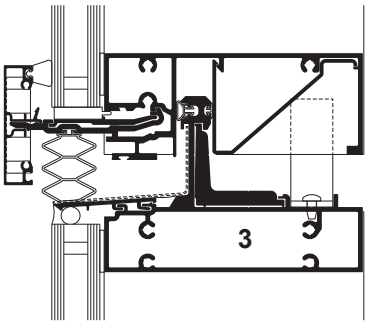


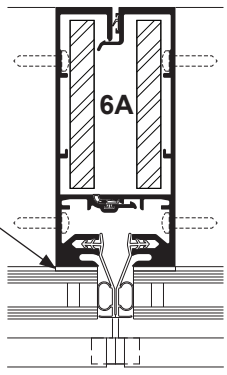
TYPICAL ELEVATION
(VERTICAL SGT SYSTEM)





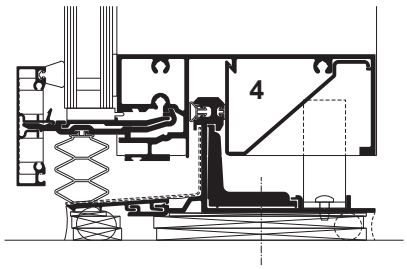






Structural Glazing Tape
(by Others)*

OPTIONAL STEEL
REINFORCING
AS REQUIRED

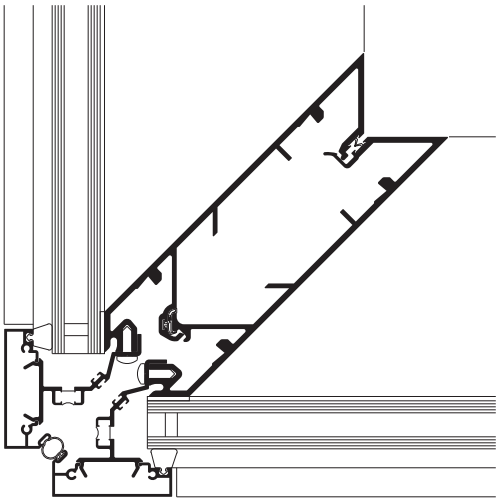


* **INSTALLER NOTE:** Installer is responsible for all required compatibility review and approvals with the Structural Glazing Tape Manufacturer and the Insulating Glass Unit Manufacturer.

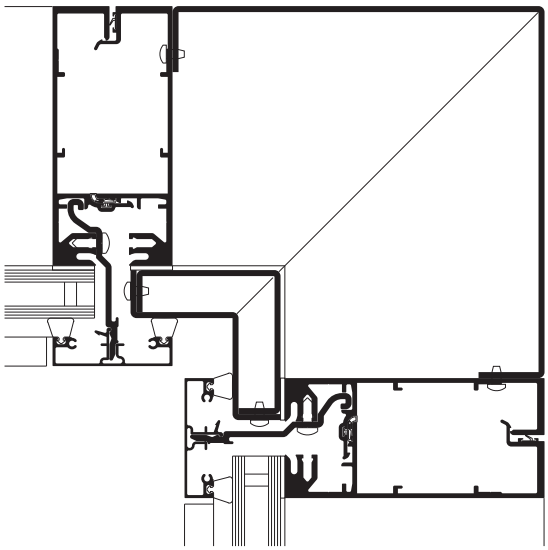
2500 UT Unitwall® System - SGT

1" INFILL CORNER DETAILS (CAPTURED SYSTEM)

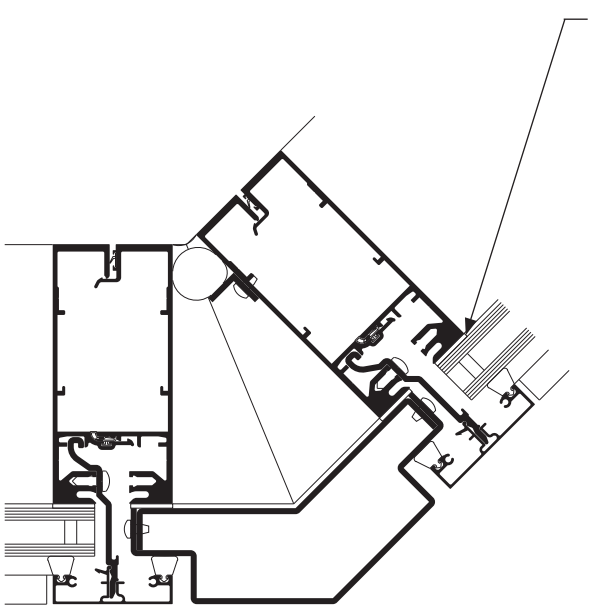
Additional information and CAD details are available at www.kawneer.com



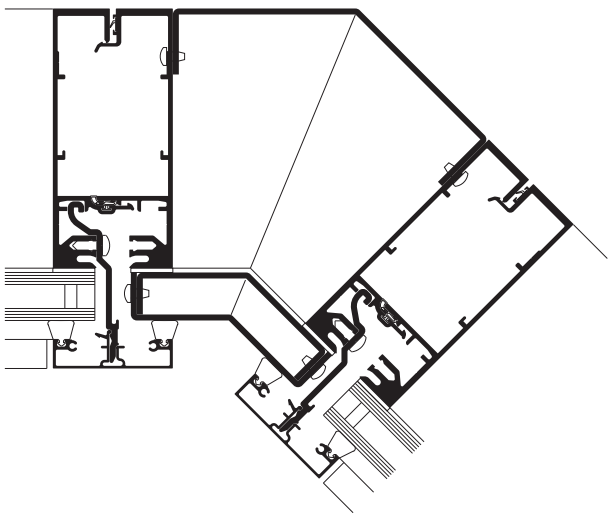
90° OUTSIDE CORNER



90° INSIDE CORNER



135° OUTSIDE CORNER



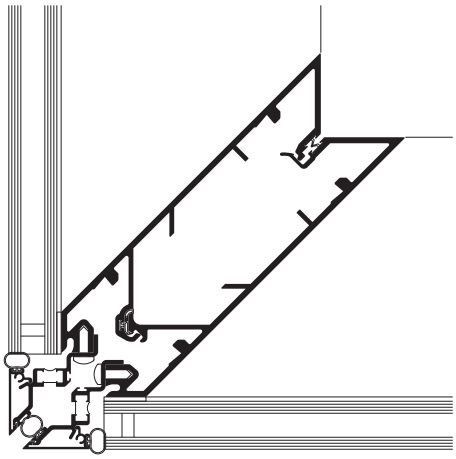
135° INSIDE CORNER

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

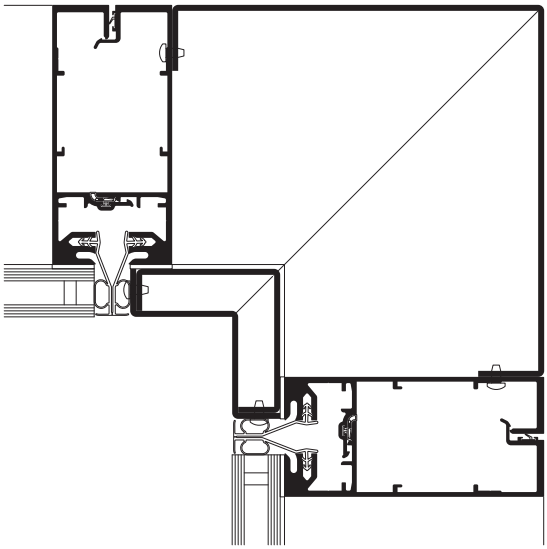
2500 UT Unitwall® System - SGT

1" INFILL CORNER DETAILS (SGT SYSTEM)

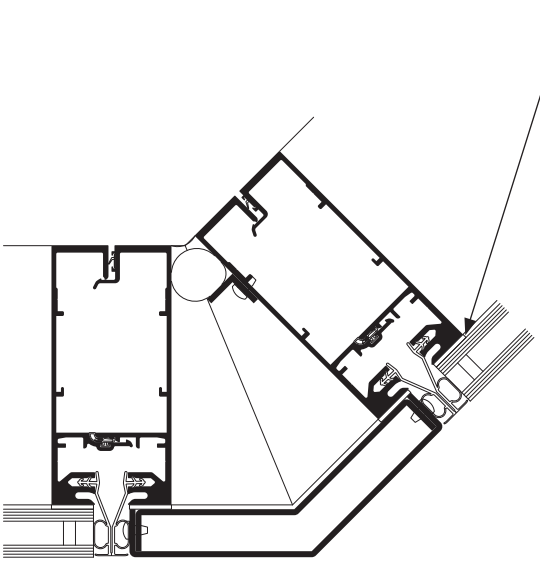
Additional information and CAD details are available at www.kawneer.com



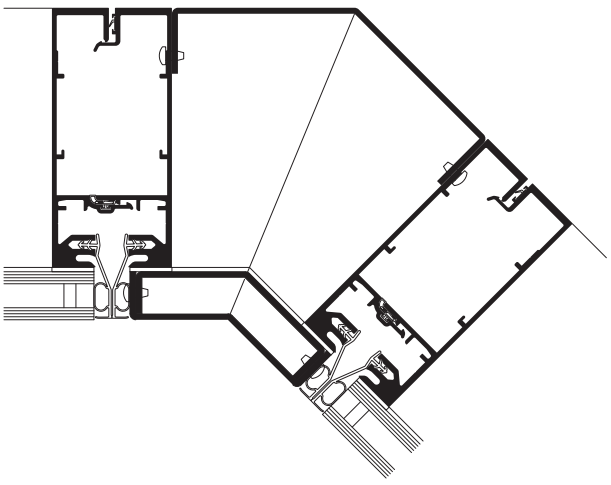
90° SGT OUTSIDE CORNER



90° SGT INSIDE CORNER



135° SGT OUTSIDE CORNER

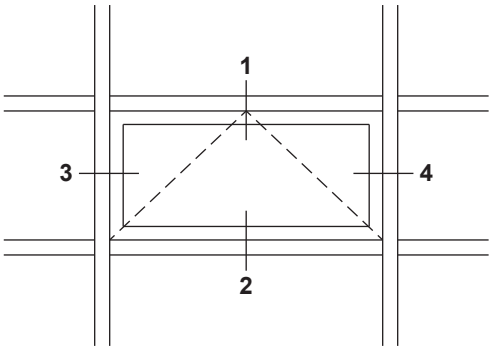


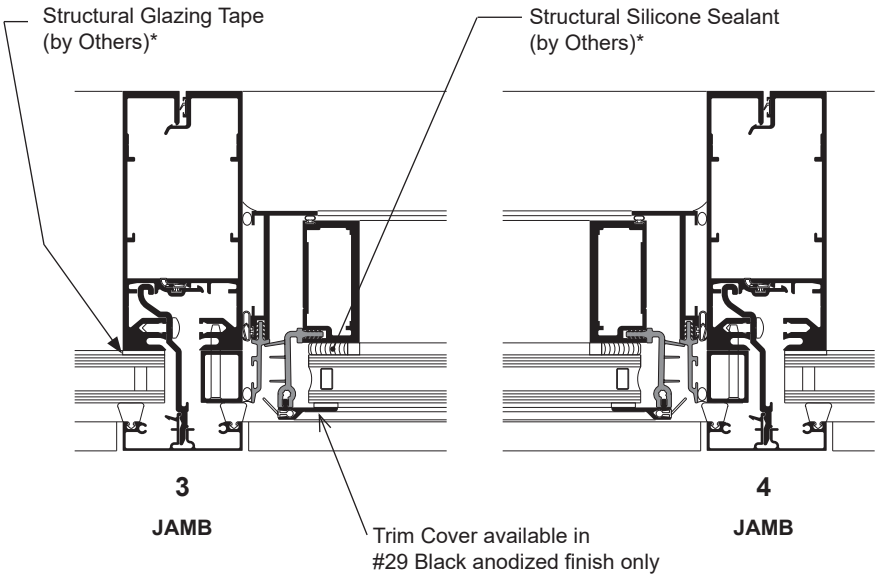
135° SGT INSIDE CORNER

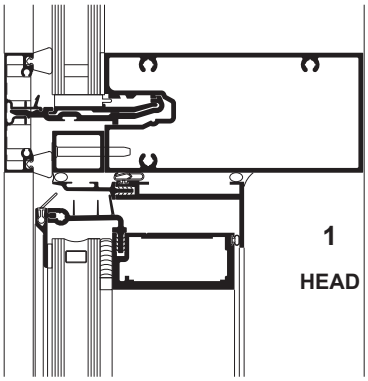
*** INSTALLER NOTE:** Installer is responsible for all required compatibility review and approvals with the Structural Glazing Tape Manufacturer and the Insulating Glass Unit Manufacturer.

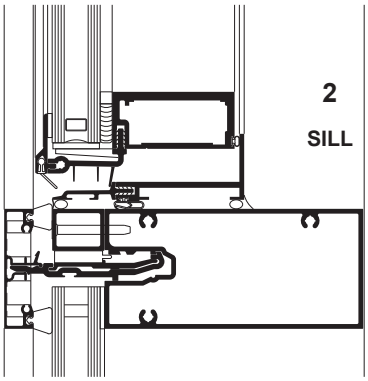
2500 UT Unitwall® System - SGT

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









Project-Out GLASSvent® UT Window Shown
Casement Window Similar

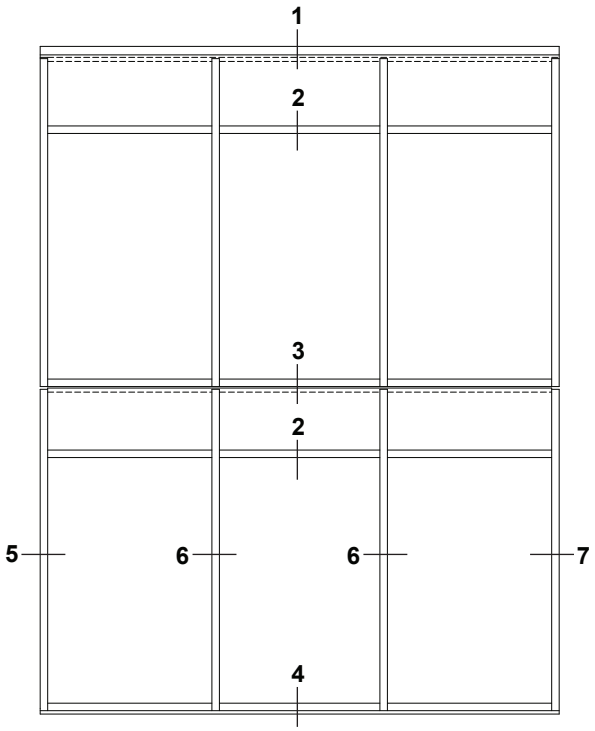
(With Captured System Only)

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

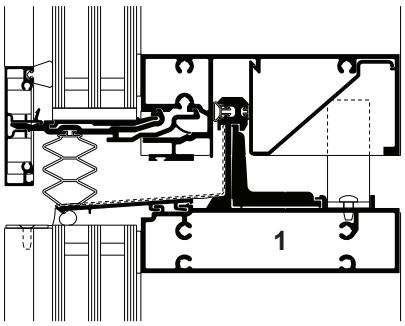
2500 UT Unitwall® System - SGT

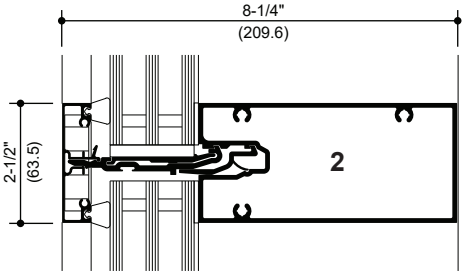
1-3/4" INFILL DETAILS (CAPTURED SYSTEM)

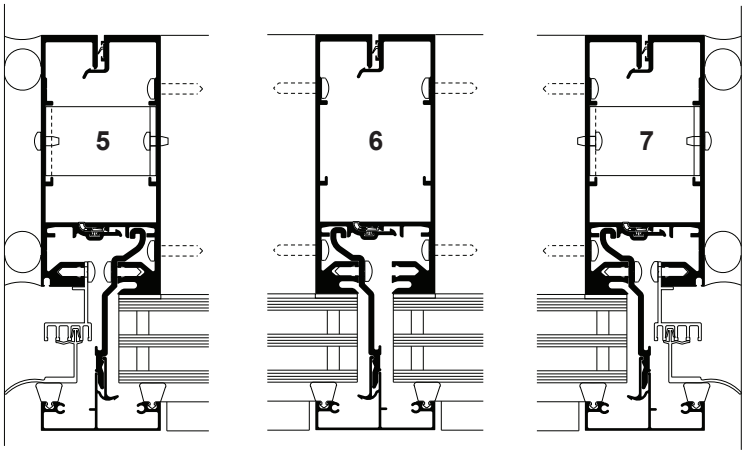
Additional information and CAD details are available at www.kawneer.com

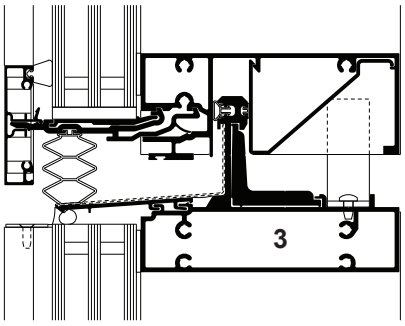


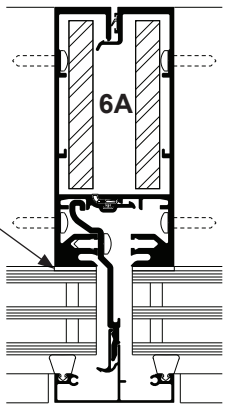
TYPICAL ELEVATION
(CAPTURED SYSTEM)





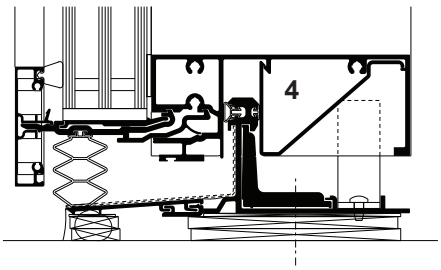






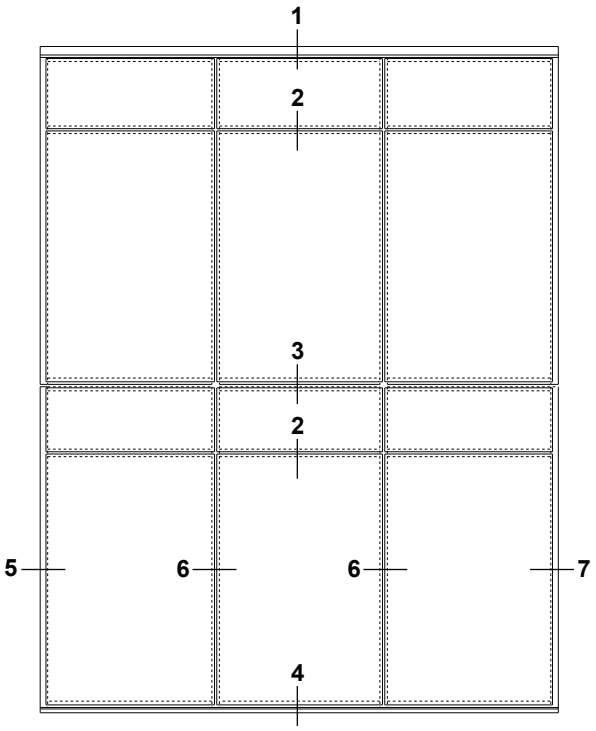
Structural Glazing Tape
(by Others)*

OPTIONAL STEEL
REINFORCING
AS REQUIRED

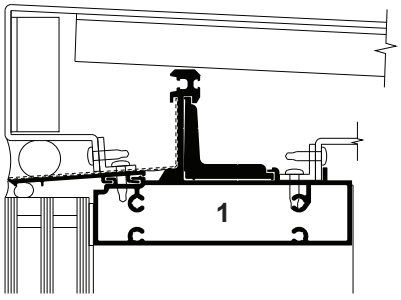


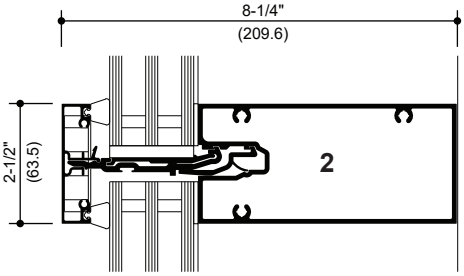
* **INSTALLER NOTE:** Installer is responsible for all required compatibility review and approvals with the Structural Glazing Tape Manufacturer and the Insulating Glass Unit Manufacturer.

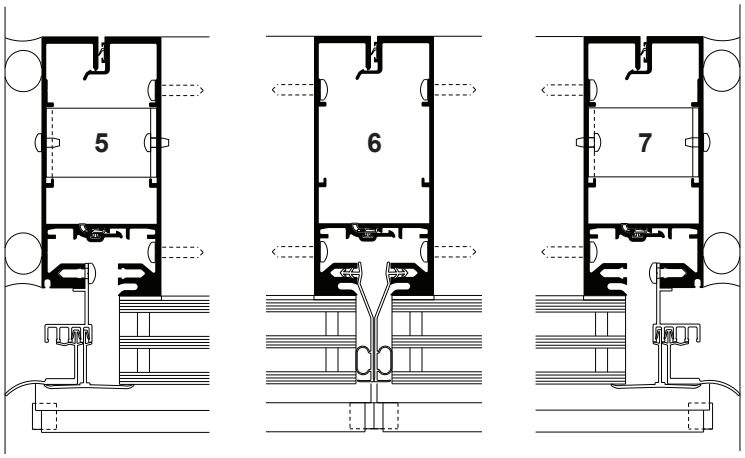
Additional information and CAD details are available at www.kawneer.com

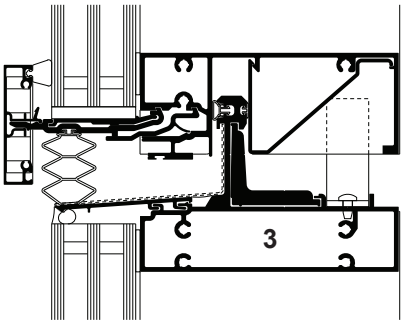


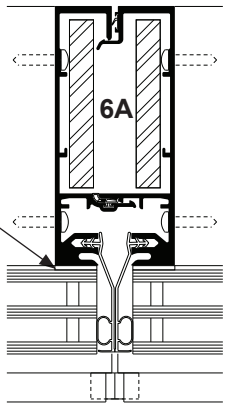
TYPICAL ELEVATION
(4-SIDED SGT SYSTEM)





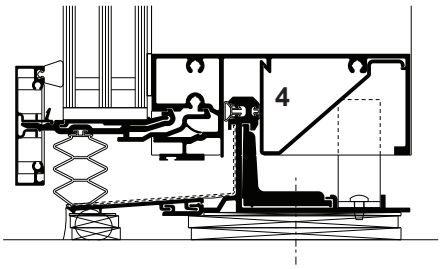






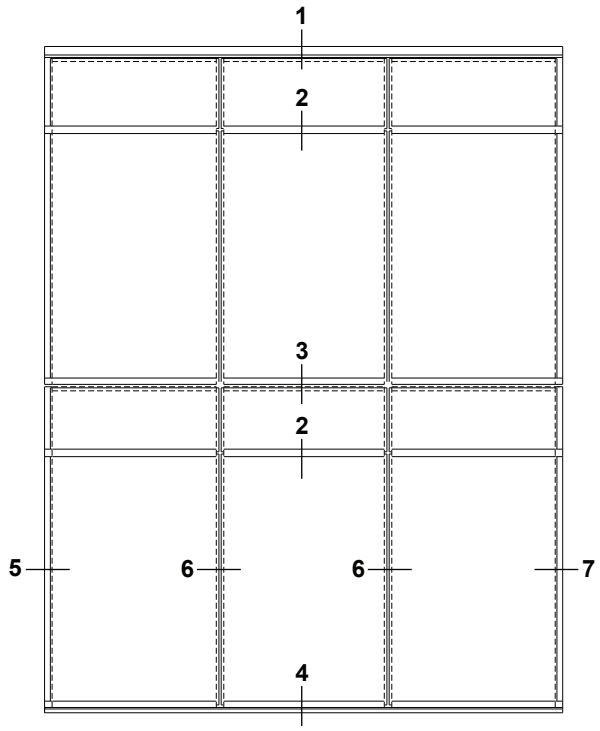
Structural Glazing Tape
(by Others)*

OPTIONAL STEEL
REINFORCING
AS REQUIRED

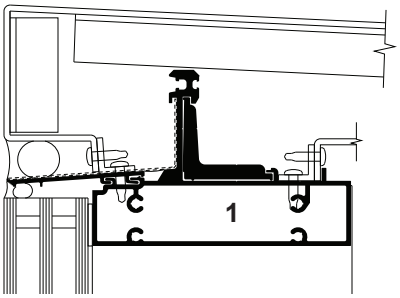


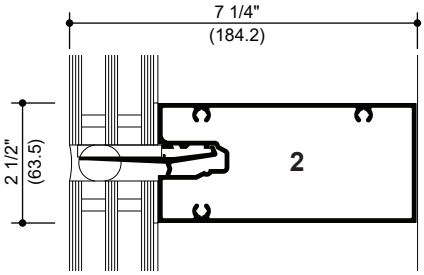
* **INSTALLER NOTE:** Installer is responsible for all required compatibility review and approvals with the Structural Glazing Tape Manufacturer and the Insulating Glass Unit Manufacturer.

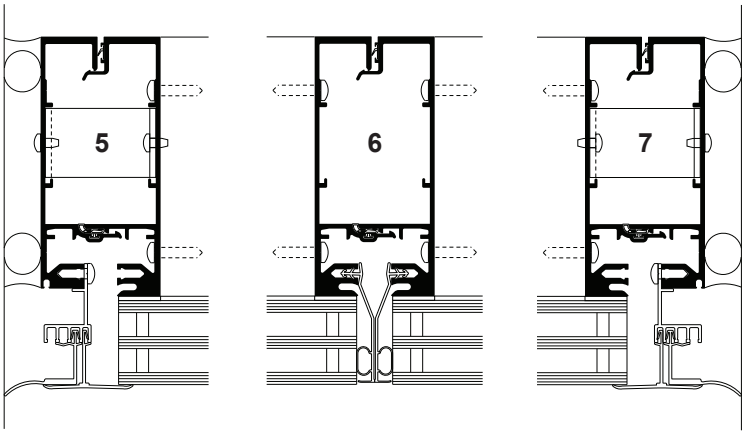
Additional information and CAD details are available at www.kawneer.com

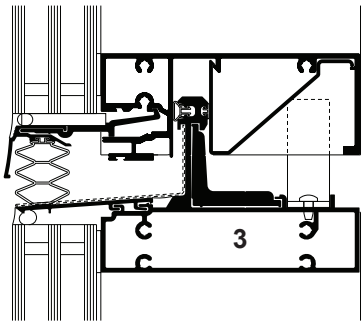


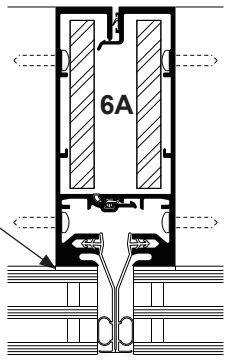
TYPICAL ELEVATION
(VERTICAL SGT SYSTEM)





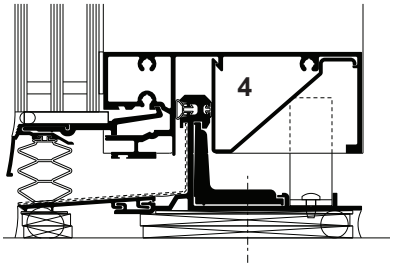






Structural Glazing Tape
(by Others)*

OPTIONAL STEEL
REINFORCING
AS REQUIRED

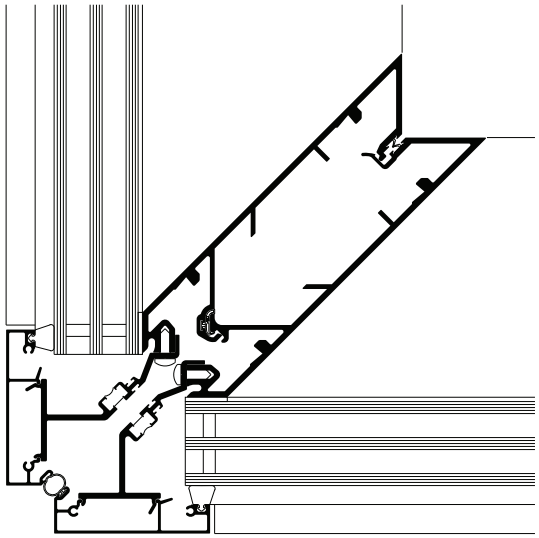


* **INSTALLER NOTE:** Installer is responsible for all required compatibility review and approvals with the Structural Glazing Tape Manufacturer and the Insulating Glass Unit Manufacturer.

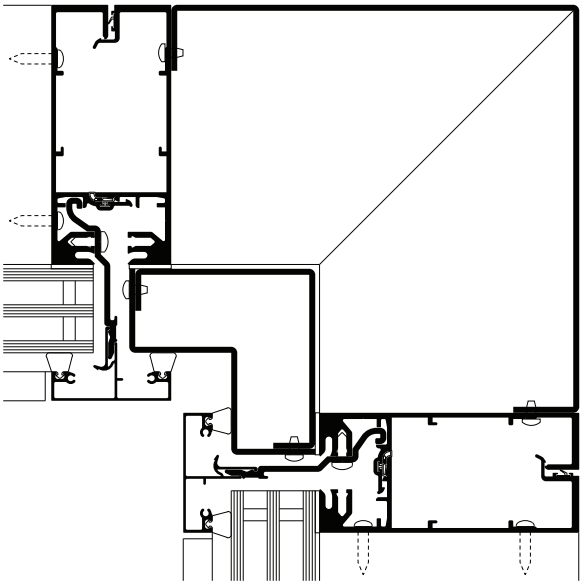
2500 UT Unitwall® System - SGT

1-3/4" INFILL CORNER DETAILS (CAPTURED SYSTEM)

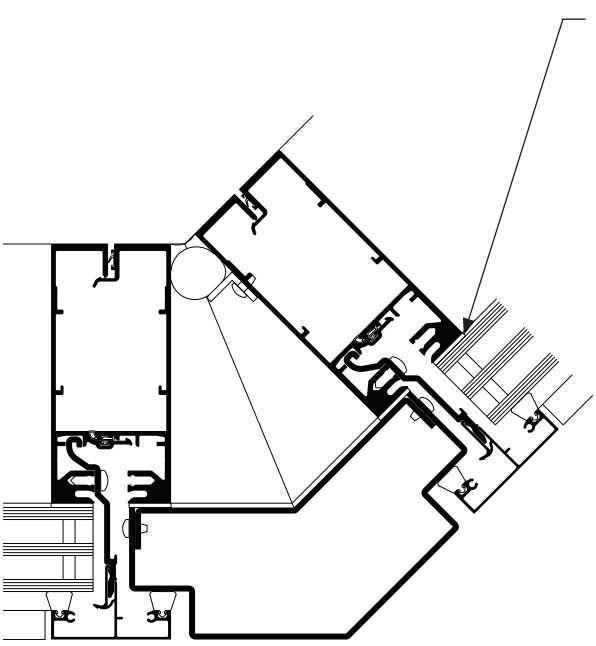
Additional information and CAD details are available at www.kawneer.com



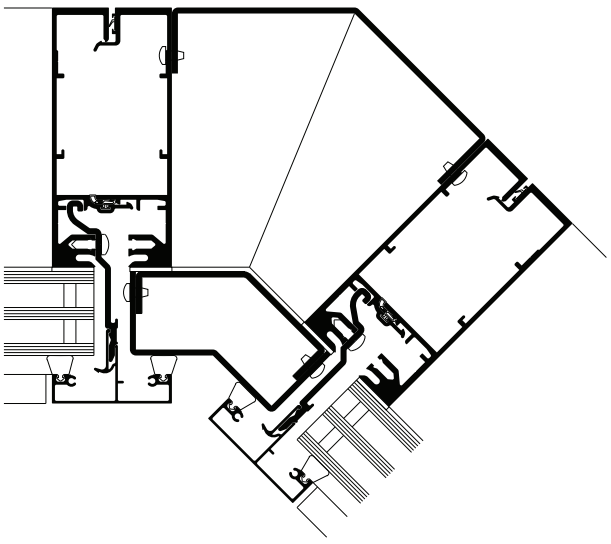
90° OUTSIDE CORNER



90° INSIDE CORNER



135° OUTSIDE CORNER



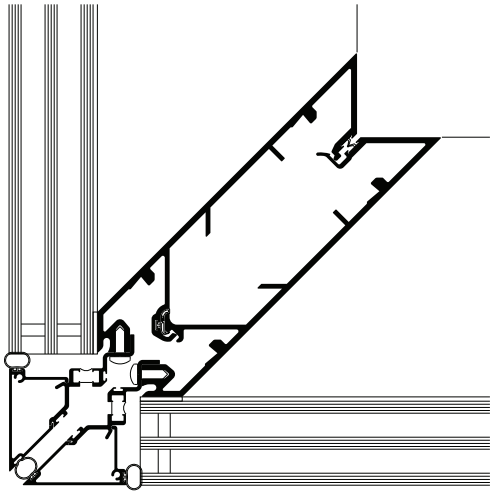
135° INSIDE CORNER

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

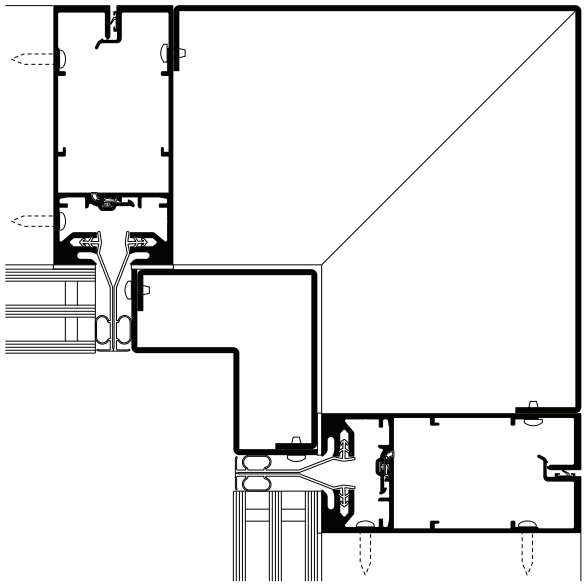
2500 UT Unitwall® System - SGT

1-3/4" INFILL CORNER DETAILS (SGT SYSTEM)

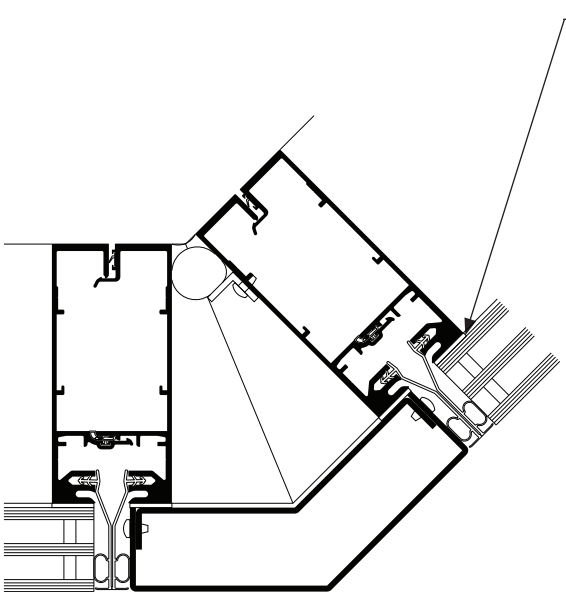
Additional information and CAD details are available at www.kawneer.com



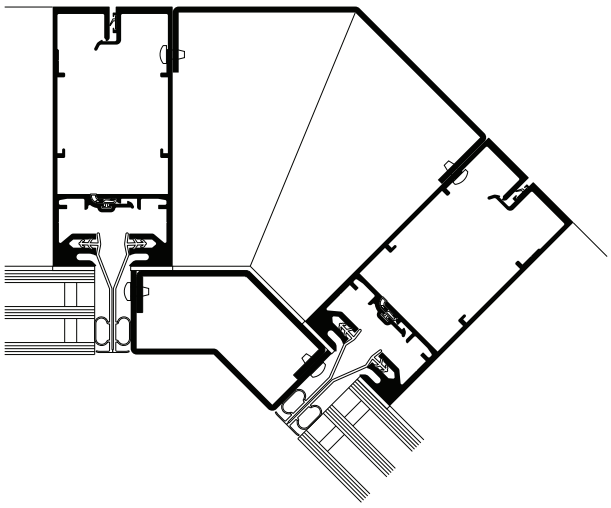
90° SGT OUTSIDE CORNER



90° SGT INSIDE CORNER



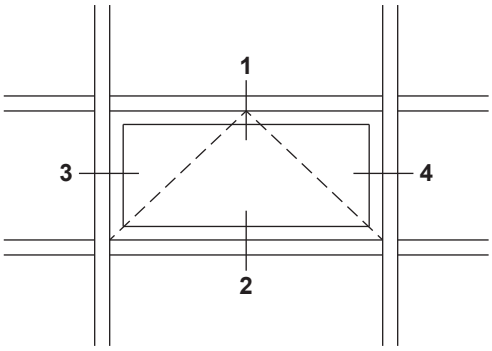
135° SGT OUTSIDE CORNER

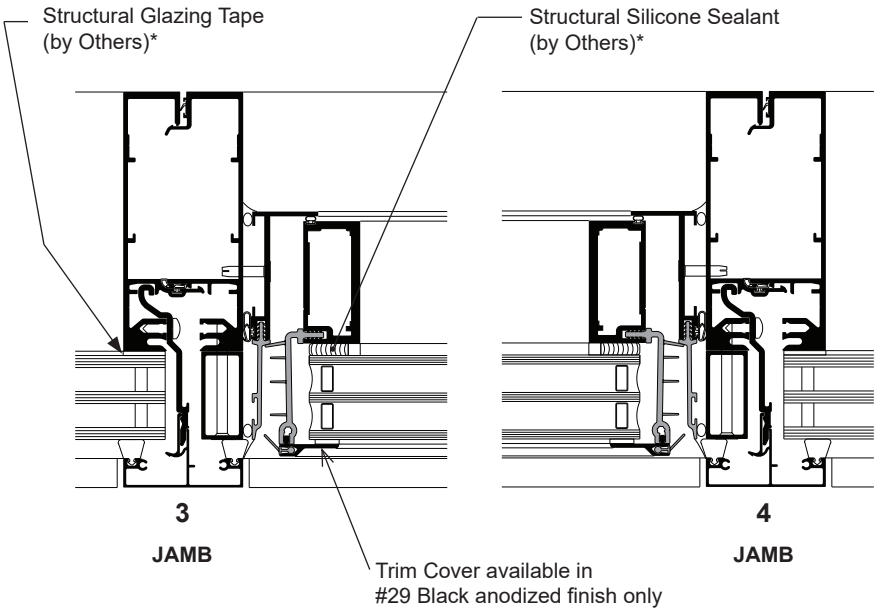


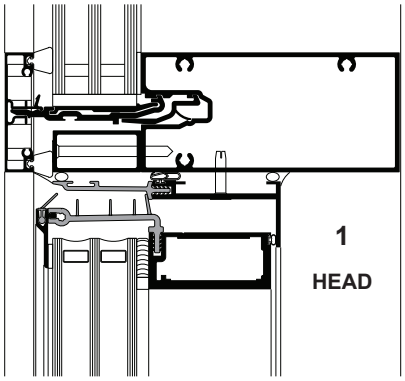
135° SGT INSIDE CORNER

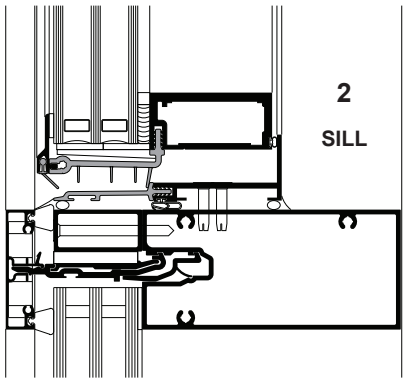
*** INSTALLER NOTE:** Installer is responsible for all required compatibility review and approvals with the Structural Glazing Tape Manufacturer and the Insulating Glass Unit Manufacturer.

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





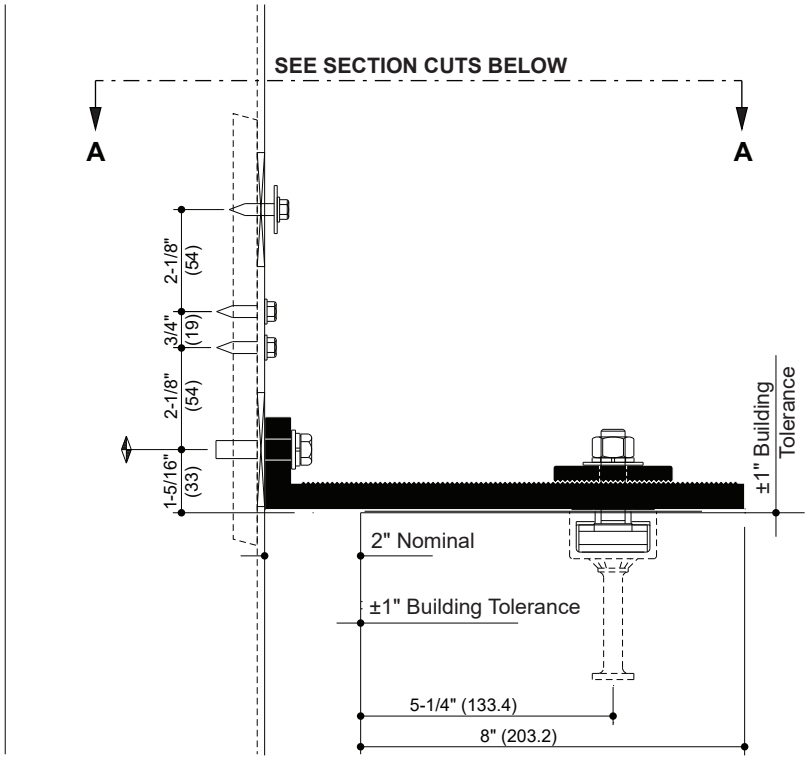


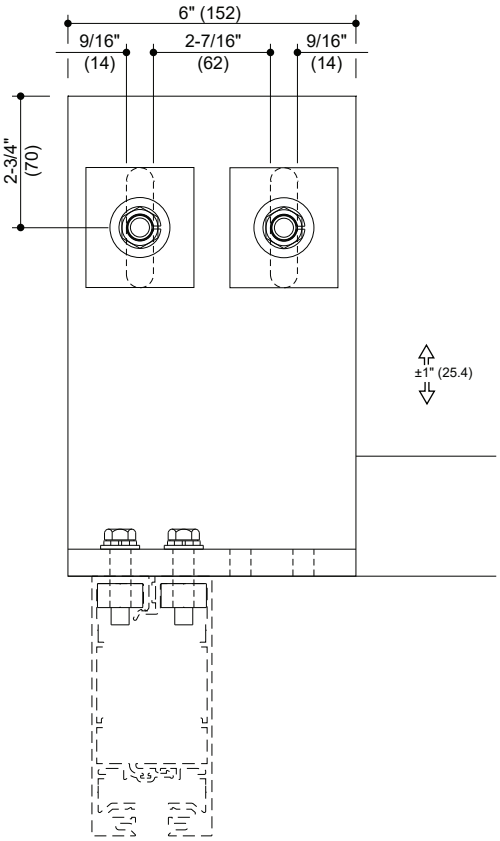


Project-Out GLASSvent® UT Window Shown
Casement Window Similar

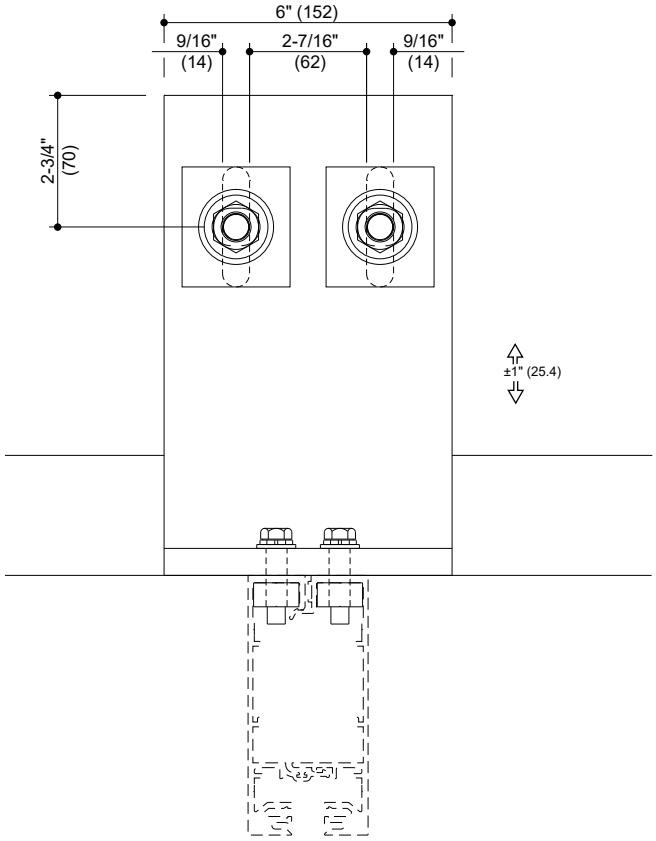
(With Captured System Only)

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





ANCHOR AT JAMB



ANCHOR AT MULLION

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 12,000 psi (82.74 MPa), STEEL 20,000 psi (137.90 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 1-3/4" (44.5) thick glass supported on two setting blocks placed at the loading points shown.

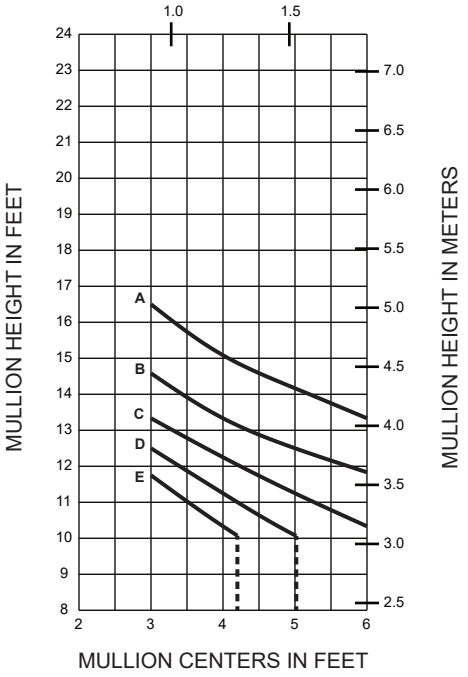
When mullion is used in a SGT application, curves become straight due to structural glazing tape limits, represented by dashed lines on chart. *Charts are for typical spans, not beginning or ending spans. C/L of stack horizontal to be at noted stool height above C/L of anchor.

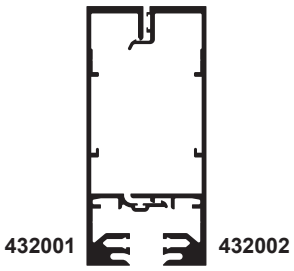
SGT Structural Glazing Tape Limit - Tape joint contact is .875".

	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)

SINGLE SPAN

MULLION CENTERS IN METERS

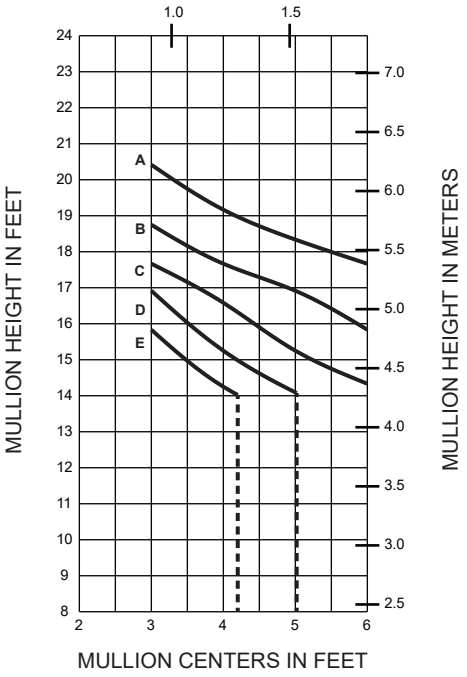




I = 10.648 (443.20 x 10^4)
S = 3.411 (52.57 x 10^3)

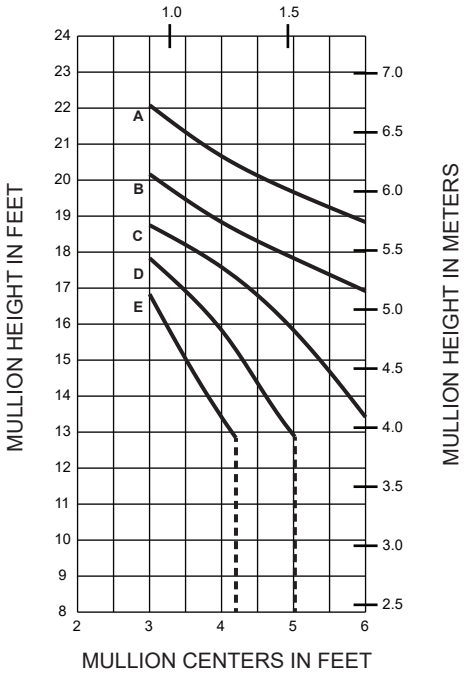
*MULTI-SPAN 24" SPLICE LOCATION

MULLION CENTERS IN METERS



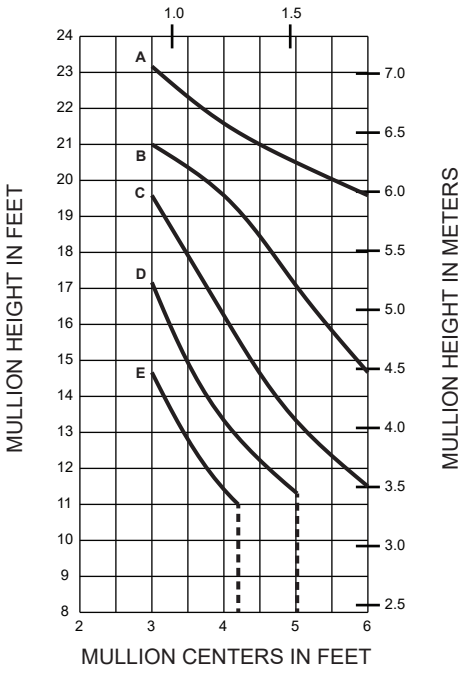
*MULTI-SPAN 30" SPLICE LOCATION

MULLION CENTERS IN METERS



*MULTI-SPAN 36" SPLICE LOCATION

MULLION CENTERS IN METERS



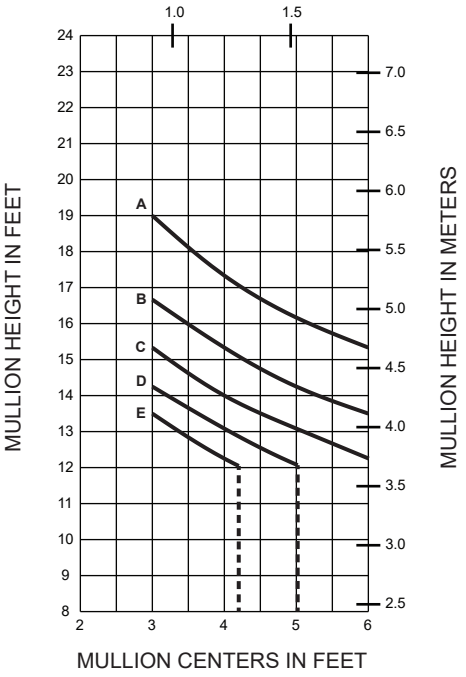
2500 UT Unitwall® System - SGT

When mullion is used in a SGT application, curves become straight due to structural glazing tape limits, represented by dashed lines on chart. *Charts are for typical spans, not beginning or ending spans. C/L of stack horizontal to be at noted stool height above C/L of anchor.

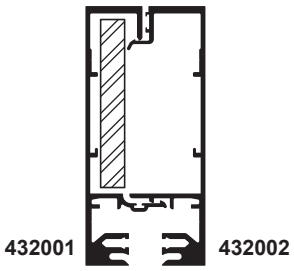
– – – – – – – SGT Structural Glazing Tape Limit - Tape joint contact is .875".

SINGLE SPAN with 1/2" x 3-1/2" Steel Bar

MULLION CENTERS IN METERS



	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)



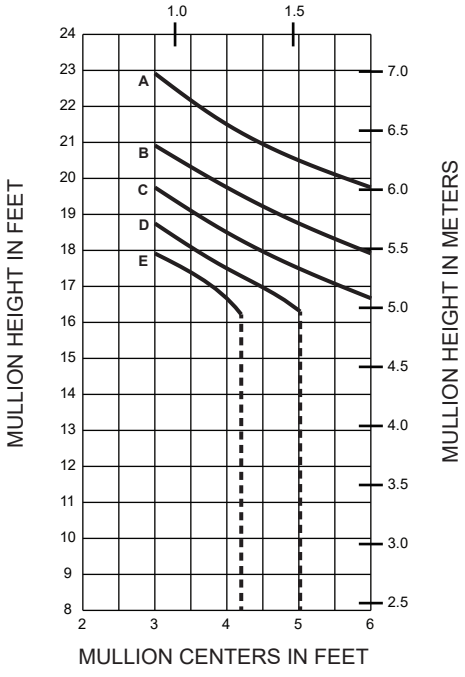
WITH 1/2" x 3-1/2" STEEL BAR

(Aluminum)
I = 10.648 (443.20 x 10^4)
S = 3.411 (52.57 x 10^3)

(Steel)
I = 1.786 (74.34 x 10^4)
S = 1.021 (16.73 x 10^3)

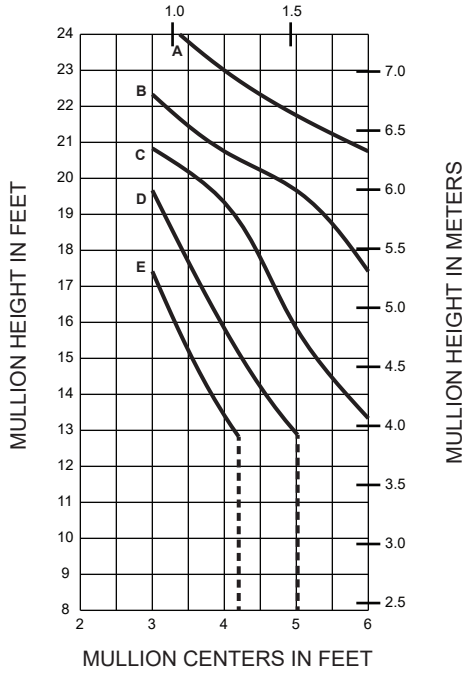
*MULTI-SPAN 24" SPLICE LOCATION with 1/2" x 3-1/2" Steel Bar

MULLION CENTERS IN METERS



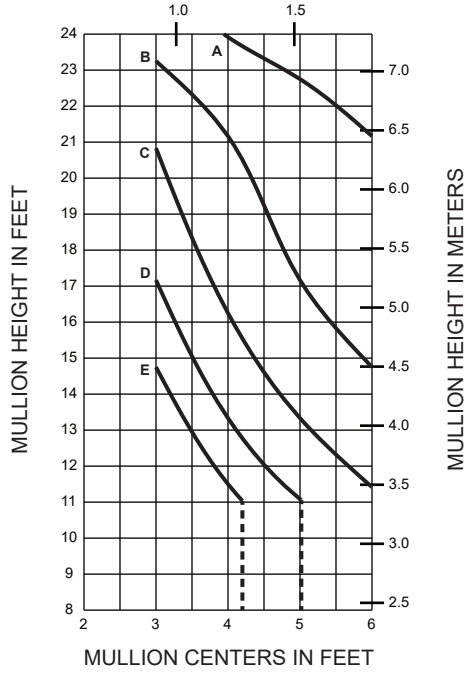
*MULTI-SPAN 30" SPLICE LOCATION with 1/2" x 3-1/2" Steel Bar

MULLION CENTERS IN METERS



*MULTI-SPAN 36" SPLICE LOCATION with 1/2" x 3-1/2" Steel Bar

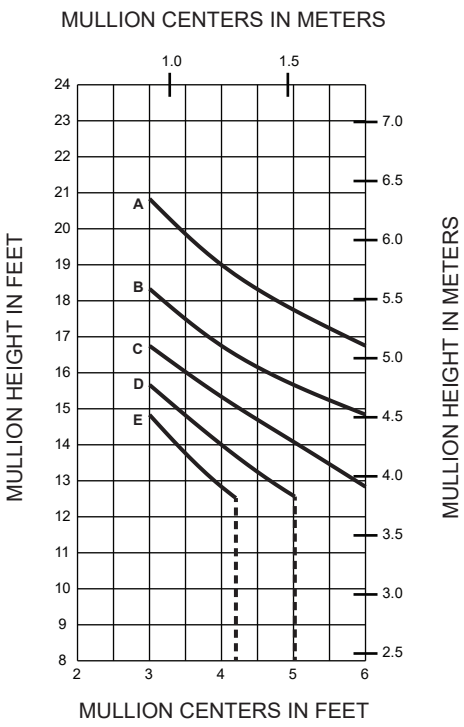
MULLION CENTERS IN METERS



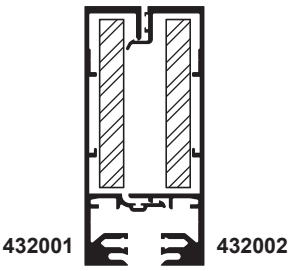
When mullion is used in a SGT application, curves become straight due to structural glazing tape limits, represented by dashed lines on chart. *Charts are for typical spans, not beginning or ending spans. C/L of stack horizontal to be at noted stool height above C/L of anchor.

SGT Structural Glazing Tape Limit - Tape joint contact is .875".

SINGLE SPAN with (2) 1/2" x 3-1/2" Steel Bars



	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)

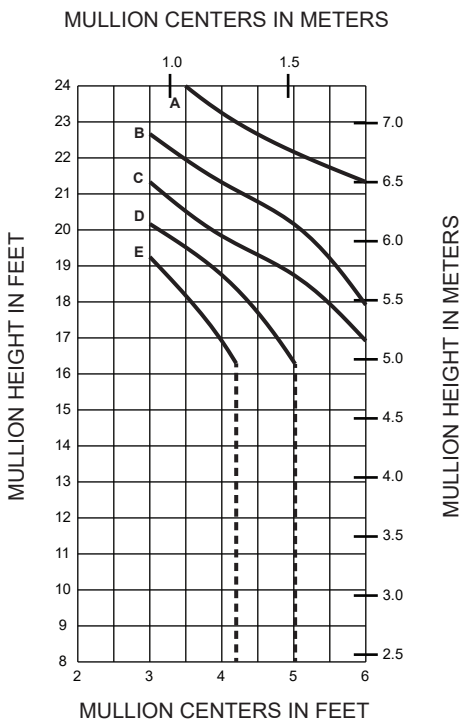


WITH (2) 1/2" x 3-1/2" STEEL BARS

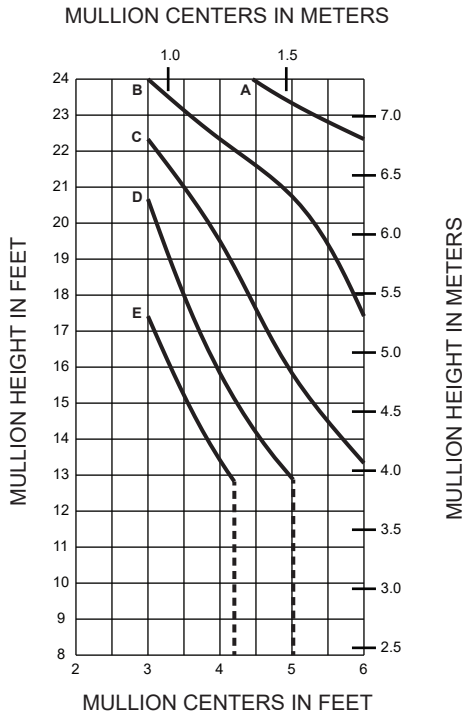
(Aluminum)
I = 10.648 (443.20 x 10^4)
S = 3.411 (52.57 x 10^3)

(Steel)
I = 3.572 (148.67 x 10^4)
S = 2.041 (33.44 x 10^3)

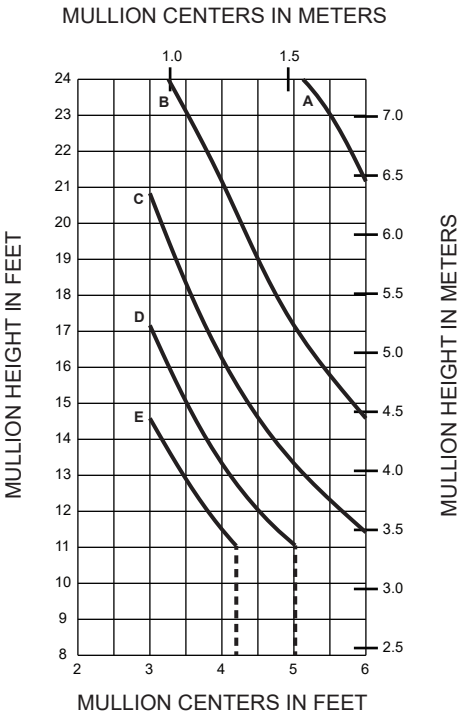
*MULTI-SPAN 24" SPLICE LOCATION with (2) 1/2" x 3-1/2" Steel Bars



*MULTI-SPAN 30" SPLICE LOCATION with (2) 1/2" x 3-1/2" Steel Bars



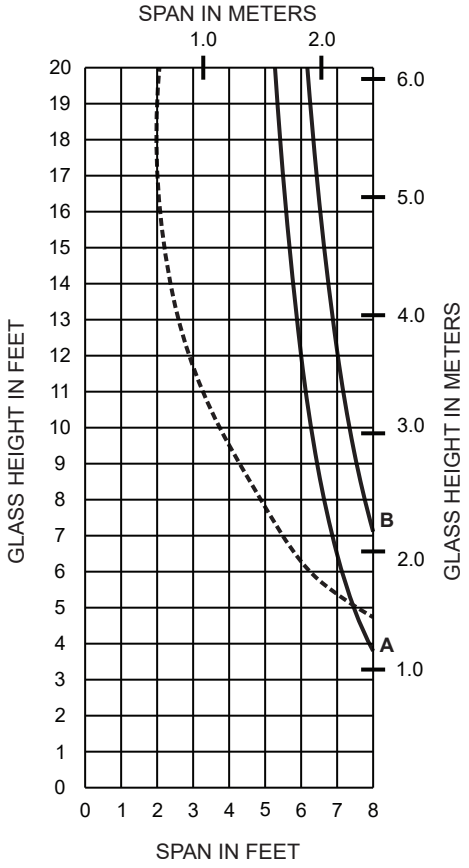
*MULTI-SPAN 36" SPLICE LOCATION with (2) 1/2" x 3-1/2" Steel Bars



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

– – – – – – – Horizontal framing above the dashed curve requires glass chair and setting blocks to be doubled up, due to maximum 125 lb. Glass weight limit per glass chair.

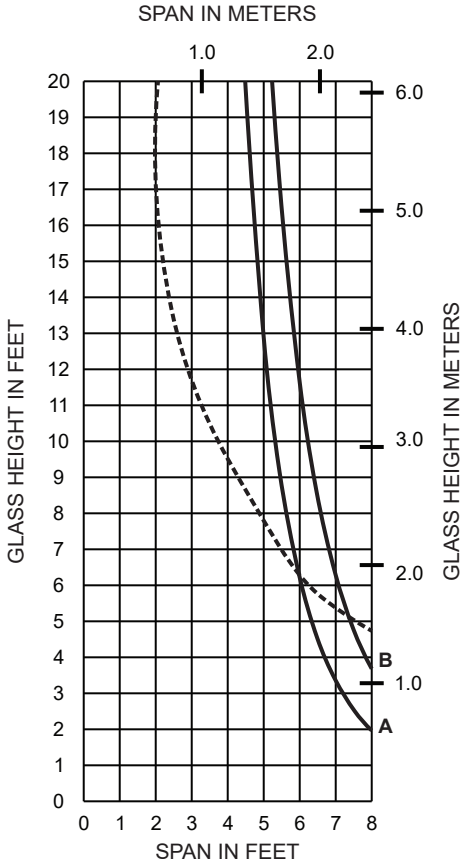
432013

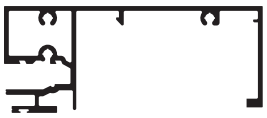


432013

I = 2.002 (83.33 x 10^4)
S = 1.540 (25.24 x 10^3)

432042





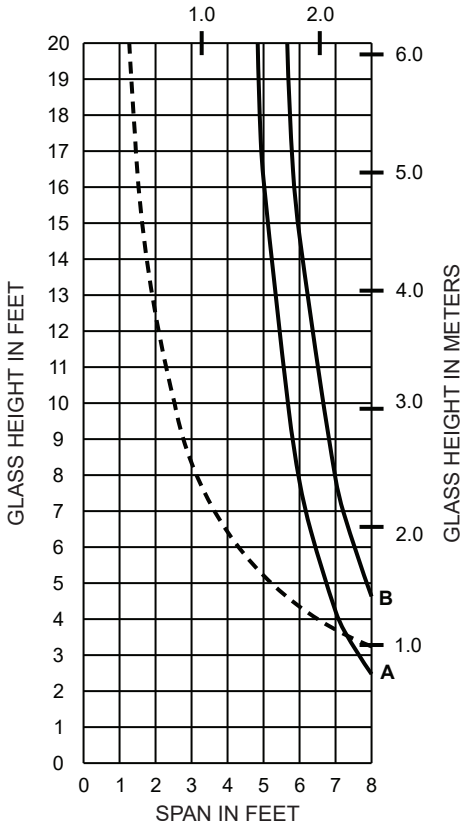
432042

I = 1.037 (43.16 x 10^4)
S = 0.745 (12.08 x 10^3)

A = 1-3/4" GLASS (1/4 POINT LOADING)
B = 1-3/4" GLASS (1/8 POINT LOADING)

– – – – – – – Horizontal framing above the dashed curve requires glass chair and setting blocks to be doubled up, due to maximum 125 lb. Glass weight limit per glass chair.

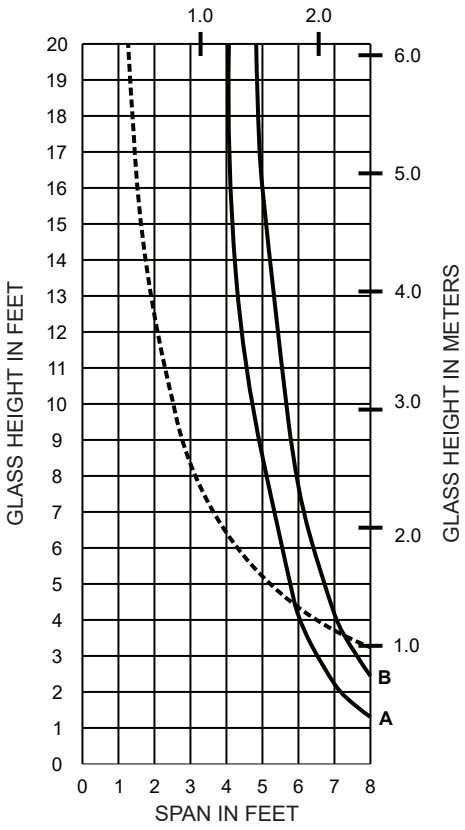
432013

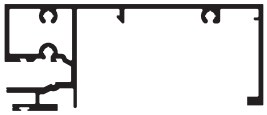


432013

I = 2.002 (83.33 x 10^4)
S = 1.540 (25.24 x 10^3)

432042



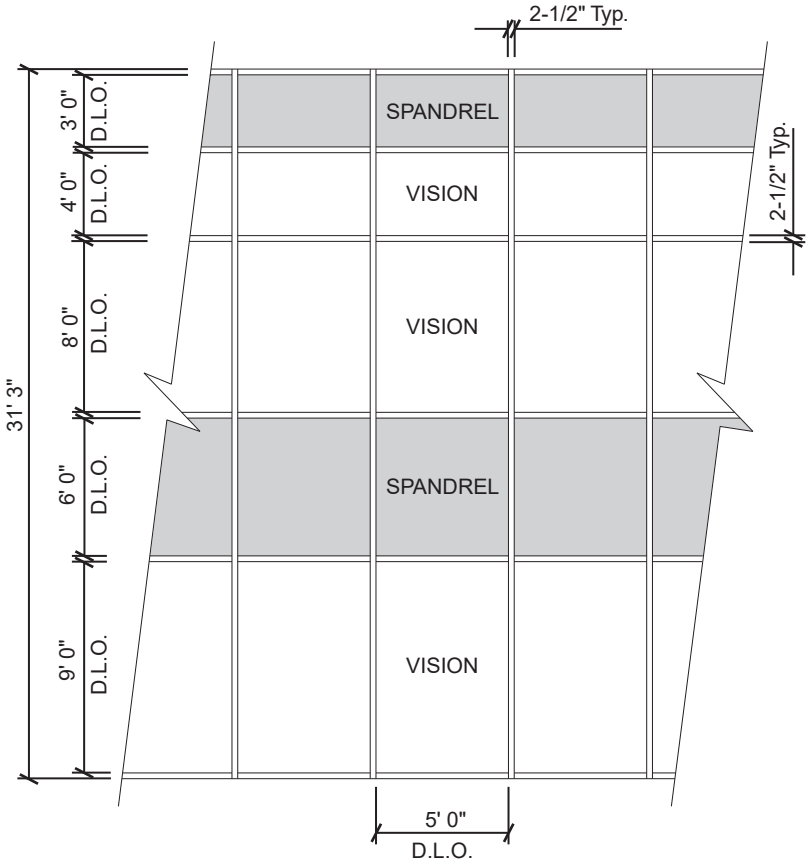


432042

I = 1.037 (43.16 x 10^4)
S = 0.745 (12.08 x 10^3)

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)



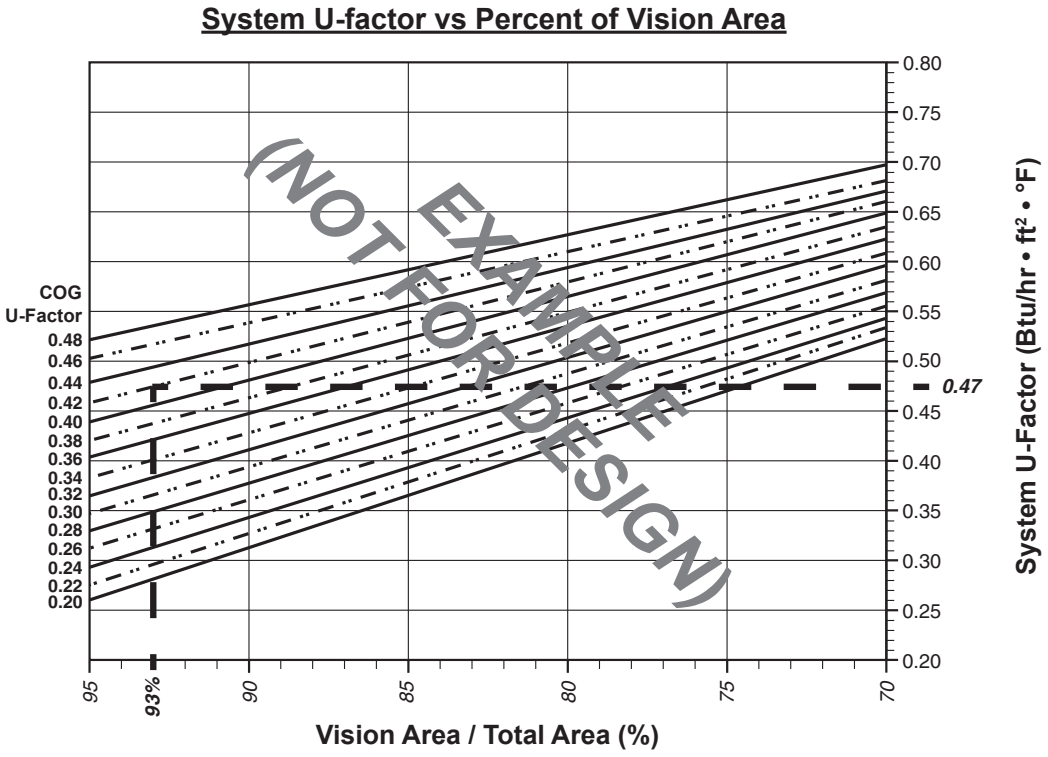
Vision Area

Example Glass U-factor	= 0.42 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

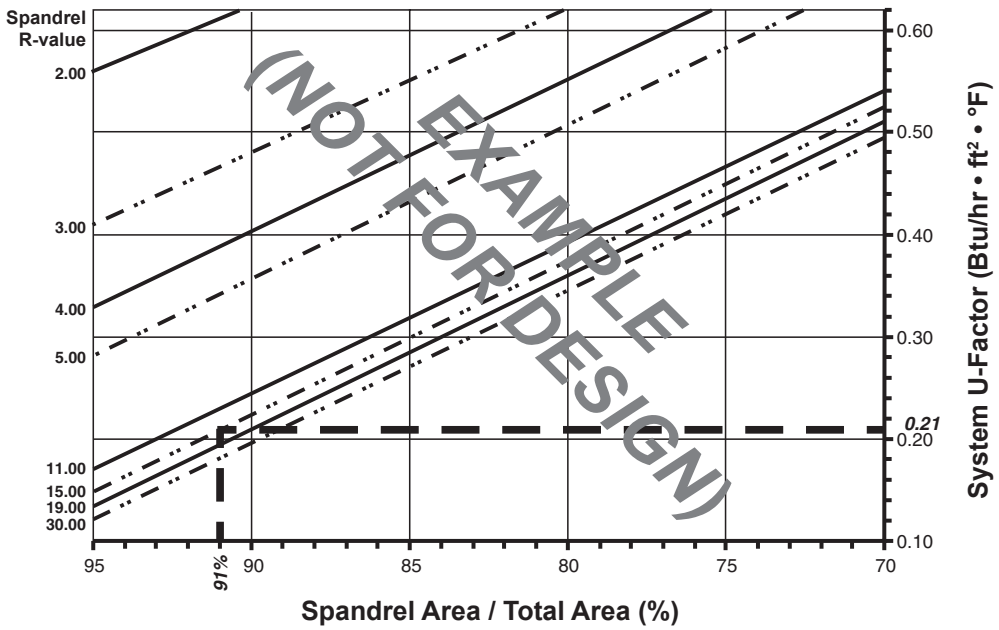
Example Spandrel R-value	= 15 (ft² · h · °F)/Btu
Spandrel Area	= 5(6 + 3) = 45.0 ft²
Total Area (Spandrel)	= 5' 2-1/2" (6' 2-1/2" + 3' 3-3/4") = 49.6 ft²
Percent of Spandrel	= (Spandrel Area ÷ Total Area)100 = (45.0 ÷ 49.6)100 = 91%

Vision Area Chart



Based on 93% glass and center of glass U-Factor of 0.42
System U-Factor is equal to 0.47 Btu/hr • ft² • °F

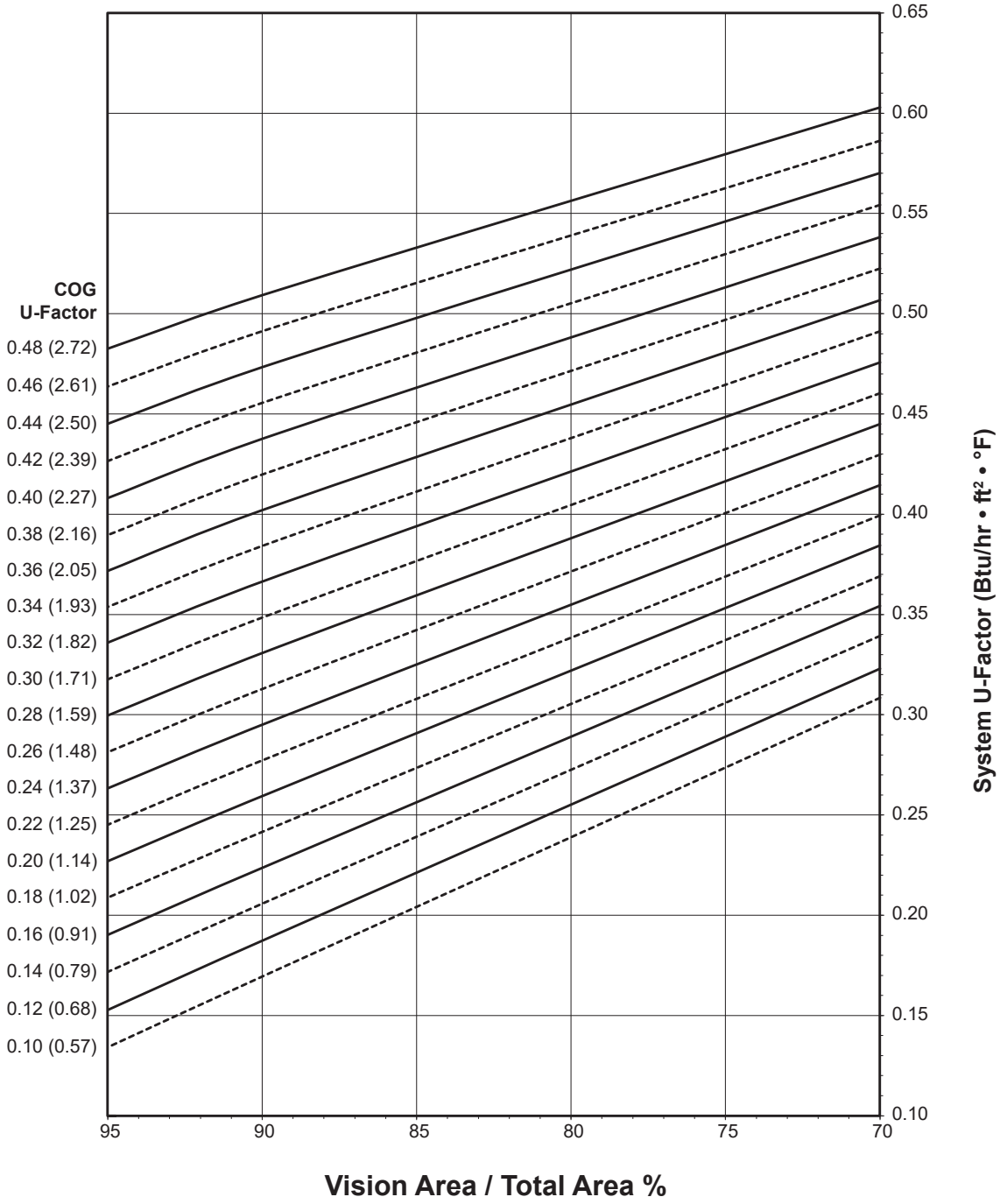
Spandrel Area Chart



Based on 91% spandrel and center of spandrel R-value of 15,
system U-factor is equal to 0.21 Btu/hr • ft² • °F

CAPTURED SYSTEM
1" Double Glazed - Warm-Edge Glazing Spacer

System U-Factor vs Percent of Glass Area

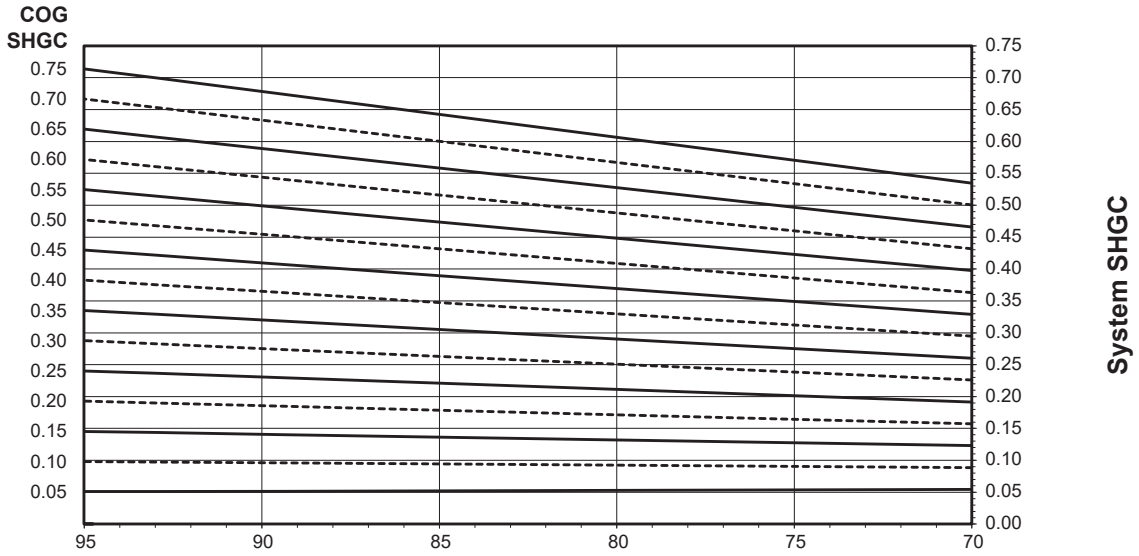


Notes for System U-Factor, SHGC and VT charts:
For glass values that are not listed, linear interpolation is permitted.
Glass properties are based on center of glass values and are obtained from your glass supplier.

CAPTURED SYSTEM

1" Double Glazed - Warm-Edge Glazing Spacer

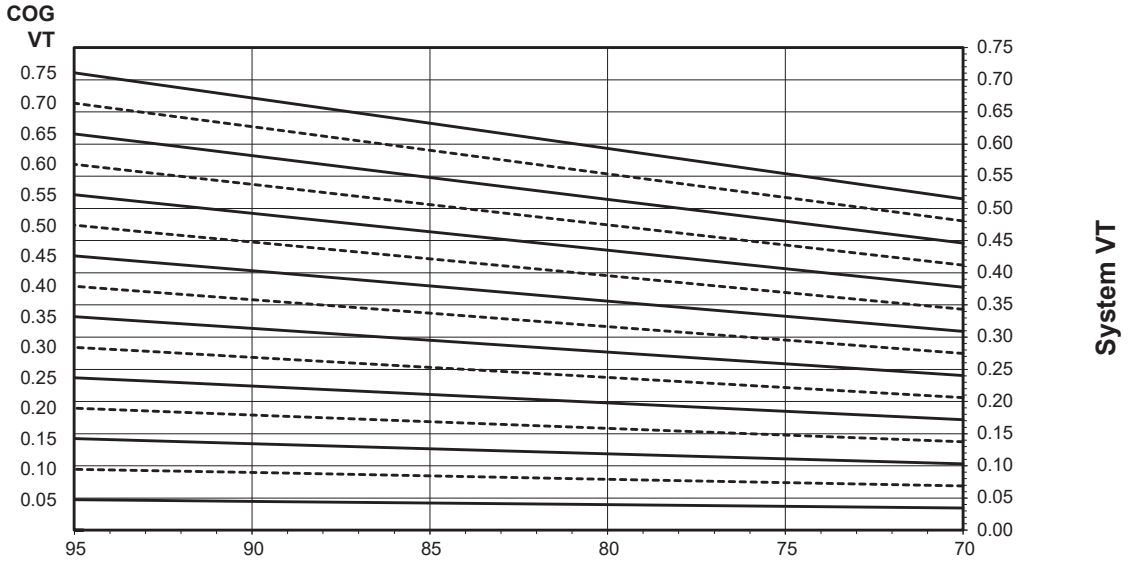
System Solar Heat Gain Coefficient (SHGC) vs Percent of Vision Area



Vision Area / Total Area %
(Total Daylight Opening / Projected Area)

Charts are generated per AAMA 507

Visible Transmittance (VT) vs Percent of Vision Area



Vision Area / Total Area %
(Total Daylight Opening / Projected 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	0.48
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	0.33
0.26	0.32
0.24	0.30
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	0.17

CAPTURED SYSTEM
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	0.67
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

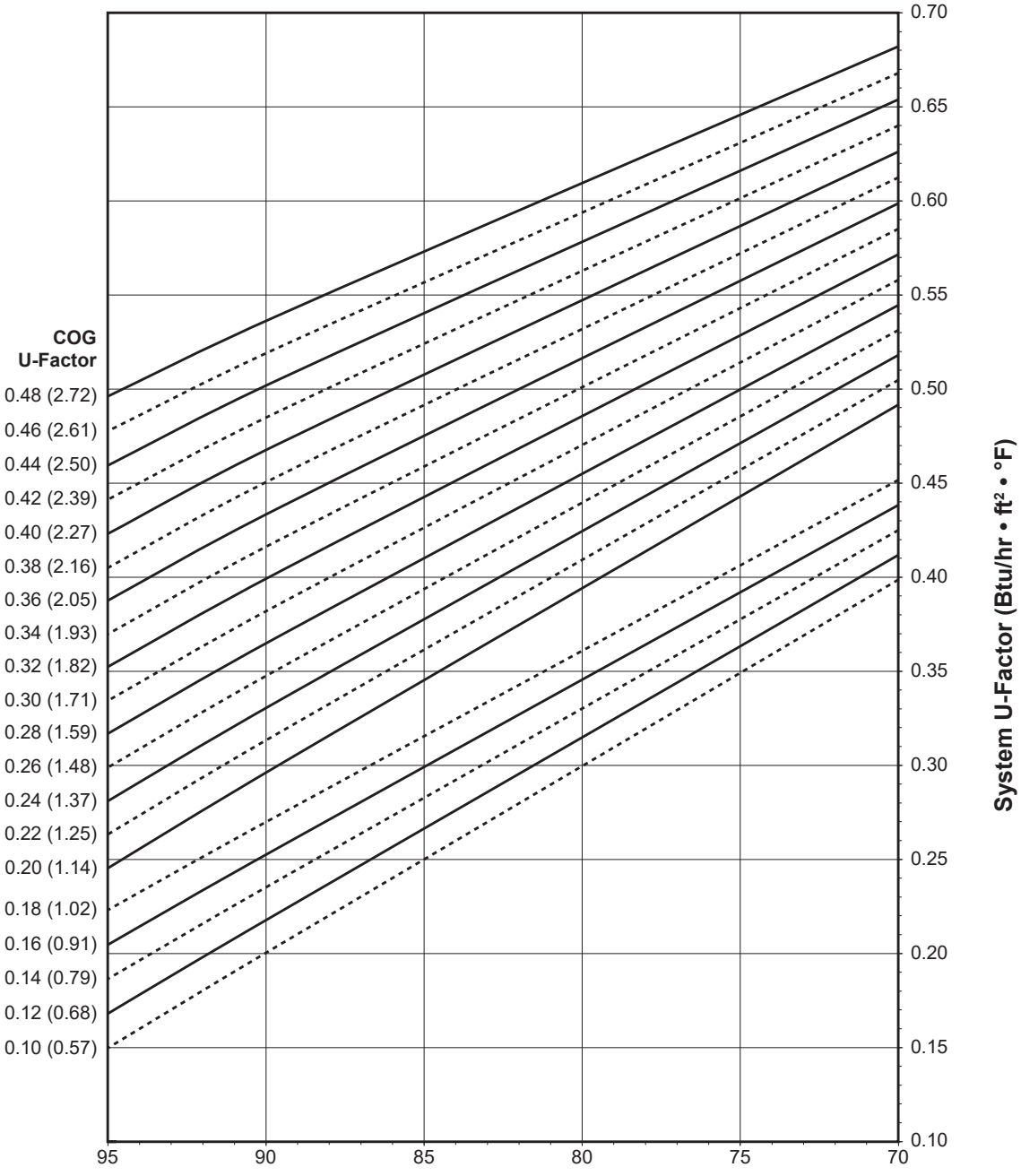
Visible Transmittance [2]

Glass VT [3]	Overall VT [4]
0.75	0.67
0.70	0.62
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

CAPTURED SYSTEM

1" Double Glazed - Aluminum Glazing Spacer

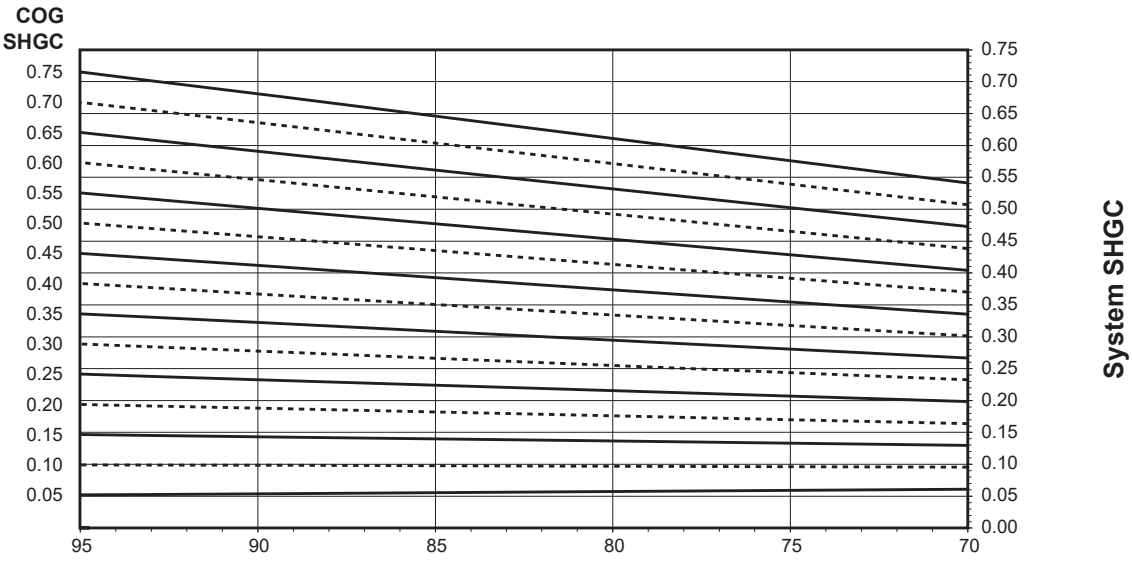
System U-Factor vs Percent of Glass Area



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.

CAPTURED SYSTEM
1" Double Glazed - Aluminum Glazing Spacer

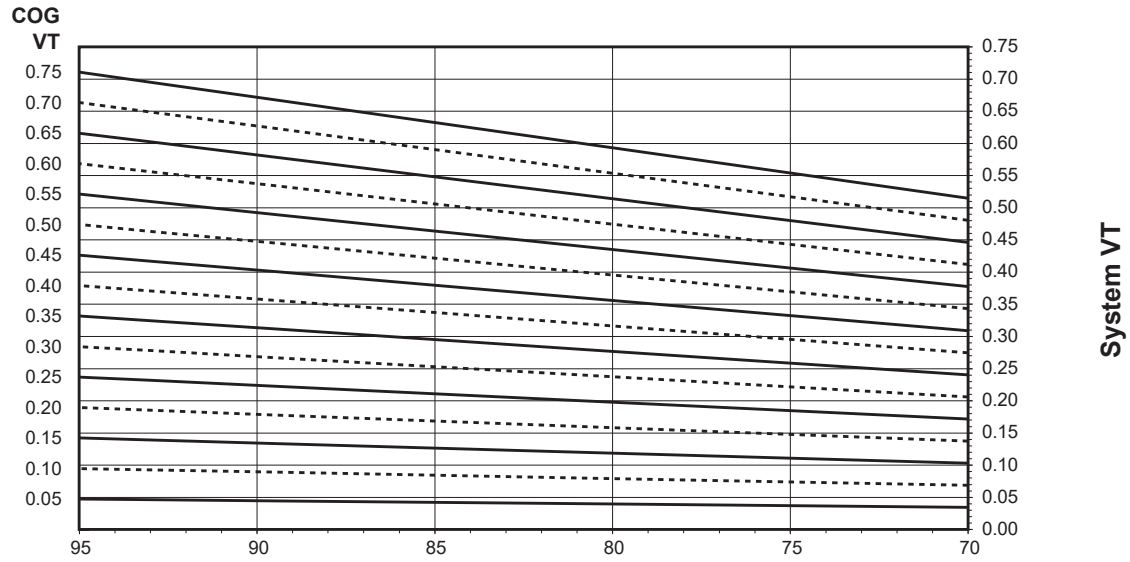
System Solar Heat Gain Coefficient (SHGC) vs Percent of Vision Area



Vision Area / Total Area %
(Total Daylight Opening / Projected Area)

Charts are generated per AAMA 507

Visible Transmittance (VT) vs Percent of Vision Area



Vision Area / Total Area %
(Total Daylight Opening / Projected Area)

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

Glass U-Factor [3]	Overall U-Factor [4]
0.48	0.54
0.46	0.52
0.44	0.51
0.42	0.49
0.40	0.47
0.38	0.46
0.36	0.44
0.34	0.42
0.32	0.40
0.30	0.39
0.28	0.37
0.26	0.35
0.24	0.34
0.22	0.32
0.20	0.30
0.18	0.27
0.16	0.26
0.14	0.24
0.12	0.22
0.10	0.21

CAPTURED SYSTEM
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]

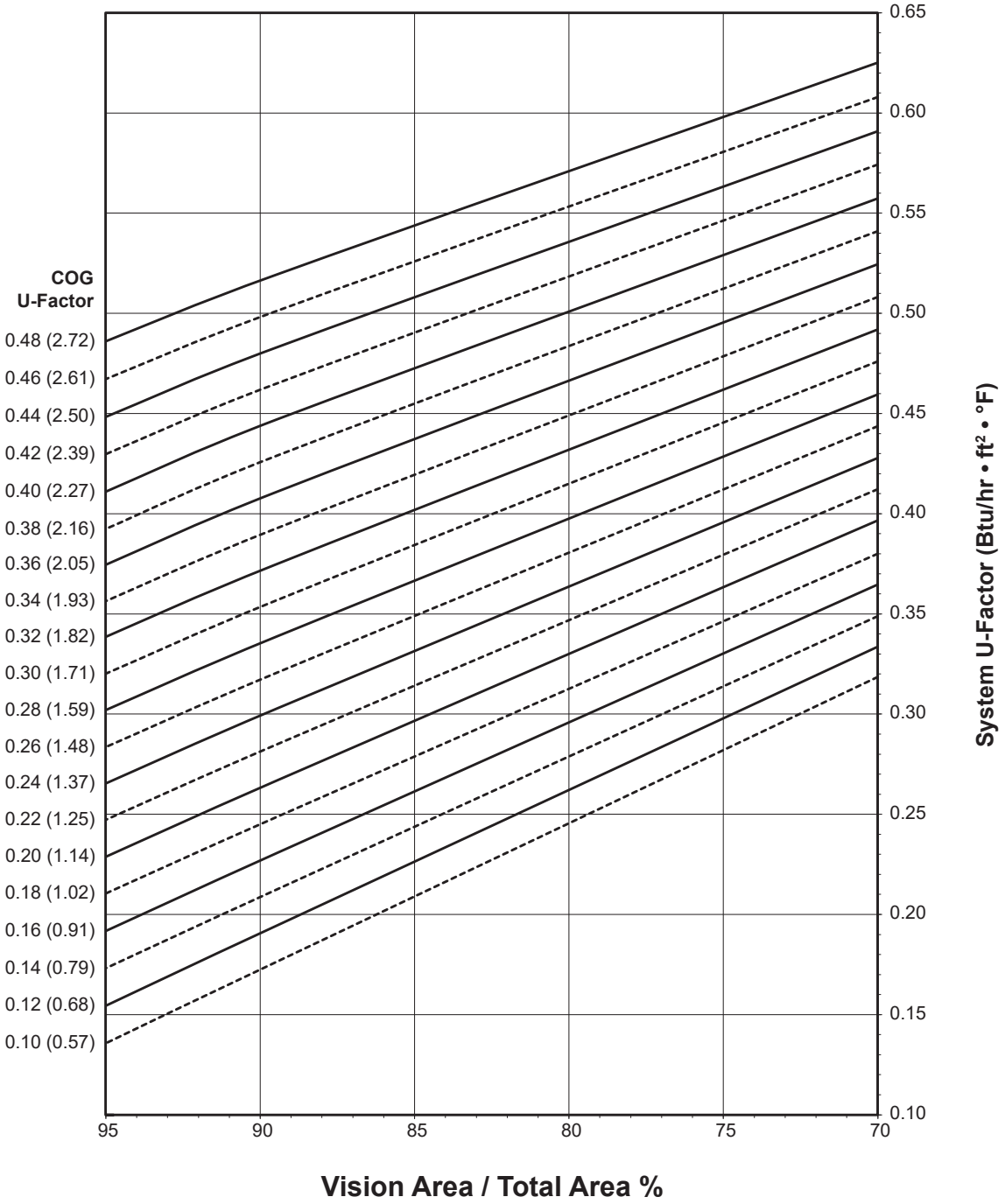
Glass SHGC [3]	Overall SHGC [4]
0.75	0.68
0.70	0.63
0.65	0.59
0.60	0.54
0.55	0.50
0.50	0.45
0.45	0.41
0.40	0.37
0.35	0.32
0.30	0.28
0.25	0.23
0.20	0.19
0.15	0.14
0.10	0.10
0.05	0.05

Visible Transmittance [2]

Glass VT [3]	Overall VT [4]
0.75	0.67
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

4-SIDED SGT SYSTEM
1" Double Glazed - Warm-Edge Glazing Spacer

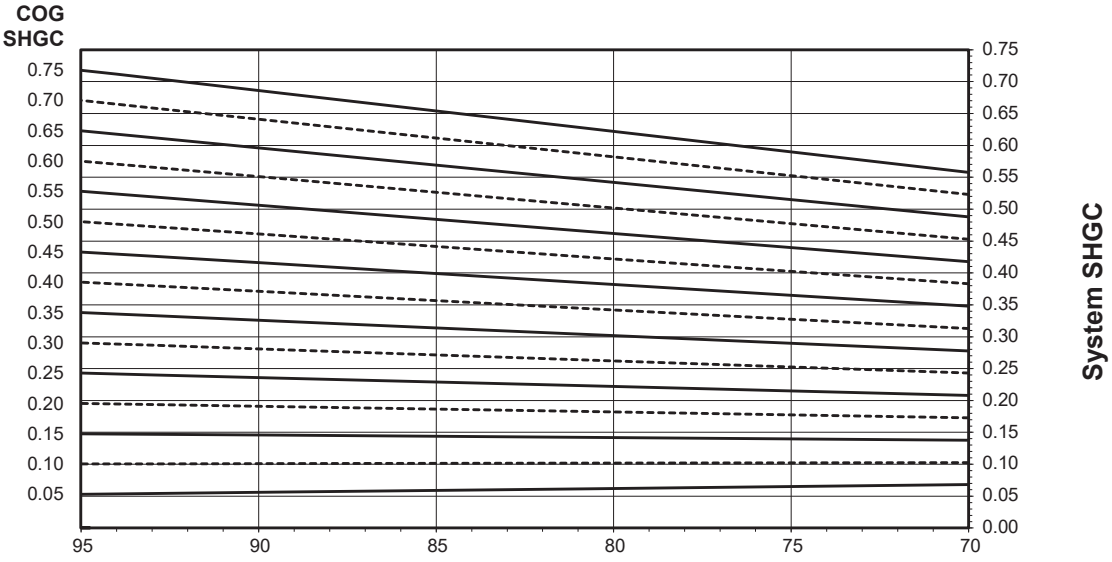
System U-Factor vs Percent of Glass Area



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.

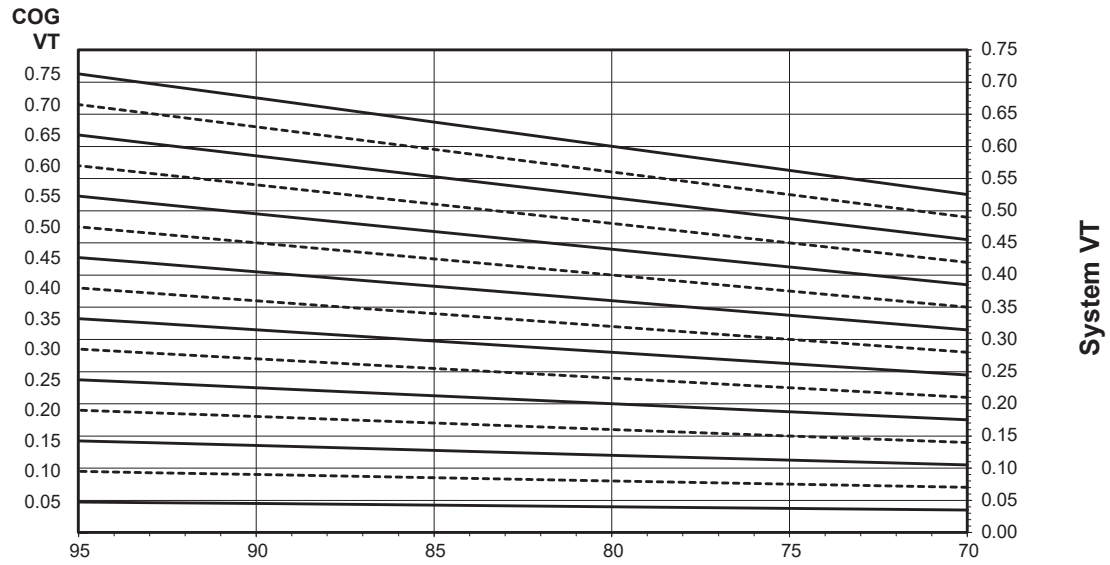
4-SIDED SGT SYSTEM
1" Double Glazed - Warm-Edge Glazing Spacer

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



Charts are generated per AAMA 507

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	0.52
0.46	0.50
0.44	0.48
0.42	0.48
0.40	0.45
0.38	0.43
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	0.28
0.20	0.27
0.18	0.25
0.16	0.23
0.14	0.21
0.12	0.19
0.10	0.18

4-SIDED SGT SYSTEM
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]

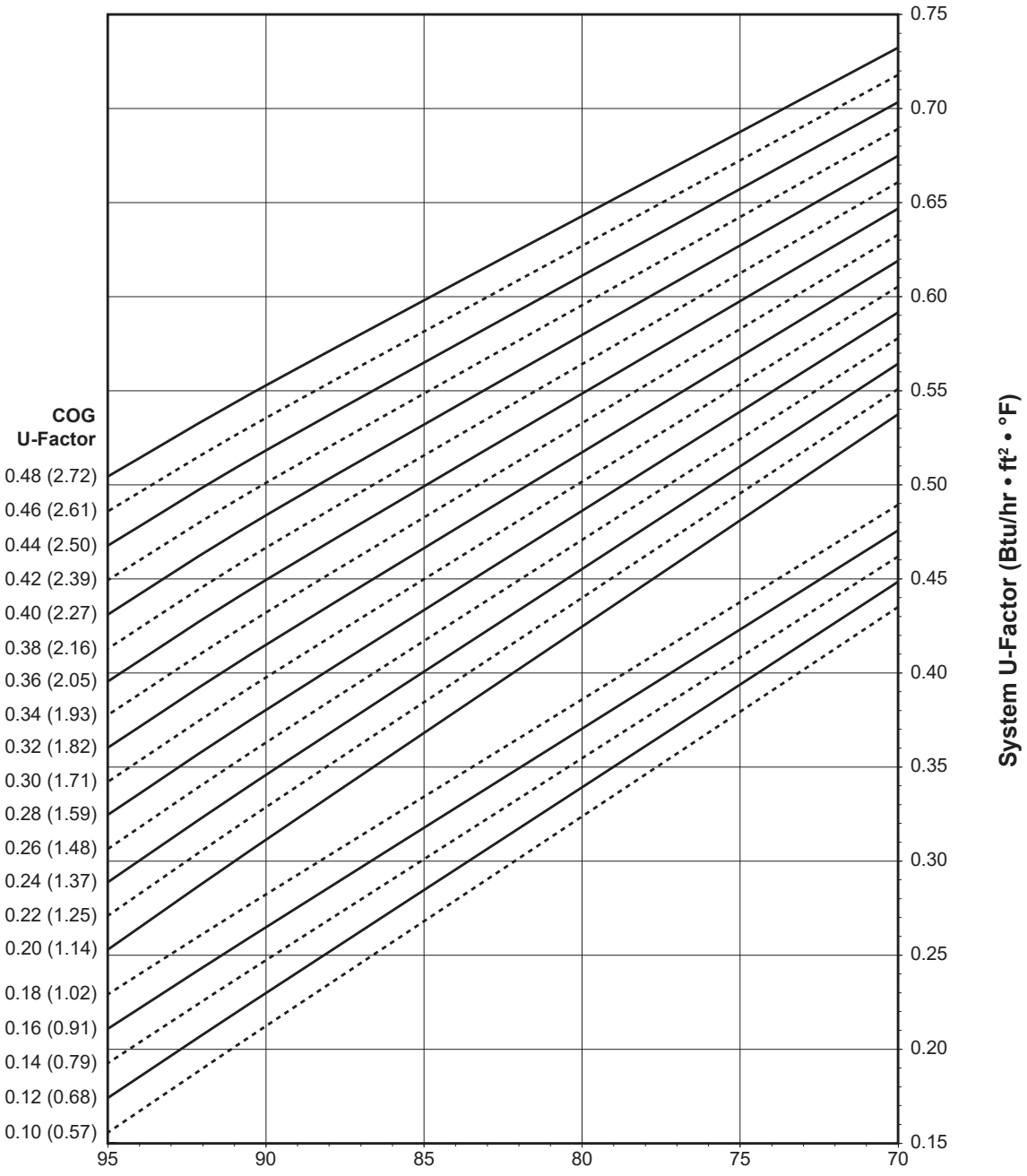
Glass SHGC [3]	Overall SHGC [4]
0.75	0.68
0.70	0.64
0.65	0.59
0.60	0.55
0.55	0.50
0.50	0.46
0.45	0.41
0.40	0.37
0.35	0.32
0.30	0.28
0.25	0.24
0.20	0.19
0.15	0.15
0.10	0.10
0.05	0.06

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-SIDED SGT SYSTEM
1" Double Glazed - Aluminum Glazing Spacer

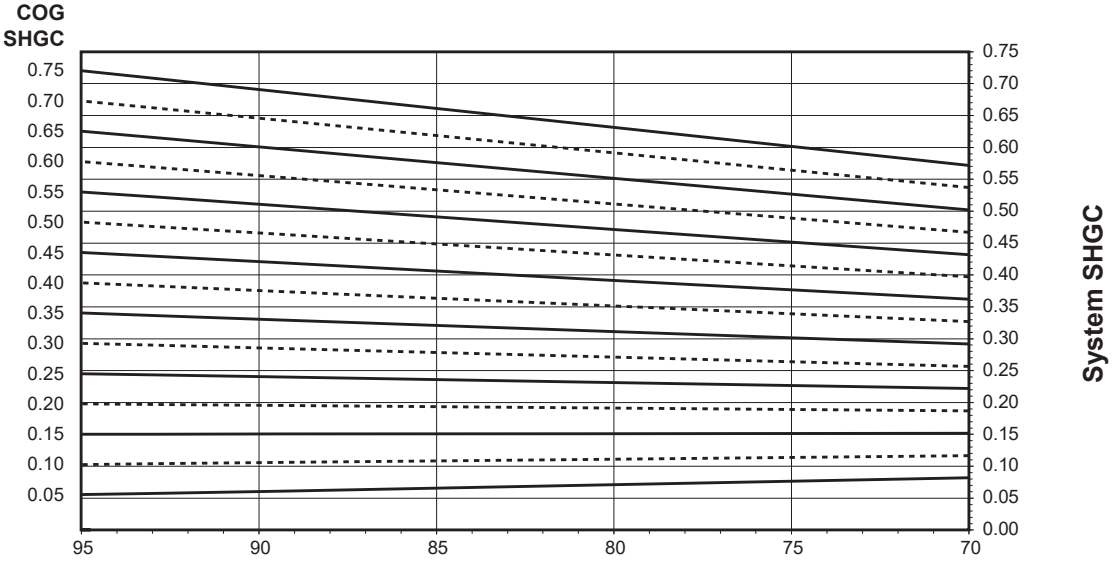
System U-Factor vs Percent of Glass Area



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-SIDED SGT SYSTEM
1" Double Glazed - Aluminum Glazing Spacer

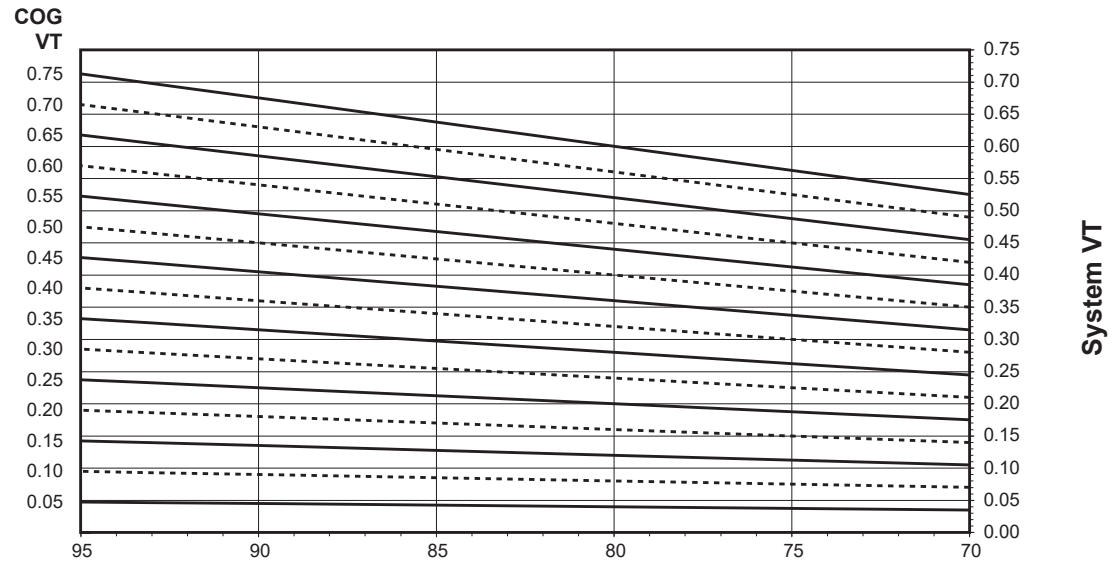
System Solar Heat Gain Coefficient (SHGC) vs Percent of Vision Area



Vision Area / Total Area %
(Total Daylight Opening / Projected Area)

Charts are generated per AAMA 507

Visible Transmittance (VT) vs Percent of Vision Area



Vision Area / Total Area %
(Total Daylight Opening / Projected Area)

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

Glass U-Factor [3]	Overall U-Factor [4]
0.48	0.56
0.46	0.54
0.44	0.52
0.42	0.51
0.40	0.49
0.38	0.47
0.36	0.45
0.34	0.44
0.32	0.42
0.30	0.40
0.28	0.39
0.26	0.37
0.24	0.35
0.22	0.33
0.20	0.32
0.18	0.29
0.16	0.27
0.14	0.25
0.12	0.24
0.10	0.22

4-SIDED SGT SYSTEM
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]

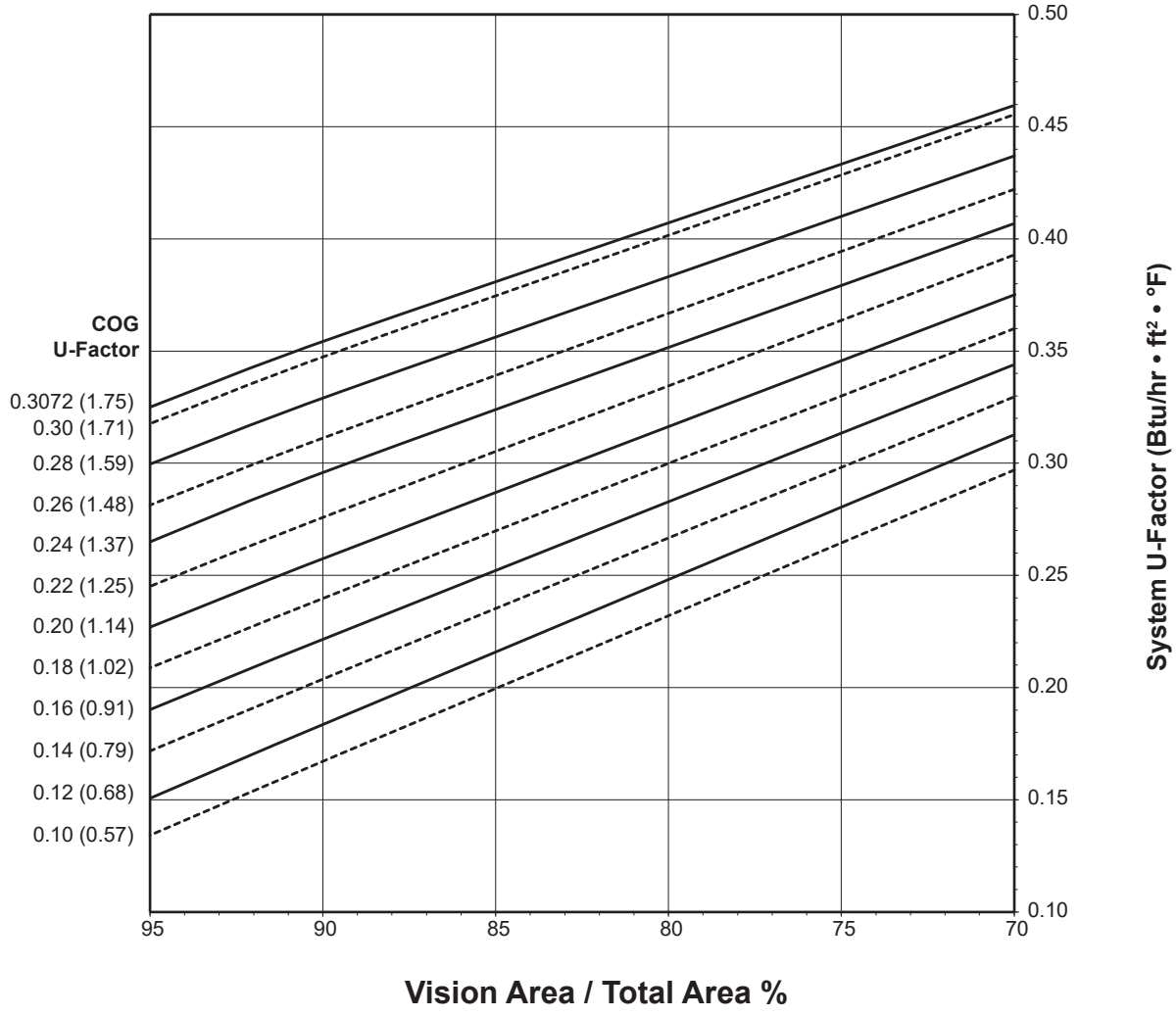
Glass SHGC [3]	Overall SHGC [4]
0.75	0.69
0.70	0.64
0.65	0.60
0.60	0.55
0.55	0.51
0.50	0.46
0.45	0.42
0.40	0.37
0.35	0.33
0.30	0.28
0.25	0.24
0.20	0.20
0.15	0.15
0.10	0.11
0.05	0.06

Visible 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

CAPTURED SYSTEM
1-3/4" Triple Glazed - Warm-Edge Glazing Spacer

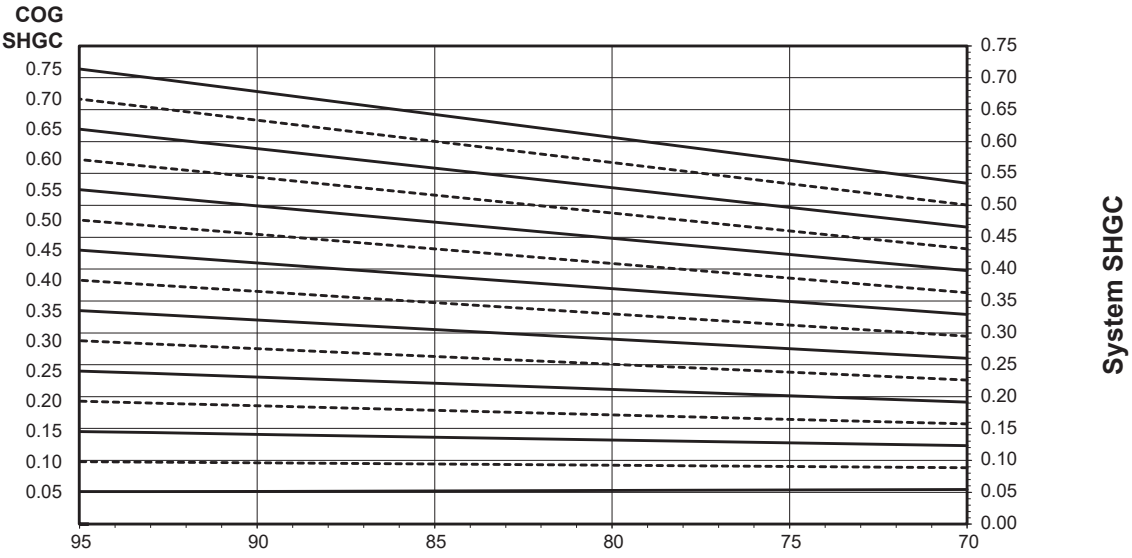
System U-Factor vs Percent of Glass Area



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.

CAPTURED SYSTEM
1-3/4" Triple Glazed - Warm-Edge Glazing Spacer

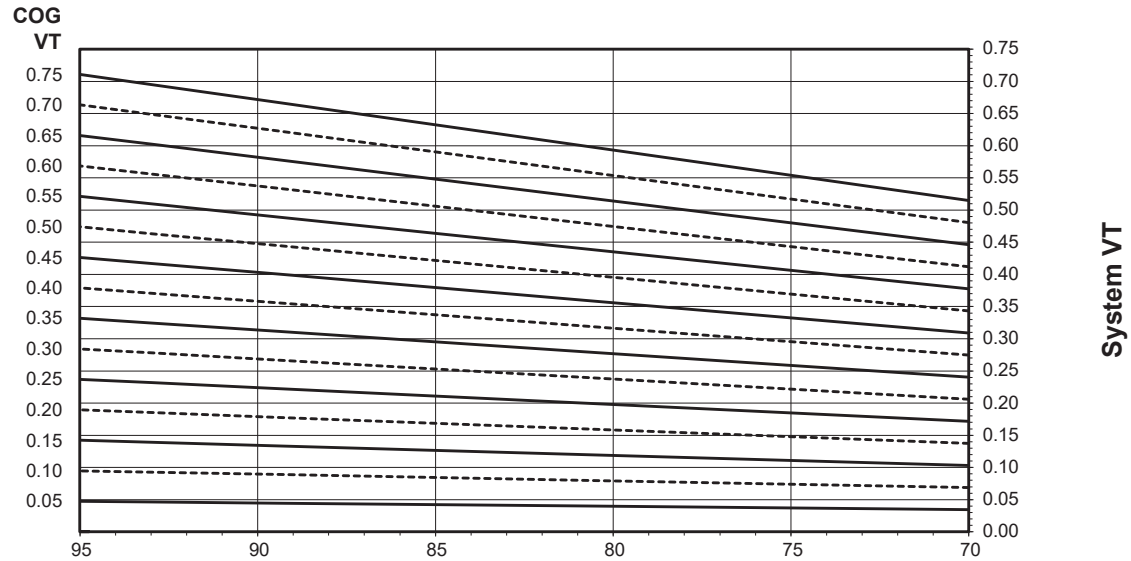
System Solar Heat Gain Coefficient (SHGC) vs Percent of Vision Area



Vision Area / Total Area %
(Total Daylight Opening / Projected Area)

Charts are generated per AAMA 507

Visible Transmittance (VT) vs Percent of Vision Area



Vision Area / Total Area %
(Total Daylight Opening / Projected Area)

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

Glass U-Factor [3]	Overall U-Factor [4]
0.31	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
0.18	0.24
0.16	0.22
0.14	0.21
0.12	0.19
0.10	0.17

CAPTURED SYSTEM
1-3/4 Triple 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]

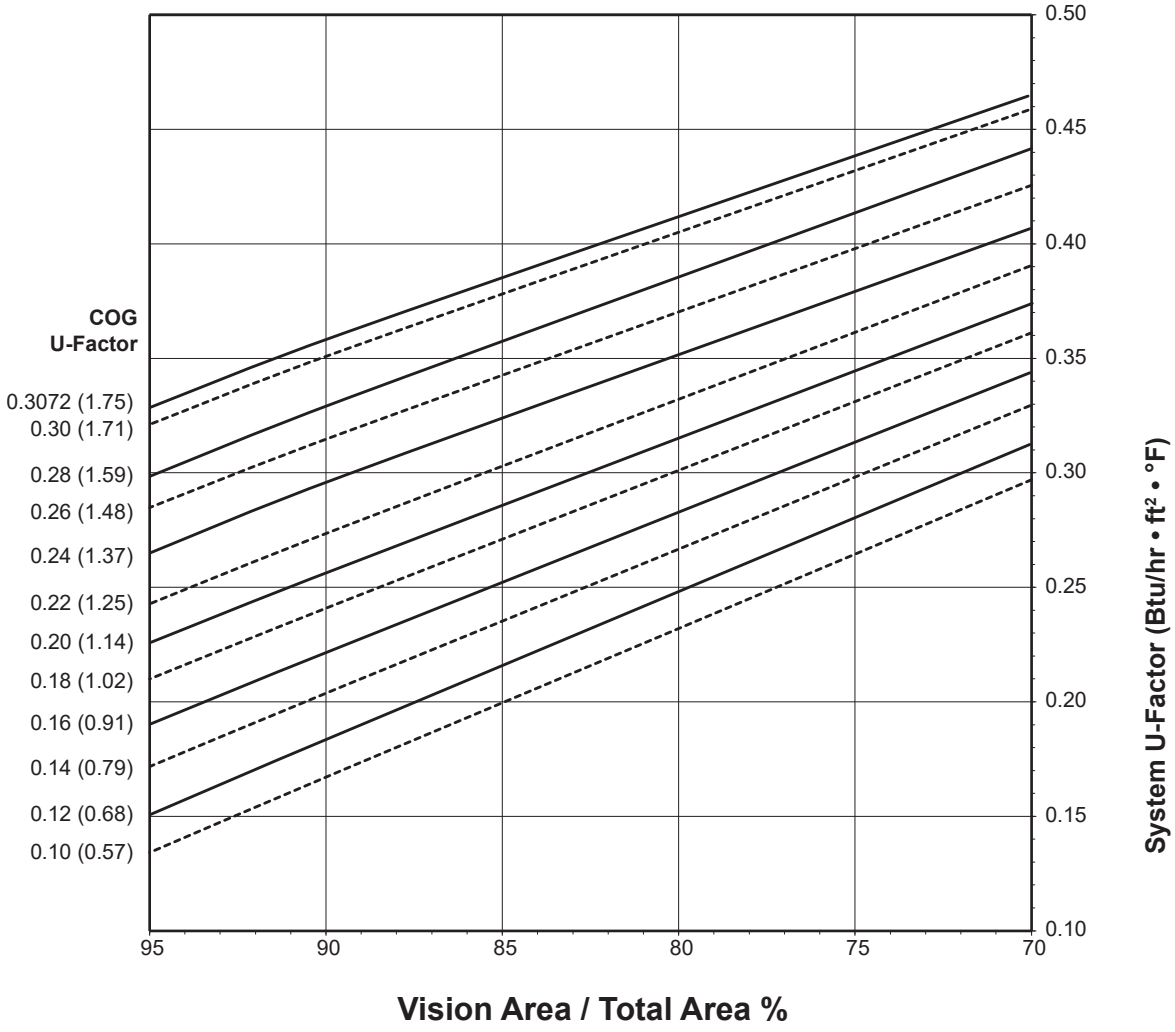
Glass SHGC [3]	Overall SHGC [4]
0.75	0.67
0.70	0.63
0.65	0.58
0.60	0.54
0.55	0.50
0.50	0.45
0.45	0.41
0.40	0.36
0.35	0.32
0.30	0.27
0.25	0.23
0.20	0.18
0.15	0.14
0.10	0.10
0.05	0.05

Visible Transmittance [2]

Glass VT [3]	Overall VT [4]
0.75	0.67
0.70	0.62
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

4-SIDED SGT SYSTEM
1-3/4" Triple Glazed - Warm-Edge Glazing Spacer

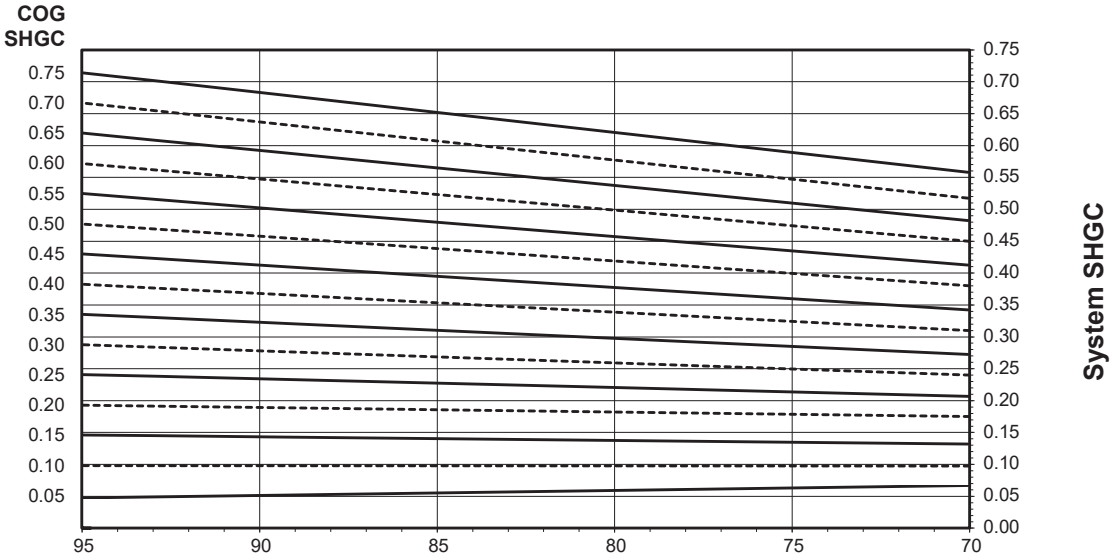
System U-Factor vs Percent of Glass Area



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-SIDED SGT SYSTEM
1-3/4" Triple Glazed - Warm-Edge Glazing Spacer

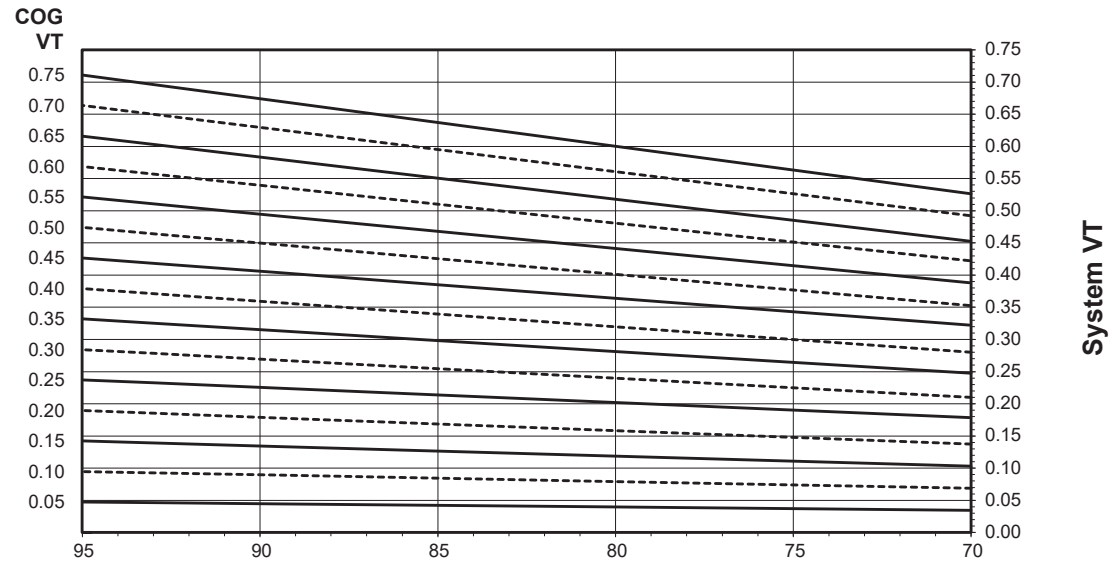
System Solar Heat Gain Coefficient (SHGC) vs Percent of Vision Area



Vision Area / Total Area %
(Total Daylight Opening / Projected Area)

Charts are generated per AAMA 507

Visible Transmittance (VT) vs Percent of Vision Area



Vision Area / Total Area %
(Total Daylight Opening / Projected Area)

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

Glass U-Factor [3]	Overall U-Factor [4]
0.31	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
0.18	0.24
0.16	0.22
0.14	0.21
0.12	0.19
0.10	0.17

4-SIDED SGT SYSTEM
1-3/4" Triple 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	0.64
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	0.06

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

CONDENSATION RESISTANCE

Glazing Infill	Condensation Resistance Factor (CRF) AAMA 1503		Temperature Index (TI) CSA A440-0	
	Frame	Glass	Frame	Glass
1" Double Captured	80	72	69	65
1" Double 4-Sided SGT	80	71	75	65
1-3/4" Triple Captured	81	72	65	65
1-3/4" Triple 4-Sided SGT	85	77	79	72