Features

- 1600UT System™2 is a high thermal performance, structural silicone glazed curtain wall system
- Innovative design delivers high thermal performance while leveraging 1600 Wall System architecture
- Multiple thermal performance levels resulting from a combination of:
  - 1" (25.4), 1-1/4" (31.8), 1-5/16" (33.34) double or 1-3/4" (44.5), triple glazed insulating glass units
  - Aluminum or fiberglass pressure plates
- Thermal barrier design ensures high thermal performance without being susceptible to thermal fatigue
- Offers integrated entrance framing systems
- Corners and splays
- Comprehensively tested to latest high performance air, water, structural and thermal standards
- Glass chairs support insulating glass units enabling larger expanses of glass
- Pressure equalized system tested with vapor barrier
- Two color option
- Permanodic™ anodized finishes in seven choices
- Painted finishes in standard and custom choices

Optional Features

- Steel reinforcing
- Rain screen and backpans
- Deep profile covers and bull nose covers
- Deep and heavy-weight mullions
- Integrates with standard Kawneer windows and GLASSvent™ Windows for curtain wall
- Profit$Maker™ Plus die sets

Product Applications

- Ideal for low to mid-rise applications where high thermal performance is desired
- High span applications

For specific product applications,
consult your Kawneer representative.

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

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

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

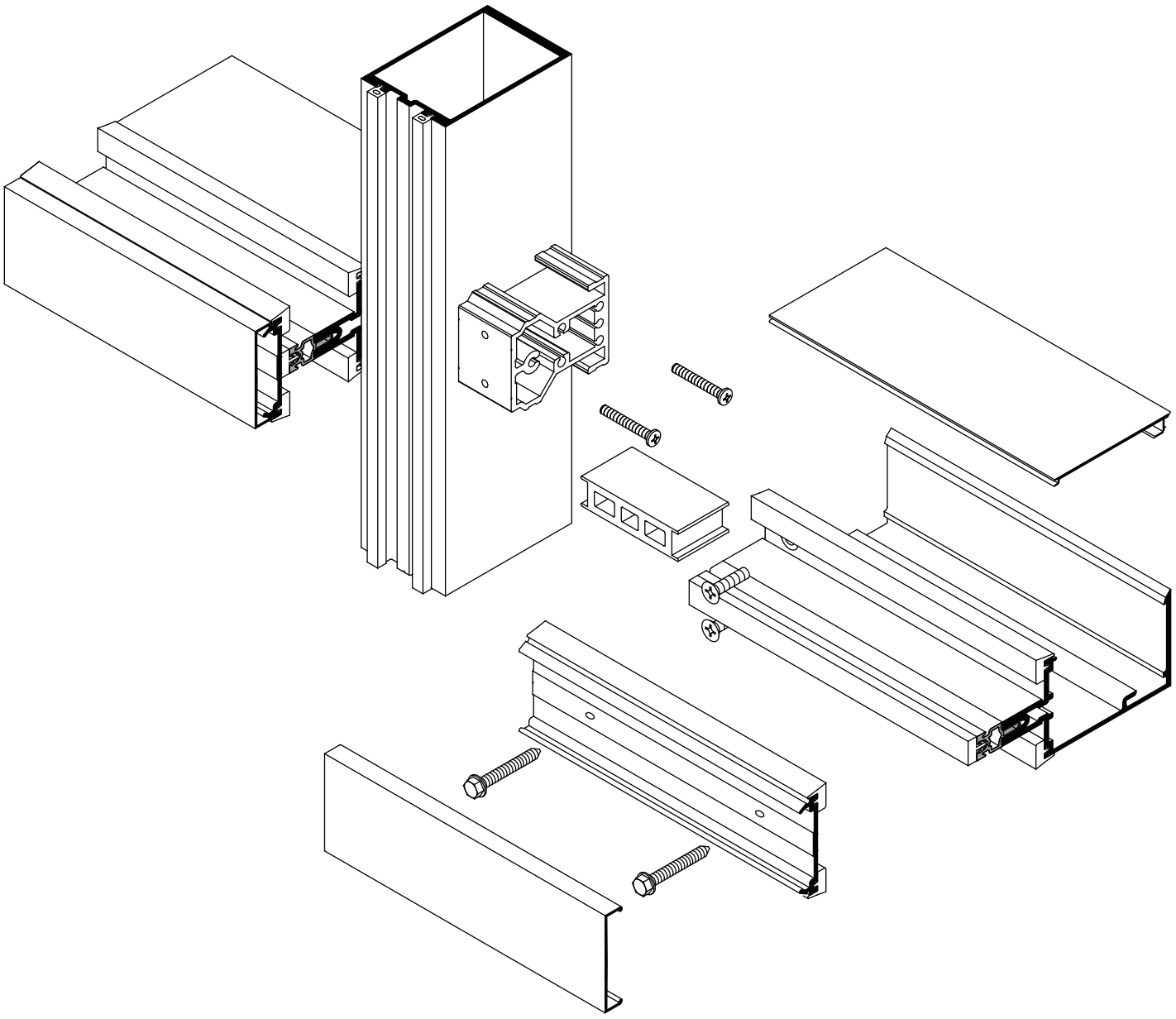
m – meter
cm – centimeter
mm – millimeter
s – second
Pa – pascal
MPa – megapascal

1600UT System™2 Curtain Wall

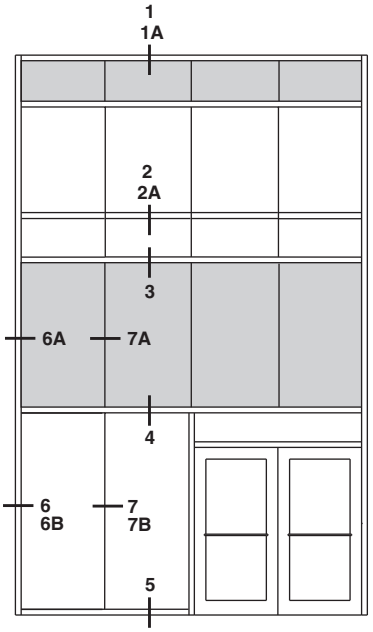
MAY, 2019

PICTORIAL VIEW

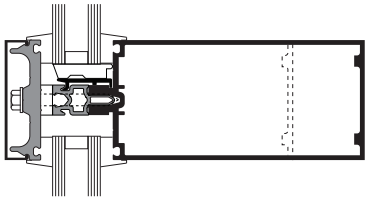
EC 97911-205



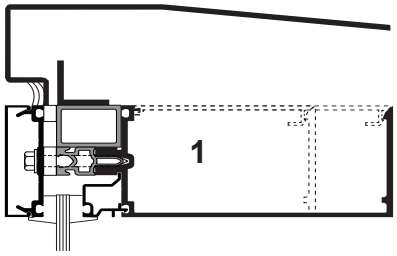
Additional information and CAD details are available at www.kawneer.com

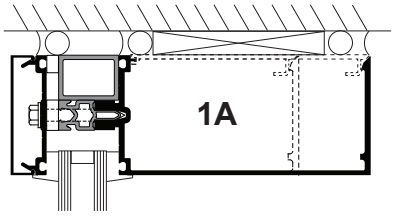


ELEVATION IS NUMBER KEYED TO DETAILS

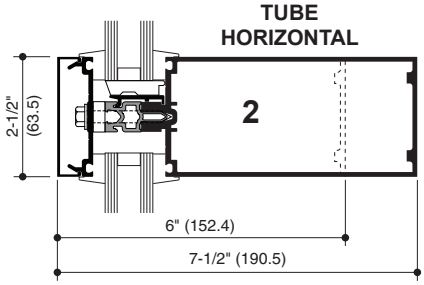


OPTIONAL FIBERGLASS PRESSURE PLATE

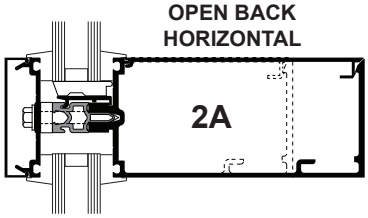


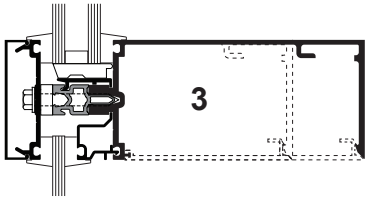


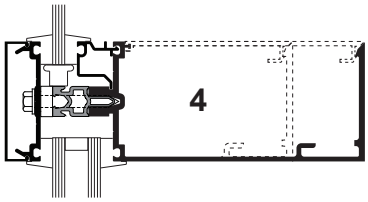
TUBE HORIZONTAL

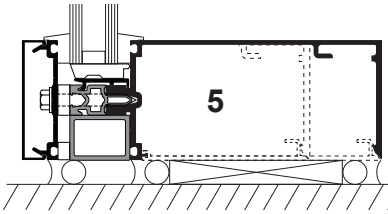


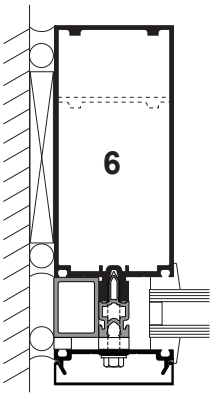
OPEN BACK HORIZONTAL

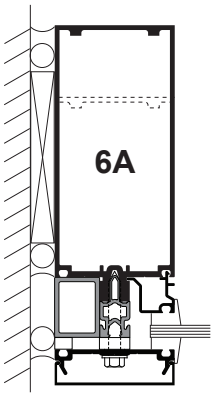




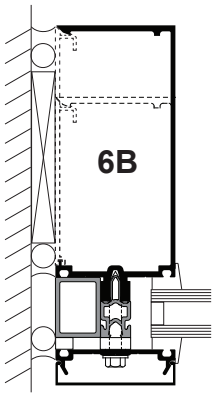




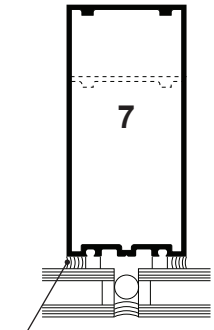




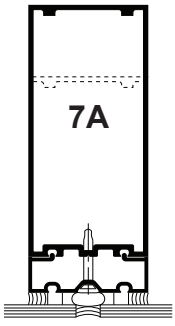
1/4" INFILL ADAPTER



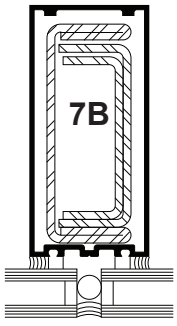
OPEN BACK JAMB



Structural Silicone Sealant (by Others)*



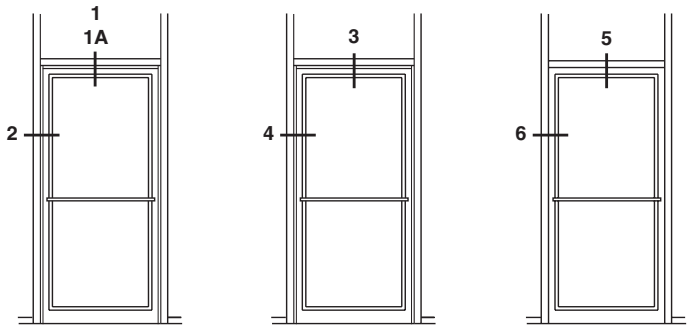
1/4" INFILL ADAPTER



STEEL REINFORCING AS REQUIRED

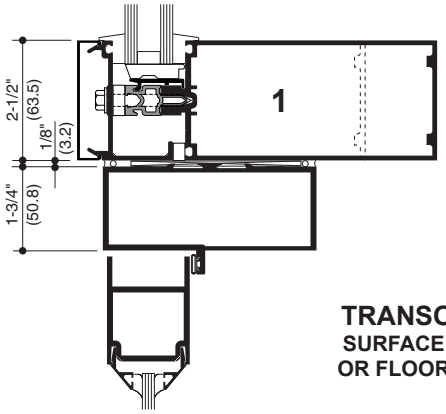
*** INSTALLER NOTE:** Installer is responsible for all required compatibility review and approvals with the Structural Silicone Manufacturer and the Insulating Glass Unit Manufacturer.

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

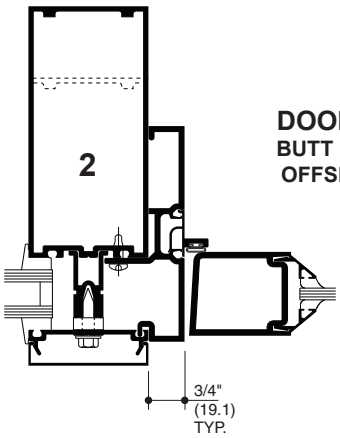


B/H OR O/P **C/H** **B/H OR O/P**

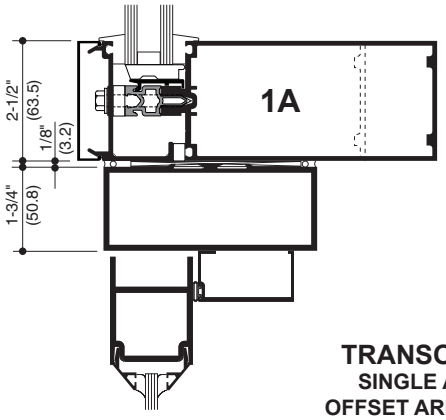
ELEVATION IS NUMBER KEYED TO DETAILS



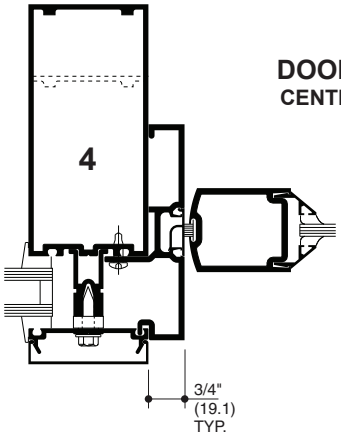
TRANSOM BAR
SURFACE CLOSER
OR FLOOR CLOSER



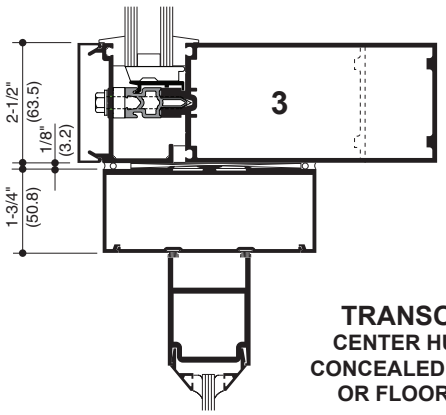
DOOR JAMB
BUTT HUNG OR
OFFSET PIVOT



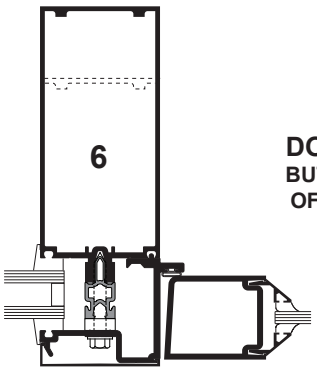
TRANSOM BAR
SINGLE ACTING
OFFSET ARM CLOSER



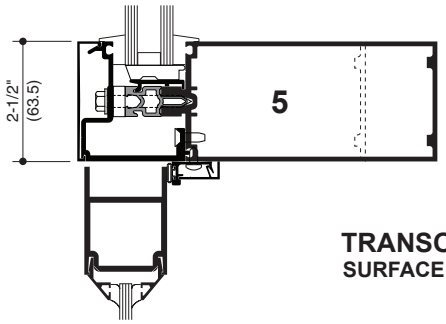
DOOR JAMB
CENTER HUNG



TRANSOM BAR
CENTER HUNG WITH
CONCEALED OVERHEAD
OR FLOOR CLOSER

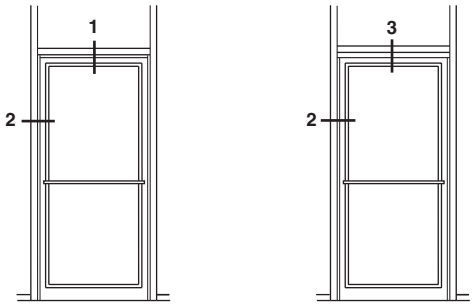


DOOR JAMB
BUTT HUNG OR
OFFSET PIVOT

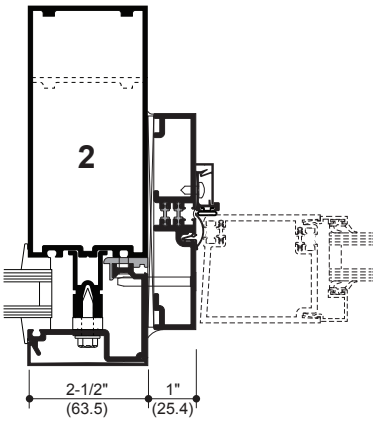


TRANSOM BAR
SURFACE CLOSER

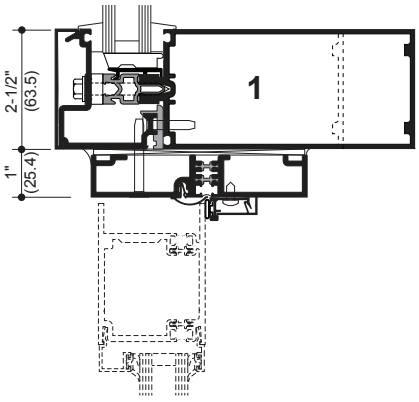
Additional information and CAD details are available at www.kawneer.com



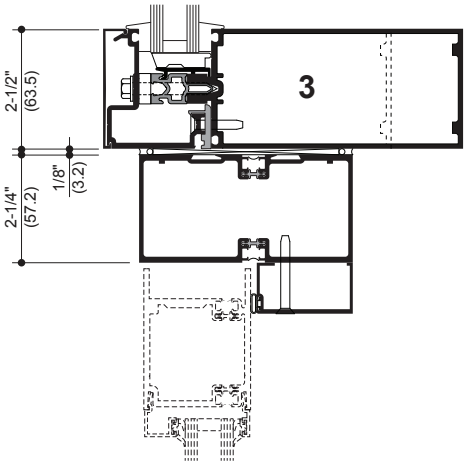
B/H OR O/P
ELEVATION IS NUMBER KEYED TO DETAILS



DOOR JAMB
BUTT HUNG OR
OFFSET PIVOT

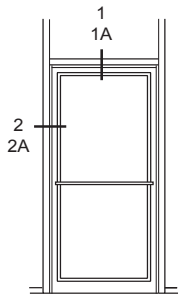


TRANSOM BAR
SURFACE CLOSER
OR FLOOR CLOSER



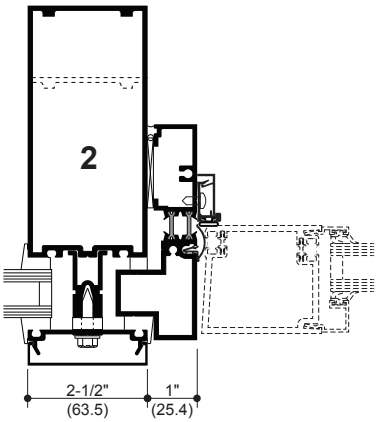
TRANSOM BAR
CONCEALED CLOSER

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

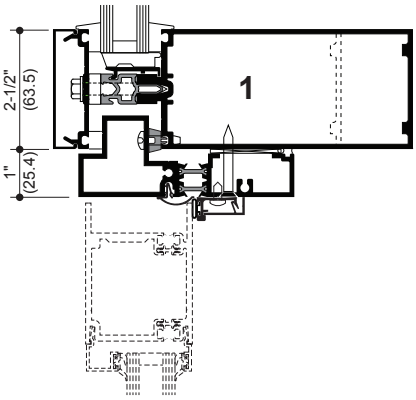


B/H OR O/P

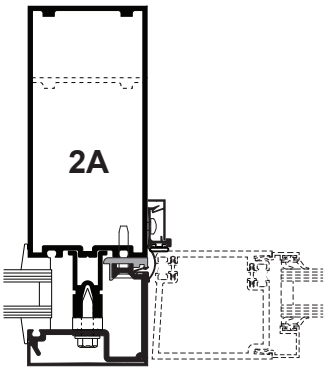
ELEVATION IS NUMBER KEYED TO DETAILS



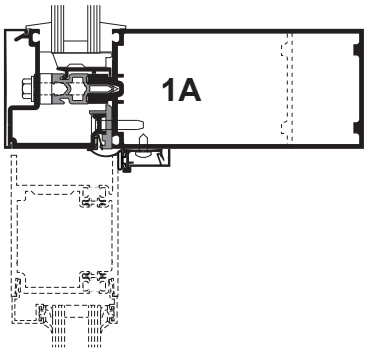
DOOR JAMB
BUTT HUNG OR
OFFSET PIVOT



TRANSOM BAR
SURFACE CLOSER
OR FLOOR CLOSER

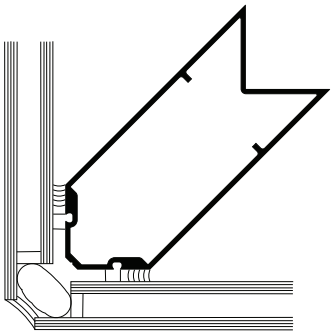


DOOR JAMB
BUTT HUNG OR
OFFSET PIVOT

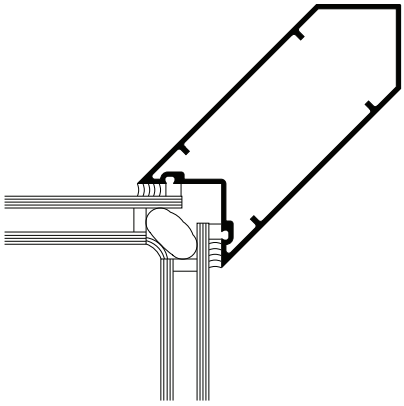


TRANSOM BAR
SURFACE CLOSER
OR FLOOR CLOSER

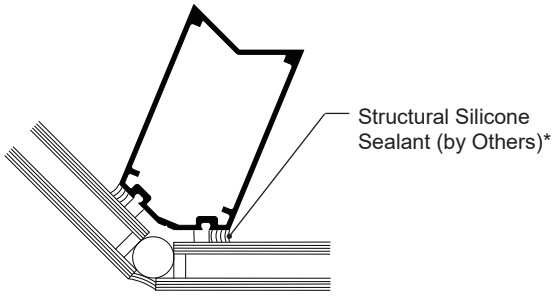
Additional information and CAD details are available at www.kawneer.com



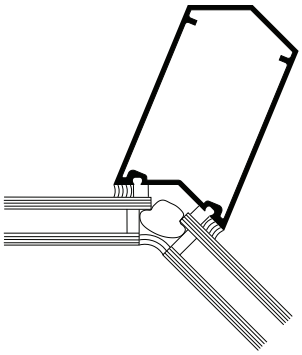
90° OUTSIDE CORNER



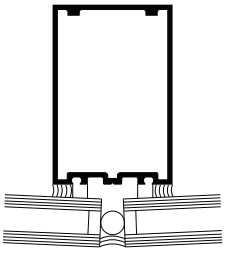
90° INSIDE CORNER



135° OUTSIDE CORNER

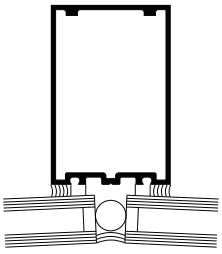


135° INSIDE CORNER



0° TO 5°

OUTSIDE SPLAYED MULLIONS



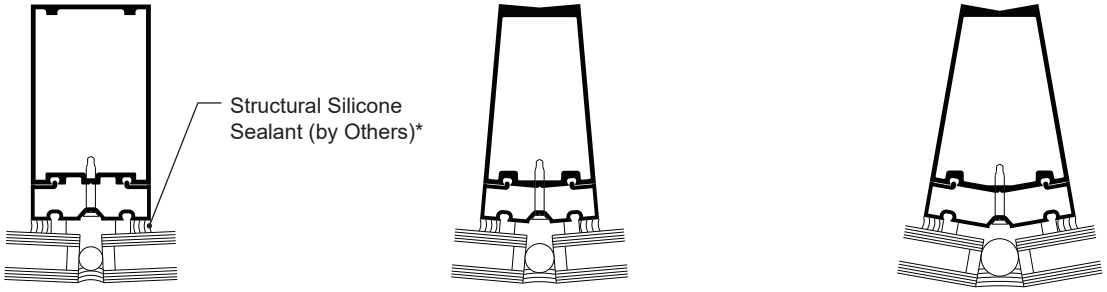
0° TO 5°

INSIDE SPLAYED MULLIONS

OTHER SPLAY OPTIONS AVAILABLE

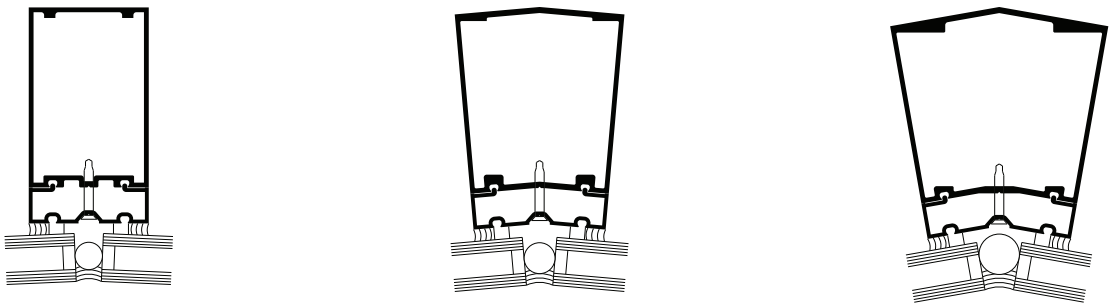
*** INSTALLER NOTE:** Installer is responsible for all required compatibility review and approvals with the Structural Silicone Manufacturer and the Insulating Glass Unit Manufacturer.

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



0° TO 5° **5° TO 15°** **15° TO 25°**

OUTSIDE SPLAYED MULLIONS



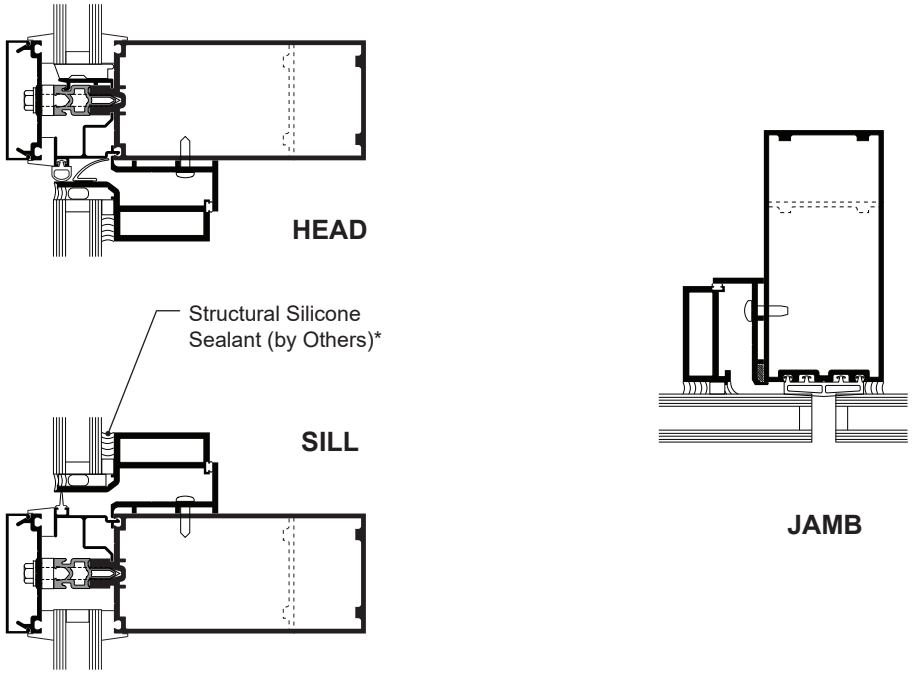
0° TO 5° **5° TO 15°** **15° TO 25°**

INSIDE SPLAYED MULLIONS

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

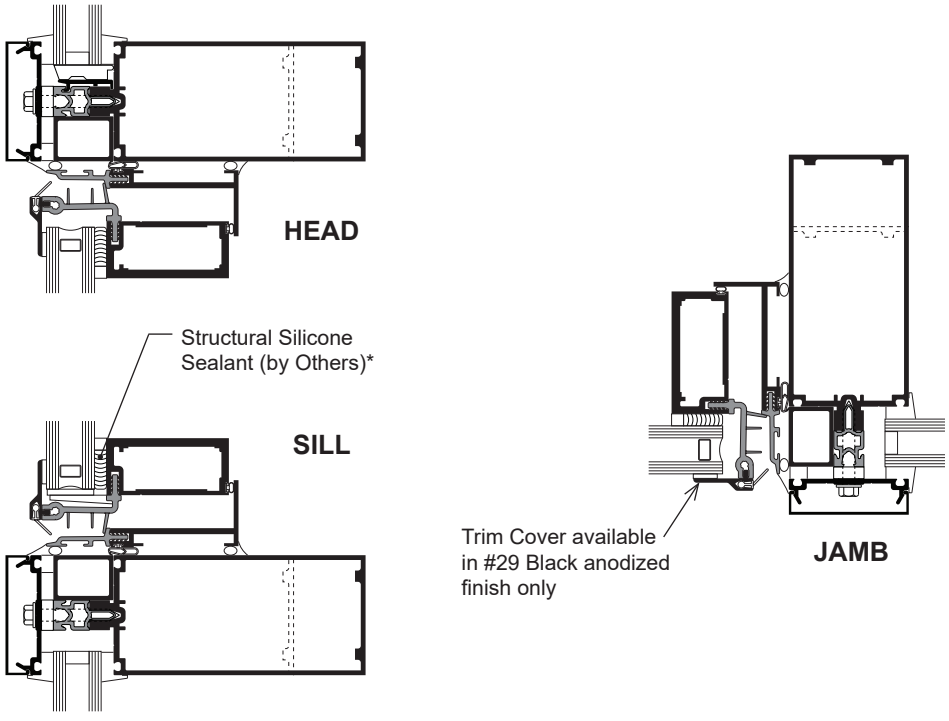
Additional information and CAD details are available at www.kawneer.com

GLASSvent™ Windows for Curtain Wall



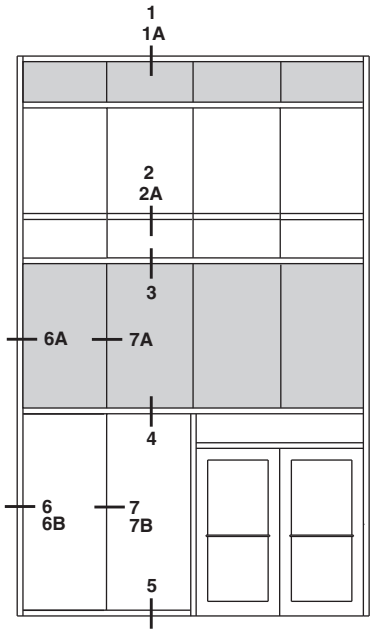
NOTE: Project-out GLASSvent™ window shown

GLASSvent™ UT Windows

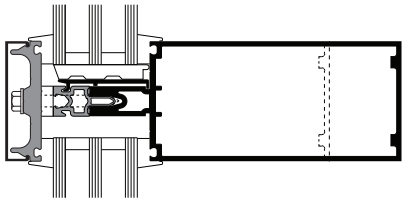


*** INSTALLER NOTE:** Installer is responsible for all required compatibility review and approvals with the Structural Silicone Manufacturer and the Insulating Glass Unit Manufacturer.

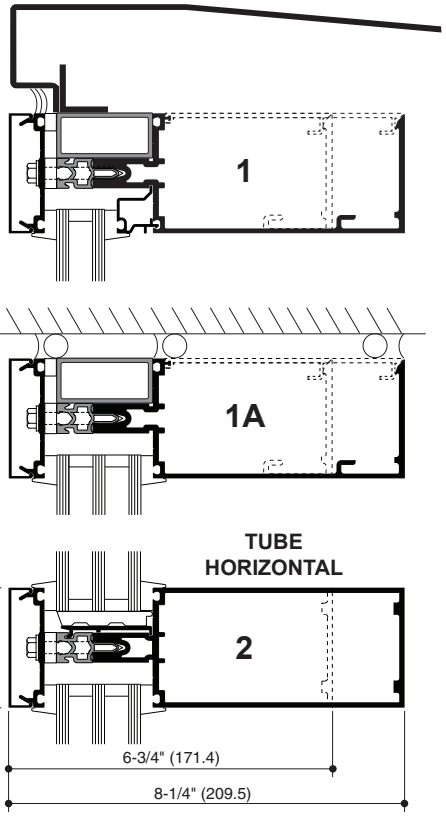
Additional information and CAD details are available at www.kawneer.com

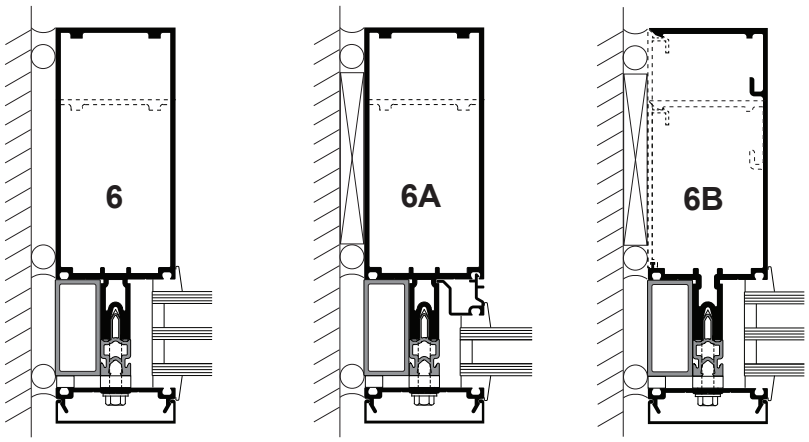


ELEVATION IS NUMBER KEYED TO DETAILS



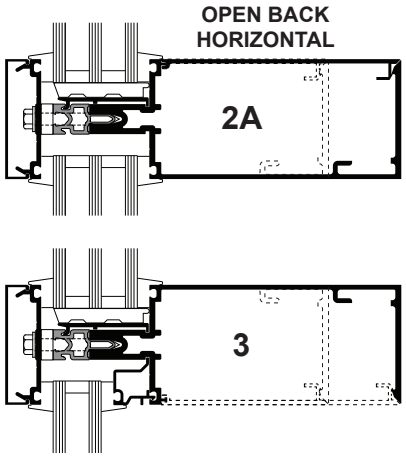
OPTIONAL FIBERGLASS PRESSURE PLATE

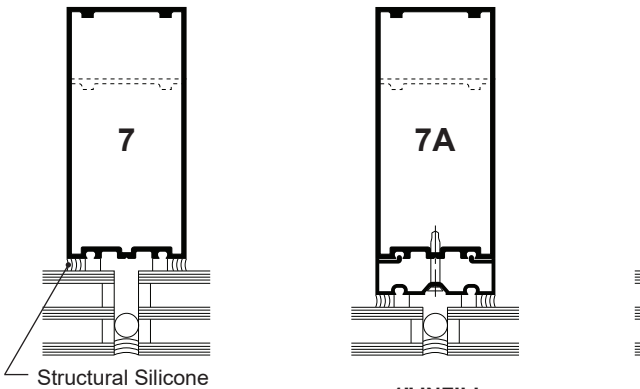




1" INFILL ADAPTER

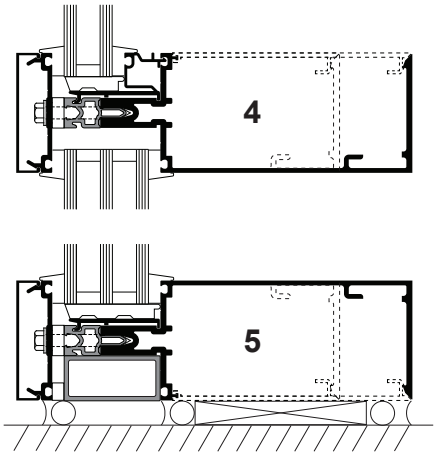
OPEN BACK JAMB





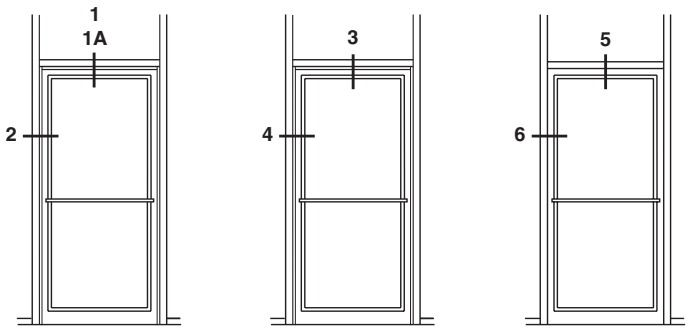
1" INFILL ADAPTER

STEEL REINFORCING AS REQUIRED



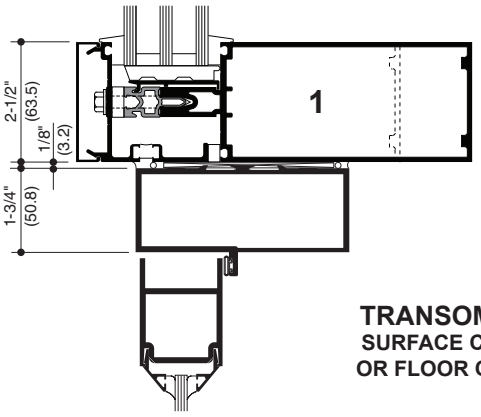
*** INSTALLER NOTE:** Installer is responsible for all required compatibility review and approvals with the Structural Silicone Manufacturer and the Insulating Glass Unit Manufacturer.

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

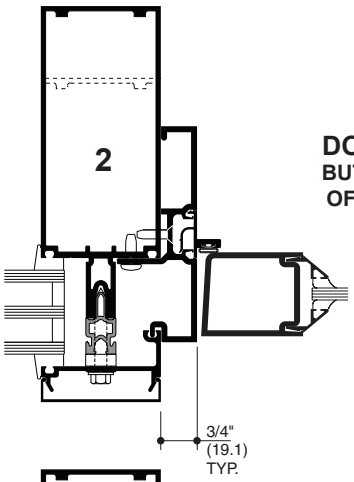


B/H OR O/P C/H B/H OR O/P

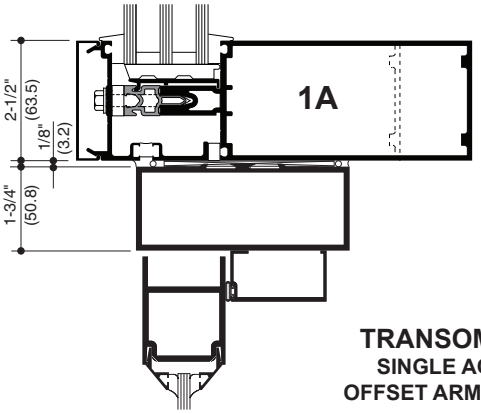
ELEVATION IS NUMBER KEYED TO DETAILS



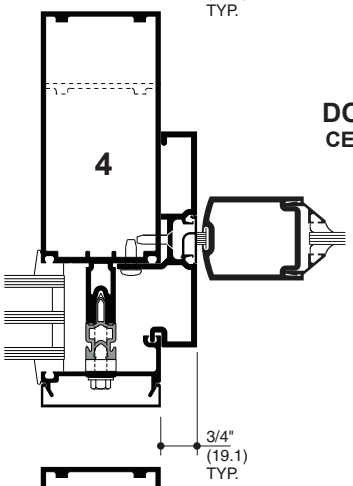
TRANSOM BAR
SURFACE CLOSER
OR FLOOR CLOSER



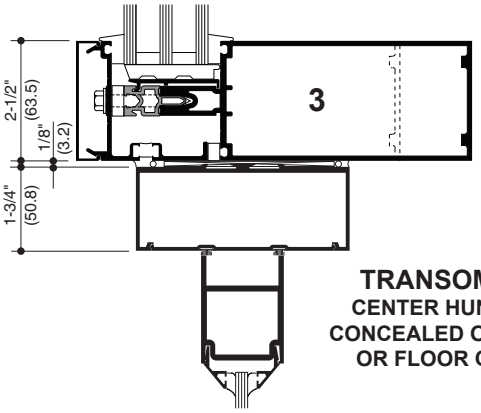
DOOR JAMB
BUTT HUNG OR
OFFSET PIVOT



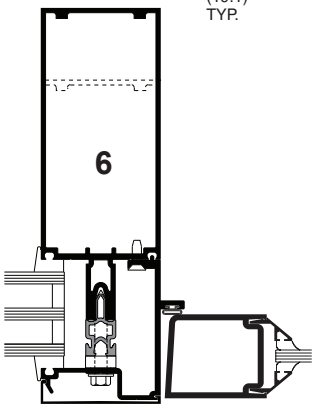
TRANSOM BAR
SINGLE ACTING
OFFSET ARM CLOSER



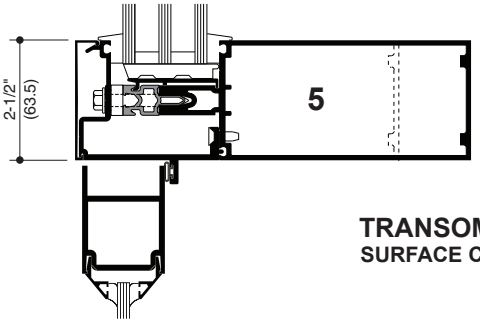
DOOR JAMB
CENTER HUNG



TRANSOM BAR
CENTER HUNG WITH
CONCEALED OVERHEAD
OR FLOOR CLOSER

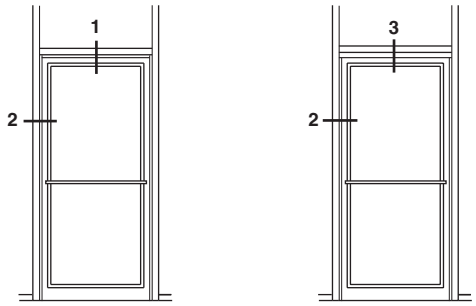


DOOR JAMB
BUTT HUNG OR
OFFSET PIVOT



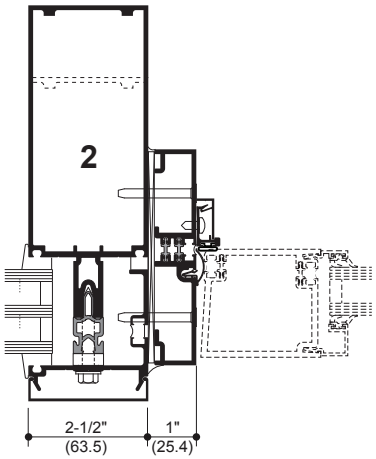
TRANSOM BAR
SURFACE CLOSER

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

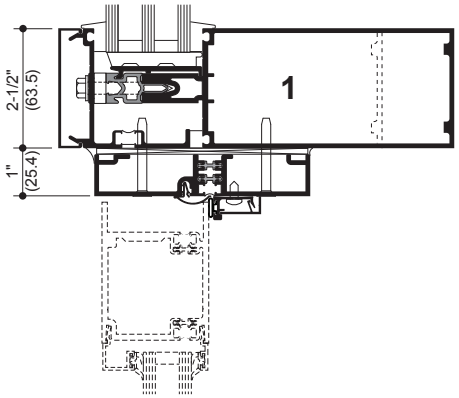


B/H OR O/P

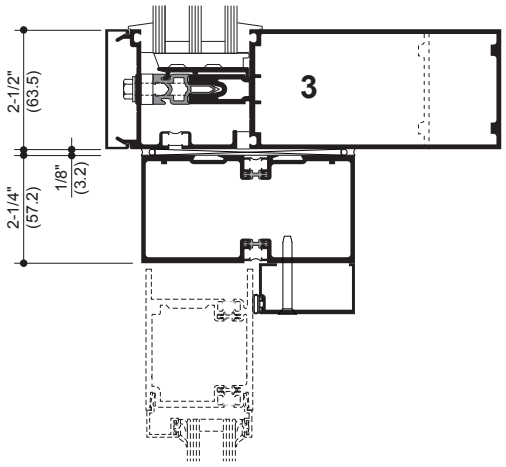
ELEVATION IS NUMBER KEYED TO DETAILS



DOOR JAMB
BUTT HUNG OR
OFFSET PIVOT

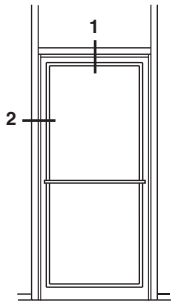


TRANSOM BAR
SURFACE CLOSER
OR FLOOR CLOSER

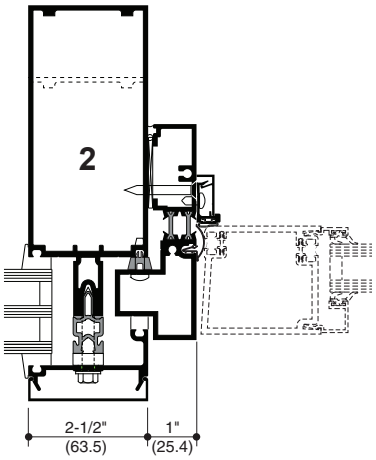


TRANSOM BAR
CONCEALED CLOSER

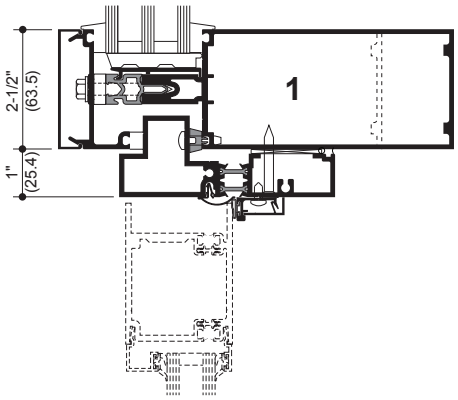
Additional information and CAD details are available at www.kawneer.com



B/H OR O/P
ELEVATION IS NUMBER KEYED TO DETAILS

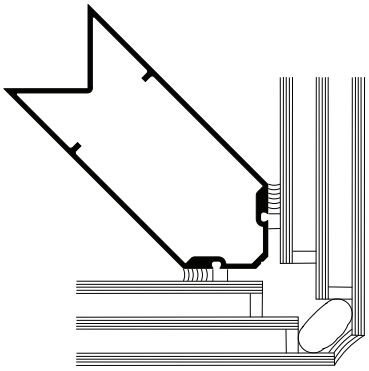


DOOR JAMB
BUTT HUNG OR
OFFSET PIVOT

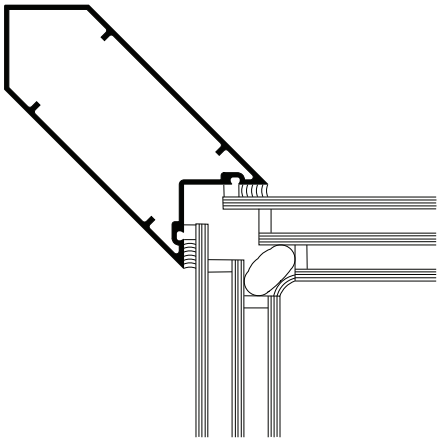


TRANSOM BAR
SURFACE CLOSER
OR FLOOR CLOSER

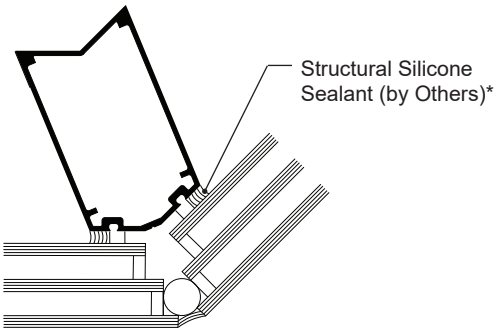
Additional information and CAD details are available at www.kawneer.com



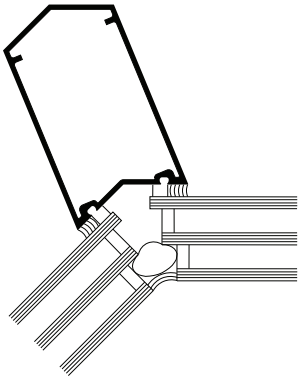
90° OUTSIDE CORNER



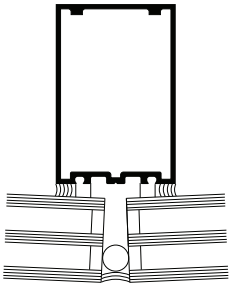
90° INSIDE CORNER



135° OUTSIDE CORNER

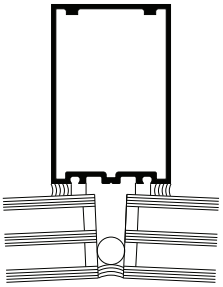


135° INSIDE CORNER



0° TO 5°

OUTSIDE SPLAYED MULLIONS



0° TO 5°

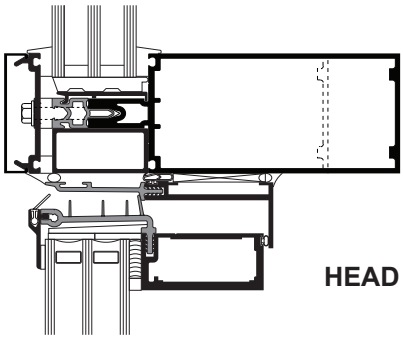
INSIDE SPLAYED MULLIONS

OTHER SPLAY OPTIONS AVAILABLE

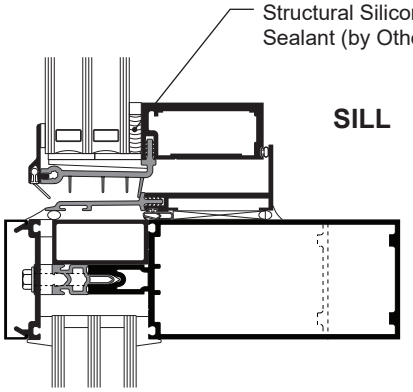
*** INSTALLER NOTE:** Installer is responsible for all required compatibility review and approvals with the Structural Silicone Manufacturer and the Insulating Glass Unit Manufacturer.

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

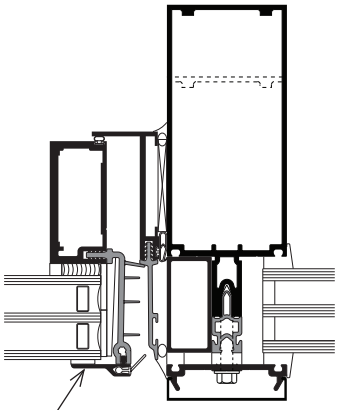
GLASSvent™ UT Windows



HEAD



SILL

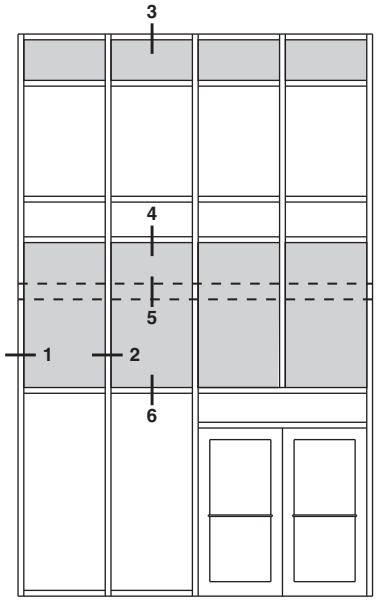


JAMB

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

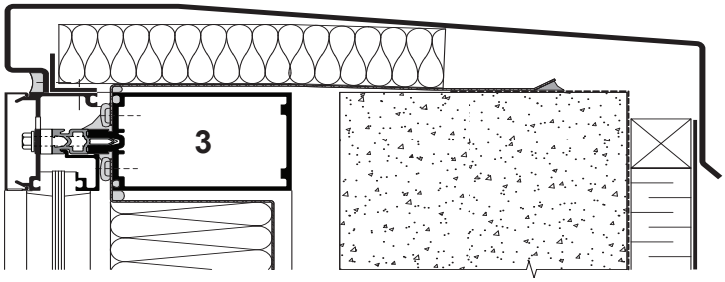
NOTE: AA™6400 vent can be accommodated.
Contact your Kawneer representative for other options.

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

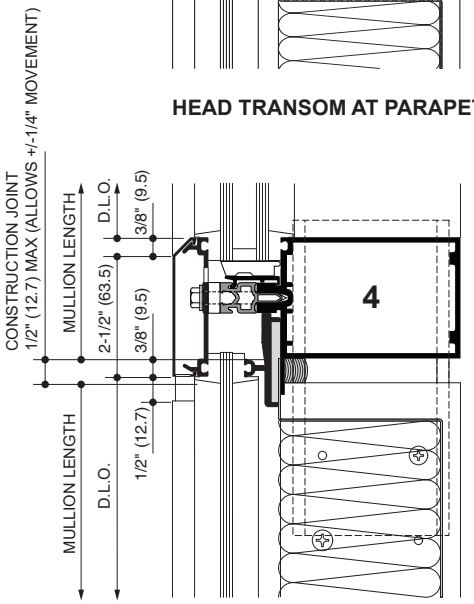


ELEVATION IS NUMBER KEYED TO DETAILS

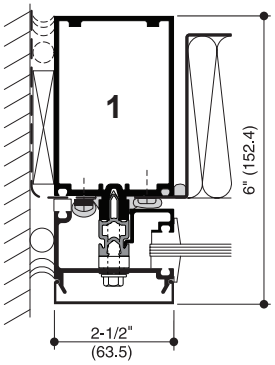
NOTE: 6" SYSTEM SHOWN, 7-1/2" SYSTEM SIMILAR



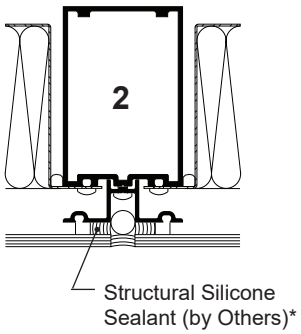
HEAD TRANSOM AT PARAPET FLASHING



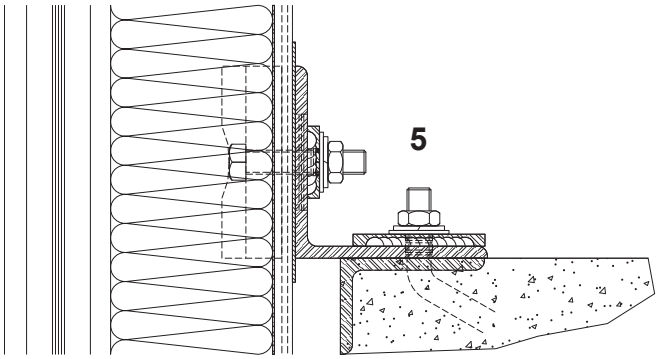
EXPANSION JOINT



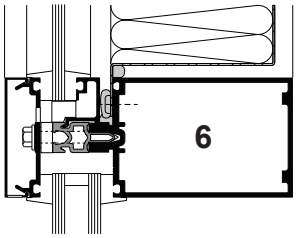
JAMB MULLION AT SPANDREL
(With vapor barrier tie-in)



MULLION AT SPANDREL



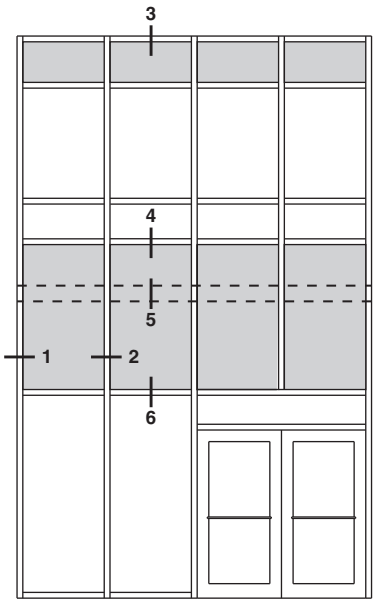
TYPICAL DEADLOAD ANCHOR



TRANSOM – SPANDREL OVER VISION

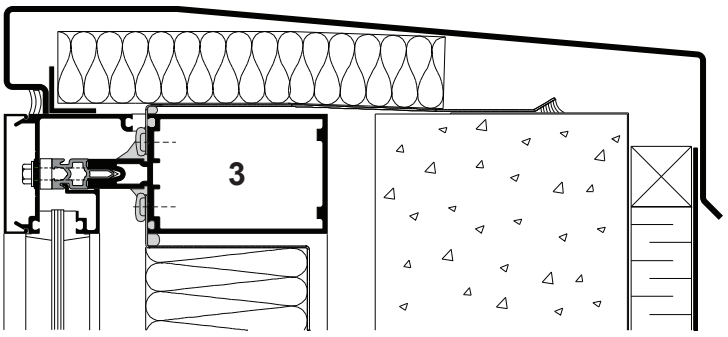
*** INSTALLER NOTE:** Installer is responsible for all required compatibility review and approvals with the Structural Silicone Manufacturer and the Insulating Glass Unit Manufacturer.

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

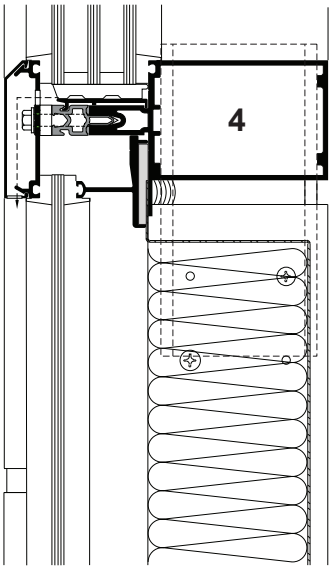


ELEVATION IS NUMBER KEYED TO DETAILS

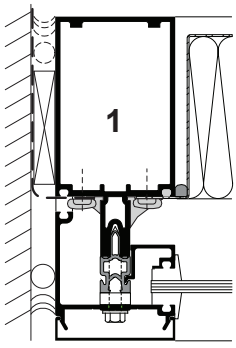
NOTE: 6" SYSTEM SHOWN, 7-1/2" SYSTEM SIMILAR



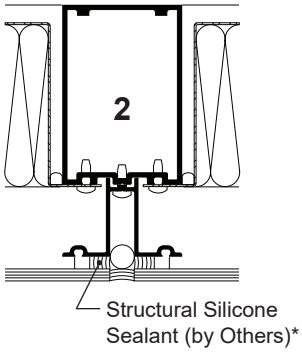
HEAD TRANSOM AT PARAPET FLASHING



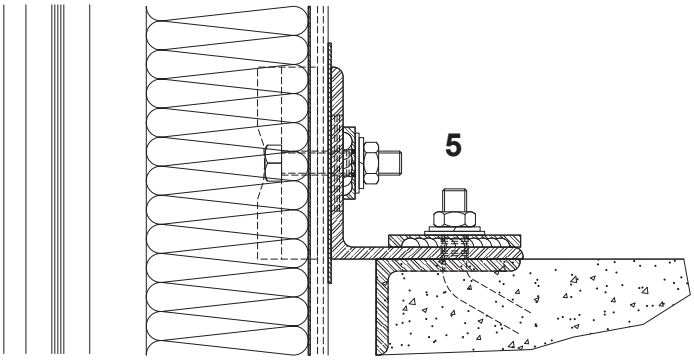
EXPANSION JOINT



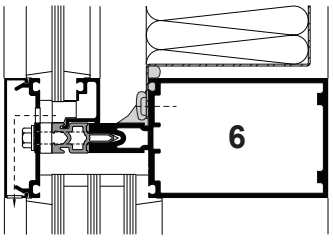
JAMB MULLION AT SPANDREL



MULLION AT SPANDREL



TYPICAL DEADLOAD ANCHOR

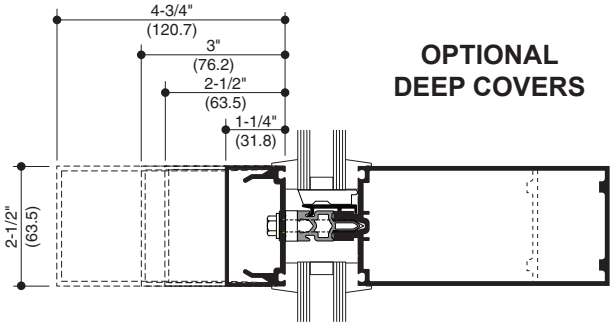


TRANSOM – SPANDREL OVER VISION

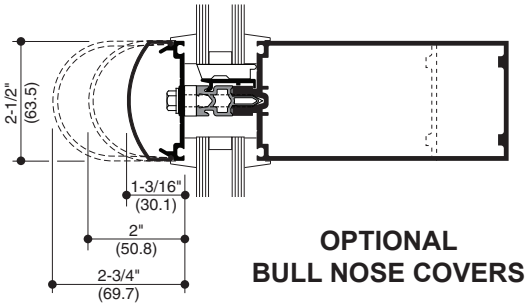
*** INSTALLER NOTE:** Installer is responsible for all required compatibility review and approvals with the Structural Silicone Manufacturer and the Insulating Glass Unit Manufacturer.

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

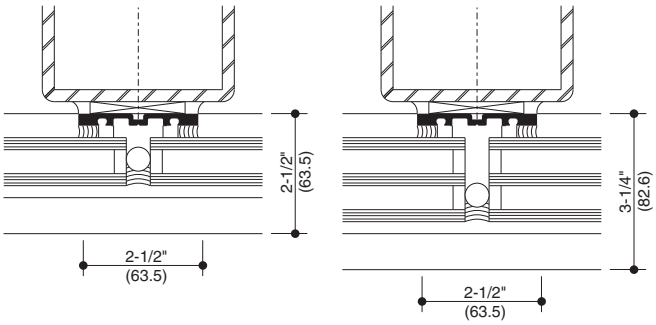
Architects – Most extrusion and window types illustrated in this catalog are standard products for Kawneer. These concepts have been expanded and modified to afford you design freedom. Some miscellaneous details are non-standard and are intended to demonstrate how the system can be modified to expand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



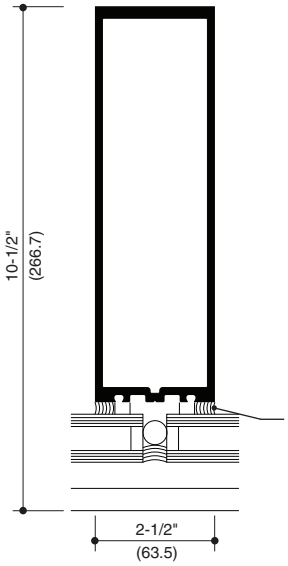
OPTIONAL DEEP COVERS



OPTIONAL BULL NOSE COVERS

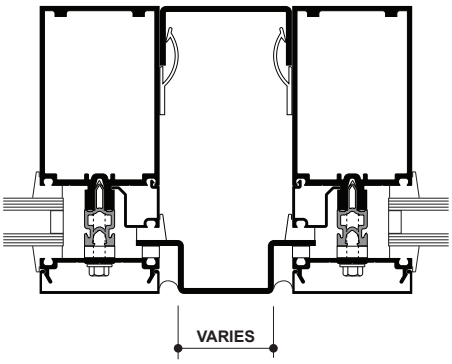


VENEER SYSTEM

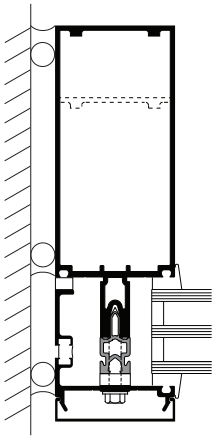


*** INSTALLER NOTE:** Installer is responsible for all required compatibility review and approvals with the Structural Silicone Manufacturer and the Insulating Glass Unit Manufacturer.

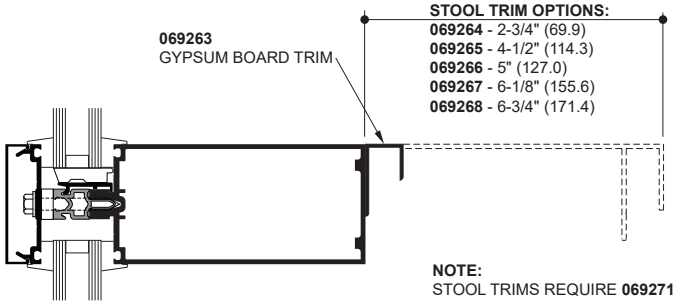
DEEP MULLION



DOUBLE MULLION



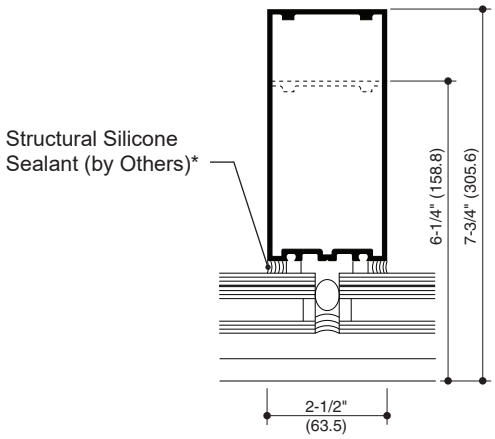
THERMAL PERIMETER PRESSURE PLATE

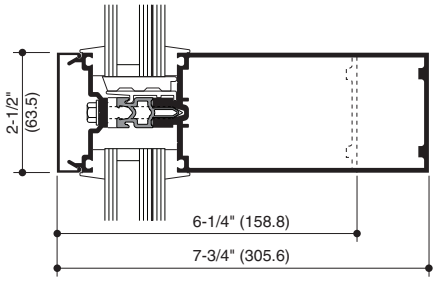


INTERIOR STOOL TRIM

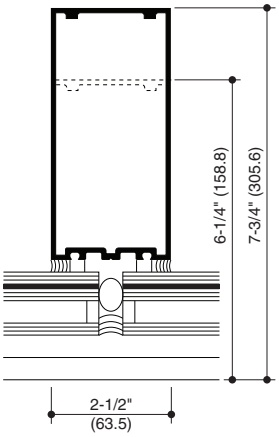
Additional information and CAD details are available at www.kawneer.com

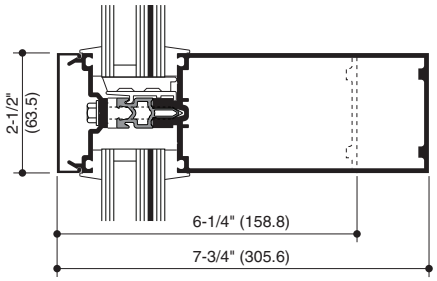
1-1/4" INFILL DETAILS





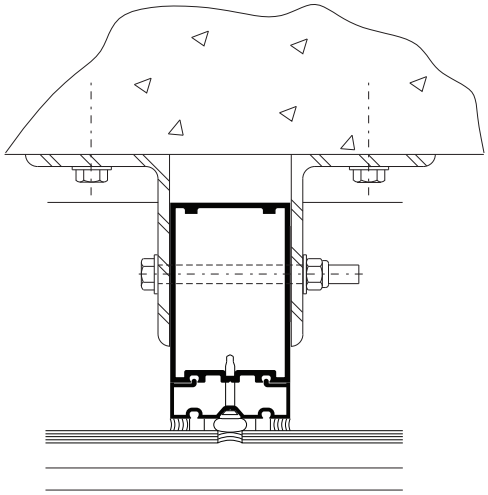
1-5/16" INFILL DETAILS

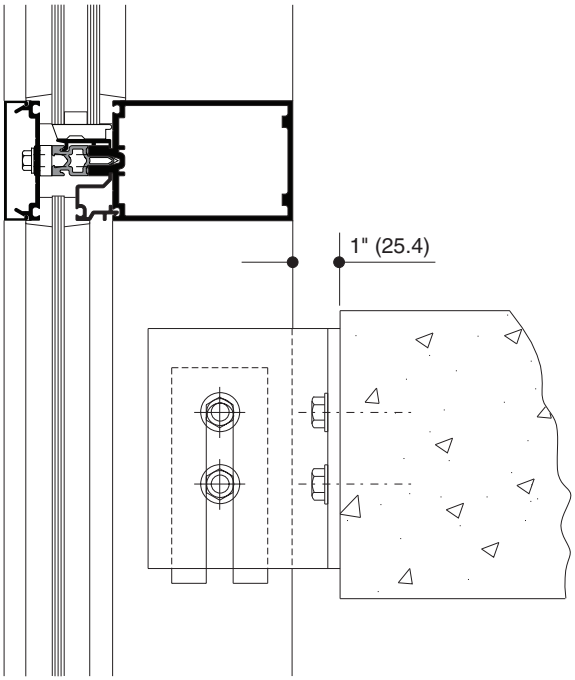




*** INSTALLER NOTE:** Installer is responsible for all required compatibility review and approvals with the Structural Silicone Manufacturer and the Insulating Glass Unit Manufacturer.

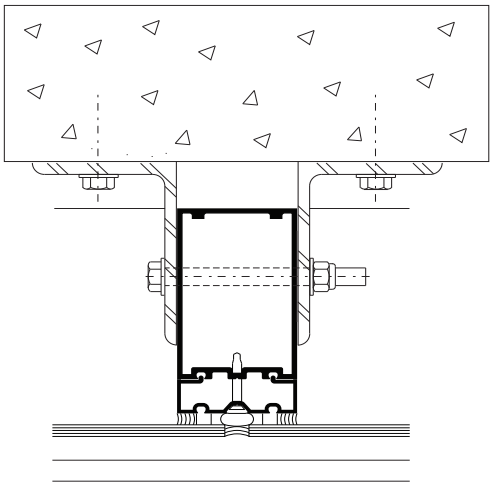
Actual project conditions will determine specific anchor design. Details on this page are for reference only.

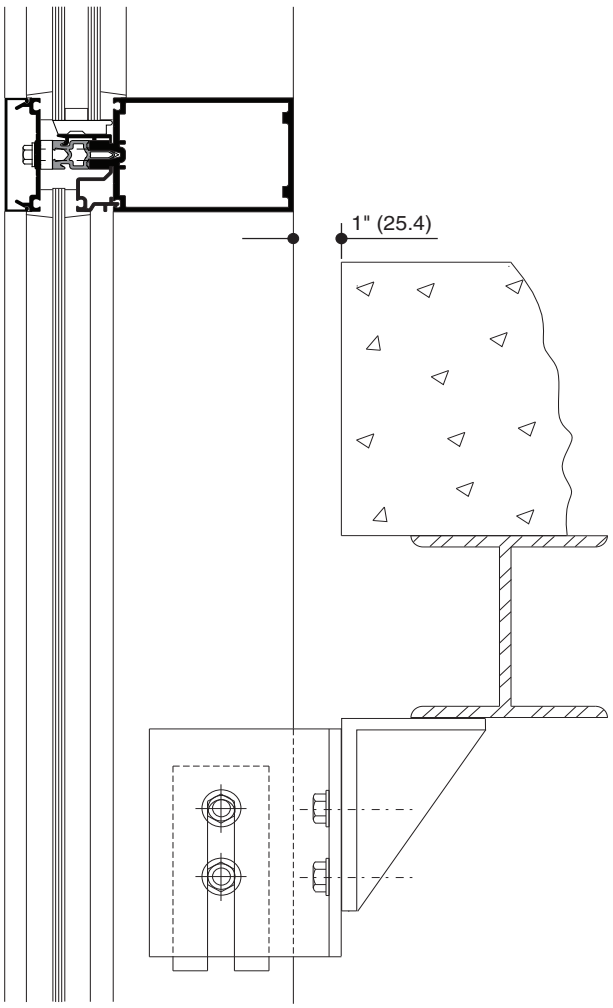




ANCHORING TO FLOOR SLAB

NOTE: 1-3/4" triple glazing similar.



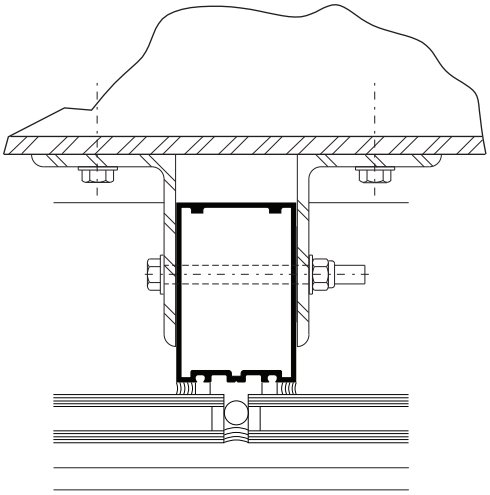


ANCHORING TO SUPPORT STEEL

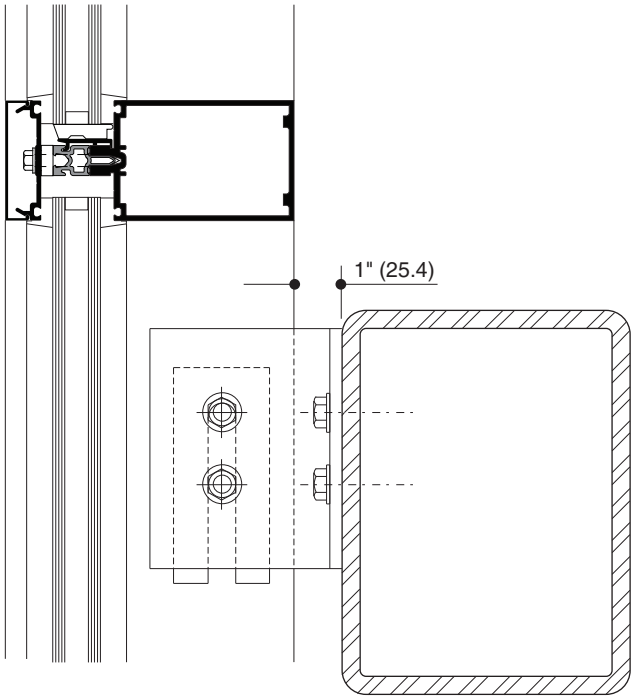
NOTE: 1-3/4" triple glazing similar.

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

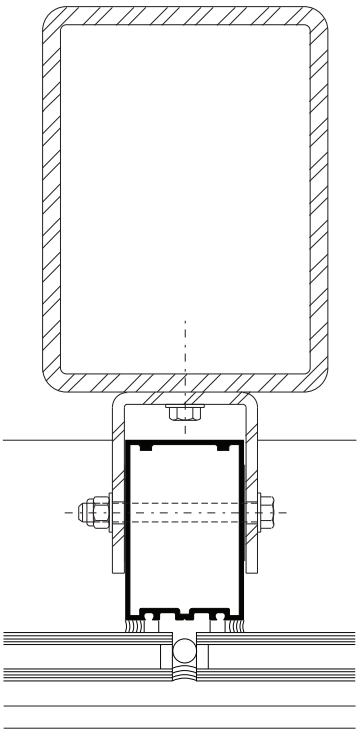
Actual project conditions will determine specific anchor design. Details on this page are for reference only.



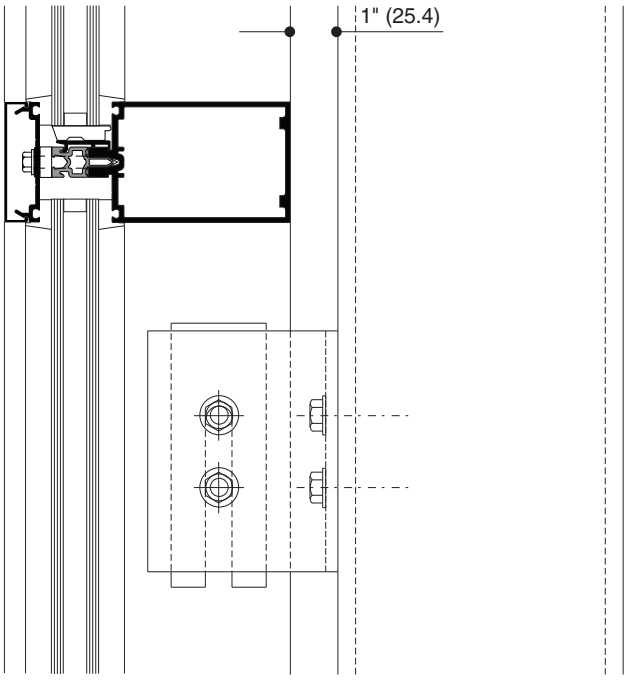
ANCHORING TO HORIZONTAL STRUCTURAL STEEL



NOTE: 1-3/4" triple glazing similar.



ANCHORING TO VERTICAL STRUCTURAL STEEL



NOTE: 1-3/4" triple glazing similar.

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

WIND LOAD CHARTS

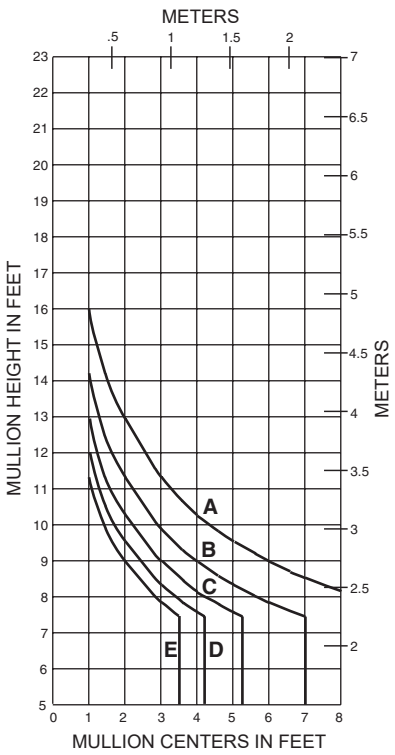
Mullions are designed for deflection limitations in accordance with AAMA TIR-A11 of L/175 up to 13'-6" and L/240 +1/4" above 13'-6". These curves are for mullions WITH HORIZONTALS and are based on engineering calculations for stress and deflection. Allowable wind load stress for ALUMINUM 15,152 psi (104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

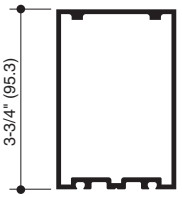
DEADLOAD CHARTS

Horizontal or deadload limitations are based upon 1/8" (3.2), maximum allowable deflection at the center of an intermediate horizontal member. The accompanying charts are calculated for 1" (25.4) thick insulating glass or 1-3/4" (44.5) 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)



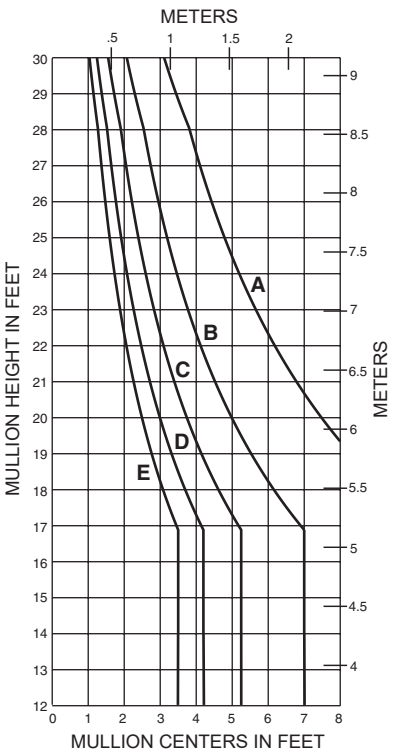


162025

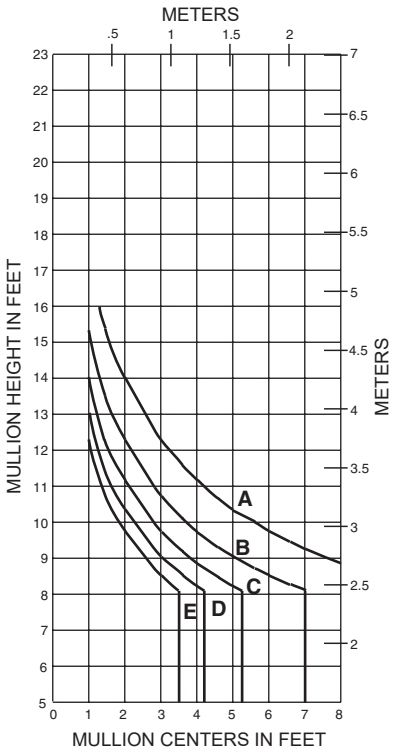
I = 2.860(119.04 x 10^4)

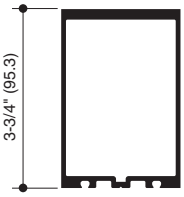
S = 1.482(24.28 x 10^3)

TWIN SPAN



SINGLE SPAN



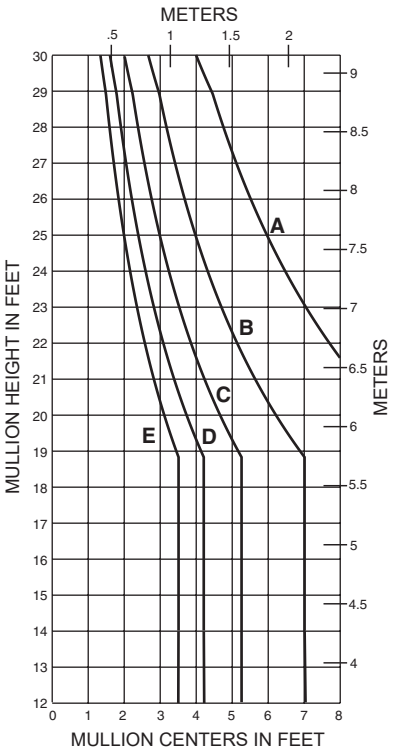


162026

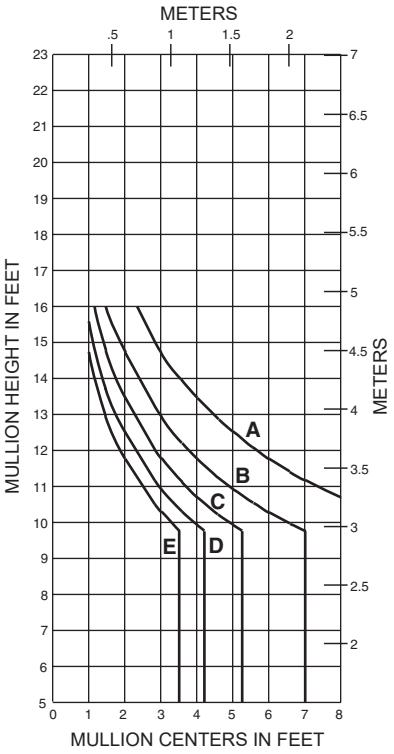
I = 3.660(152.34 x 10^4)

S = 1.840(30.15 x 10^3)

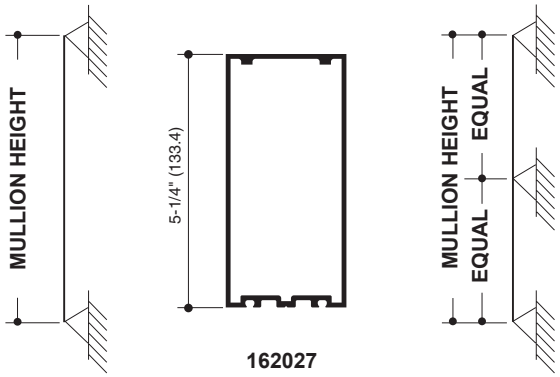
TWIN SPAN



SINGLE SPAN

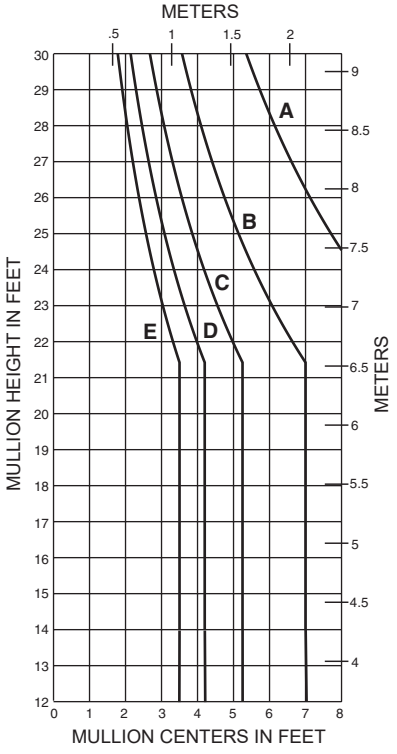


	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	20 PSF (960)	33 PSF (1580)
B =	30 PSF (1440)	50 PSF (2400)
C =	40 PSF (1920)	67 PSF (3200)
D =	50 PSF (2400)	83 PSF (4000)
E =	60 PSF (2880)	100 PSF (4790)

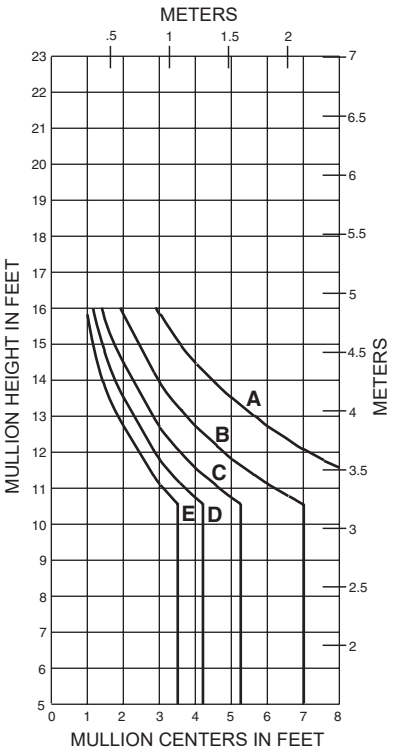


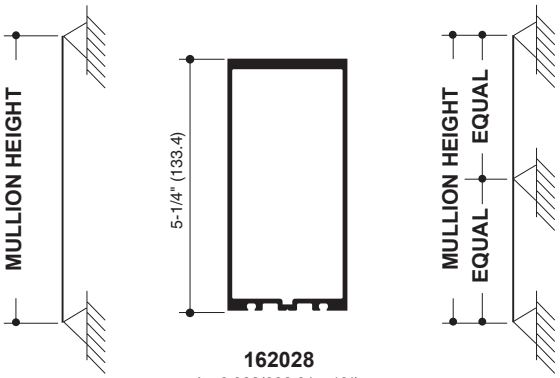
162027
I = 6.424(267.38 x 10^4)
S = 2.385(39.08 x 10^3)

TWIN SPAN



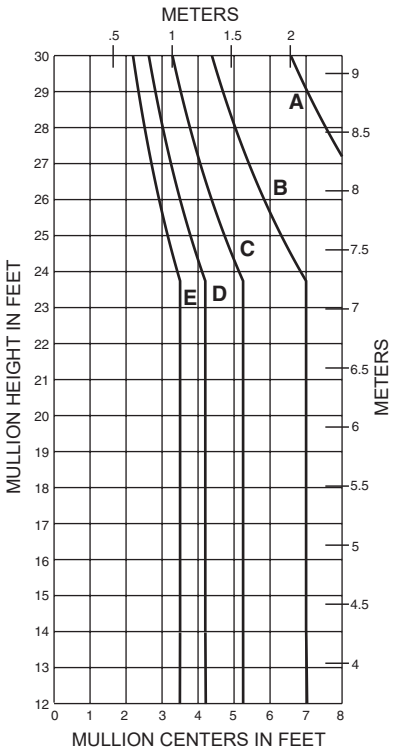
SINGLE SPAN





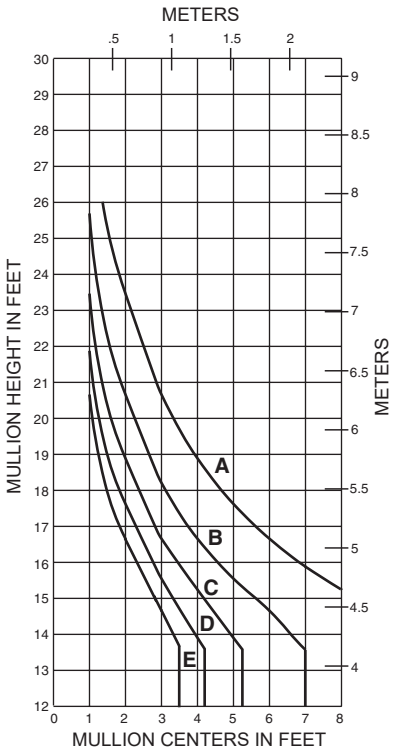
162028
I = 8.088(336.64 x 10^4)
S = 2.930(48.01 x 10^3)

TWIN SPAN

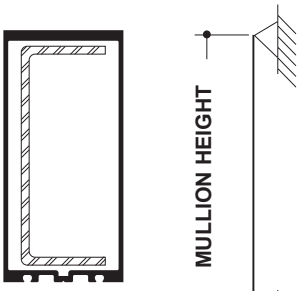


SINGLE SPAN

162028 W/162300



	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)



162028 W/162300

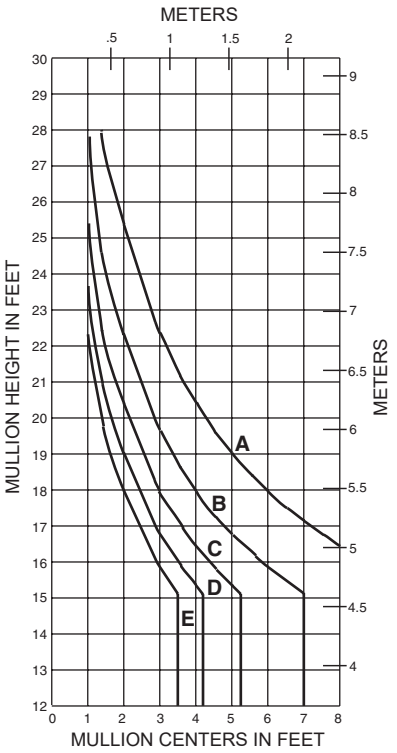
$I_a = 8.088(336.64 \times 10^4)$
$S_a = 2.930(48.01 \times 10^3)$
$I_s = 3.805(158.37 \times 10^4)$
$S_s = 1.669(27.35 \times 10^3)$

162028 W/162301

$I_a = 8.088(336.64 \times 10^4)$
$S_a = 2.930(48.01 \times 10^3)$
$I_s = 5.684(236.59 \times 10^4)$
$S_s = 2.493(40.85 \times 10^3)$

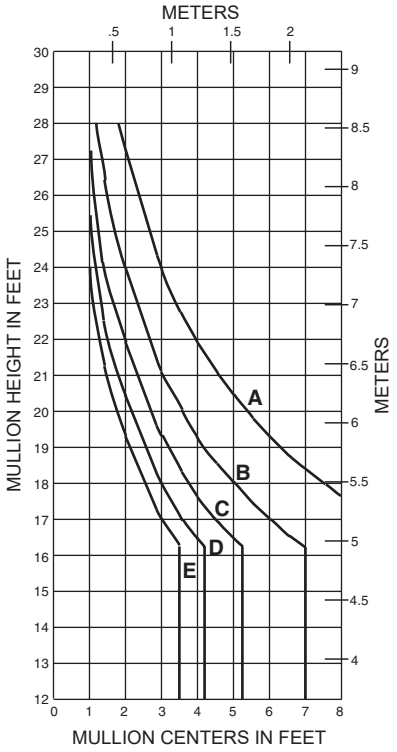
SINGLE SPAN

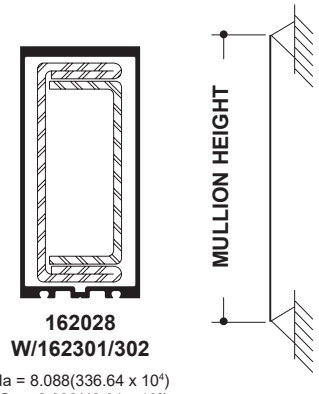
162028 W/162301



SINGLE SPAN

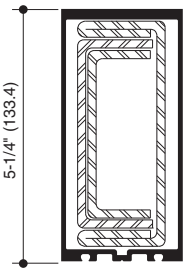
162028 W/162301/302





162028 W/162301/302

$I_a = 8.088(336.64 \times 10^4)$
$S_a = 2.930(48.01 \times 10^3)$
$I_s = 7.893(328.53 \times 10^4)$
$S_s = 3.462(56.73 \times 10^3)$

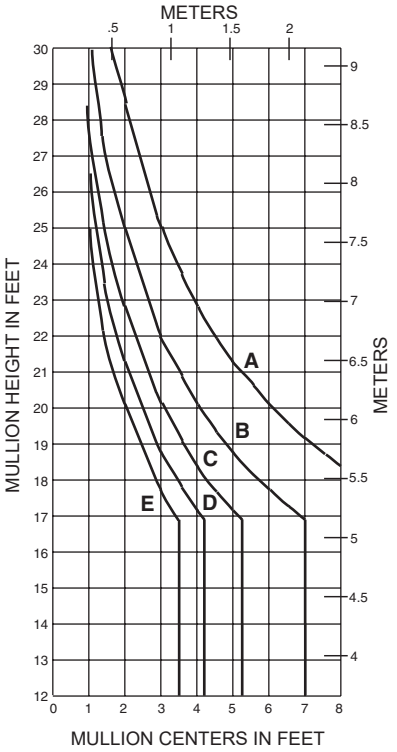


162028 W/162301/302/303

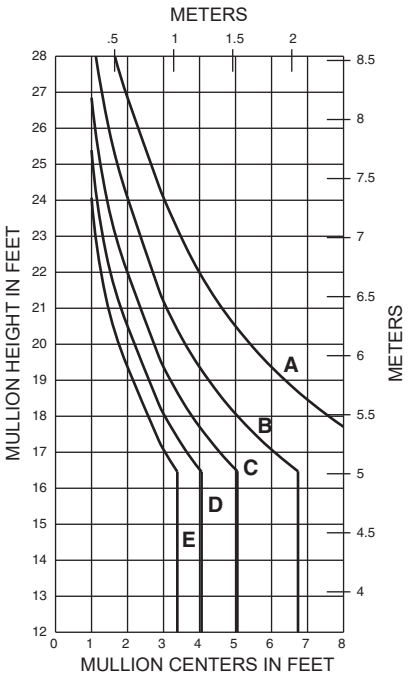
$I_a = 8.088(336.64 \times 10^4)$
$S_a = 2.930(48.01 \times 10^3)$
$I_s = 9.347(389.05 \times 10^4)$
$S_s = 4.100(67.19 \times 10^3)$

SINGLE SPAN

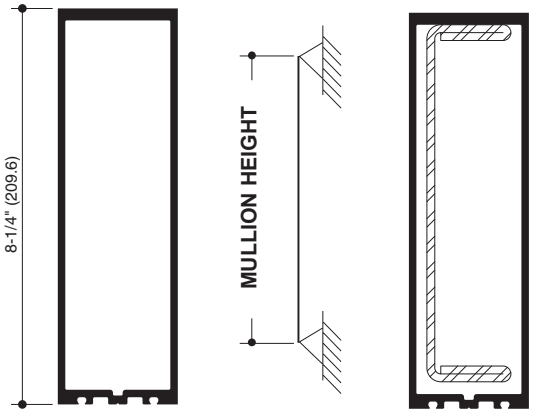
162028 W/162301/302/303



SINGLE SPAN
162028 W/162300



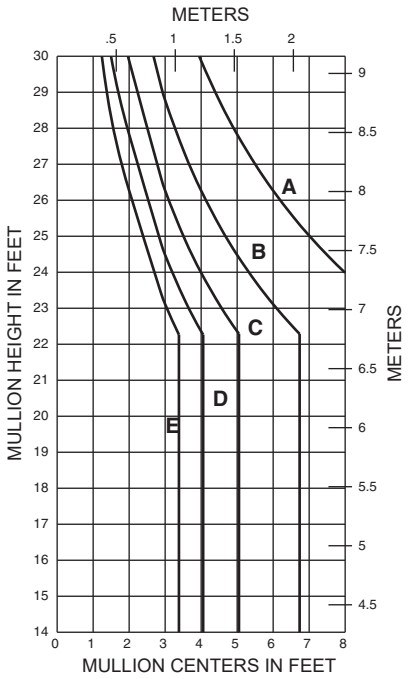
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	20 PSF (960)	33 PSF (1580)
B =	30 PSF (1440)	50 PSF (2400)
C =	40 PSF (1920)	67 PSF (3200)
D =	50 PSF (2400)	83 PSF (4000)
E =	60 PSF (2880)	100 PSF (4790)



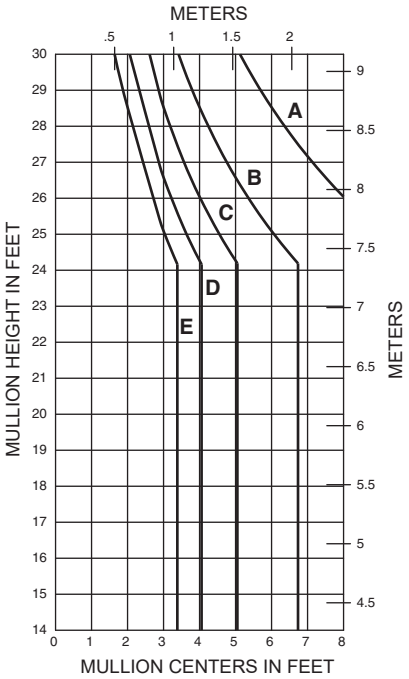
162076
I = 31.174(1,297.56 x 10^4)
S = 7.452(122.12 x 10^3)

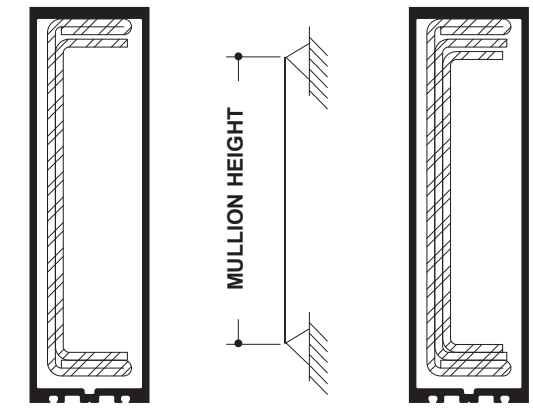
162076
W/162363
Ia = 31.174(1,297.56 x 10^4)
Sa = 7.452(122.12 x 10^3)
Is = 17.600(732.56 x 10^4)
Ss = 4.732(77.54 x 10^3)

SINGLE SPAN
162028 W/162301



SINGLE SPAN
162028 W/162301/302

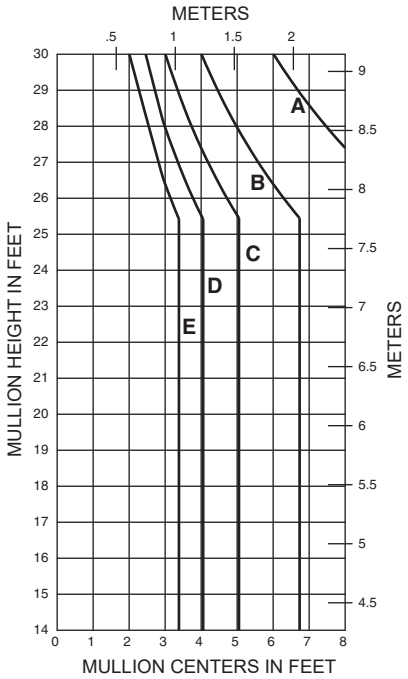




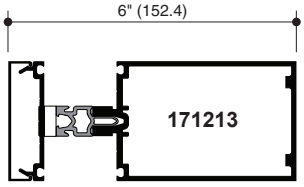
162076
W/162363/364
Ia = 31.174(1,297.56 x 10^4)
Sa = 7.452(122.12 x 10^3)
Is = 26.033(1,083.57 x 10^4)
Ss = 7.000(114.71 x 10^3)

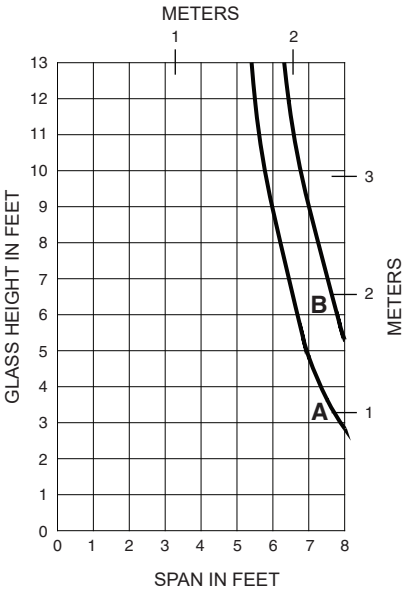
162076
W/162363/364/365
Ia = 31.174(1,297.56 x 10^4)
Sa = 7.452(122.12 x 10^3)
Is = 32.432(1,349.92 x 10^4)
Ss = 32.432(531.46 x 10^3)

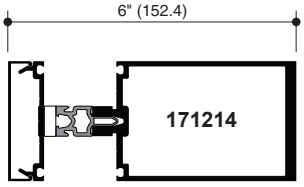
SINGLE SPAN
162028 W/162301/302/303

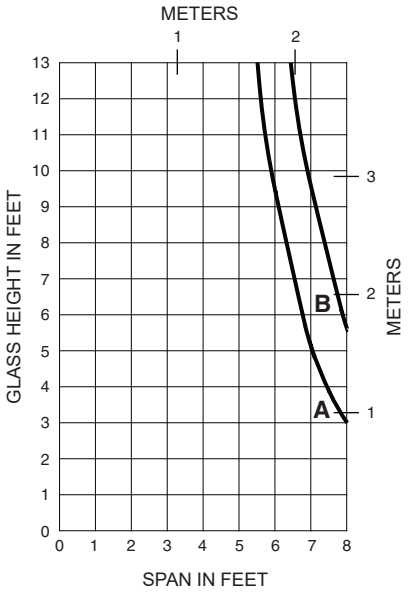


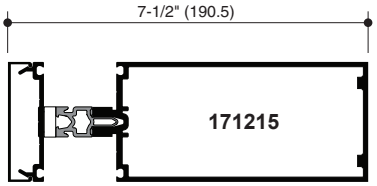
A - 1" GLASS (1/4 POINT LOADING)
B - 1" GLASS (1/8 POINT LOADING)

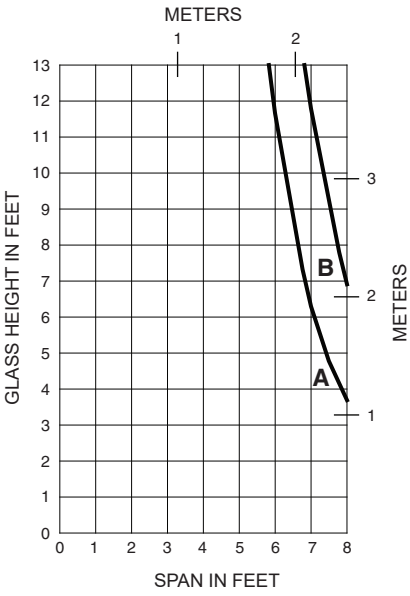


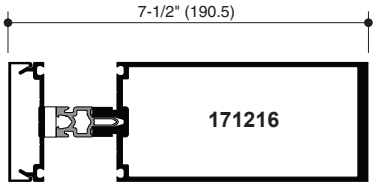


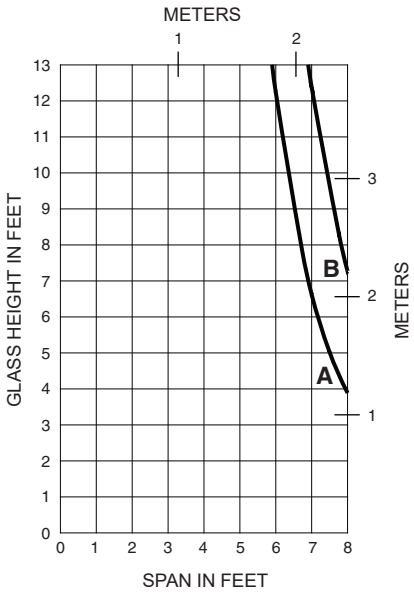






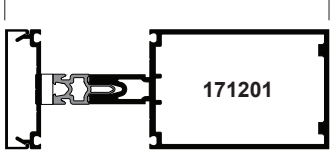


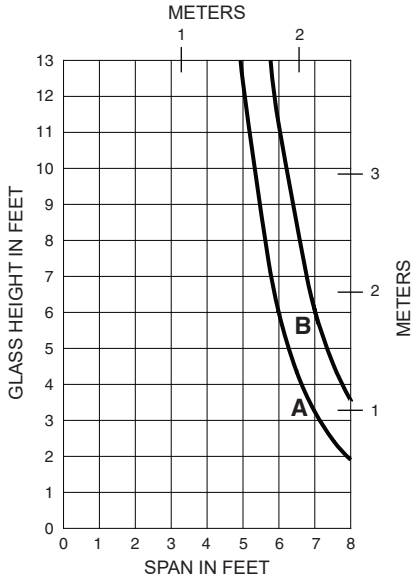




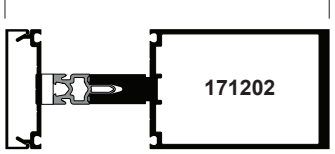
A - 1-3/4" GLASS (1/4 POINT LOADING)
B - 1-3/4" GLASS (1/8 POINT LOADING)

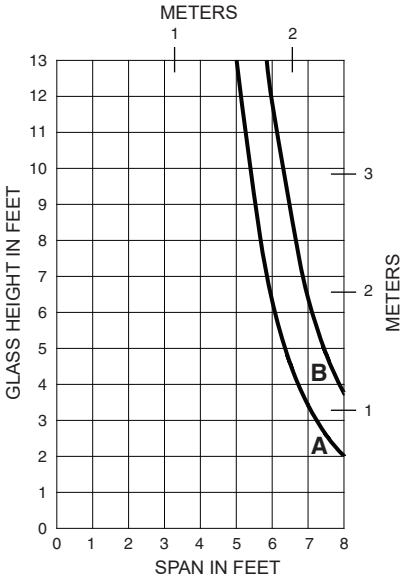
6-3/4" (171.5)



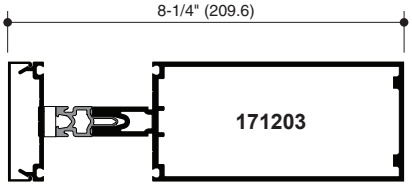


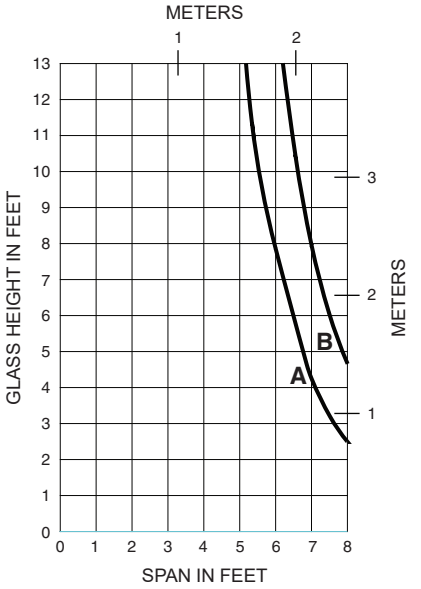
6-3/4" (171.5)



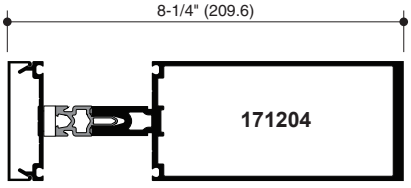


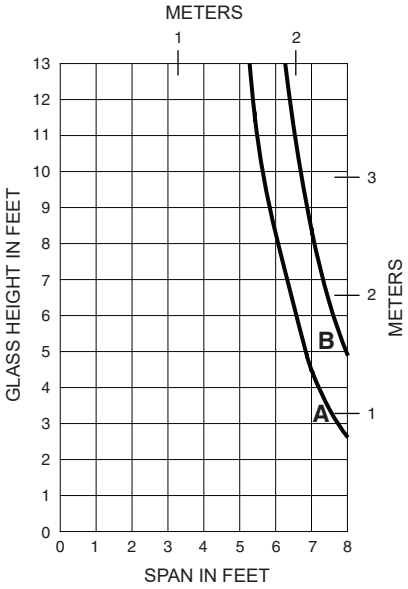
8-1/4" (209.6)



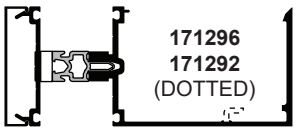


8-1/4" (209.6)

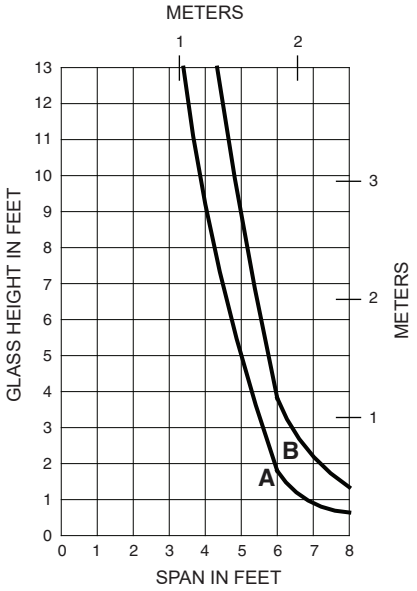


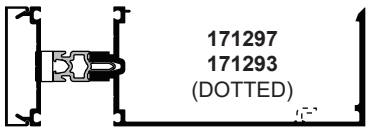


A - 1" GLASS (1/4 POINT LOADING)
B - 1" GLASS (1/8 POINT LOADING)

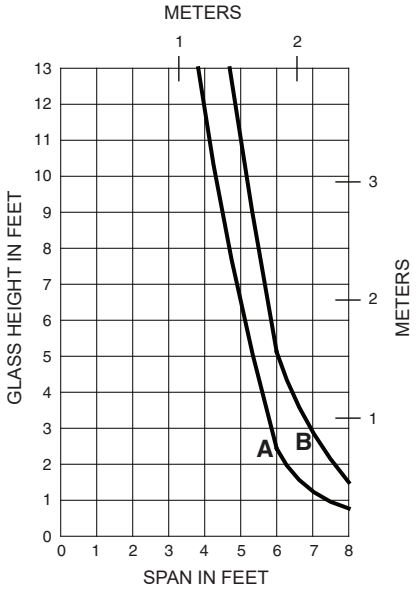


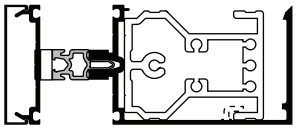
171296
171292
(DOTTED)



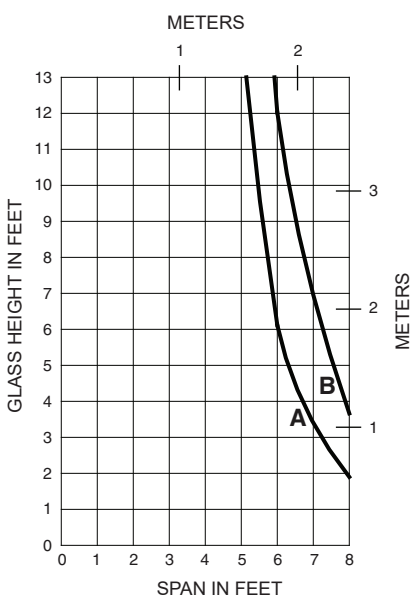


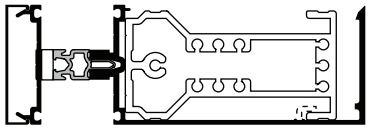
171297
171293
(DOTTED)



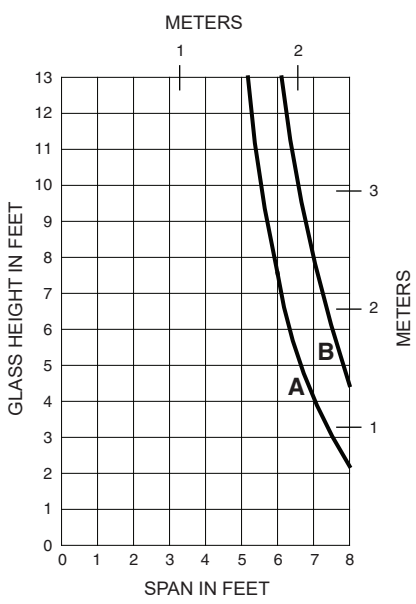


171296
171292
(DOTTED)
171077
REINF.

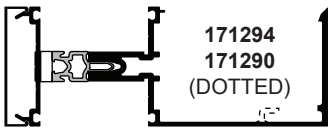




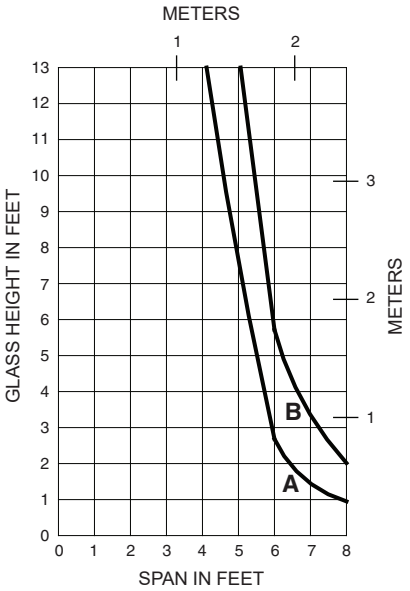
171297
171293
(DOTTED)
171078
REINF.

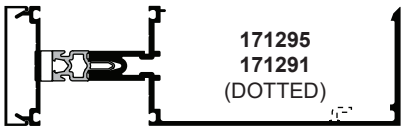


A - 1" GLASS (1/4 POINT LOADING)
B - 1" GLASS (1/8 POINT LOADING)

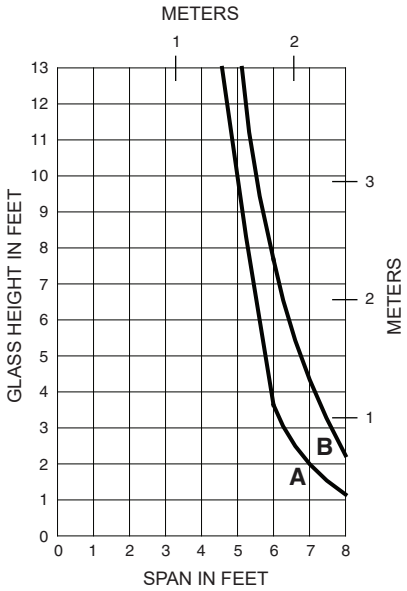


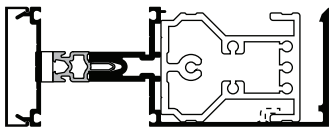
171294
171290
(DOTTED)



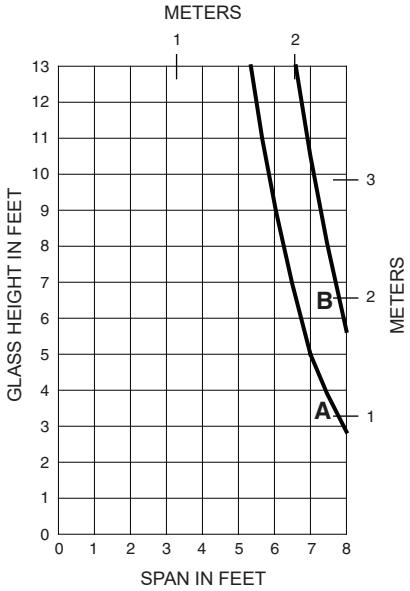


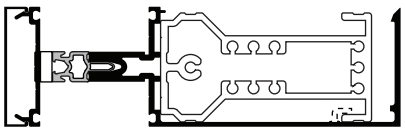
171295
171291
(DOTTED)



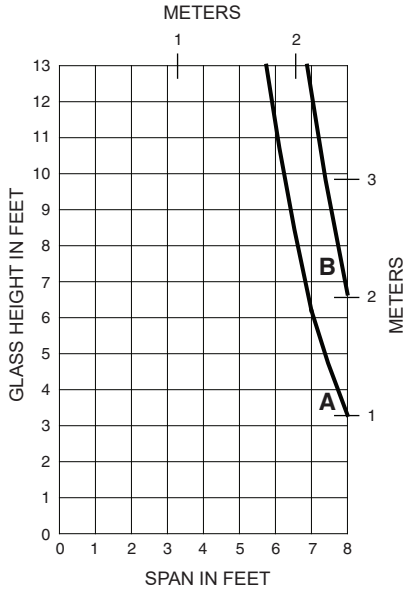


171294
171290
(DOTTED)
171077
REINF.

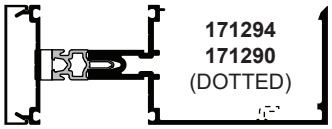




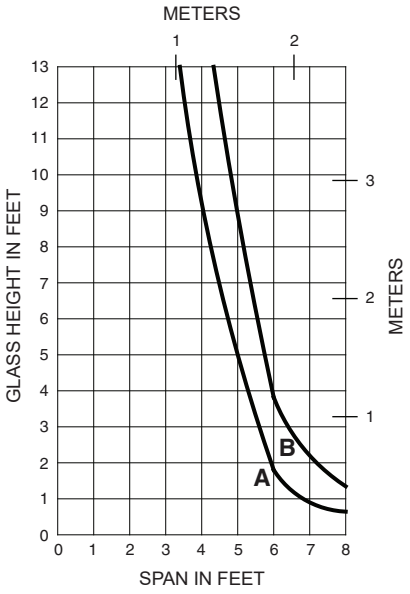
171295
171291
(DOTTED)
171078
REINF.

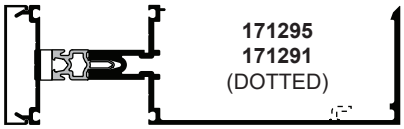


A - 1-3/4" GLASS (1/4 POINT LOADING)
B - 1-3/4" GLASS (1/8 POINT LOADING)

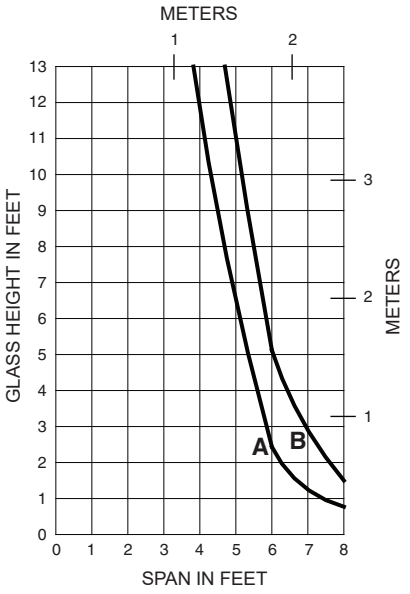


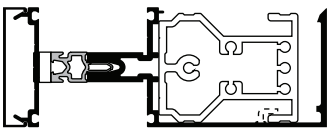
171294
171290
(DOTTED)



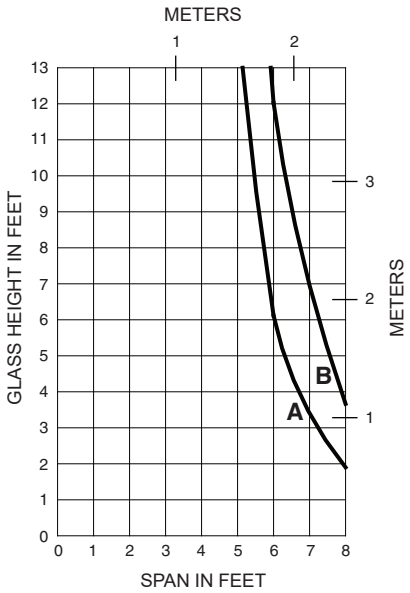


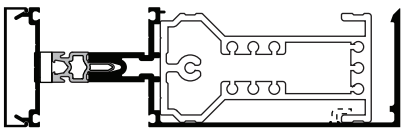
171295
171291
(DOTTED)



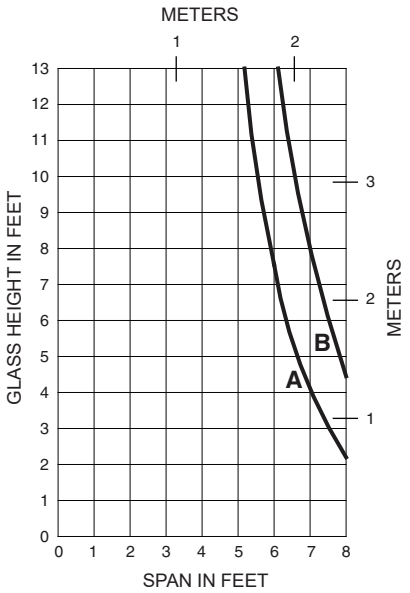


171294
171290
(DOTTED)
171077
REINF.



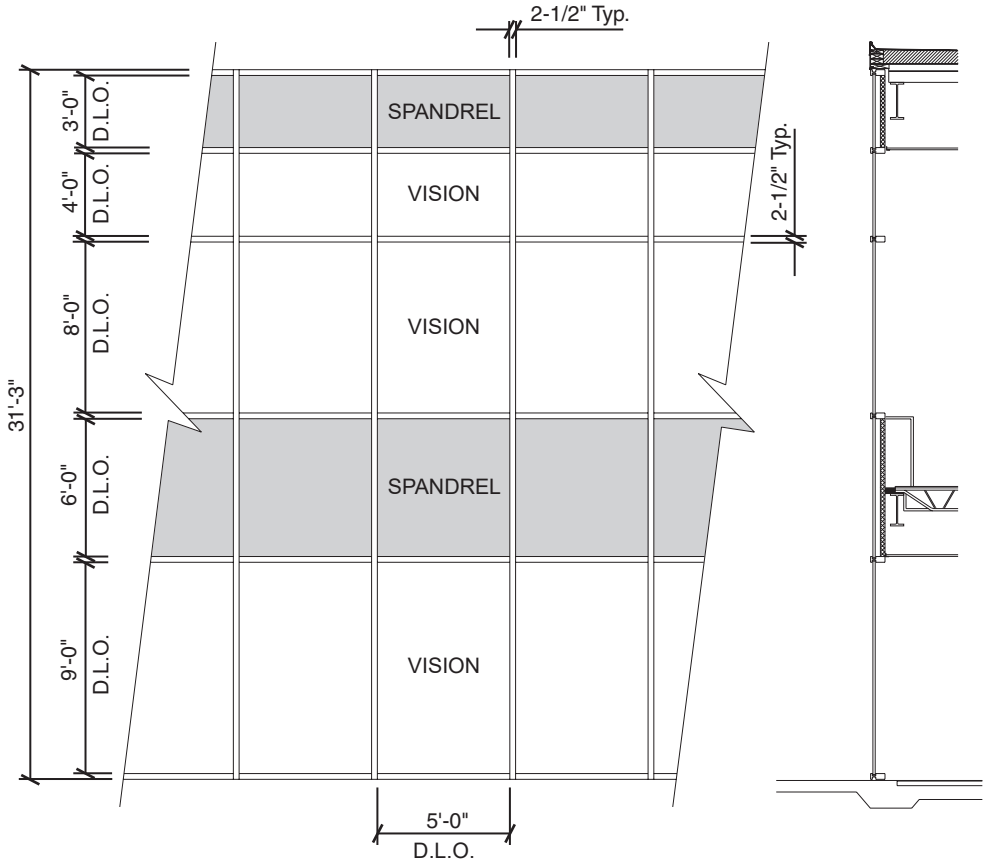


171295
171291
(DOTTED)
171078
REINF.



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

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



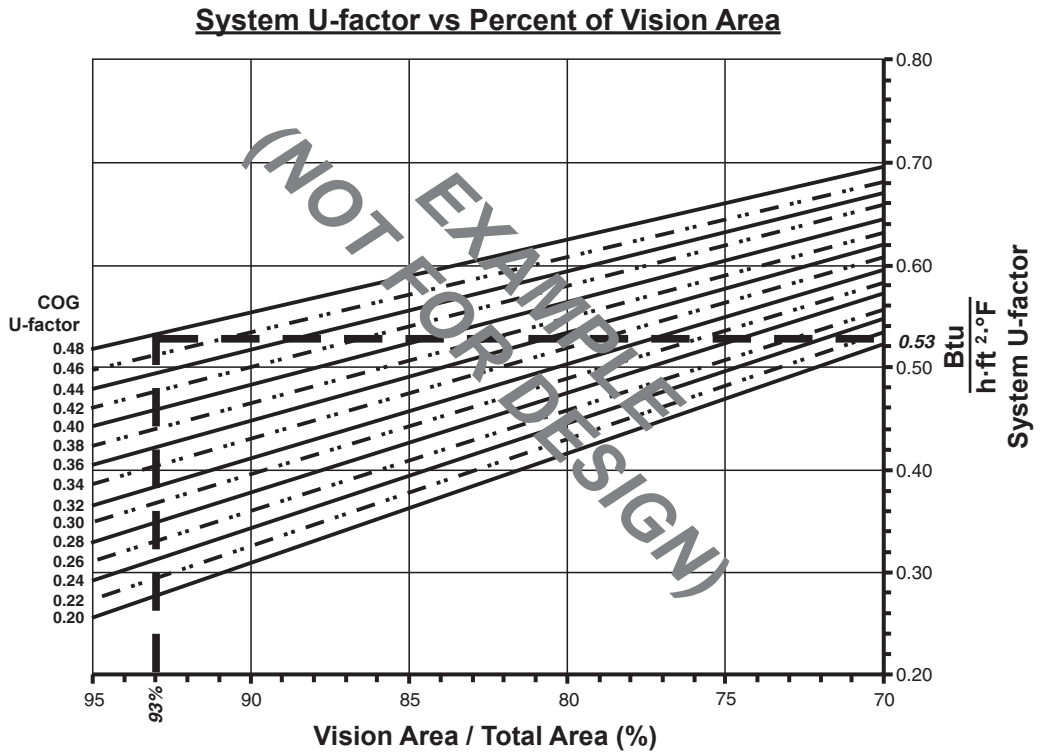
Vision Area

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

Spandrel Area

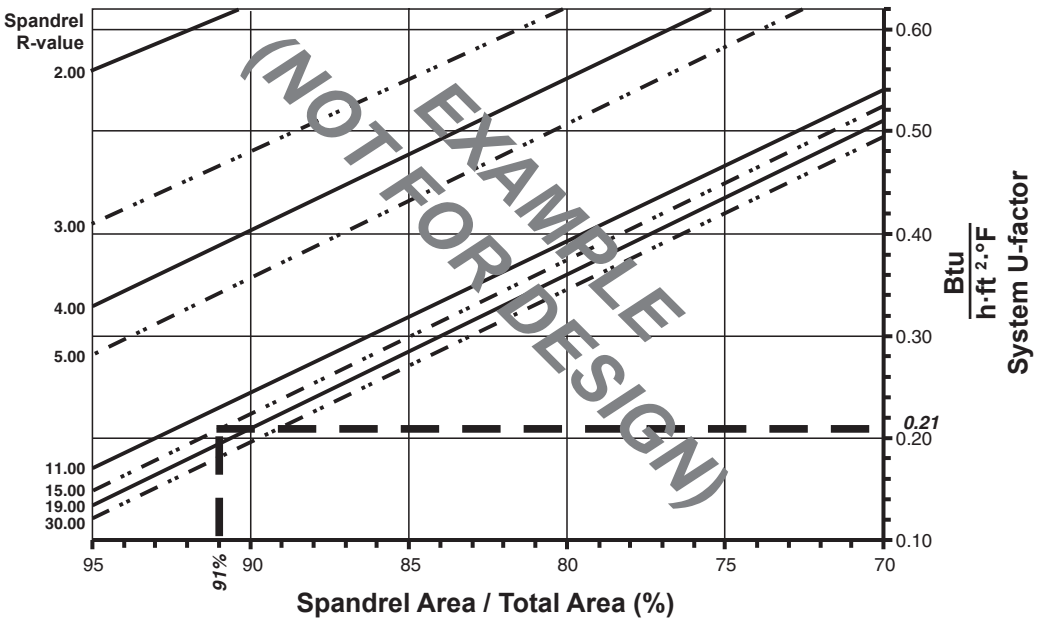
Example Spandrel R-value	= 15 (ft² · h · °F)/Btu
Spandrel Area	= 5(6 + 3) = 45.0 ft²
Total Area (Spandrel)	= 5' 2-1/2" (6' 2-1/2" + 3' 3-3/4") = 49.6 ft²
Percent of Spandrel	= (Spandrel Area ÷ Total Area)100 = (45.0 ÷ 49.6)100 = 91%

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

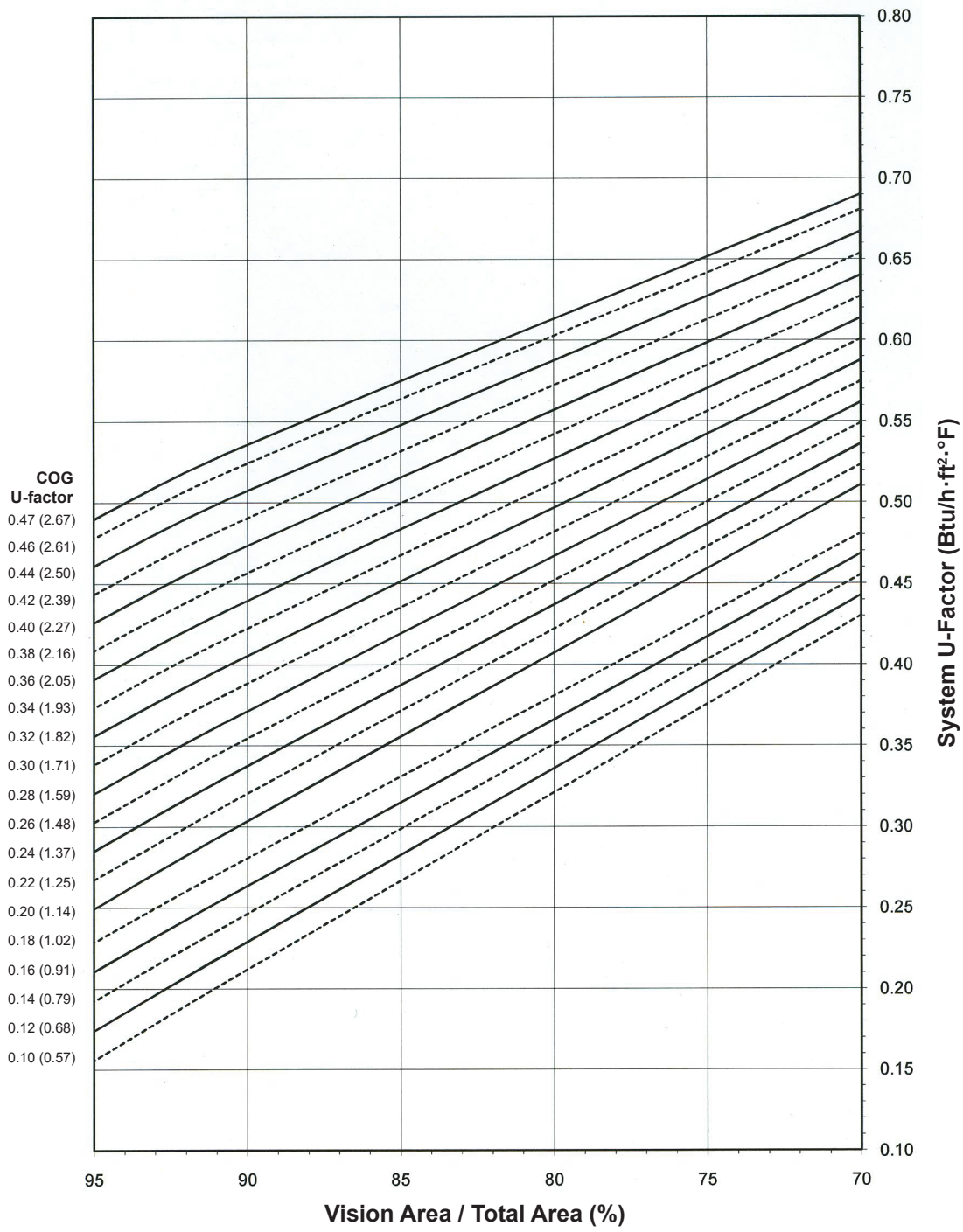


Based on a single curtain wall bay of 91% spandrel and center of spandrel R-value of 15, system U-factor is equal to 0.21 Btu/(h·ft ²·°F)

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

1" GLAZING WITH ALUMINUM PRESSURE PLATE

System U-Factor for Vision Glass



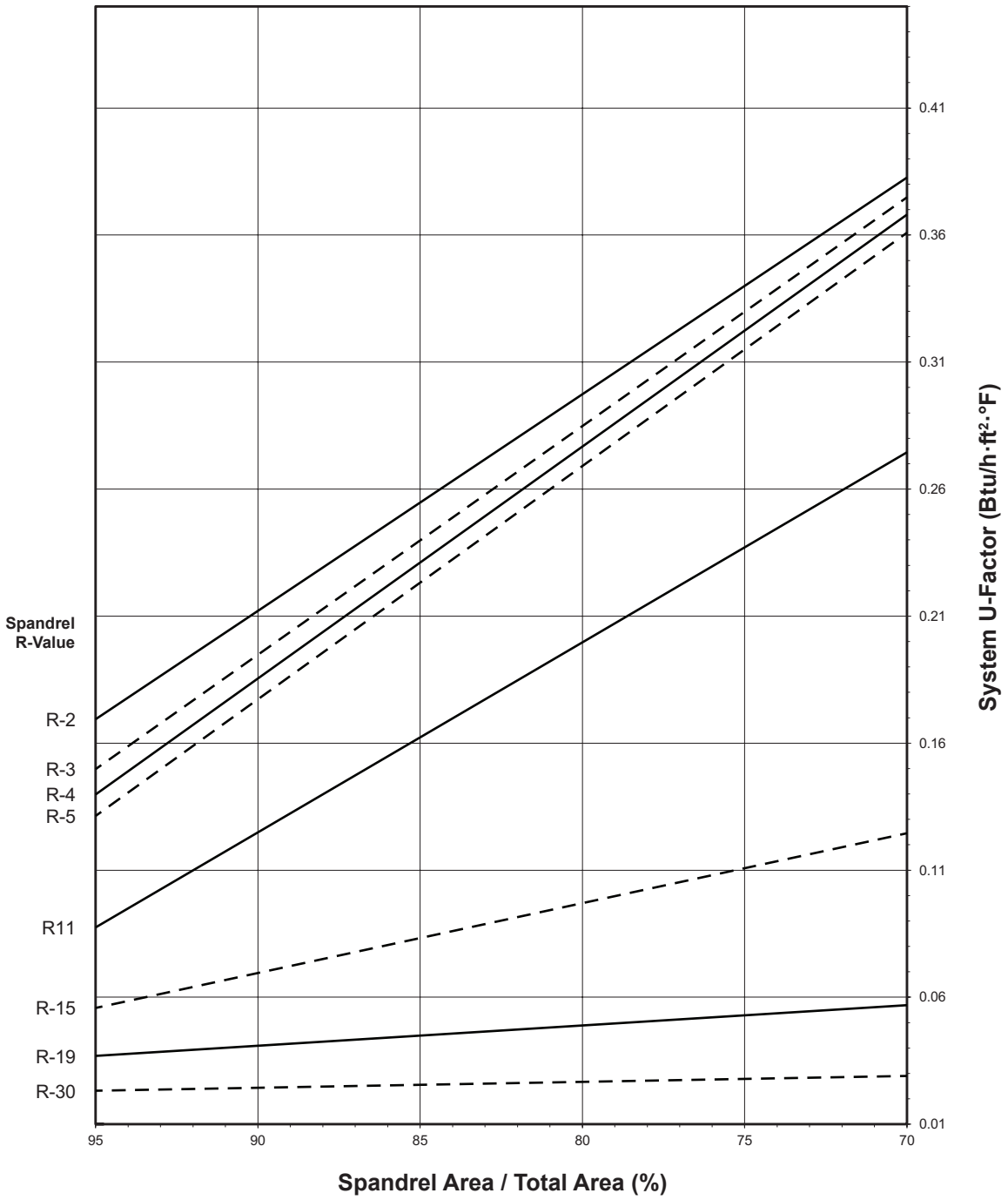
Notes for System U-Factor, SHGC and VT charts:

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.

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

1" GLAZING WITH ALUMINUM PRESSURE PLATE

System U-Factor for Spandrel Glass



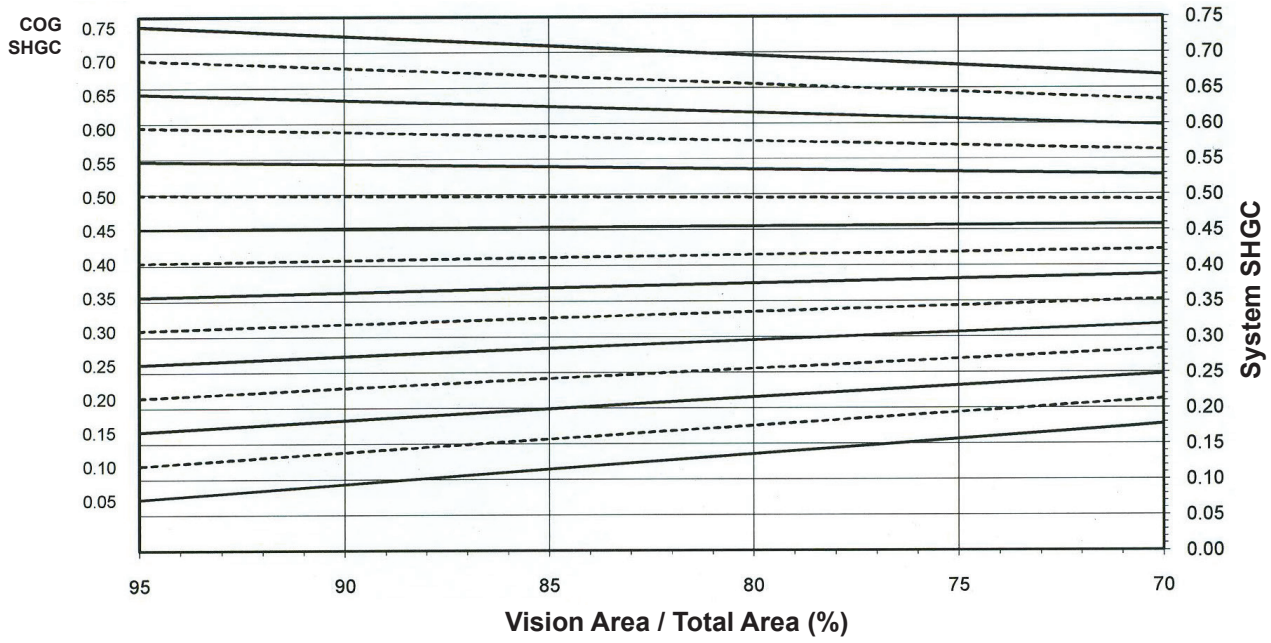
Notes for System U-Factor, SHGC and VT charts:

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.

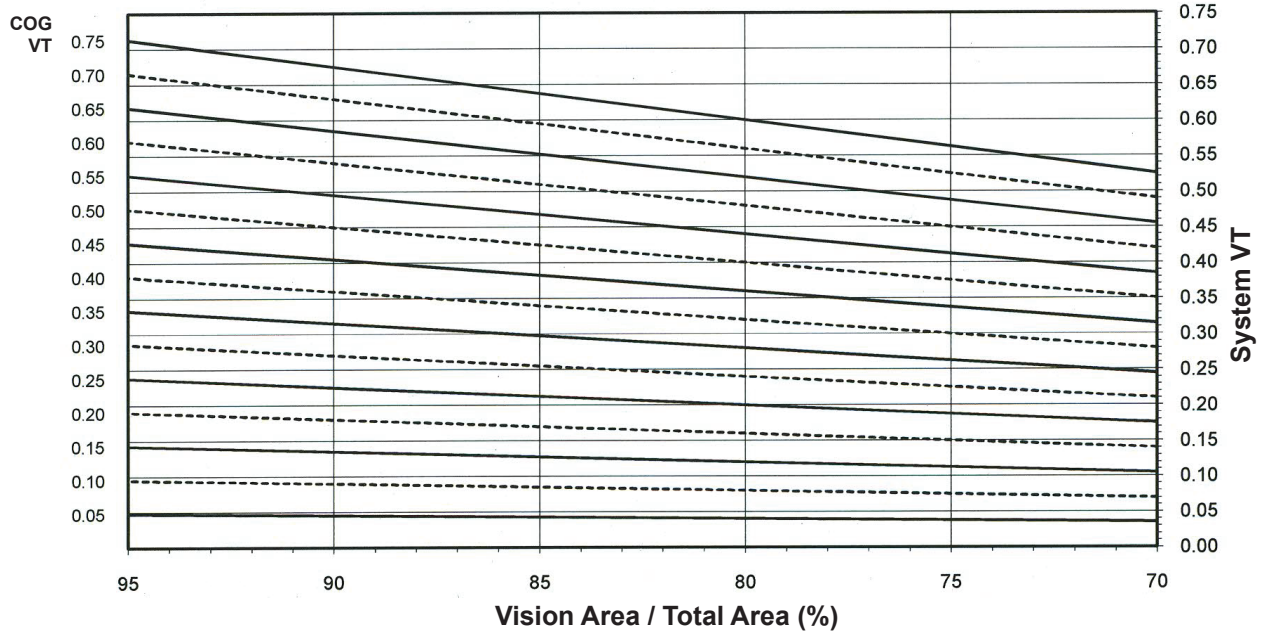
1" GLAZING WITH ALUMINUM PRESSURE PLATE

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	0.53
0.46	0.52
0.44	0.50
0.42	0.49
0.40	0.47
0.38	0.45
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	0.33
0.22	0.32
0.20	0.30
0.18	0.28
0.16	0.26
0.14	0.24
0.12	0.23
0.10	0.21

1" GLAZING WITH ALUMINUM PRESSURE PLATE

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	0.72
0.70	0.68
0.65	0.63
0.60	0.59
0.55	0.54
0.50	0.50
0.45	0.45
0.40	0.41
0.35	0.36
0.30	0.32
0.25	0.27
0.20	0.23
0.15	0.18
0.10	0.14
0.05	0.09

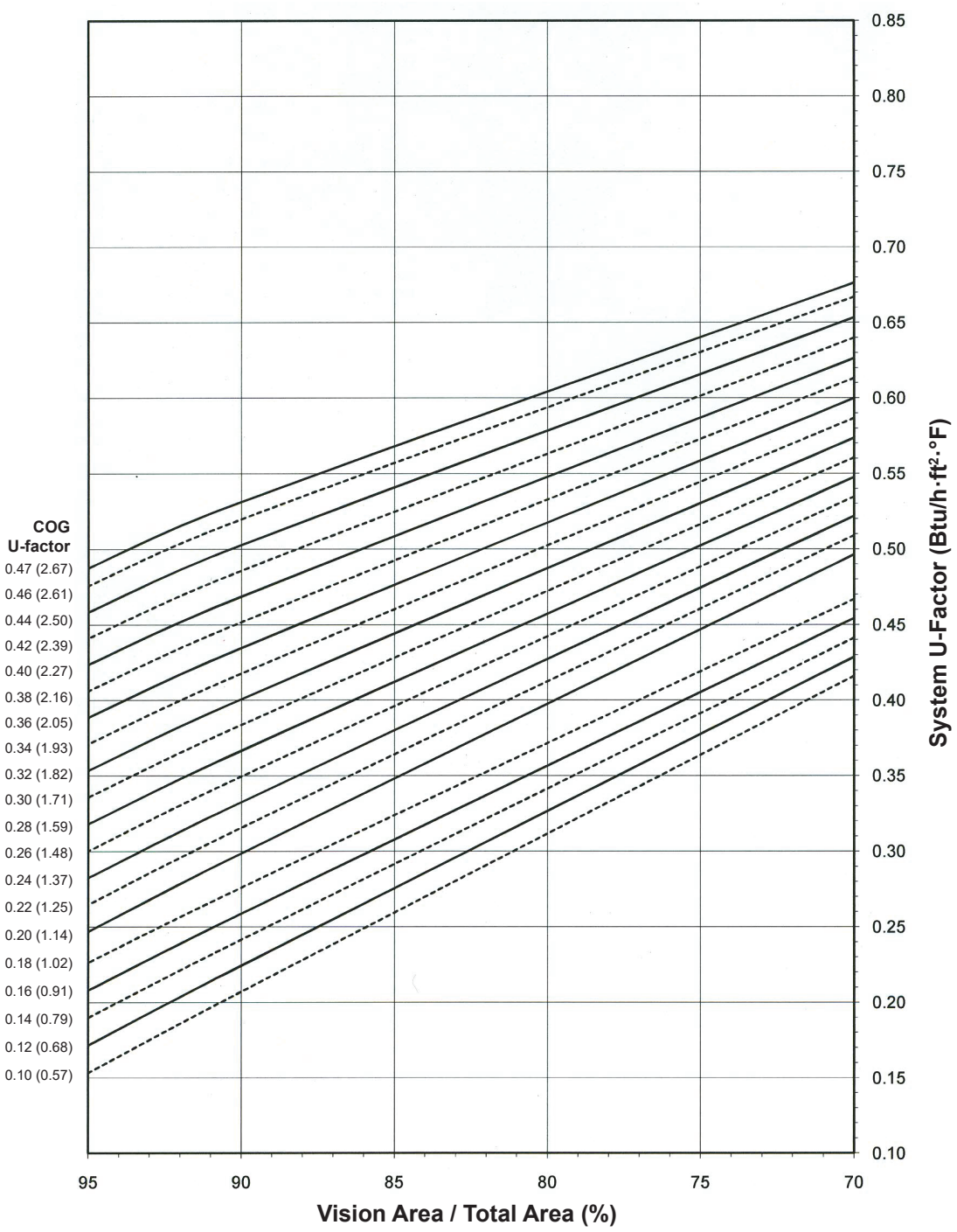
Visible Transmittance [2]

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

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

1" GLAZING WITH FIBERGLASS PRESSURE PLATE

System U-Factor for Vision Glass



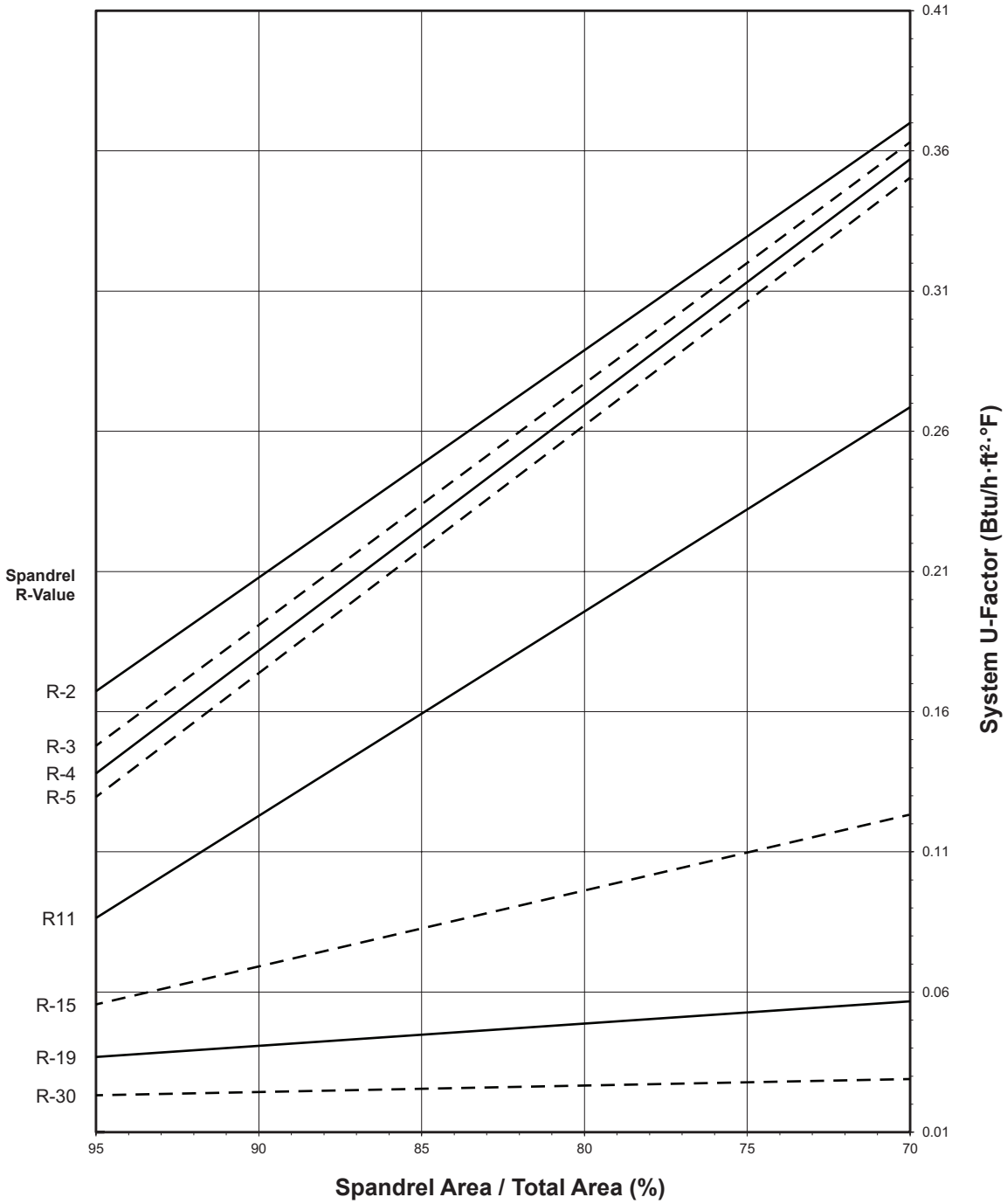
Notes for System U-Factor, SHGC and VT charts:

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.

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

1" GLAZING WITH FIBERGLASS PRESSURE PLATE

System U-Factor for Spandrel Glass

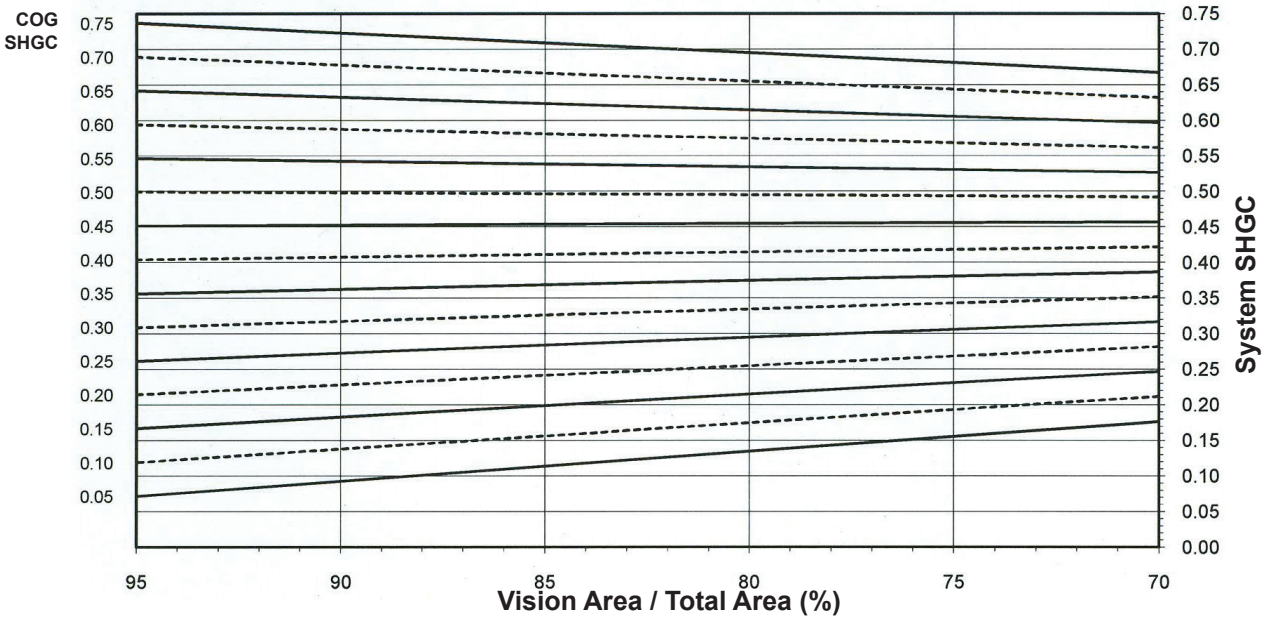


Notes for System U-Factor, SHGC and VT charts:

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.

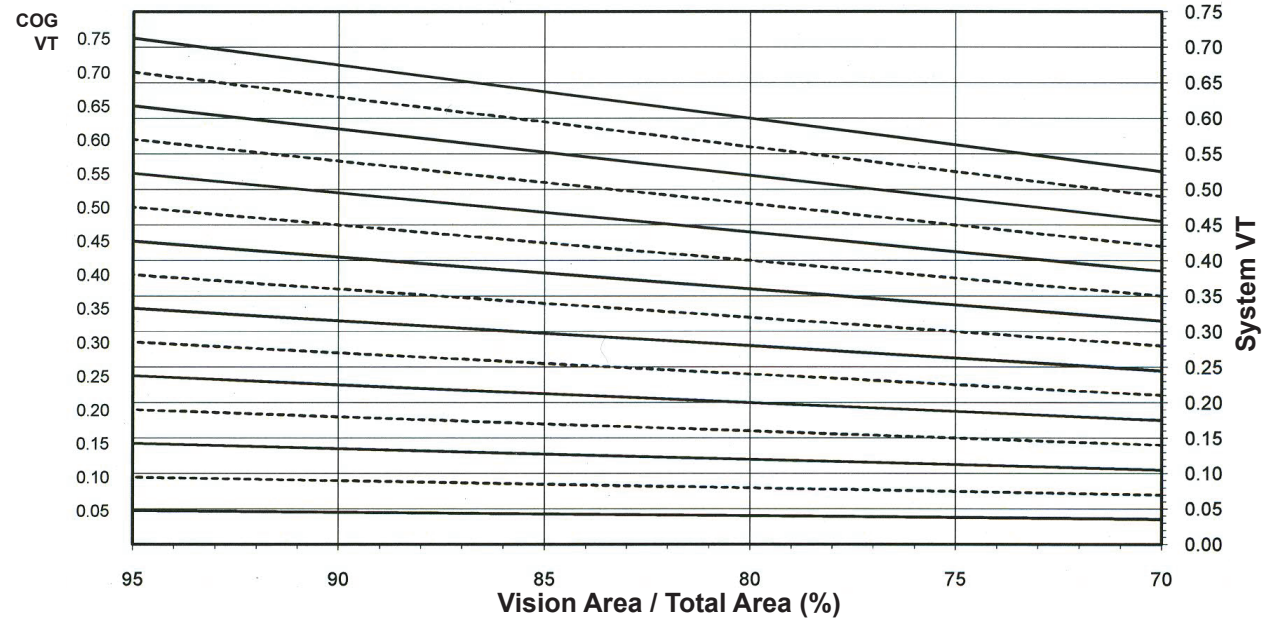
1" GLAZING WITH FIBERGLASS PRESSURE PLATE

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	0.53
0.46	0.52
0.44	0.50
0.42	0.48
0.40	0.47
0.38	0.45
0.36	0.43
0.34	0.41
0.32	0.40
0.30	0.38
0.28	0.36
0.26	0.35
0.24	0.33
0.22	0.31
0.20	0.30
0.18	0.27
0.16	0.26
0.14	0.24
0.12	0.22
0.10	0.20

1" GLAZING WITH FIBERGLASS PRESSURE PLATE

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]

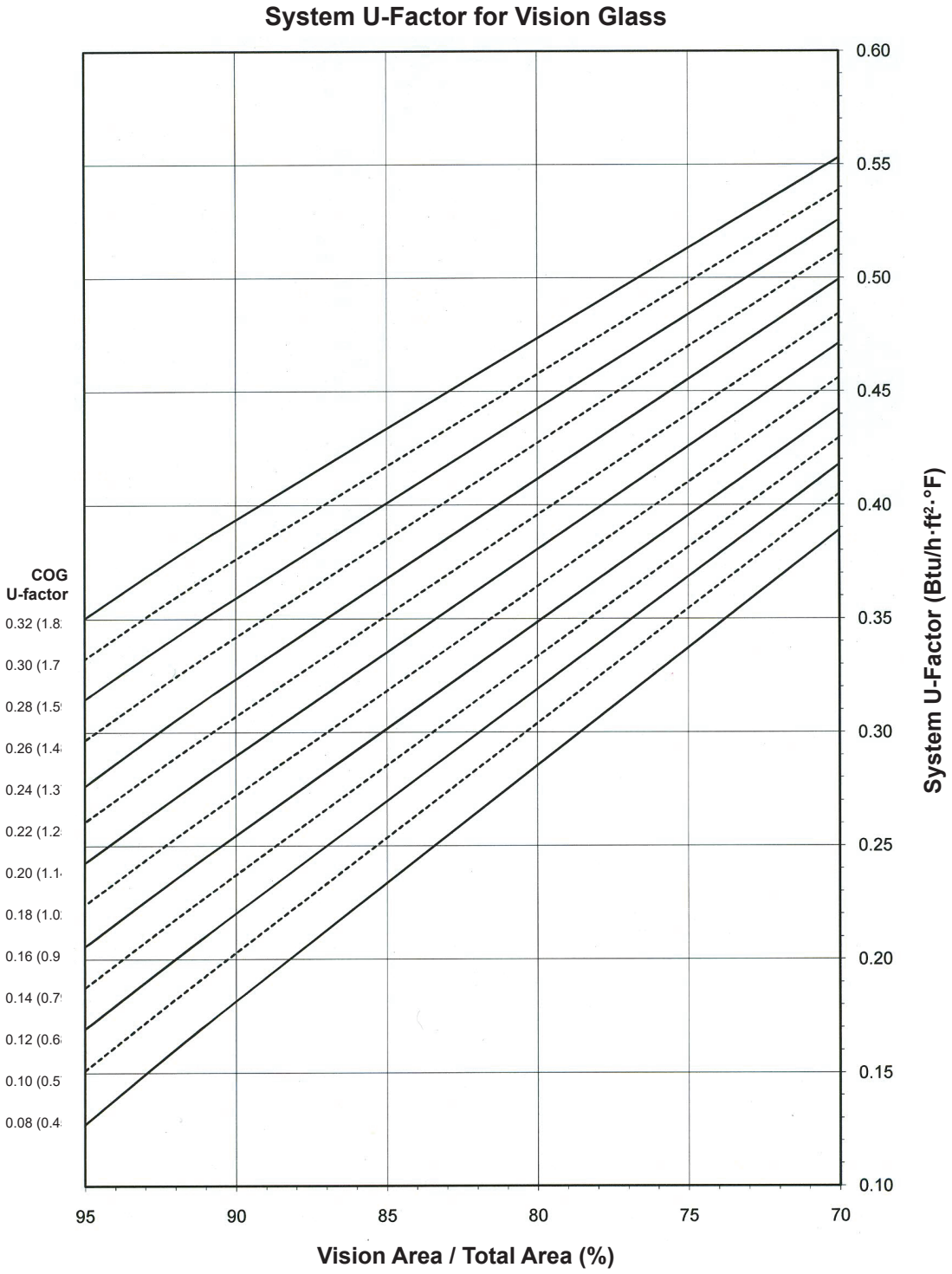
Glass SHGC [3]	Overall SHGC [4]
0.75	0.72
0.70	0.68
0.65	0.63
0.60	0.59
0.55	0.54
0.50	0.50
0.45	0.45
0.40	0.41
0.35	0.36
0.30	0.32
0.25	0.27
0.20	0.23
0.15	0.18
0.10	0.14
0.05	0.09

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

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

1-3/4" GLAZING WITH ALUMINUM PRESSURE PLATE



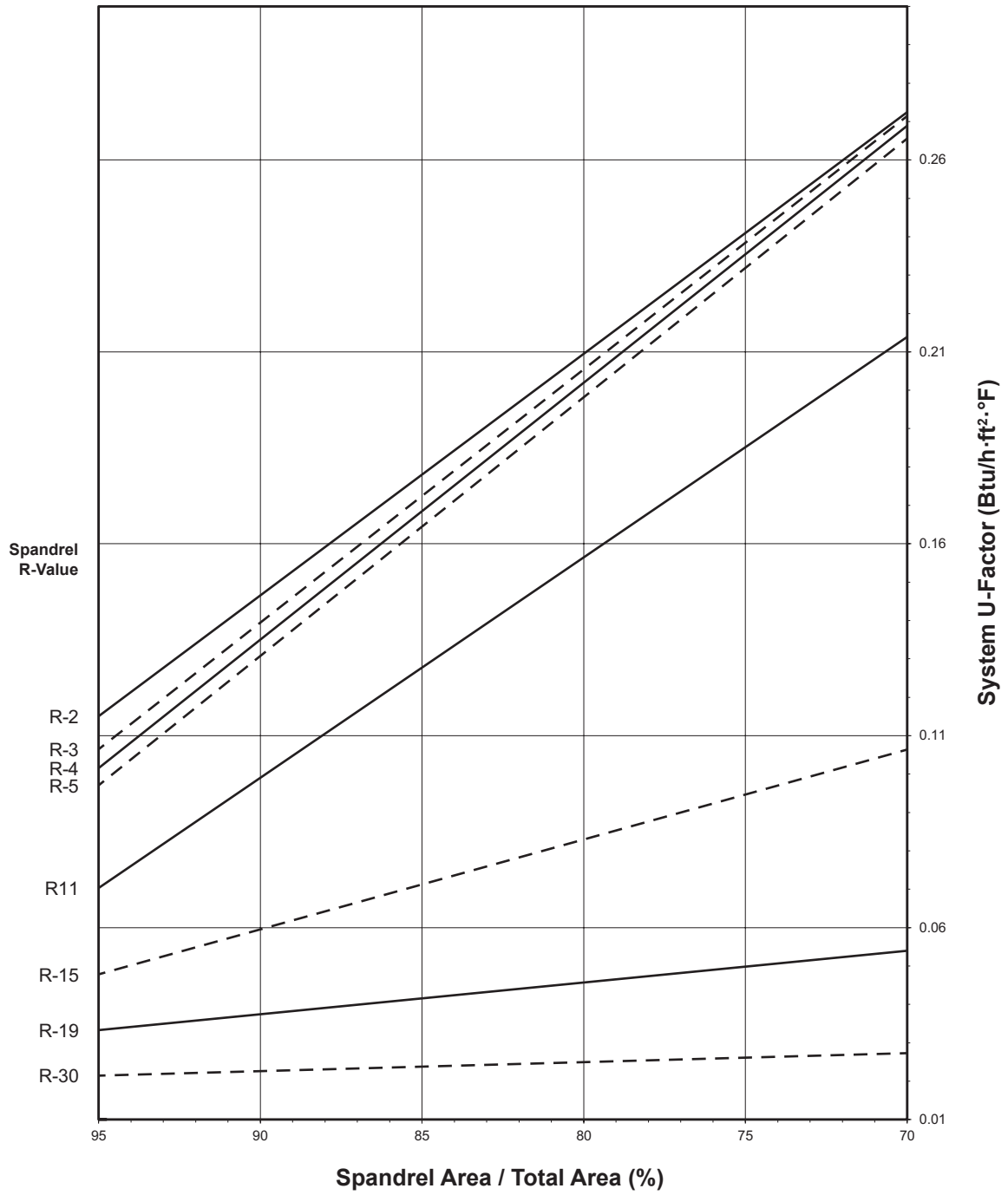
Notes for System U-Factor, SHGC and VT charts:

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.

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

1-3/4" GLAZING WITH ALUMINUM PRESSURE PLATE

System U-Factor for Spandrel Glass

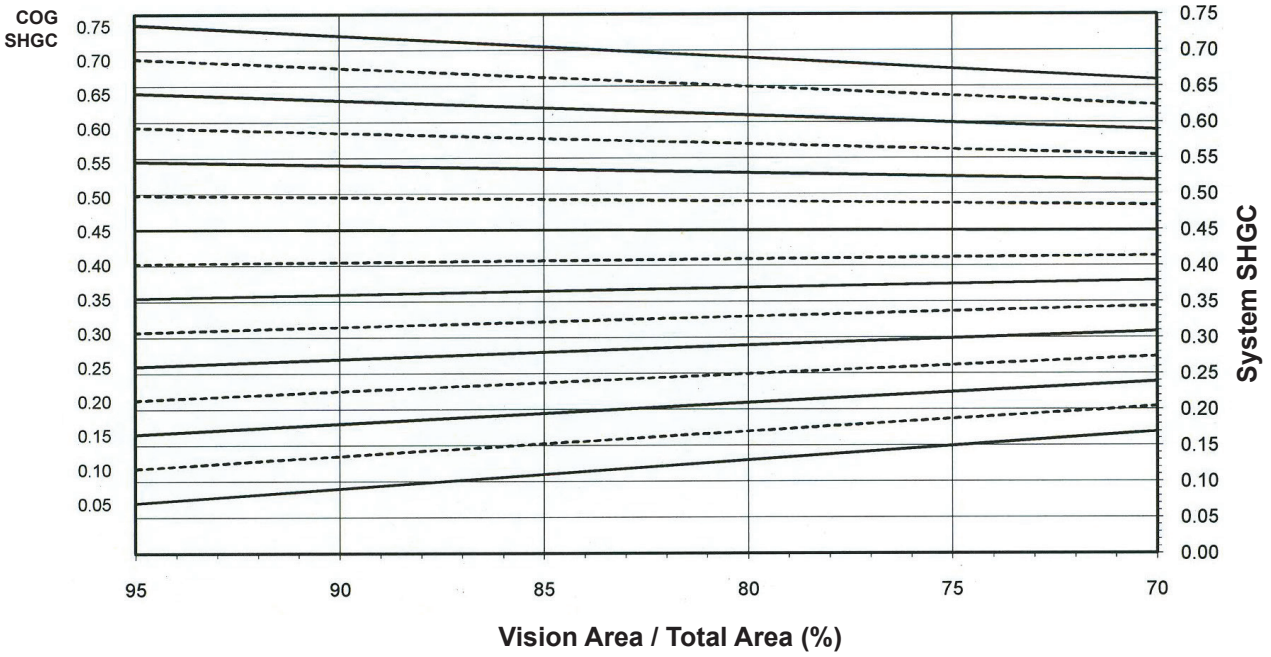


Notes for System U-Factor, SHGC and VT charts:

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.

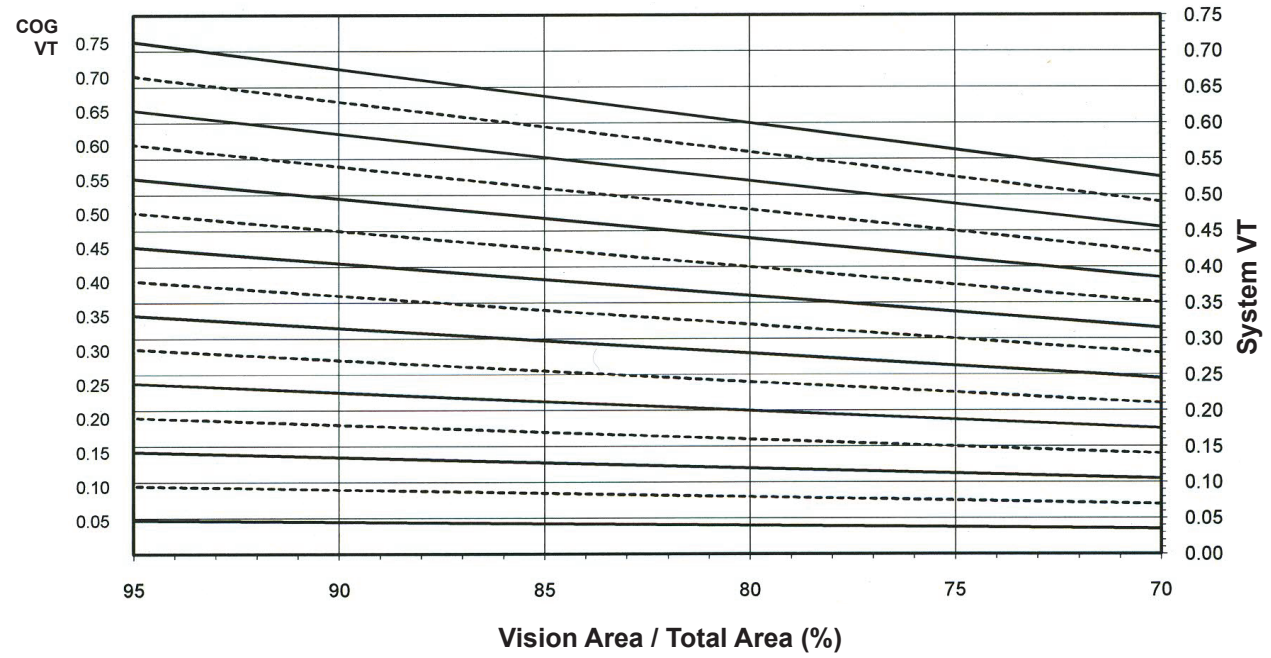
1-3/4" GLAZING WITH ALUMINUM PRESSURE PLATE

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]
0.32	0.39
0.30	0.37
0.28	0.36
0.26	0.34
0.24	0.32
0.22	0.30
0.20	0.29
0.18	0.27
0.16	0.25
0.14	0.23
0.12	0.22
0.10	0.20
0.08	0.18

1-3/4" GLAZING WITH ALUMINUM PRESSURE PLATE

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

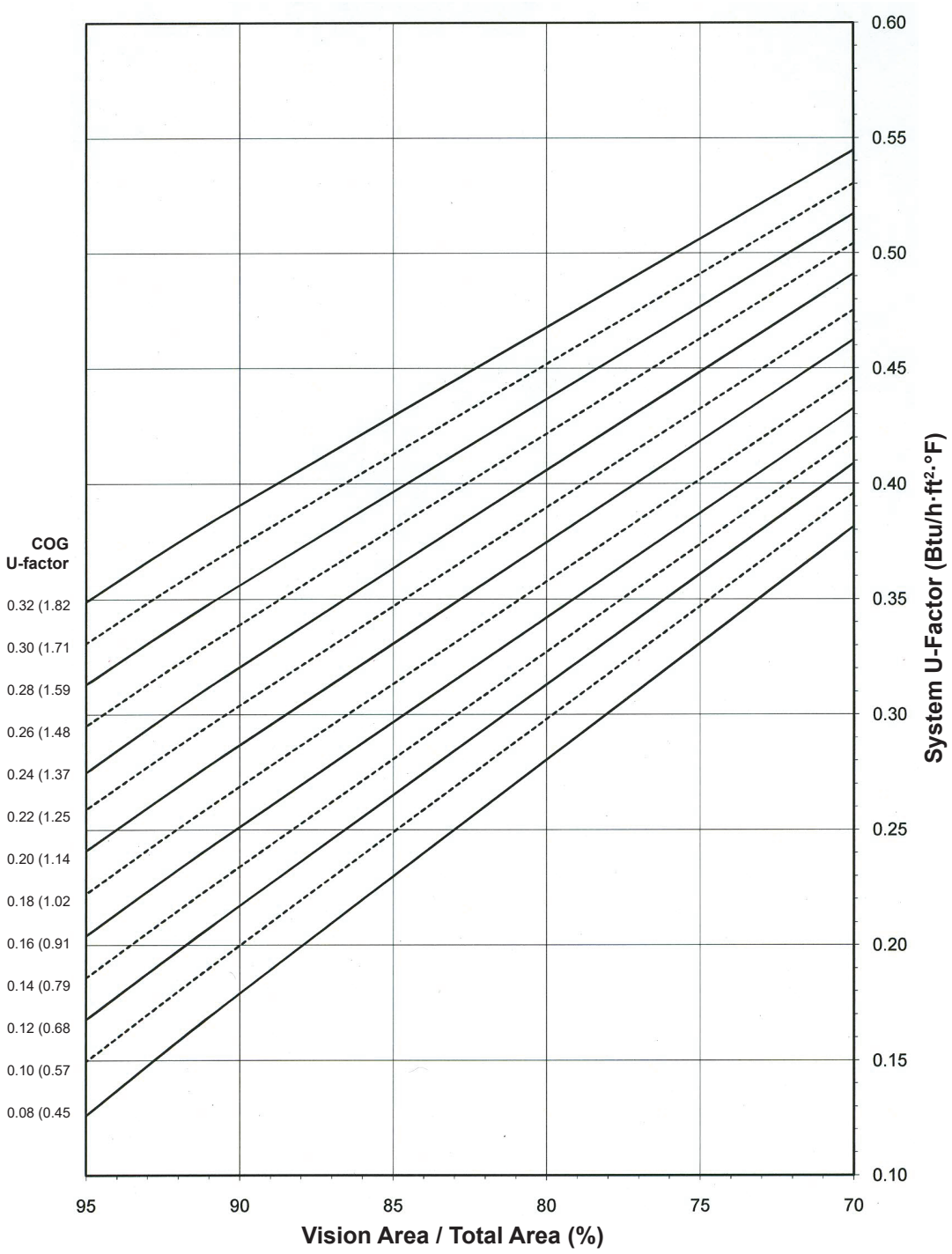
Visible Transmittance [2]

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

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

1-3/4" GLAZING WITH FIBERGLASS PRESSURE PLATE

System U-Factor for Vision Glass



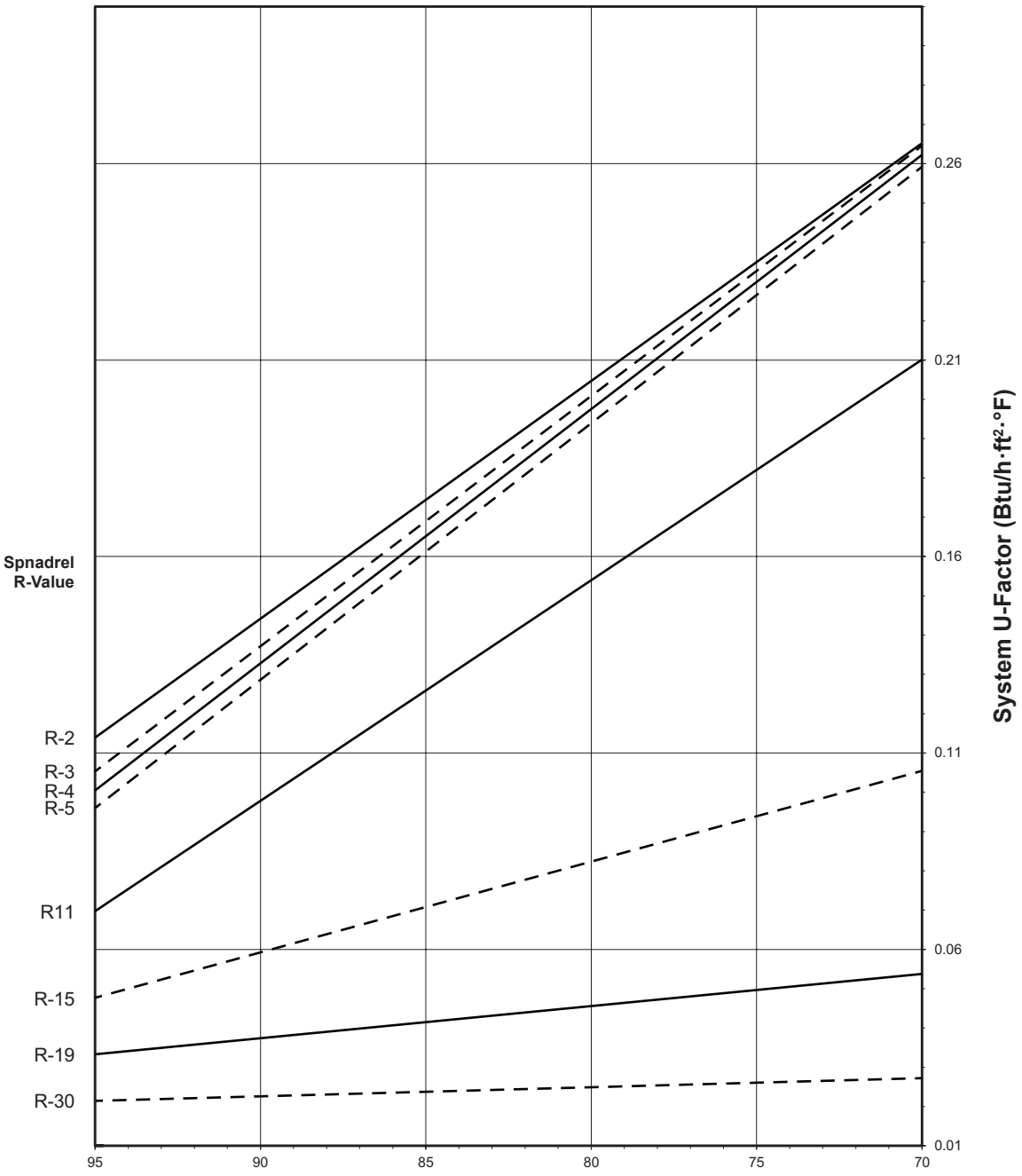
Notes for System U-Factor, SHGC and VT charts:

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.

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

1-3/4" GLAZING WITH FIBERGLASS PRESSURE PLATE

System U-Factor for Spandrel Glass

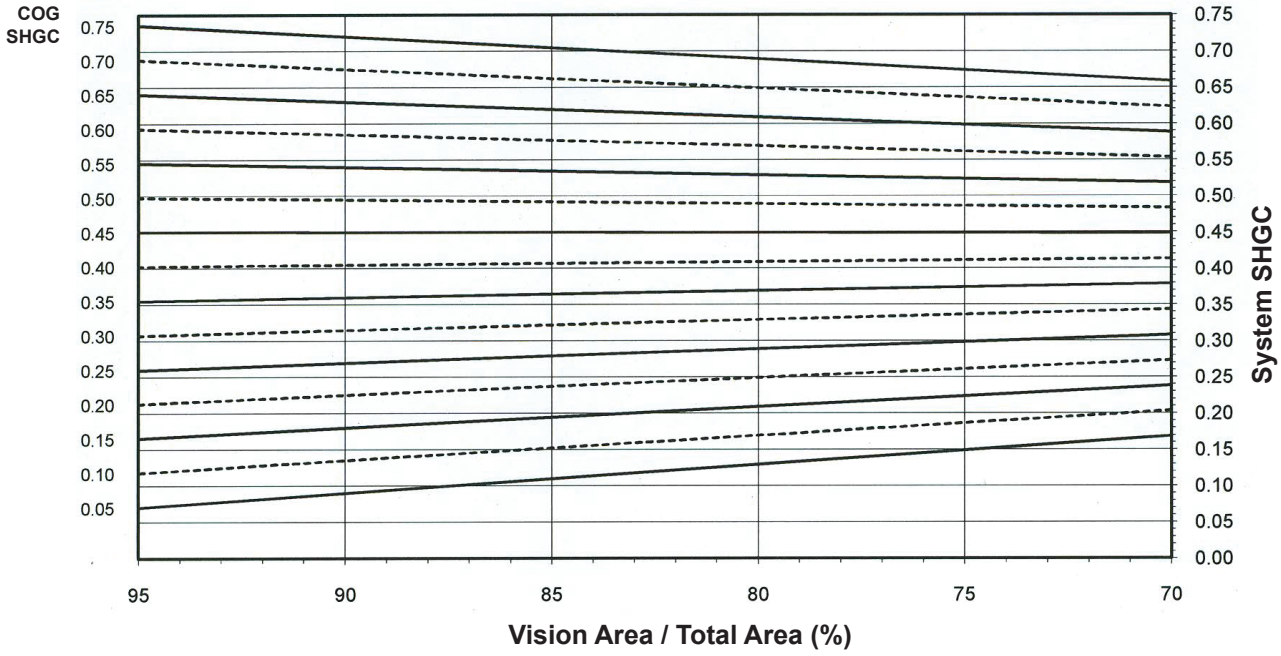


Notes for System U-Factor, SHGC and VT charts:

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.

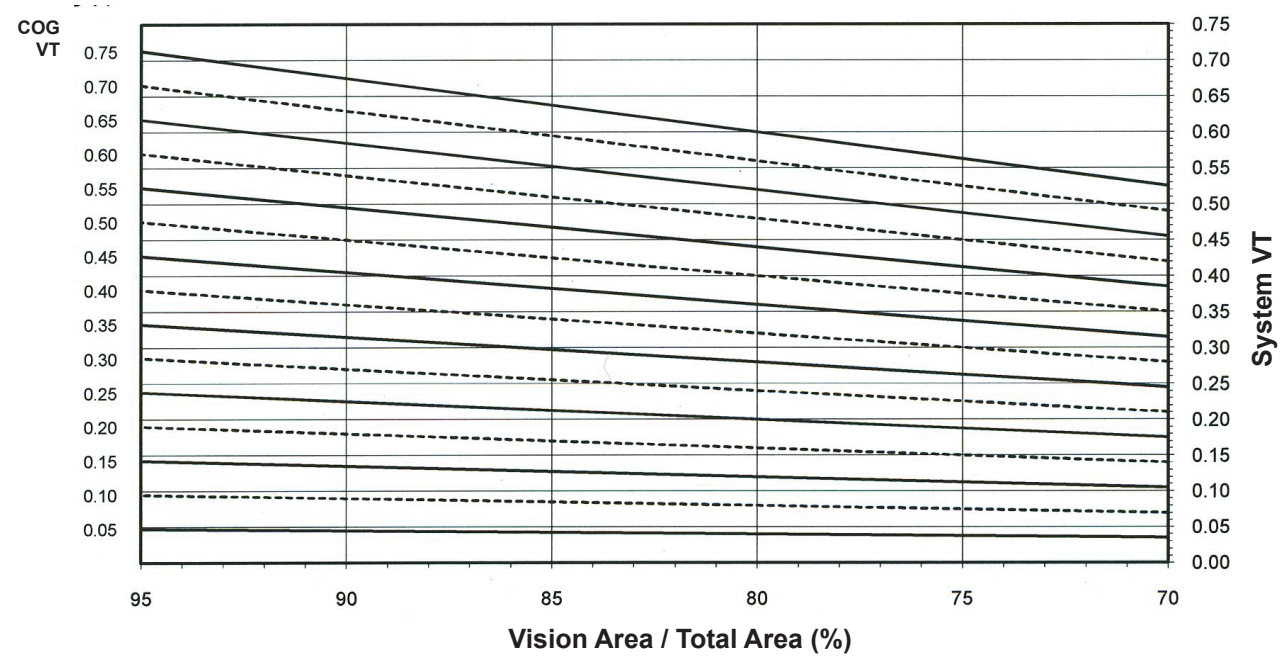
1-3/4" GLAZING WITH FIBERGLASS PRESSURE PLATE

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]
0.32	0.39
0.30	0.37
0.28	0.35
0.26	0.34
0.24	0.32
0.22	0.30
0.20	0.28
0.18	0.27
0.16	0.25
0.14	0.23
0.12	0.21
0.10	0.20
0.08	0.18

1-3/4" GLAZING WITH FIBERGLASS PRESSURE PLATE

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