

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 option
- 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
- Seismic performance tested with AAMA 501.4 and AAMA 501.6 standards

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.

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

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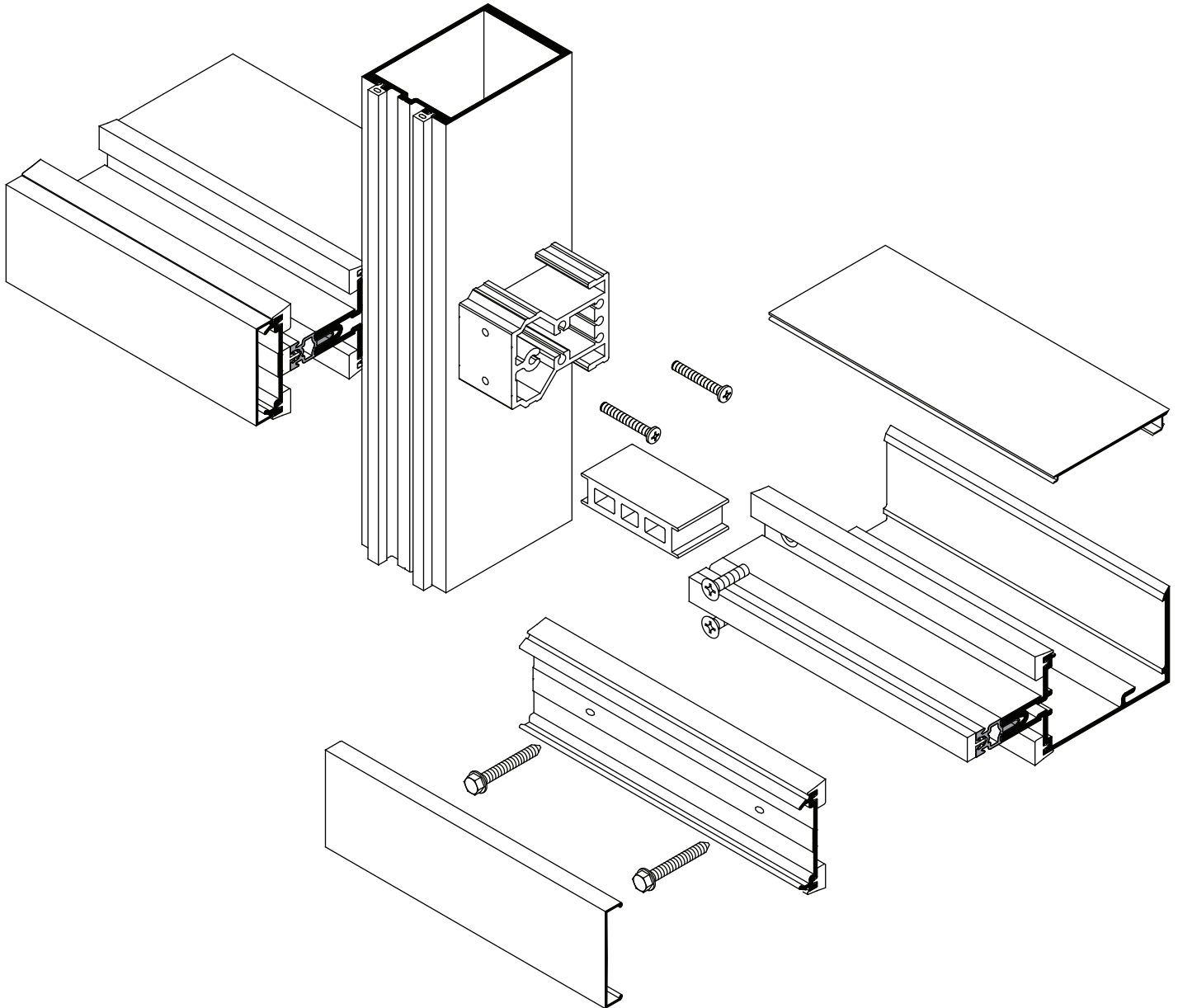
Metric (SI) conversion figures are included throughout these details for reference. Numbers in parentheses () are millimeters unless otherwise noted.

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

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

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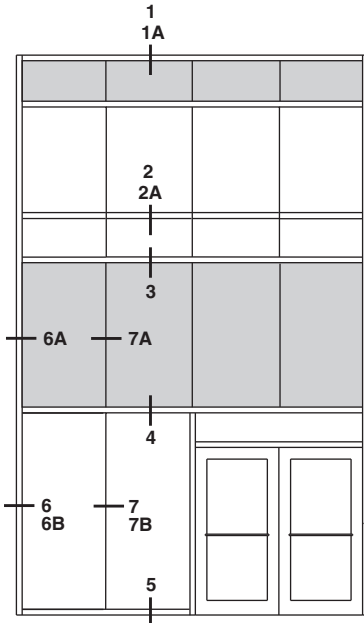
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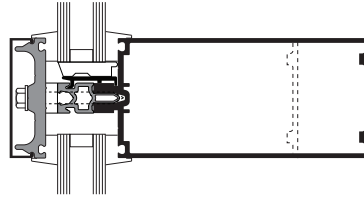
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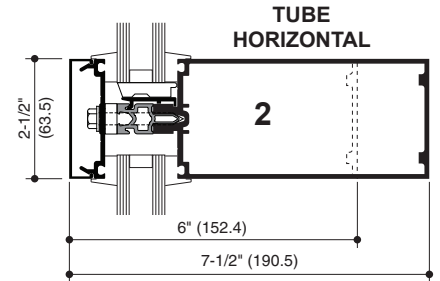
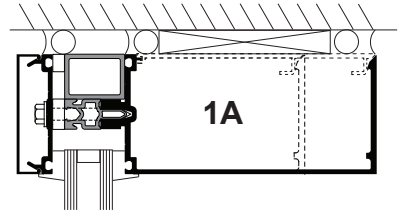
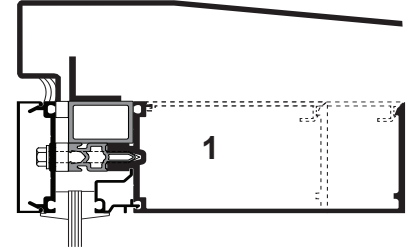
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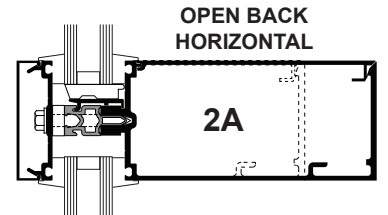
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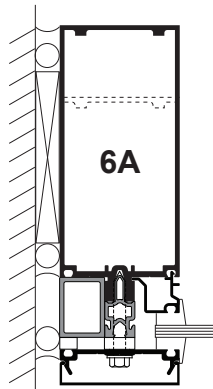
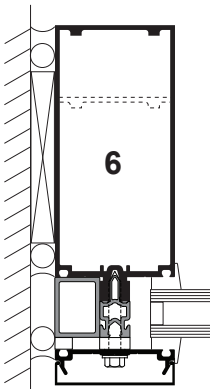
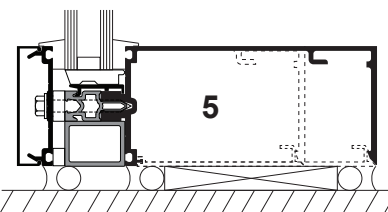
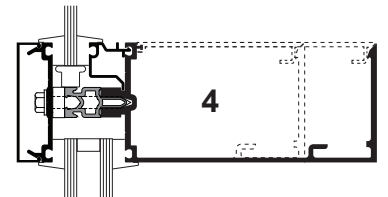
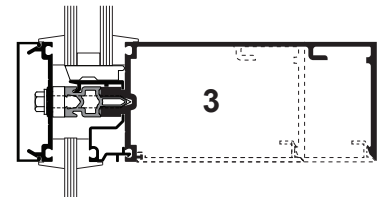
OPTIONAL FIBERGLASS PRESSURE PLATE



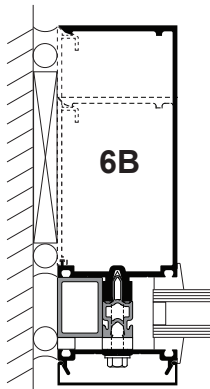
TUBE HORIZONTAL



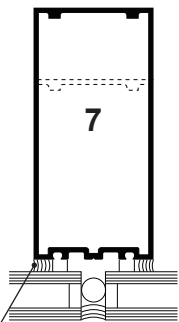
OPEN BACK HORIZONTAL



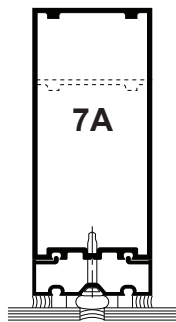
1/4" INFILL ADAPTER



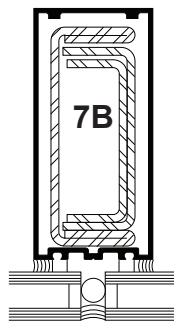
OPEN BACK JAMB



Structural Silicone Sealant (by Others)*



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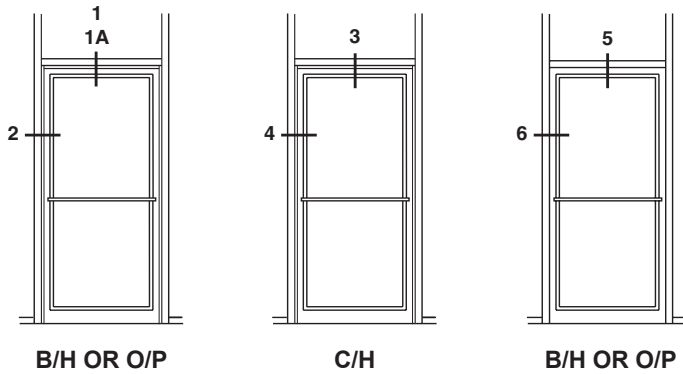
STEEL REINFORCING AS REQUIRED

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

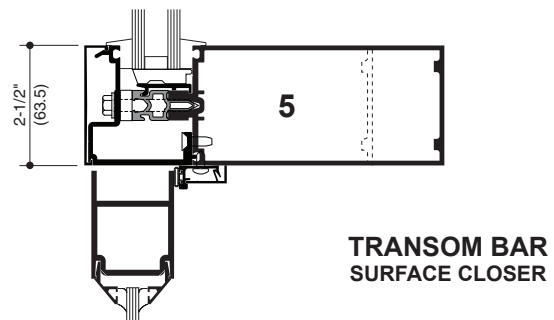
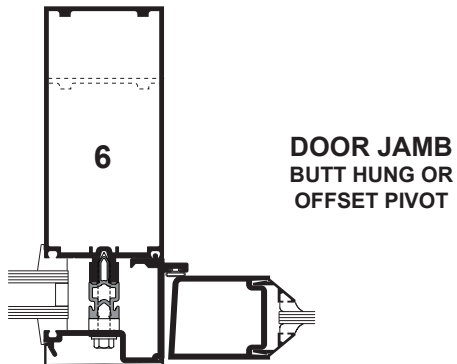
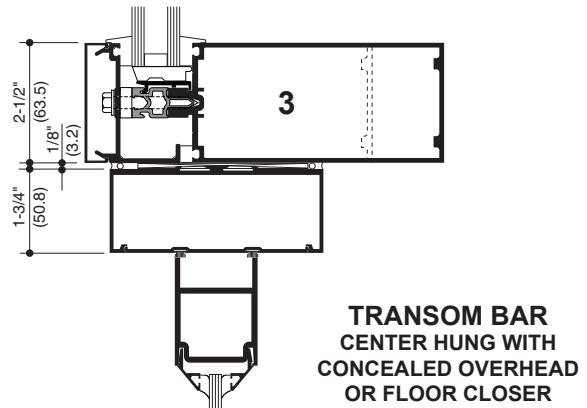
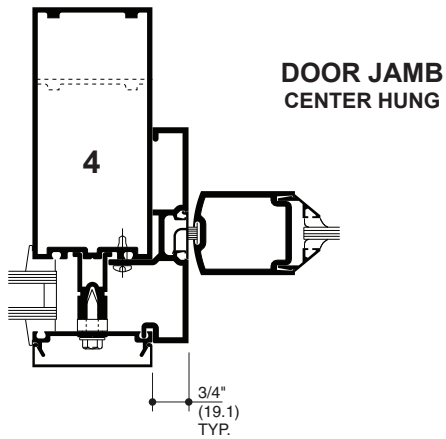
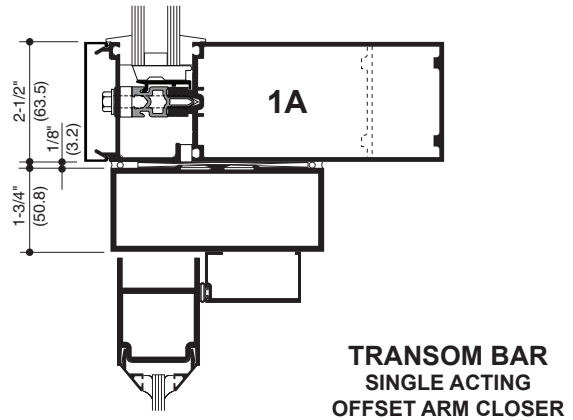
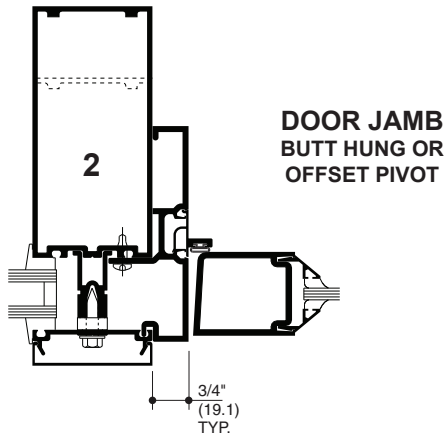
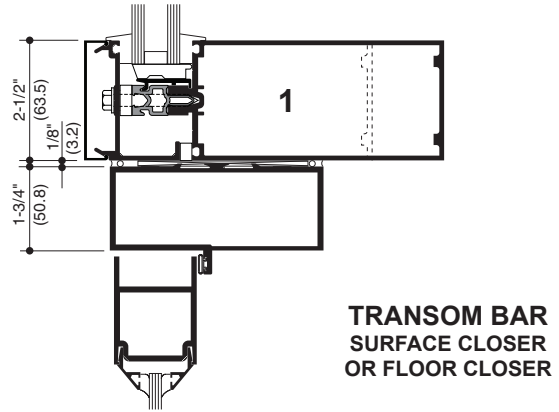
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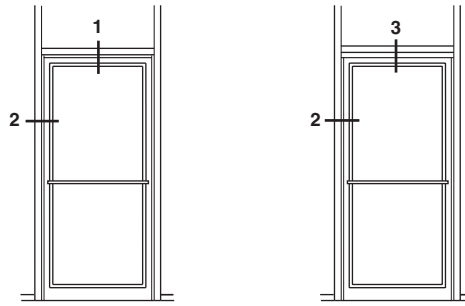
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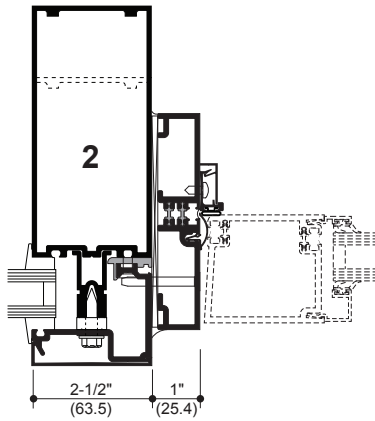
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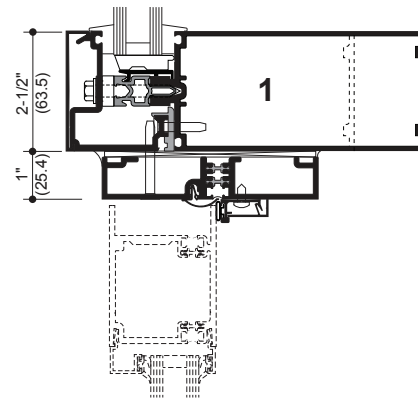


B/H OR O/P

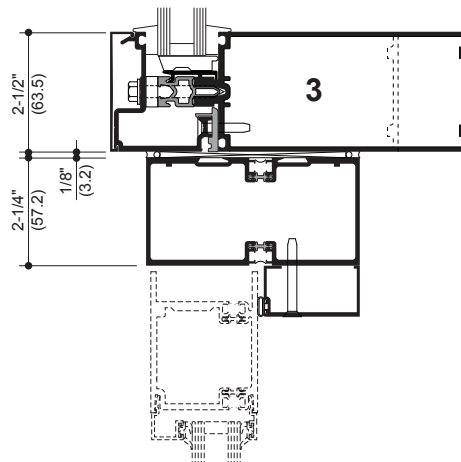
ELEVATION IS NUMBER KEYED TO DETAILS



**DOOR JAMB
BUTT HUNG OR
OFFSET PIVOT**



**TRANSOM BAR
SURFACE CLOSER
OR FLOOR CLOSER**

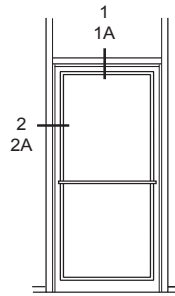


**TRANSOM BAR
CONCEALED CLOSER**

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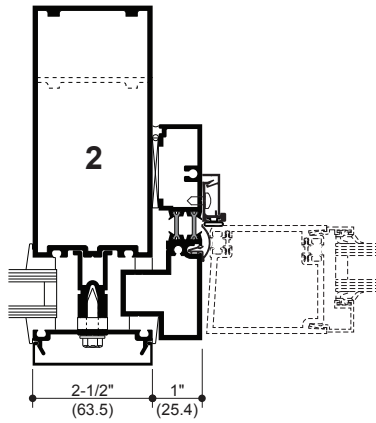
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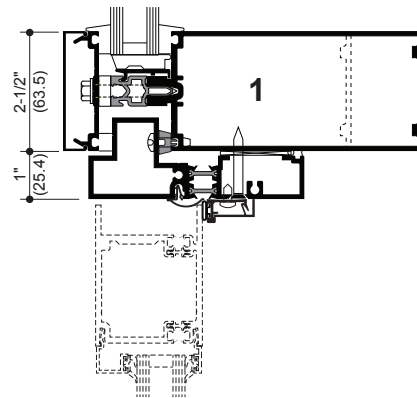


B/H OR O/P

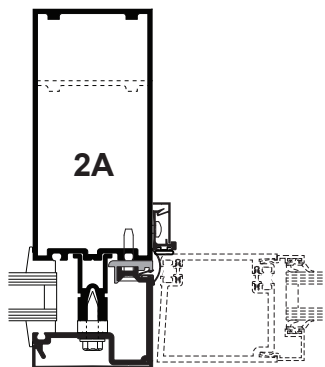
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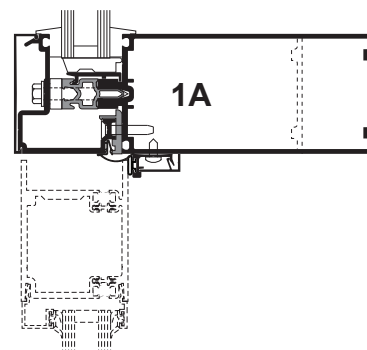
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**TRANSOM BAR
SURFACE CLOSER
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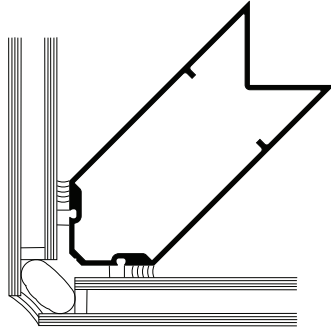
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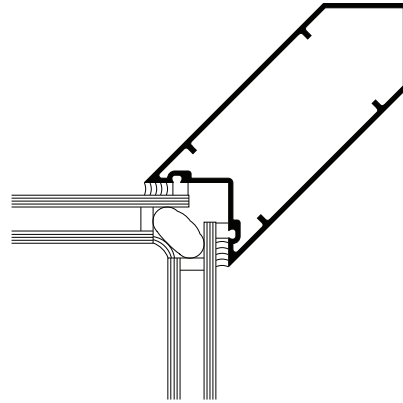
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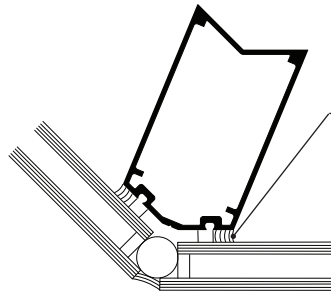
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90° OUTSIDE CORNER

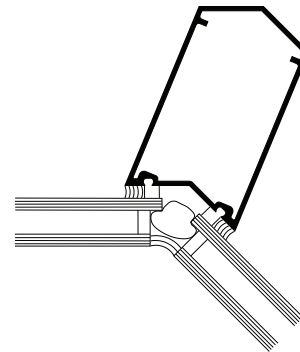


90° INSIDE CORNER

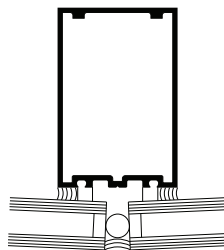


135° OUTSIDE CORNER

Structural Silicone Sealant (by Others)*

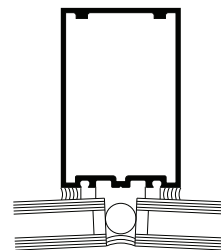


135° INSIDE CORNER



0° TO 5°

OUTSIDE SPLOYED MULLIONS



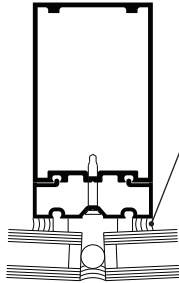
0° TO 5°

INSIDE SPLOYED MULLIONS

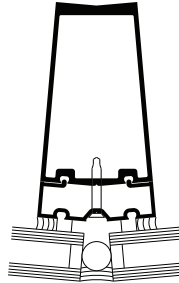
OTHER SPLOY OPTIONS AVAILABLE

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

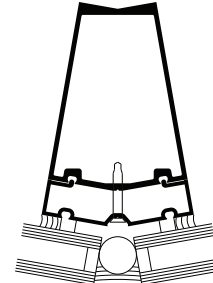
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0° TO 5°

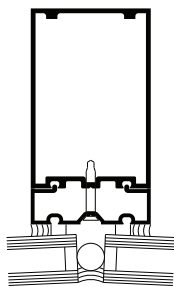


5° TO 15°

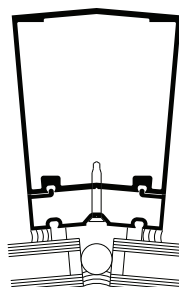


15° TO 25°

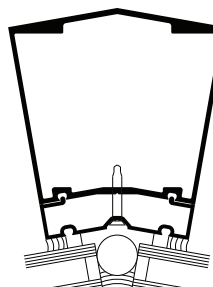
OUTSIDE SPLAYED MULLIONS



0° TO 5°



5° TO 15°



15° TO 25°

INSIDE SPLAYED MULLIONS

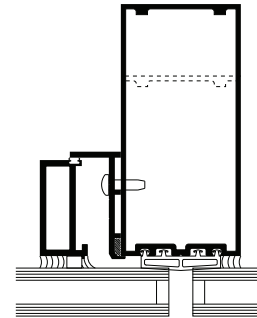
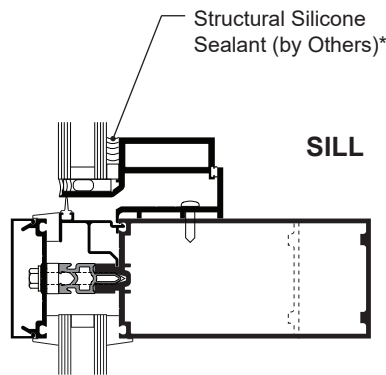
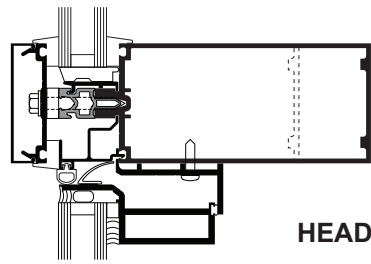
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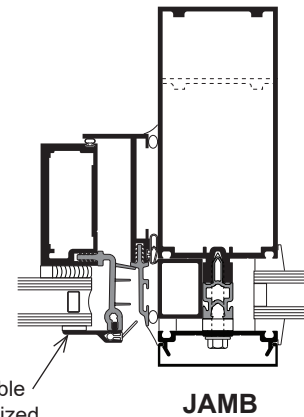
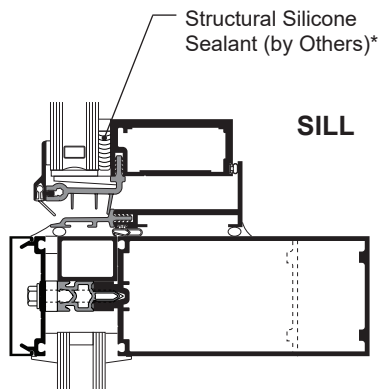
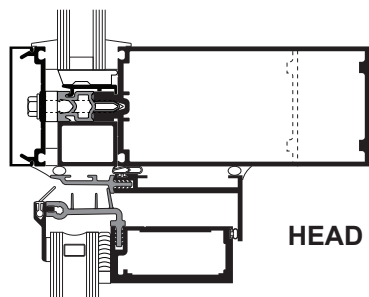
Additional information and CAD details are available at www.kawneer.com

GLASSvent® Windows for Curtain Wall



NOTE: Project-out GLASSvent® window shown

GLASSvent® UT Windows



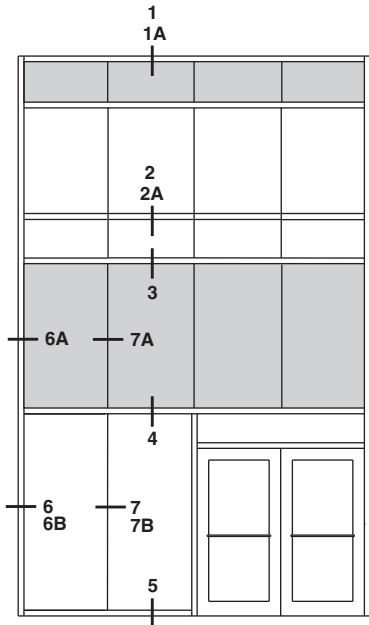
Trim Cover available in #29 Black anodized finish only

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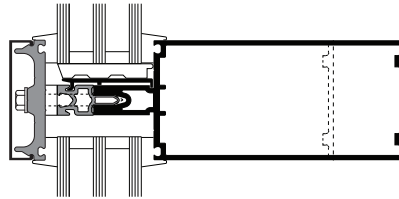
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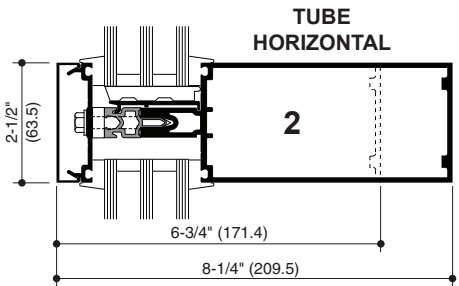
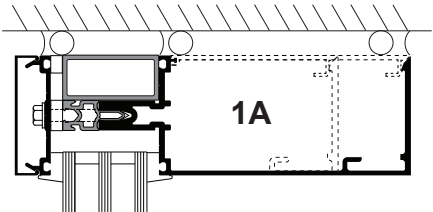
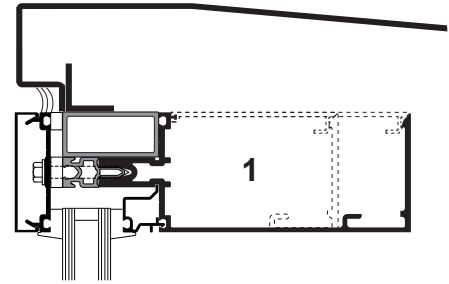
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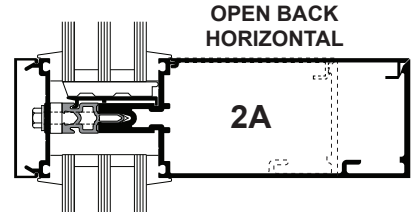
ELEVATION IS NUMBER KEYED TO DETAILS



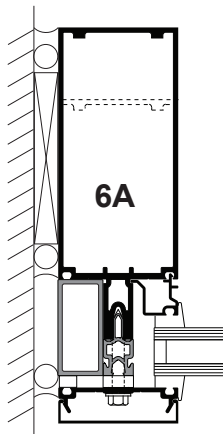
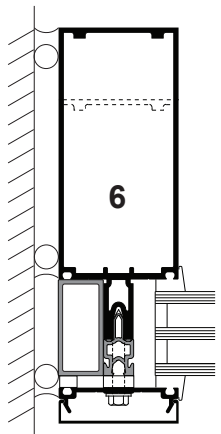
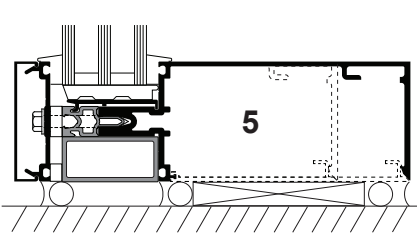
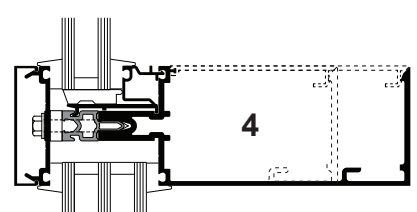
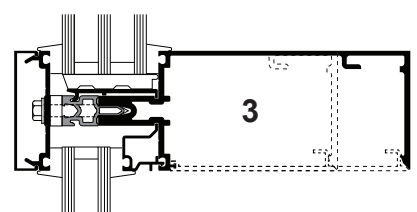
OPTIONAL FIBERGLASS PRESSURE PLATE



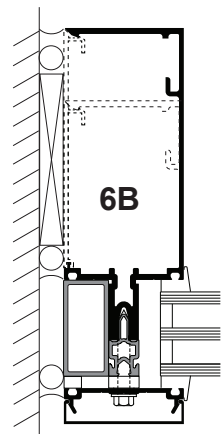
TUBE HORIZONTAL



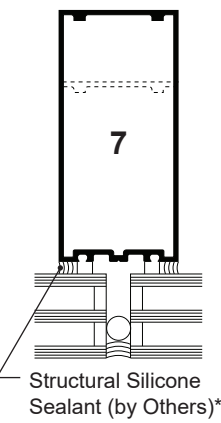
OPEN BACK HORIZONTAL



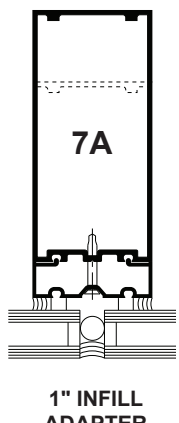
1" INFILL ADAPTER



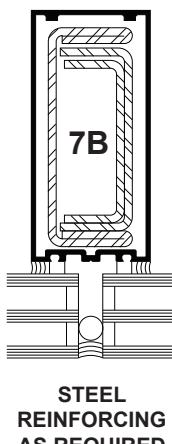
OPEN BACK JAMB



Structural Silicone Sealant (by Others)*



1" INFILL ADAPTER



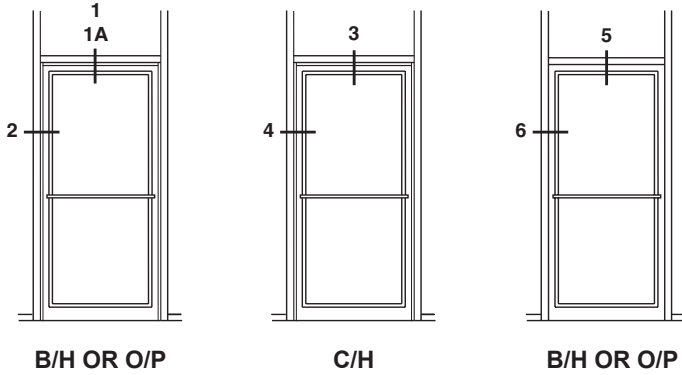
STEEL REINFORCING AS REQUIRED

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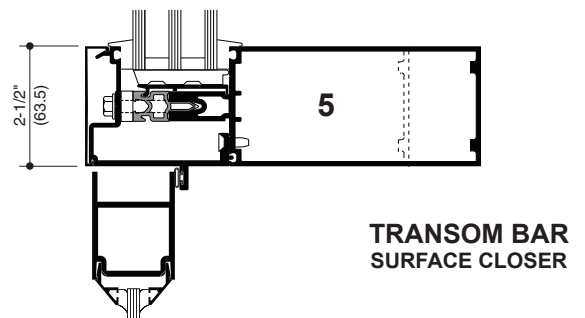
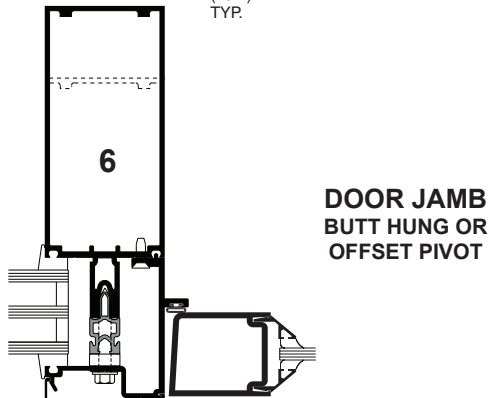
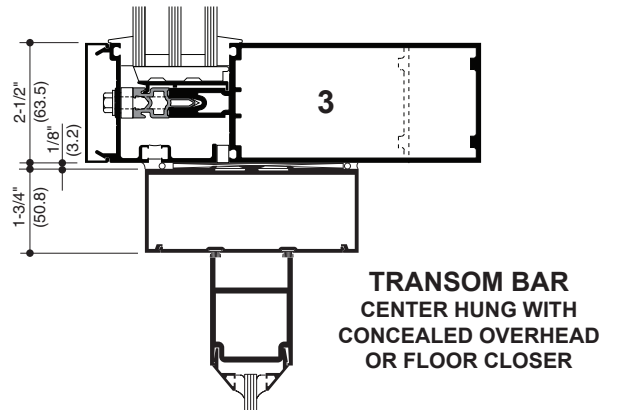
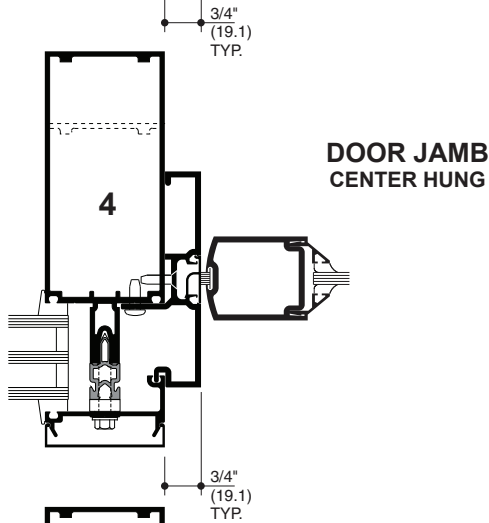
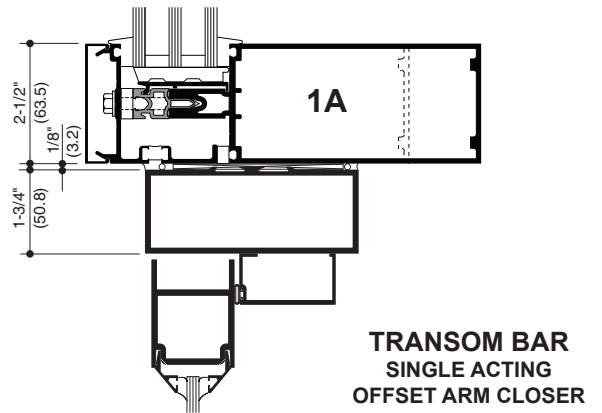
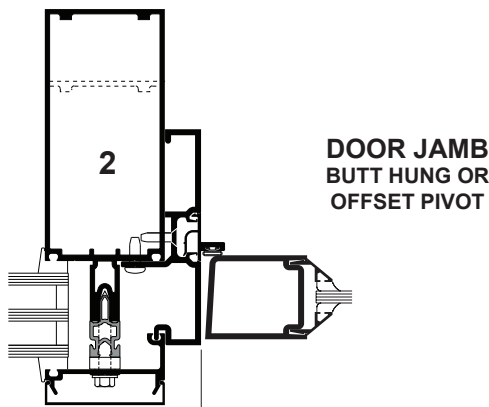
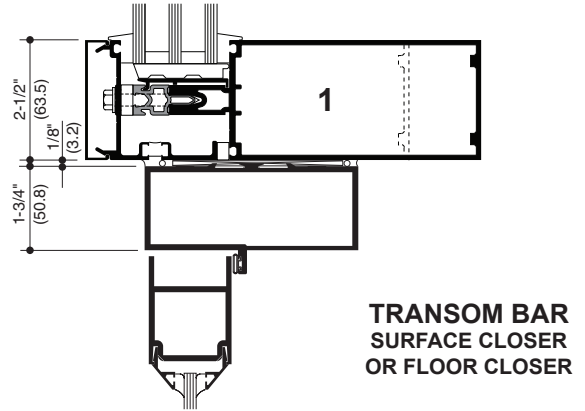
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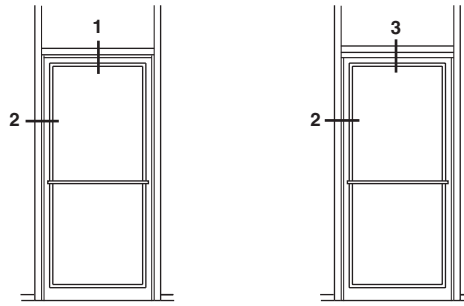
ELEVATION IS NUMBER KEYED TO DETAILS



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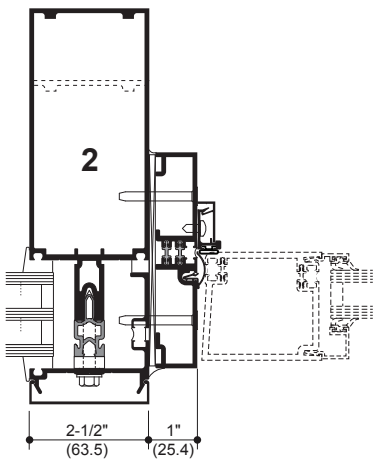
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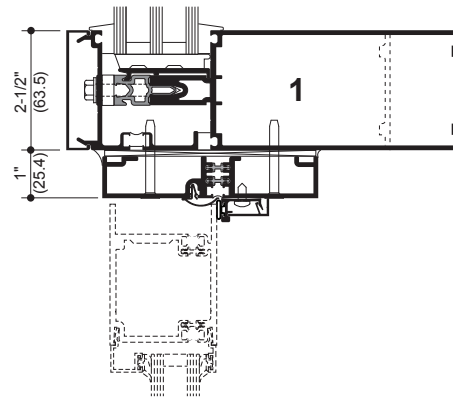


B/H OR O/P

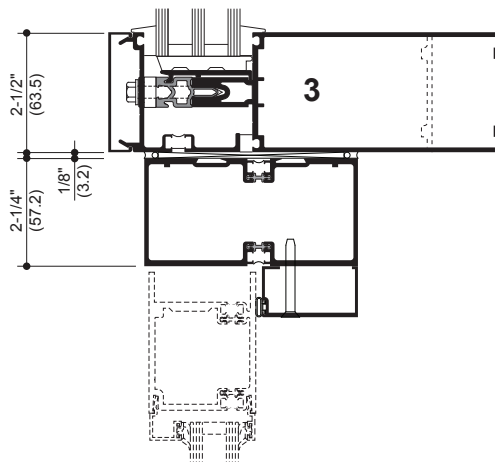
ELEVATION IS NUMBER KEYED TO DETAILS



**DOOR JAMB
BUTT HUNG OR
OFFSET PIVOT**



**TRANSOM BAR
SURFACE CLOSER
OR FLOOR CLOSER**

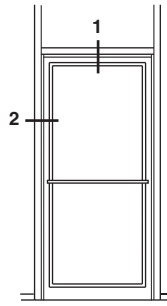


**TRANSOM BAR
CONCEALED CLOSER**

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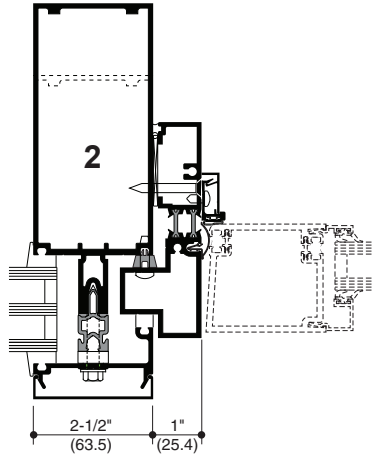
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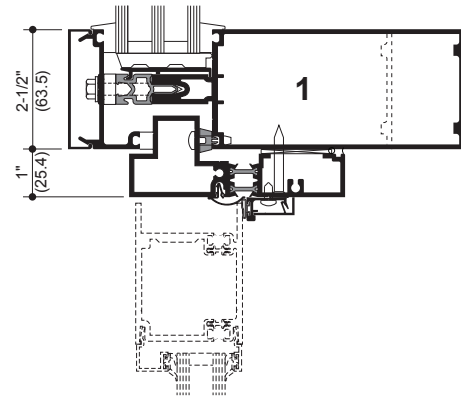


B/H OR O/P

ELEVATION IS NUMBER KEYED TO DETAILS



**DOOR JAMB
BUTT HUNG OR
OFFSET PIVOT**

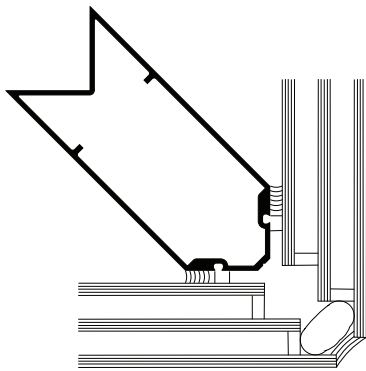


**TRANSOM BAR
SURFACE CLOSER
OR FLOOR CLOSER**

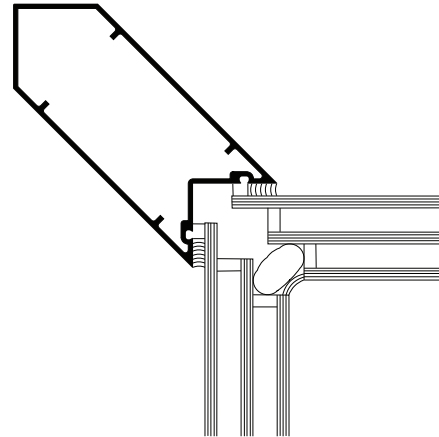
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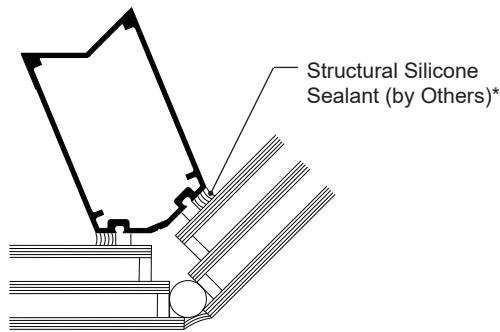
Additional information and CAD details are available at www.kawneer.com



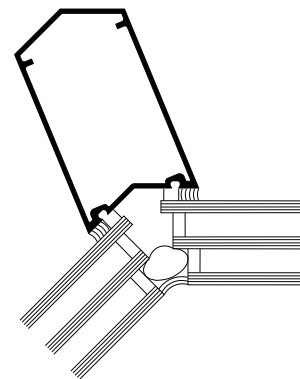
90° OUTSIDE CORNER



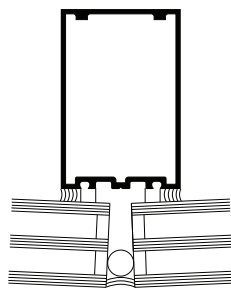
90° INSIDE CORNER



135° OUTSIDE CORNER

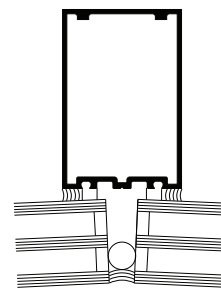


135° INSIDE CORNER



0° TO 5°

OUTSIDE SPYLED MULLIONS



0° TO 5°

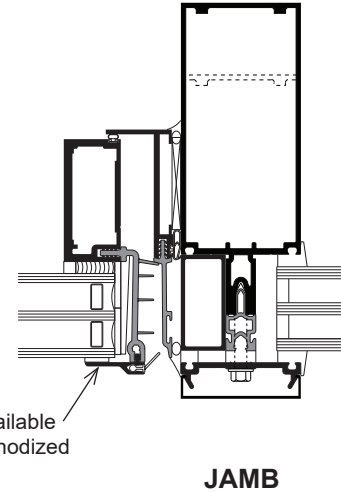
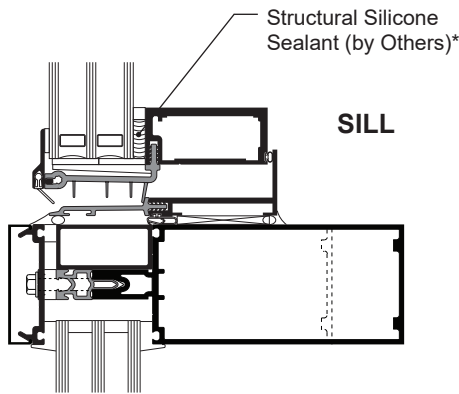
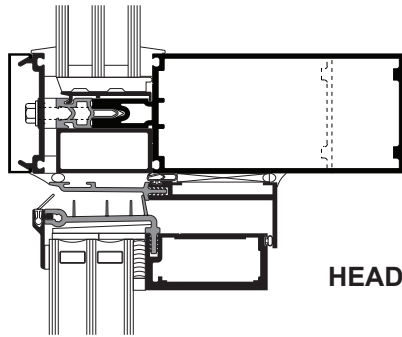
INSIDE SPYLED MULLIONS

OTHER SPYLED 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.

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GLASSvent® UT Windows



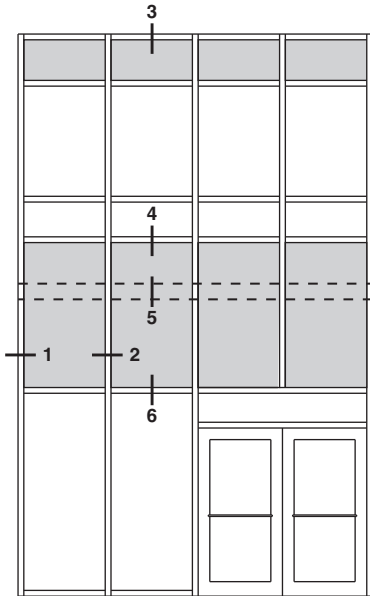
*** INSTALLER NOTE:** Installer is responsible for all required compatibility review and approvals with the Structural Silicone Manufacturer and the Insulating Glass Unit Manufacturer.

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

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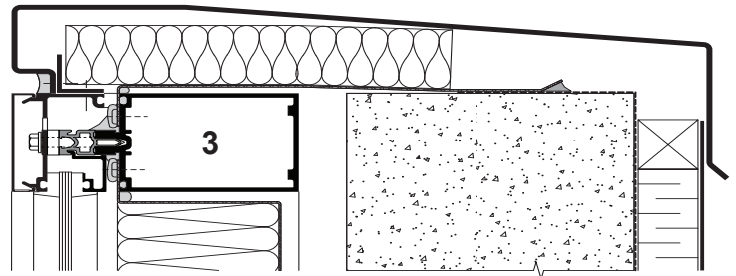
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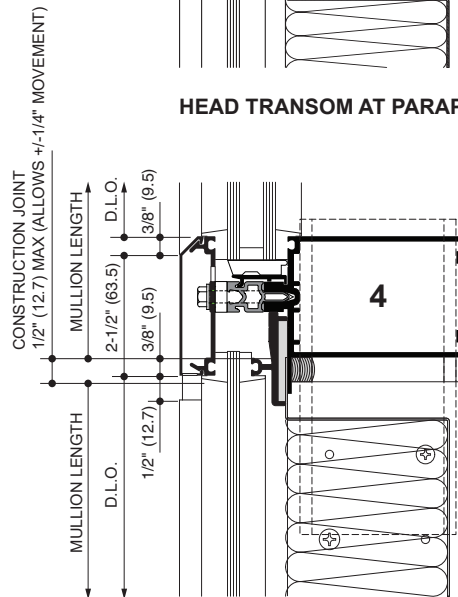


ELEVATION IS NUMBER KEYED TO DETAILS

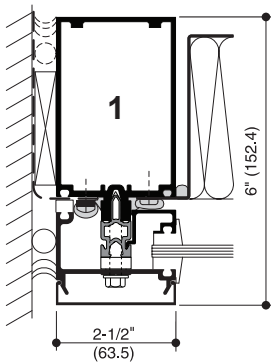
NOTE: 6" SYSTEM SHOWN, 7-1/2" SYSTEM SIMILAR



HEAD TRANSOM AT PARAPET FLASHING

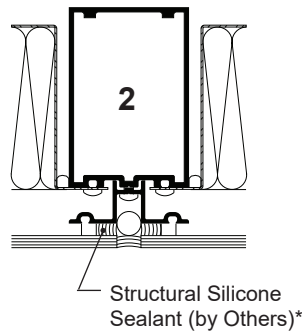


EXPANSION JOINT



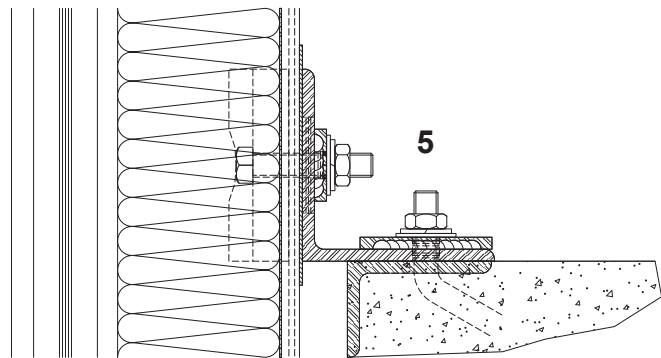
JAMB MULLION AT SPANDREL

(With vapor barrier tie-in)

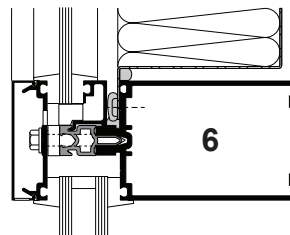


MULLION AT SPANDREL

Structural Silicone Sealant (by Others)*



TYPICAL DEADLOAD ANCHOR



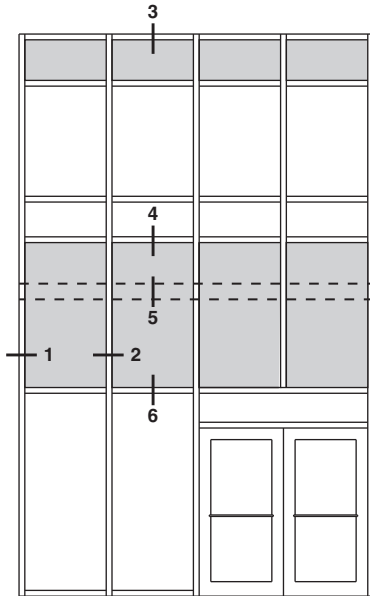
TRANSOM - SPANDREL OVER VISION

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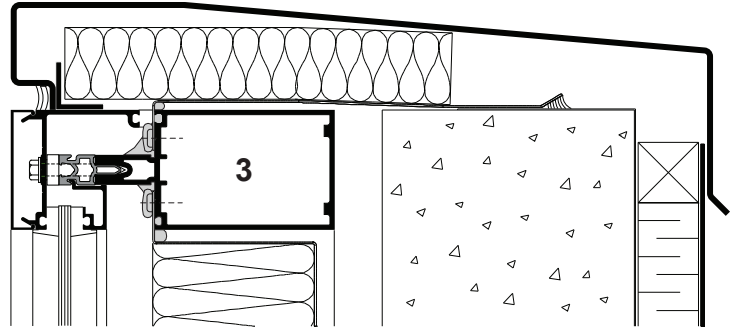
* **INSTALLER NOTE:** Installer is responsible for all required compatibility review and approvals with the Structural Silicone Manufacturer and the Insulating Glass Unit Manufacturer.

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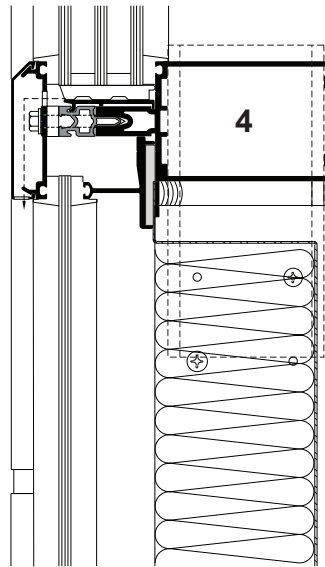


ELEVATION IS NUMBER KEYED TO DETAILS

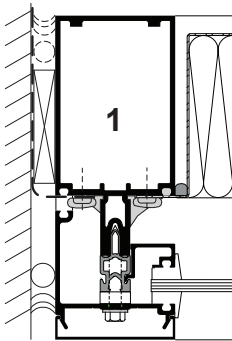
NOTE: 6" SYSTEM SHOWN, 7-1/2" SYSTEM SIMILAR



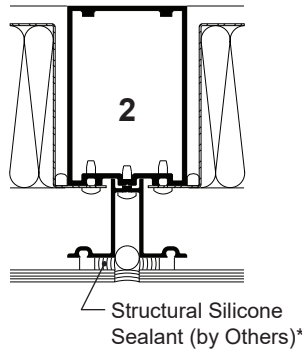
HEAD TRANSOM AT PARAPET FLASHING



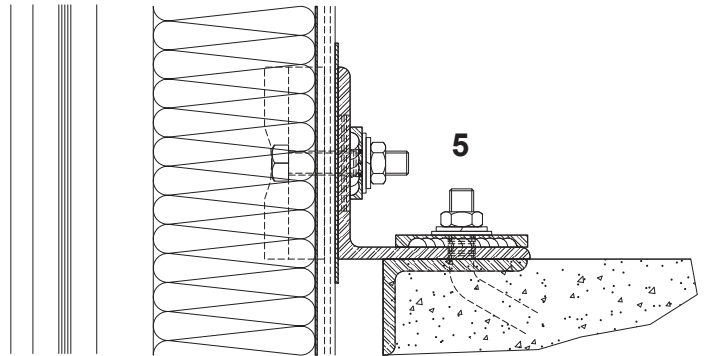
EXPANSION JOINT



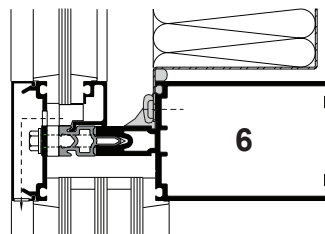
JAMB MULLION AT SPANDREL



MULLION AT SPANDREL



TYPICAL DEADLOAD ANCHOR



TRANSOM - SPANDREL OVER VISION

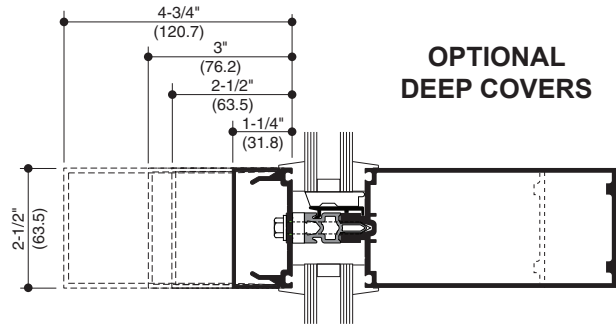
* **INSTALLER NOTE:** Installer is responsible for all required compatibility review and approvals with the Structural Silicone Manufacturer and the Insulating Glass Unit Manufacturer.

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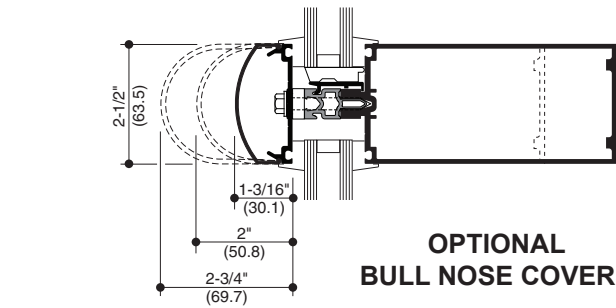
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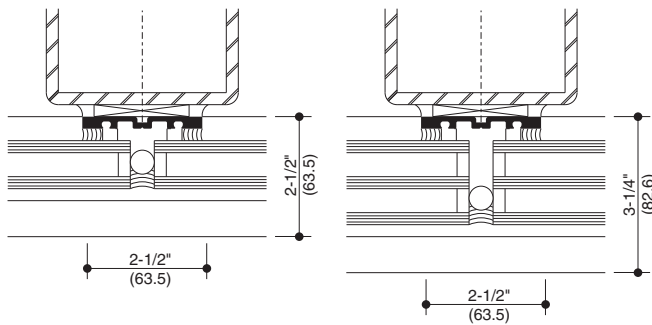
Architects – Most extrusion and window types illustrated in this catalog are standard products for Kawneer. These concepts have been expanded and modified to afford you design freedom. Some miscellaneous details are non-standard and are intended to demonstrate how the system can be modified to expand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



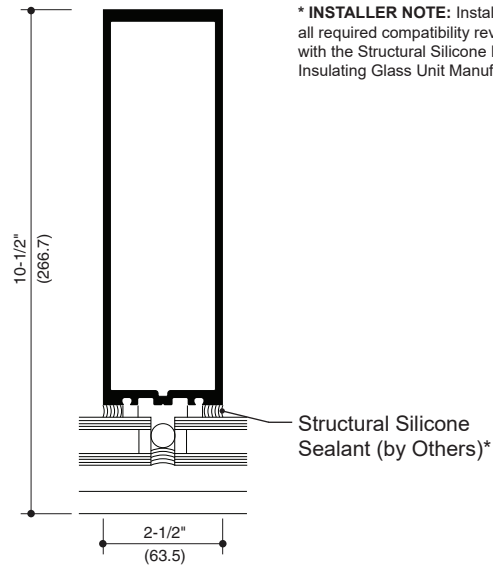
OPTIONAL DEEP COVERS



OPTIONAL BULL NOSE COVERS

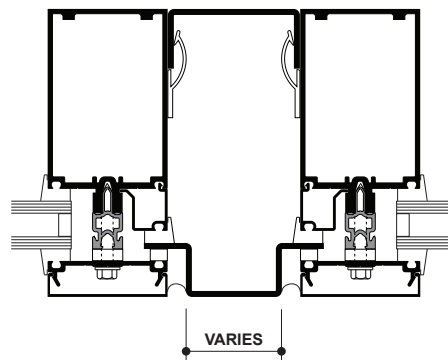


VENEER SYSTEM

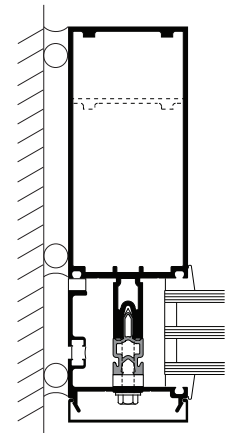


*** INSTALLER NOTE:** Installer is responsible for all required compatibility review and approvals with the Structural Silicone Manufacturer and the Insulating Glass Unit Manufacturer.

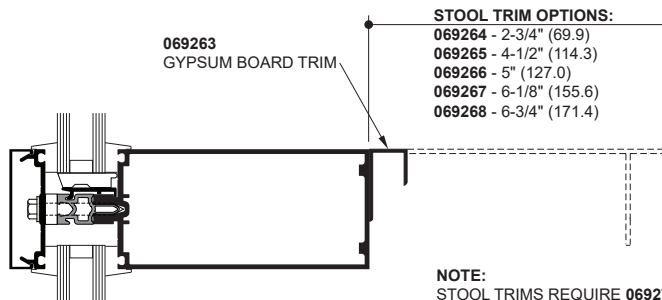
DEEP MULLION



DOUBLE MULLION



THERMAL PERIMETER PRESSURE PLATE



NOTE: STOOL TRIMS REQUIRE 069271 TRIM CLIP PACKAGE

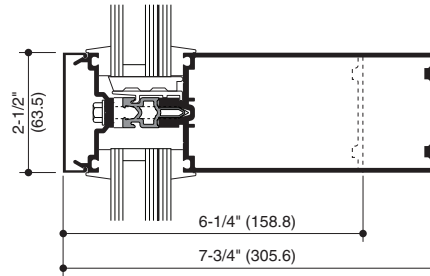
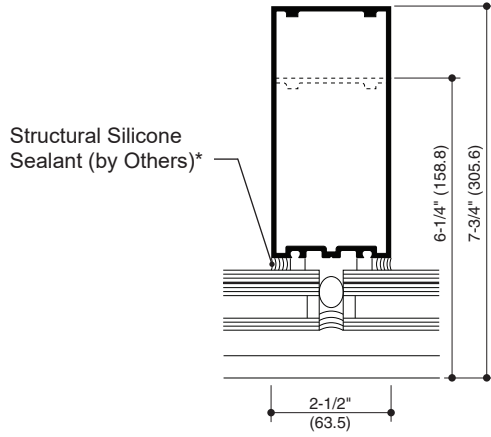
INTERIOR STOOL TRIM

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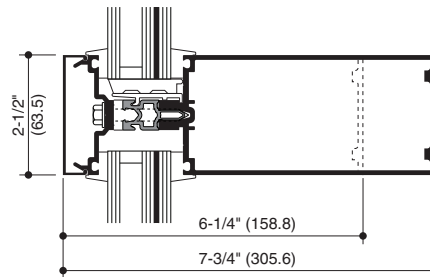
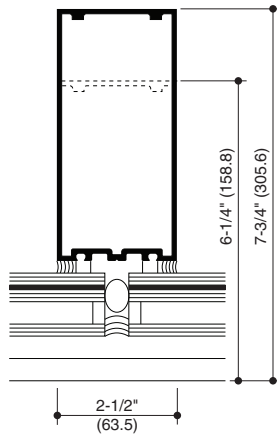
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1-1/4" INFILL DETAILS



1-5/16" INFILL DETAILS

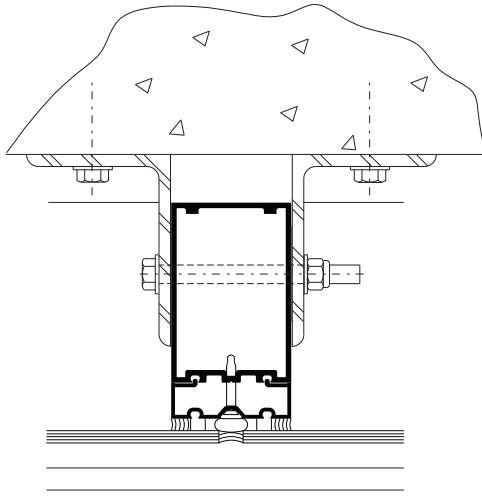


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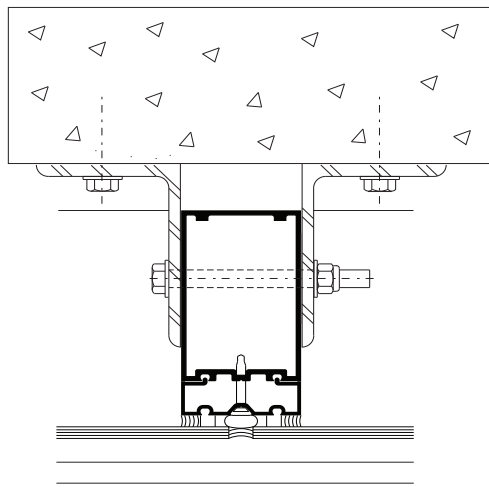
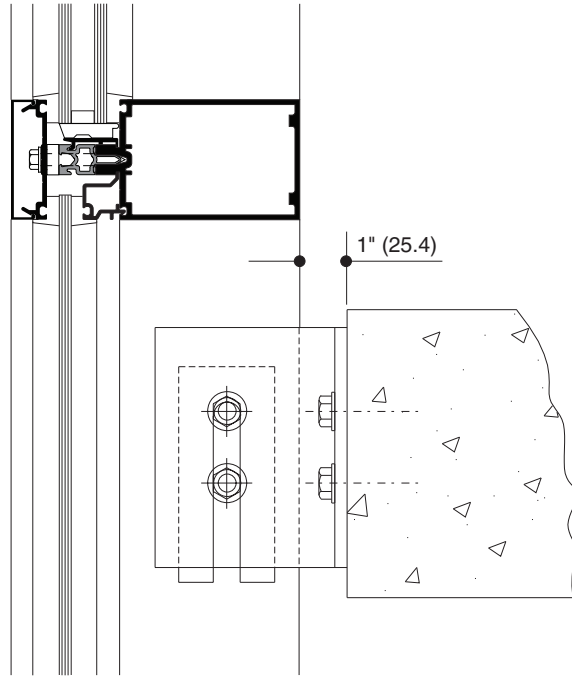
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Actual project conditions will determine specific anchor design. Details on this page are for reference only.



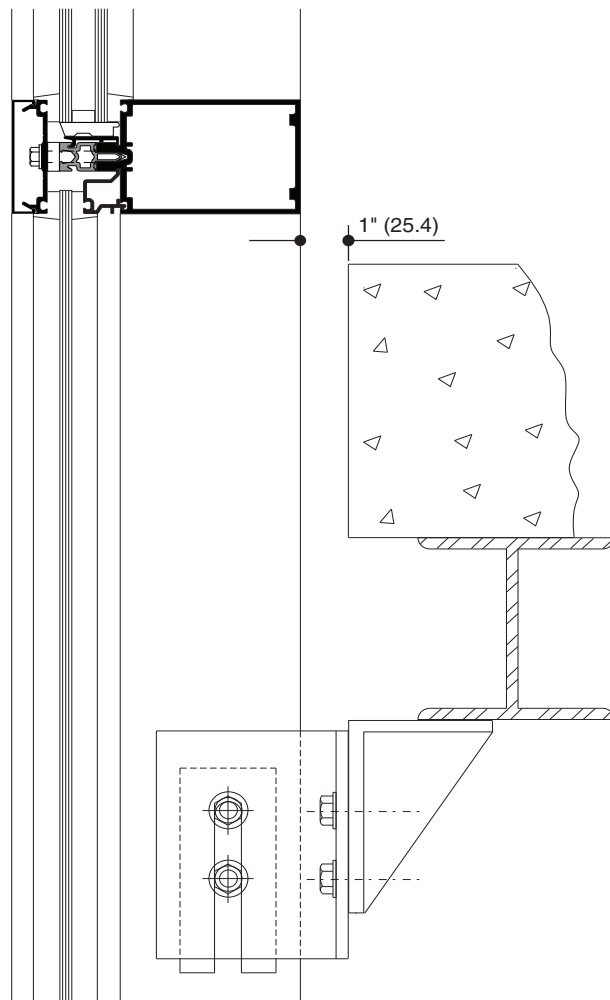
ANCHORING TO FLOOR SLAB

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



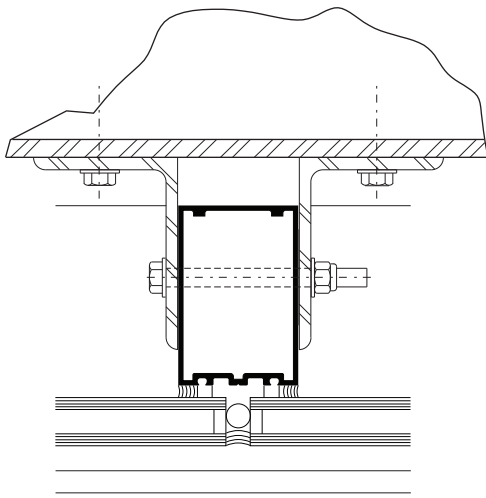
ANCHORING TO SUPPORT STEEL

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

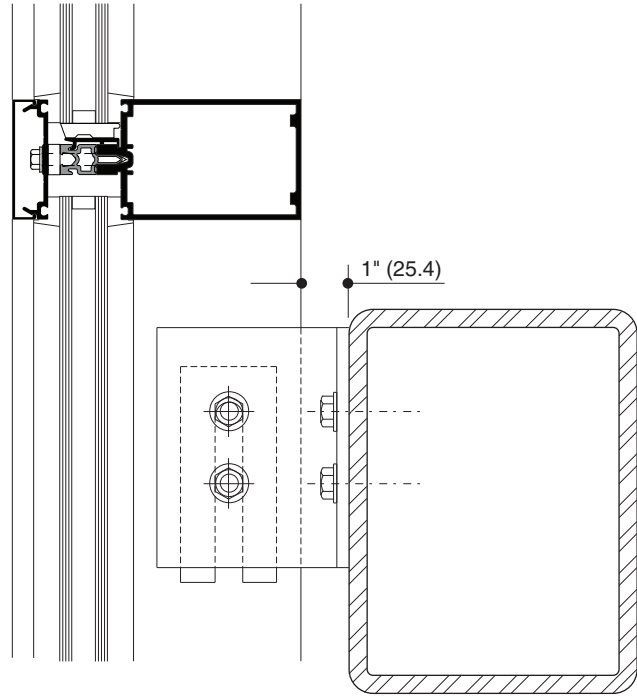


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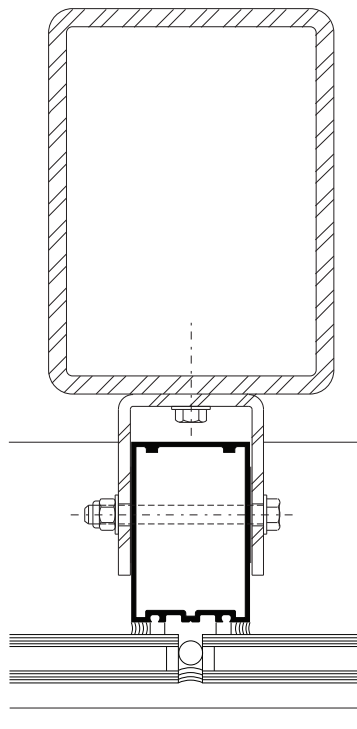
Actual project conditions will determine specific anchor design. Details on this page are for reference only.



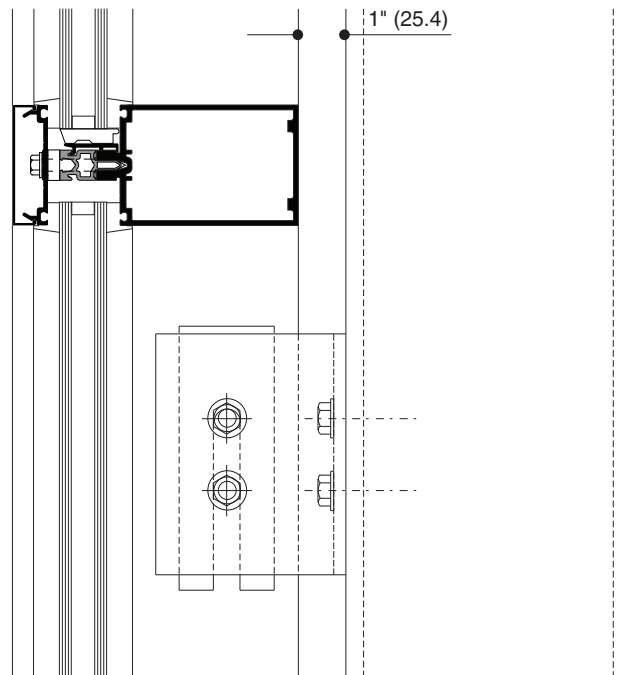
ANCHORING TO HORIZONTAL STRUCTURAL STEEL



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



ANCHORING TO VERTICAL STRUCTURAL STEEL



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

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WIND LOAD CHARTS

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

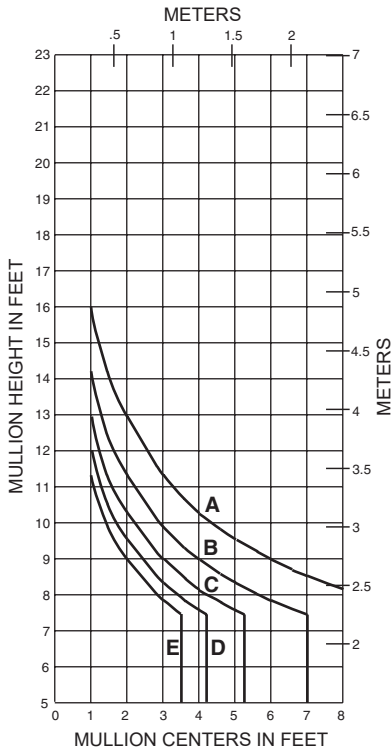
DEADLOAD CHARTS

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.

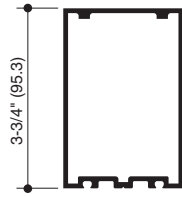
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SINGLE SPAN



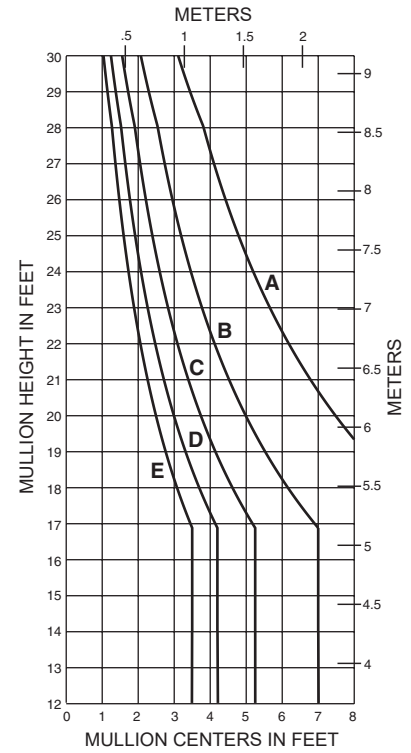
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	20 PSF (960)	33 PSF (1580)
B =	30 PSF (1440)	50 PSF (2400)
C =	40 PSF (1920)	67 PSF (3200)
D =	50 PSF (2400)	83 PSF (4000)
E =	60 PSF (2880)	100 PSF (4790)



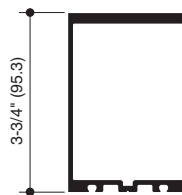
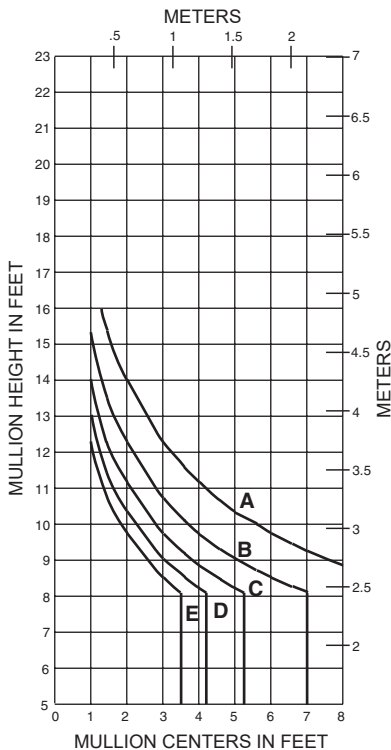
162025
 $I = 2.860(119.04 \times 10^4)$
 $S = 1.482(24.28 \times 10^3)$



TWIN SPAN



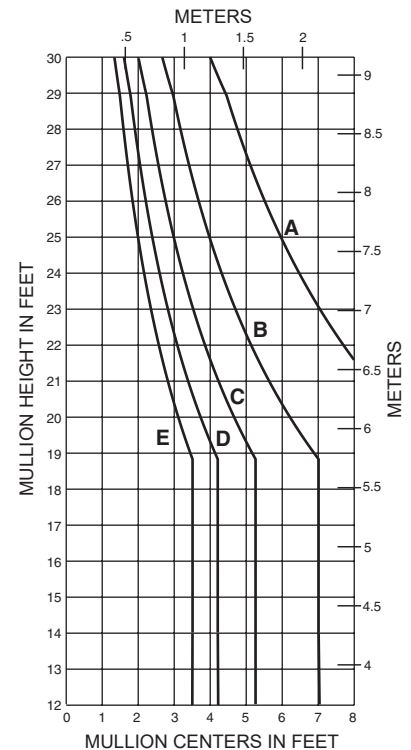
SINGLE SPAN



162026
 $I = 3.660(152.34 \times 10^4)$
 $S = 1.840(30.15 \times 10^3)$



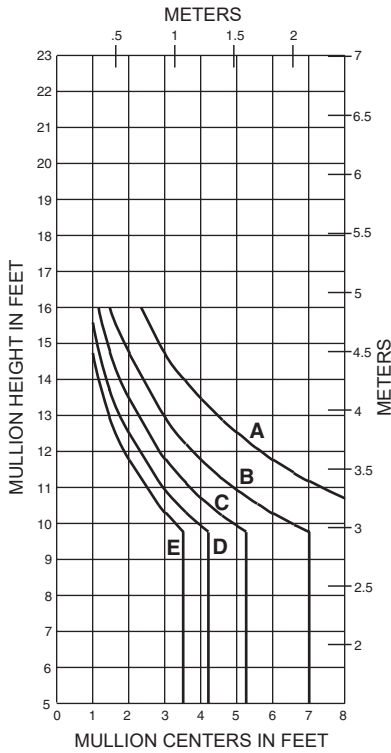
TWIN SPAN



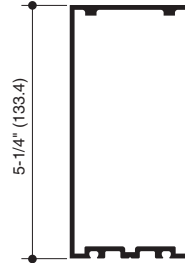
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SINGLE SPAN



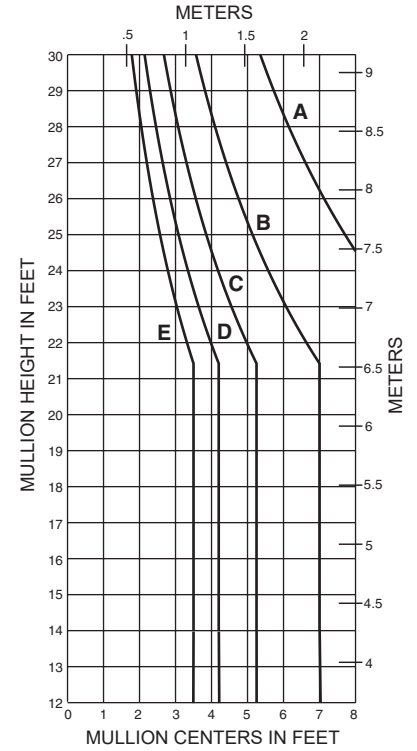
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	20 PSF (960)	33 PSF (1580)
B =	30 PSF (1440)	50 PSF (2400)
C =	40 PSF (1920)	67 PSF (3200)
D =	50 PSF (2400)	83 PSF (4000)
E =	60 PSF (2880)	100 PSF (4790)



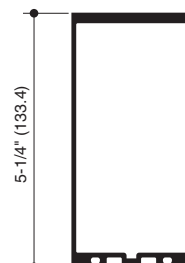
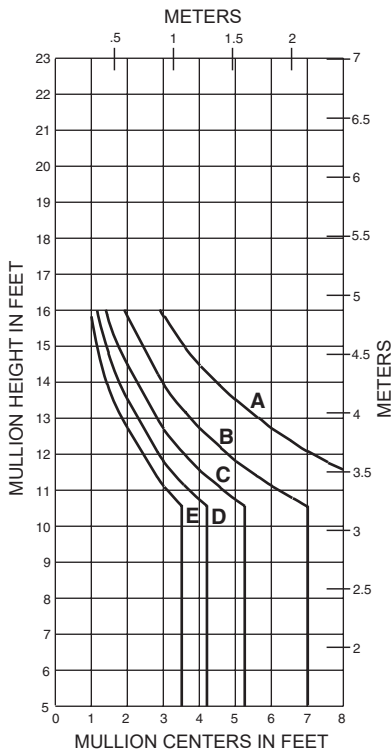
162027
 $I = 6.424(267.38 \times 10^4)$
 $S = 2.385(39.08 \times 10^3)$



TWIN SPAN



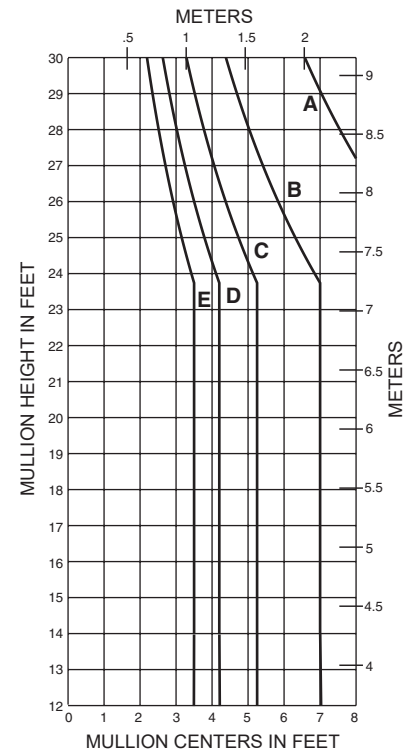
SINGLE SPAN



162028
 $I = 8.088(336.64 \times 10^4)$
 $S = 2.930(48.01 \times 10^3)$



TWIN SPAN

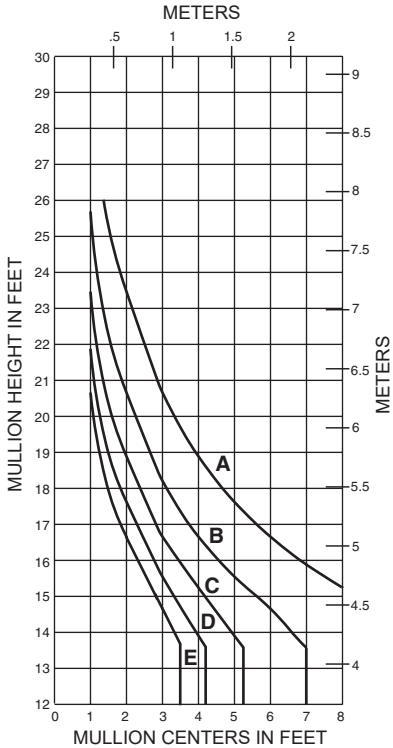


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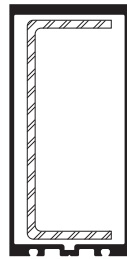
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SINGLE SPAN

162028 W/162300

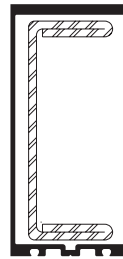


	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	20 PSF (960)	33 PSF (1580)
B =	30 PSF (1440)	50 PSF (2400)
C =	40 PSF (1920)	67 PSF (3200)
D =	50 PSF (2400)	83 PSF (4000)
E =	60 PSF (2880)	100 PSF (4790)



162028
W/162300

la = 8.088(336.64 x 10⁴)
 Sa = 2.930(48.01 x 10³)
 ls = 3.805(158.37 x 10⁴)
 Ss = 1.669(27.35 x 10³)

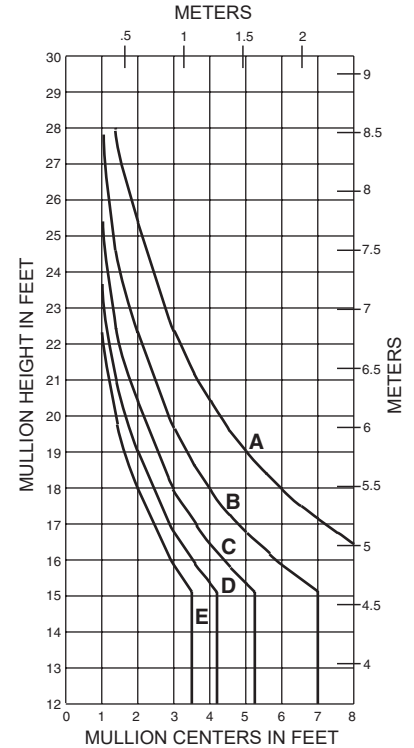


162028
W/162301

la = 8.088(336.64 x 10⁴)
 Sa = 2.930(48.01 x 10³)
 ls = 5.684(236.59 x 10⁴)
 Ss = 2.493(40.85 x 10³)

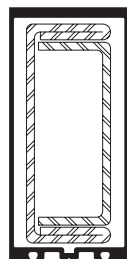
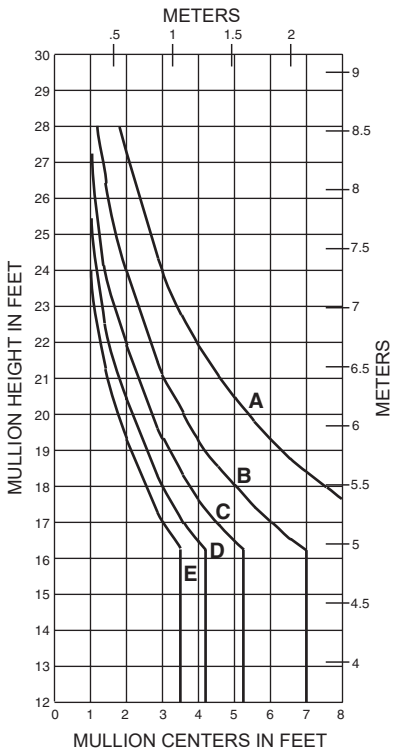
SINGLE SPAN

162028 W/162301



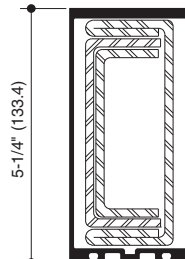
SINGLE SPAN

162028 W/162301/302



162028
W/162301/302

la = 8.088(336.64 x 10⁴)
 Sa = 2.930(48.01 x 10³)
 ls = 7.893(328.53 x 10⁴)
 Ss = 3.462(56.73 x 10³)

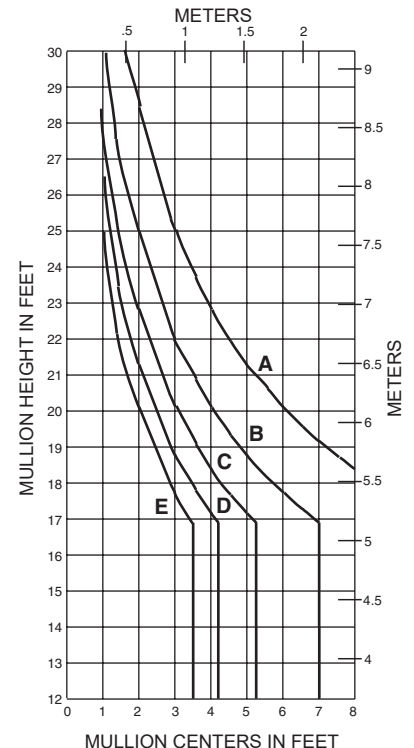


162028
W/162301/302/303

la = 8.088(336.64 x 10⁴)
 Sa = 2.930(48.01 x 10³)
 ls = 9.347(389.05 x 10⁴)
 Ss = 4.100(67.19 x 10³)

SINGLE SPAN

162028 W/162301/302/303

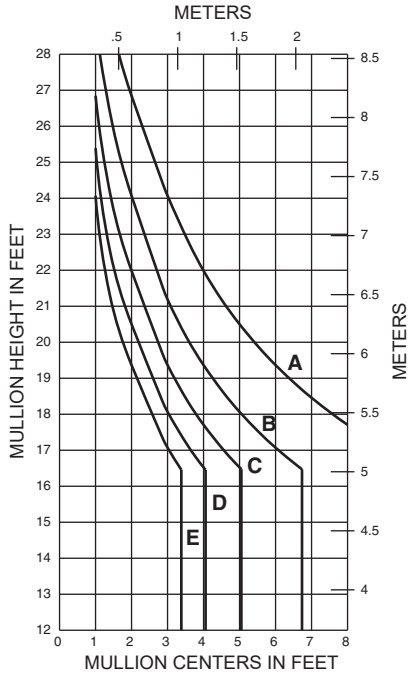


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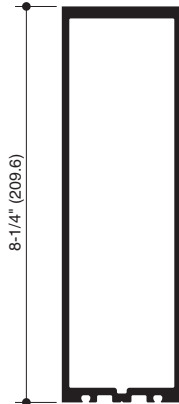
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SINGLE SPAN

162028 W/162300

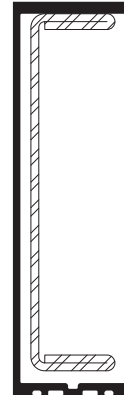


	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	20 PSF (960)	33 PSF (1580)
B =	30 PSF (1440)	50 PSF (2400)
C =	40 PSF (1920)	67 PSF (3200)
D =	50 PSF (2400)	83 PSF (4000)
E =	60 PSF (2880)	100 PSF (4790)



162076

$I = 31.174(1,297.56 \times 10^4)$
 $S = 7.452(122.12 \times 10^3)$

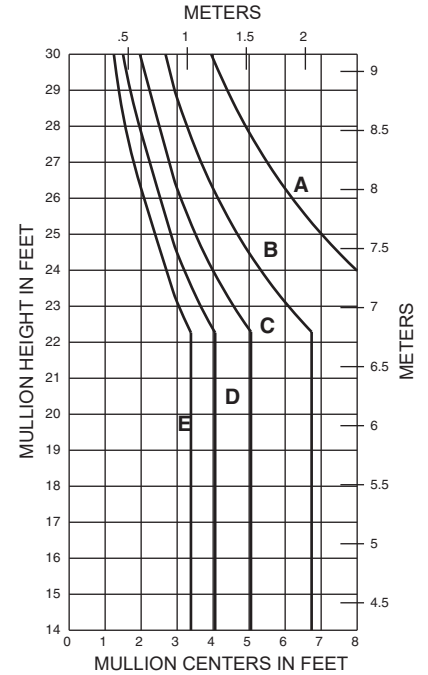


162076
W/162363

$I_a = 31.174(1,297.56 \times 10^4)$
 $S_a = 7.452(122.12 \times 10^3)$
 $I_s = 17.600(732.56 \times 10^4)$
 $S_s = 4.732(77.54 \times 10^3)$

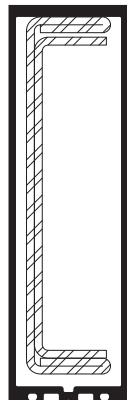
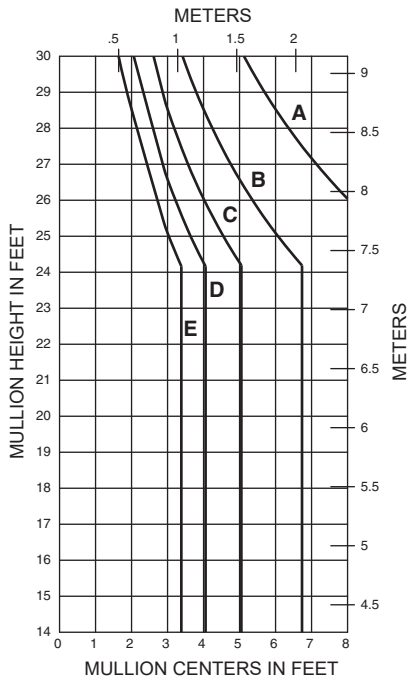
SINGLE SPAN

162028 W/162301



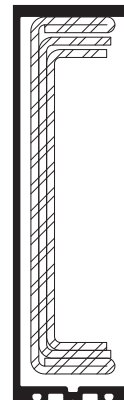
SINGLE SPAN

162028 W/162301/302



162076
W/162363/364

$I_a = 31.174(1,297.56 \times 10^4)$
 $S_a = 7.452(122.12 \times 10^3)$
 $I_s = 26.033(1,083.57 \times 10^4)$
 $S_s = 7.000(114.71 \times 10^3)$

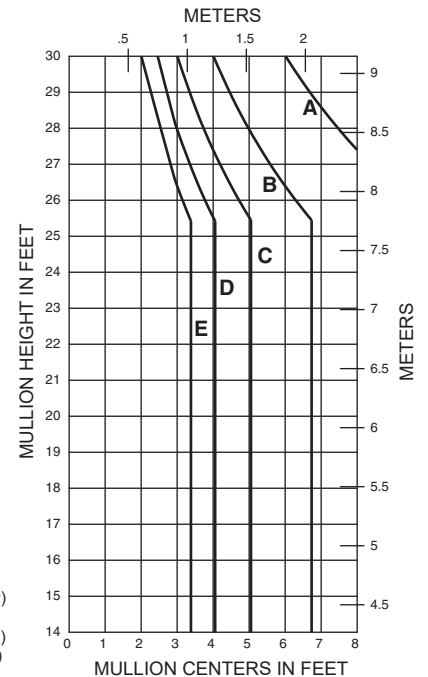


162076
W/162363/364/365

$I_a = 31.174(1,297.56 \times 10^4)$
 $S_a = 7.452(122.12 \times 10^3)$
 $I_s = 32.432(1,349.92 \times 10^4)$
 $S_s = 32.432(531.46 \times 10^3)$

SINGLE SPAN

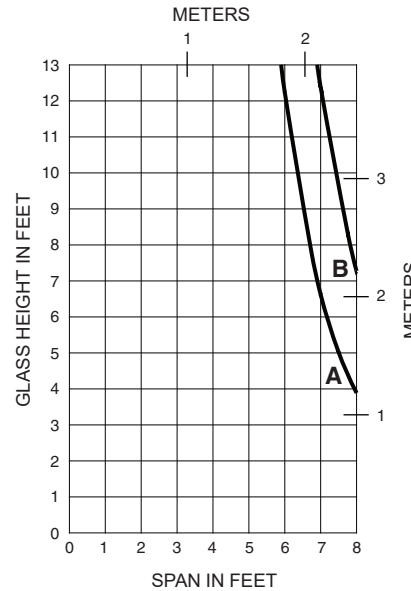
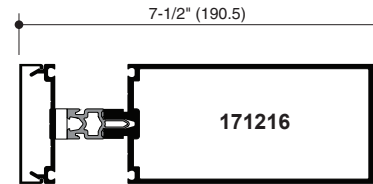
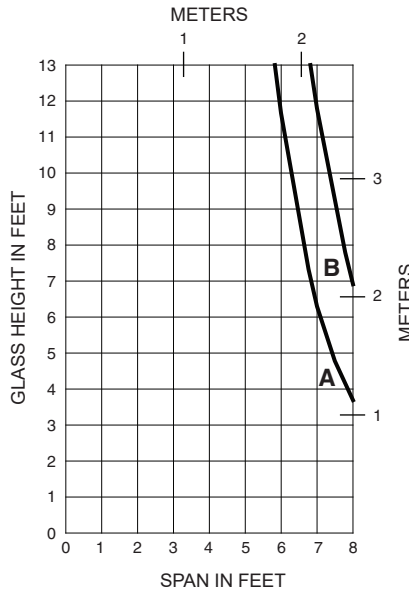
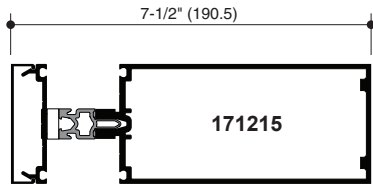
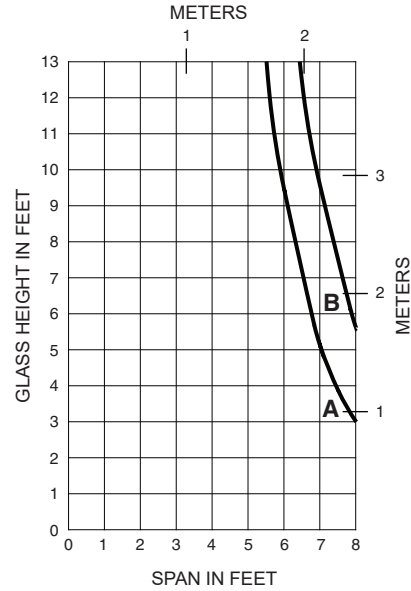
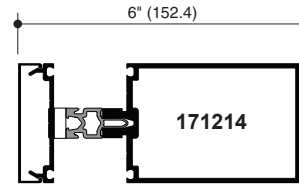
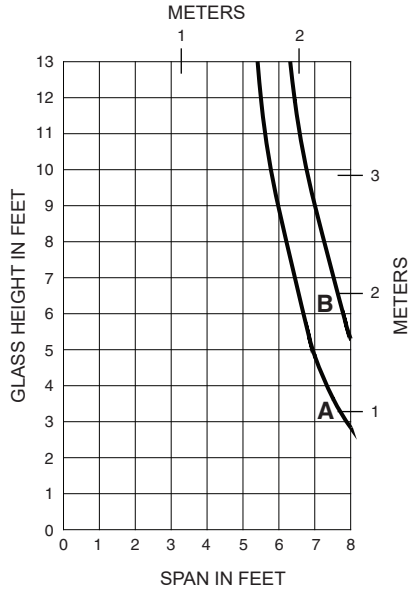
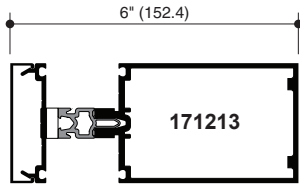
162028 W/162301/302/303



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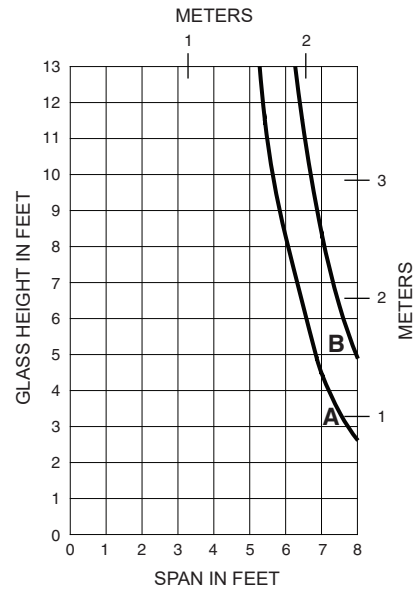
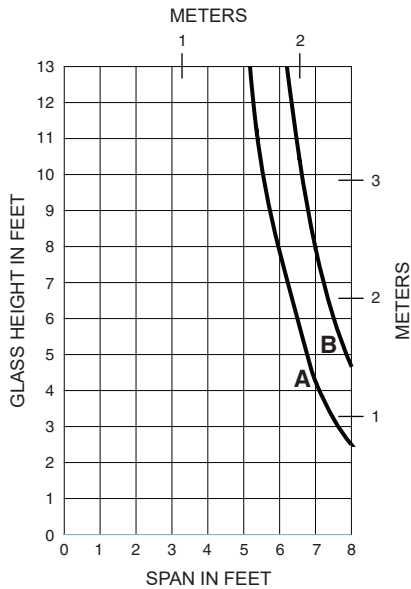
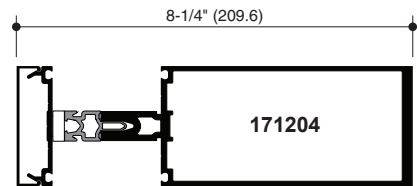
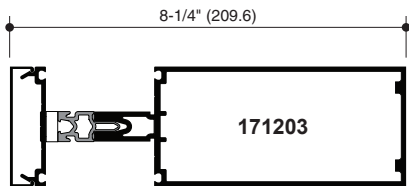
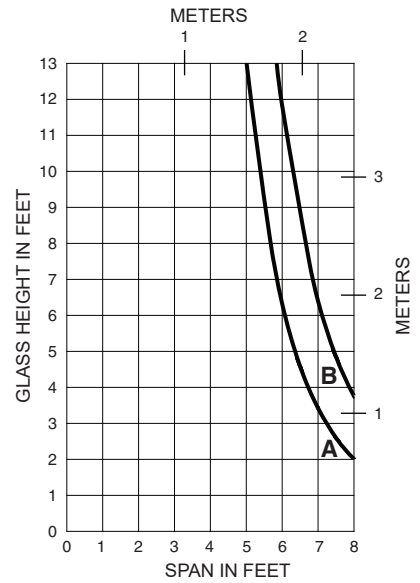
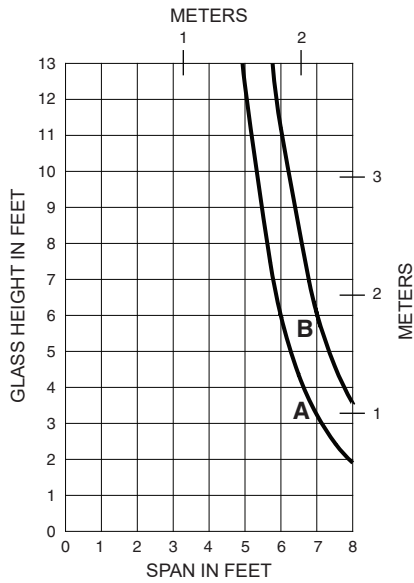
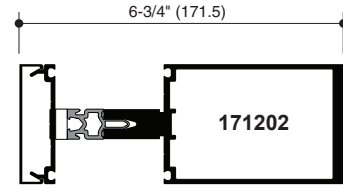
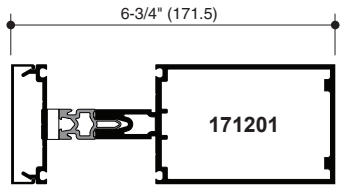
A - 1" GLASS (1/4 POINT LOADING)
 B - 1" GLASS (1/8 POINT LOADING)



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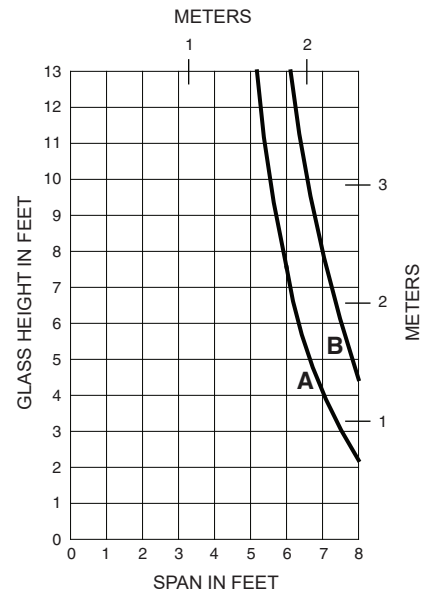
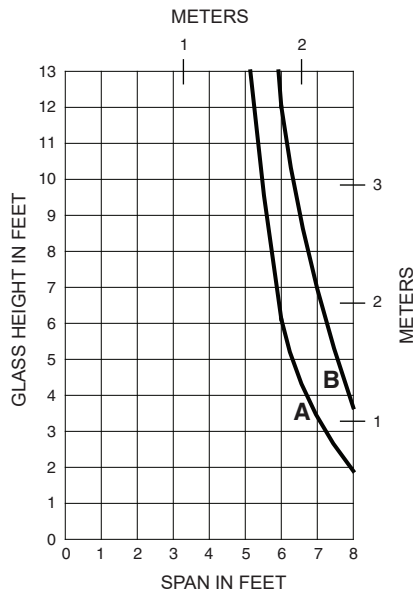
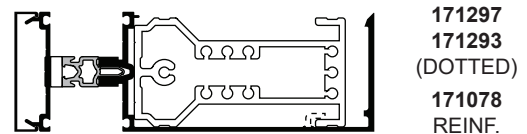
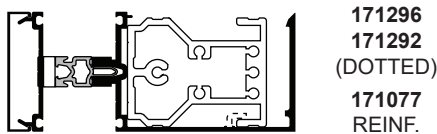
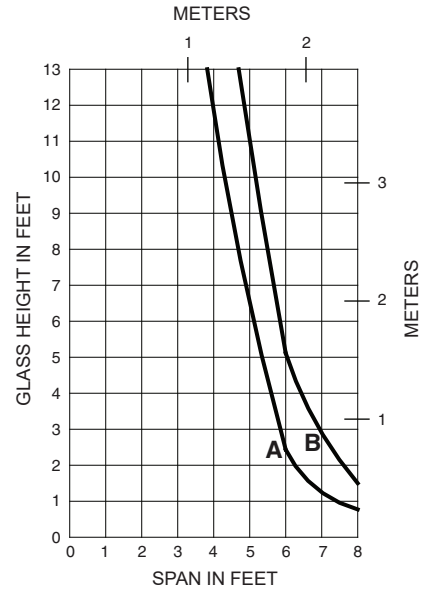
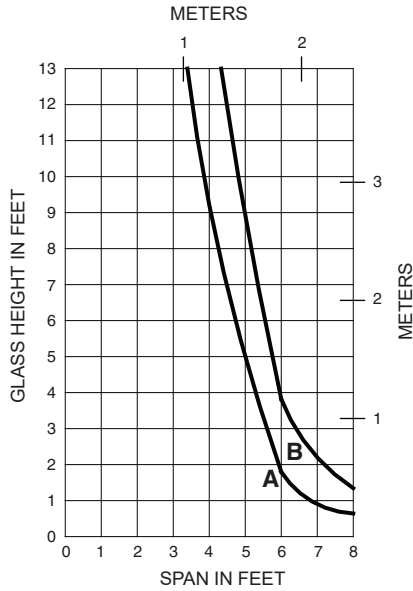
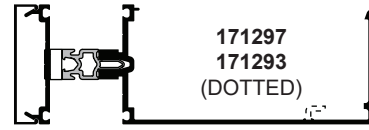
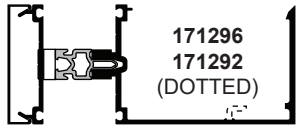
A - 1-3/4" GLASS (1/4 POINT LOADING)
B - 1-3/4" GLASS (1/8 POINT LOADING)



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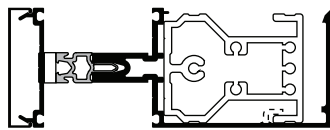
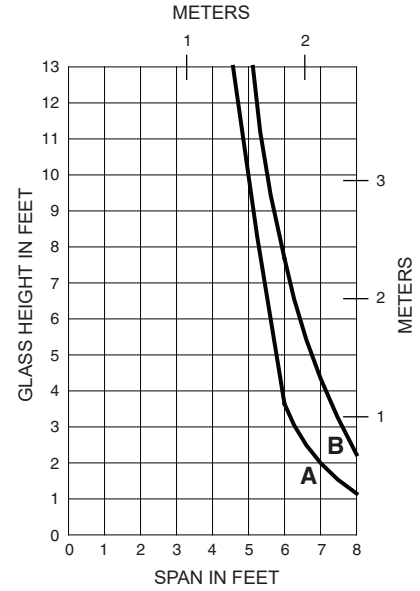
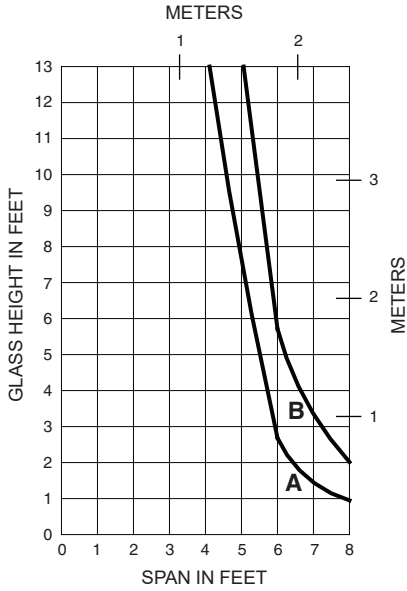
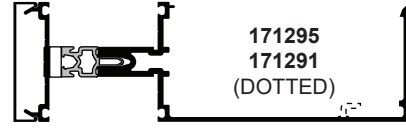
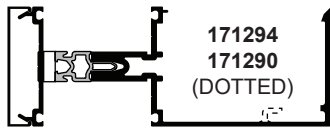
A - 1" GLASS (1/4 POINT LOADING)
 B - 1" GLASS (1/8 POINT LOADING)



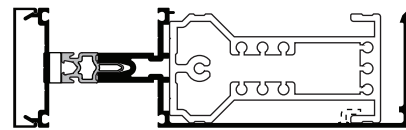
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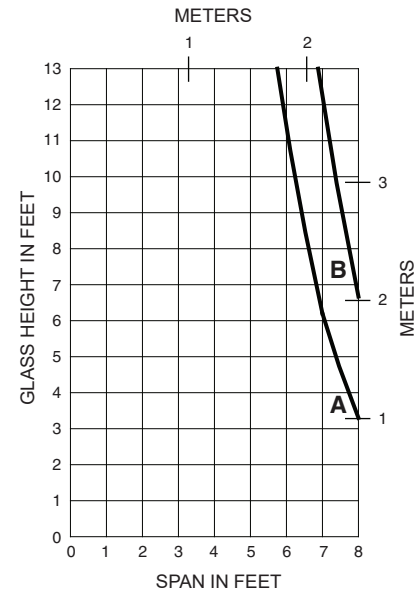
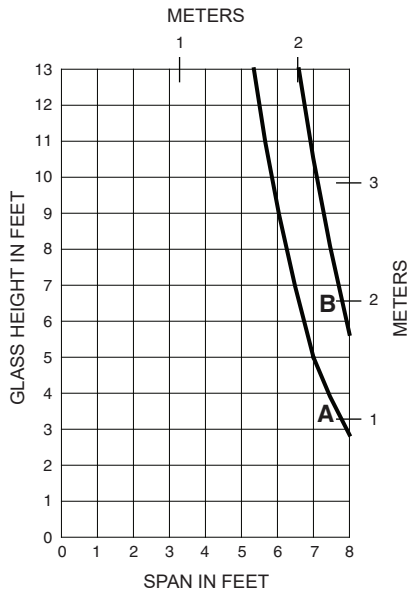
A - 1" GLASS (1/4 POINT LOADING)
 B - 1" GLASS (1/8 POINT LOADING)



171294
 171290
 (DOTTED)
 171077
 REINF.



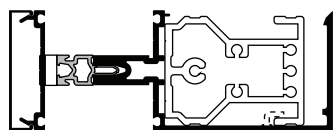
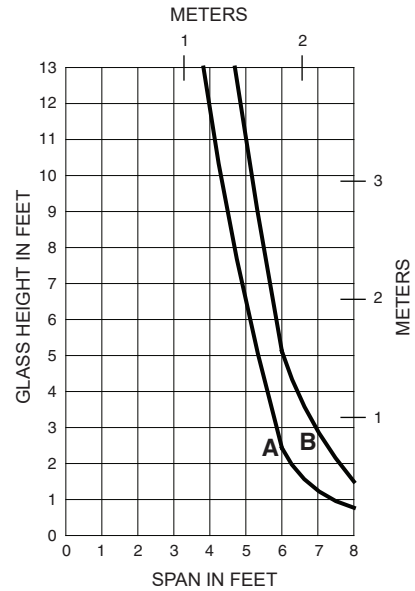
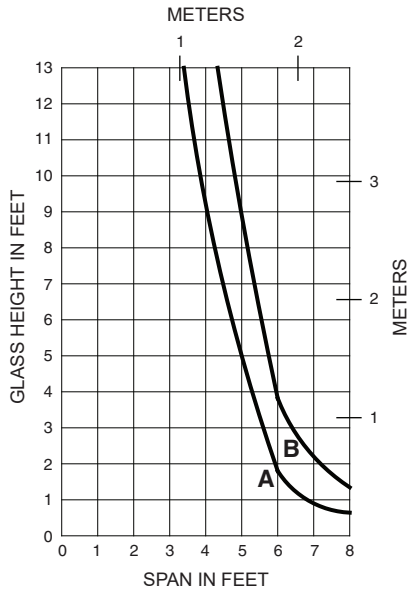
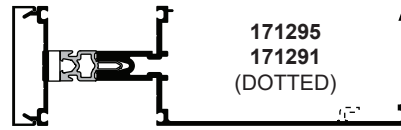
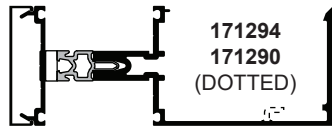
171295
 171291
 (DOTTED)
 171078
 REINF.



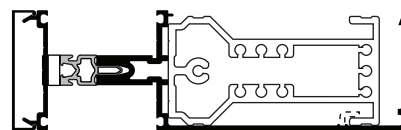
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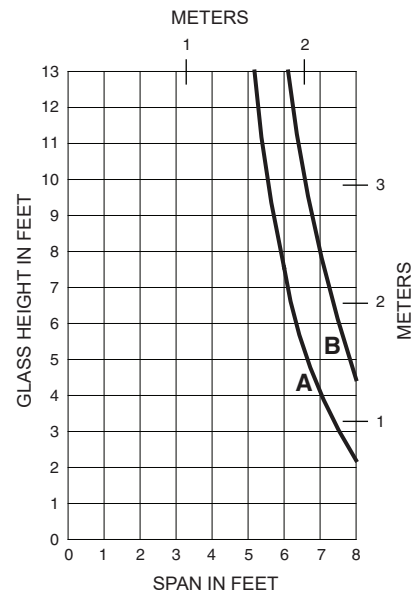
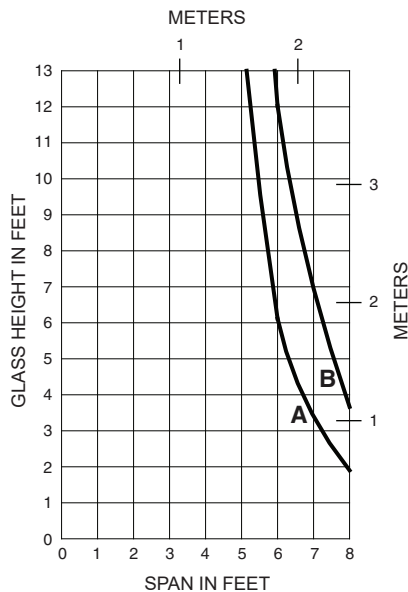
A - 1-3/4" GLASS (1/4 POINT LOADING)
 B - 1-3/4" GLASS (1/8 POINT LOADING)



171294
171290
 (DOTTED)
171077
 REINF.



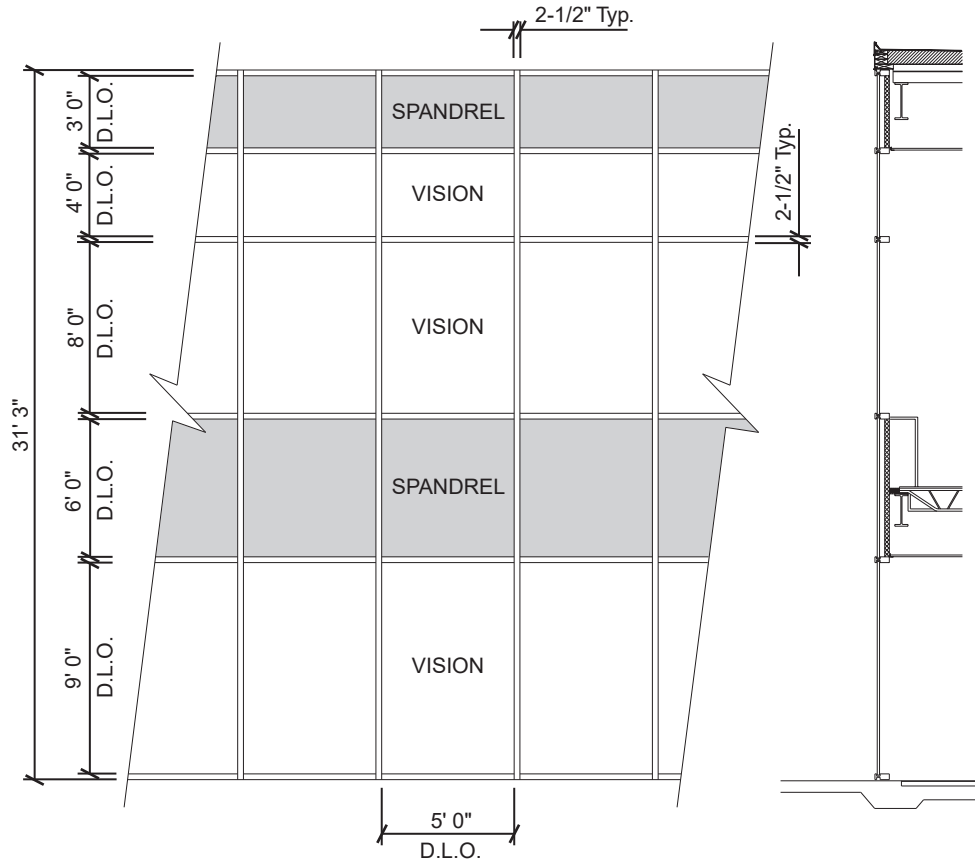
171295
171291
 (DOTTED)
171078
 REINF.



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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

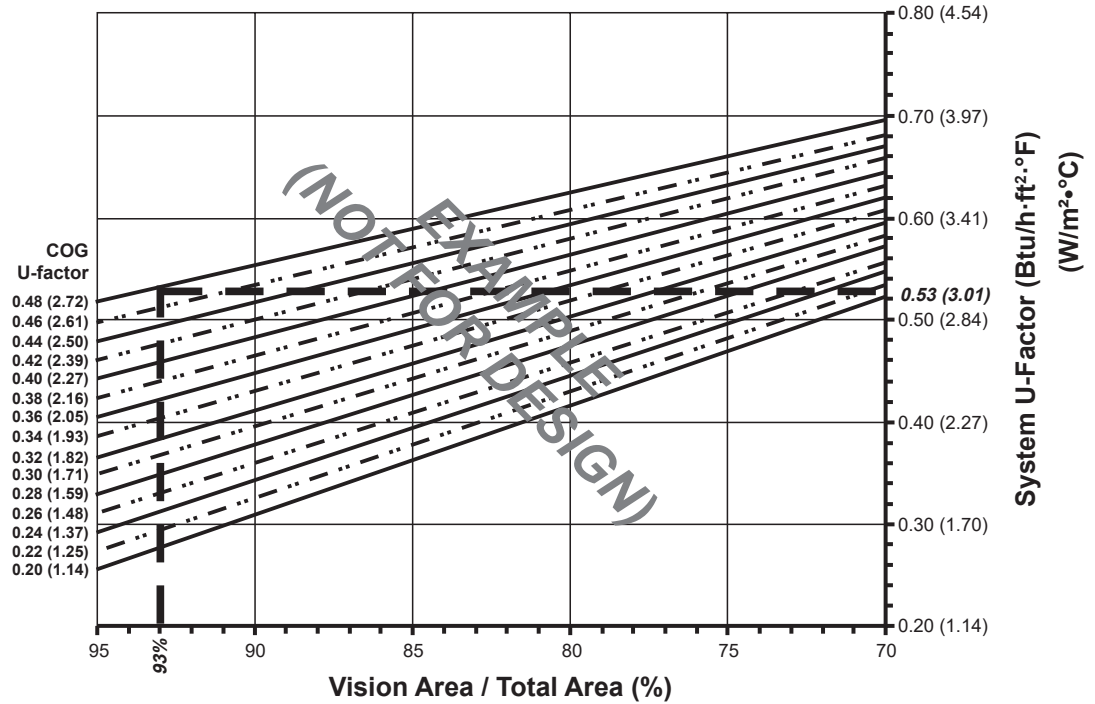
Percent of Spandrel = (Spandrel Area ÷ Total Area)100
 = (45.0 ÷ 49.6)100 = 91%

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

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Vision Area Chart

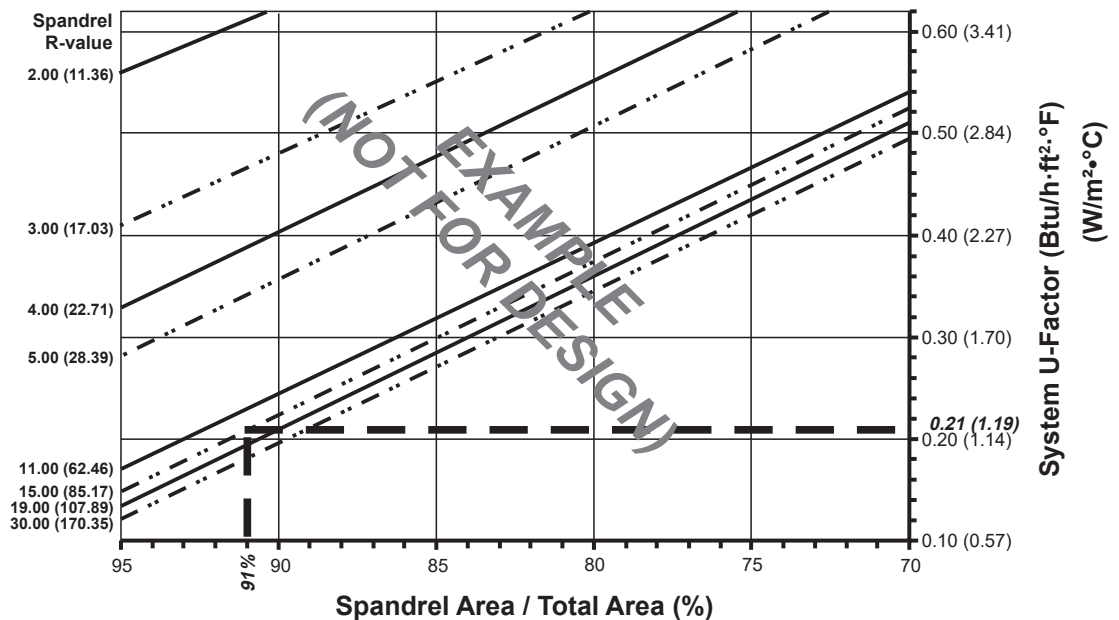
System U-factor vs Percent of Vision Area



Based on a single curtain wall bay of 93% vision glass and center of glass U-factor of 0.48, System U-factor is equal to 0.53 Btu/(h·ft²·°F)

Spandrel Area Chart

System U-factor vs Percent of Spandrel Area



Based on a single curtain wall bay of 91% spandrel and center of spandrel R-value of 15, system U-factor is equal to 0.21 Btu/(h·ft²·°F)

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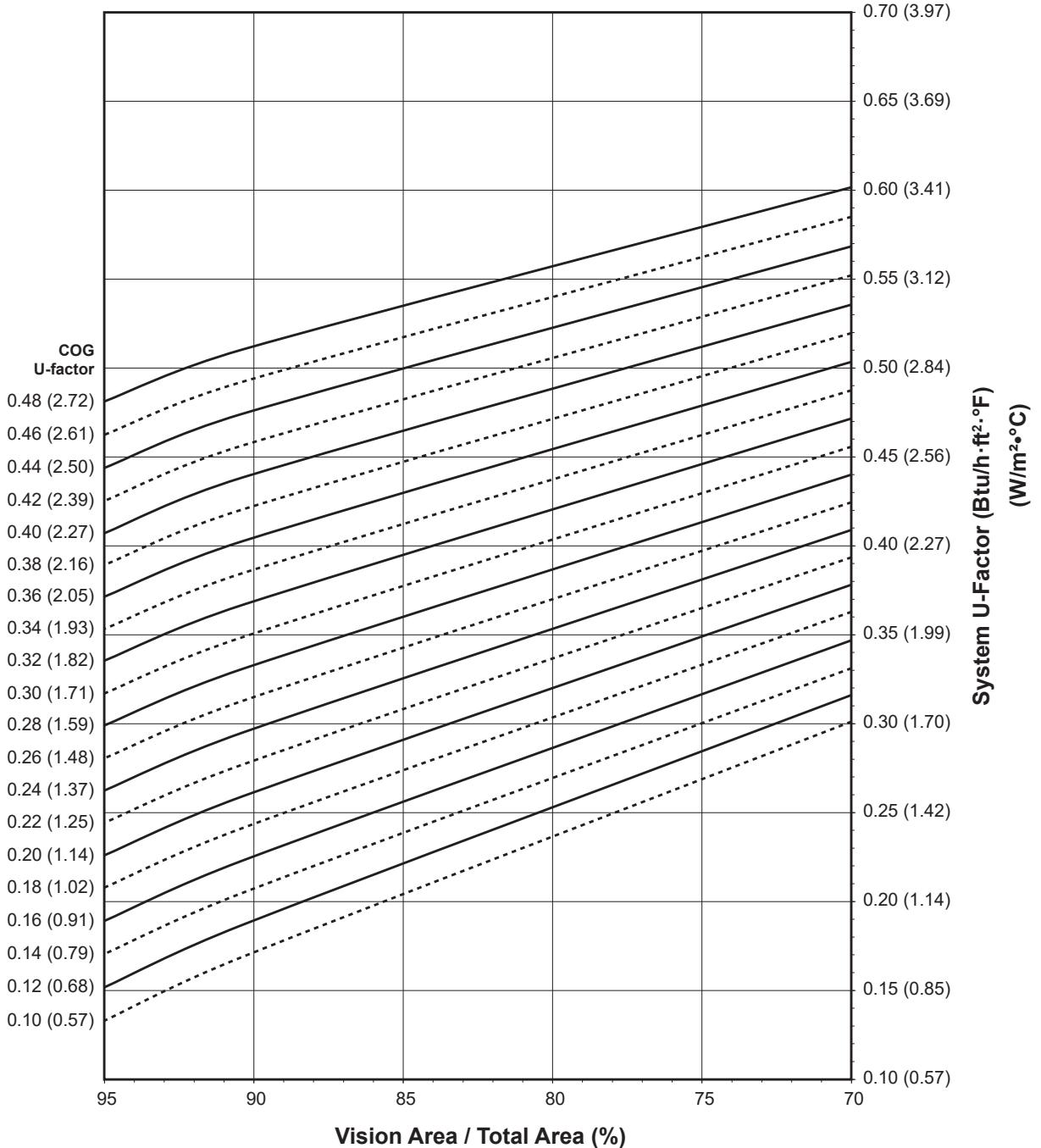
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**Aluminum Pressure Plate
1" Double Glazed - Warm-Edge Glazing Spacer**

Note:

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

System U-Factor for Vision Glass



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

For glass values that are not listed, linear interpolation is permitted.
Glass properties are based on center of glass values (winter conditions) and are obtained from your glass supplier.

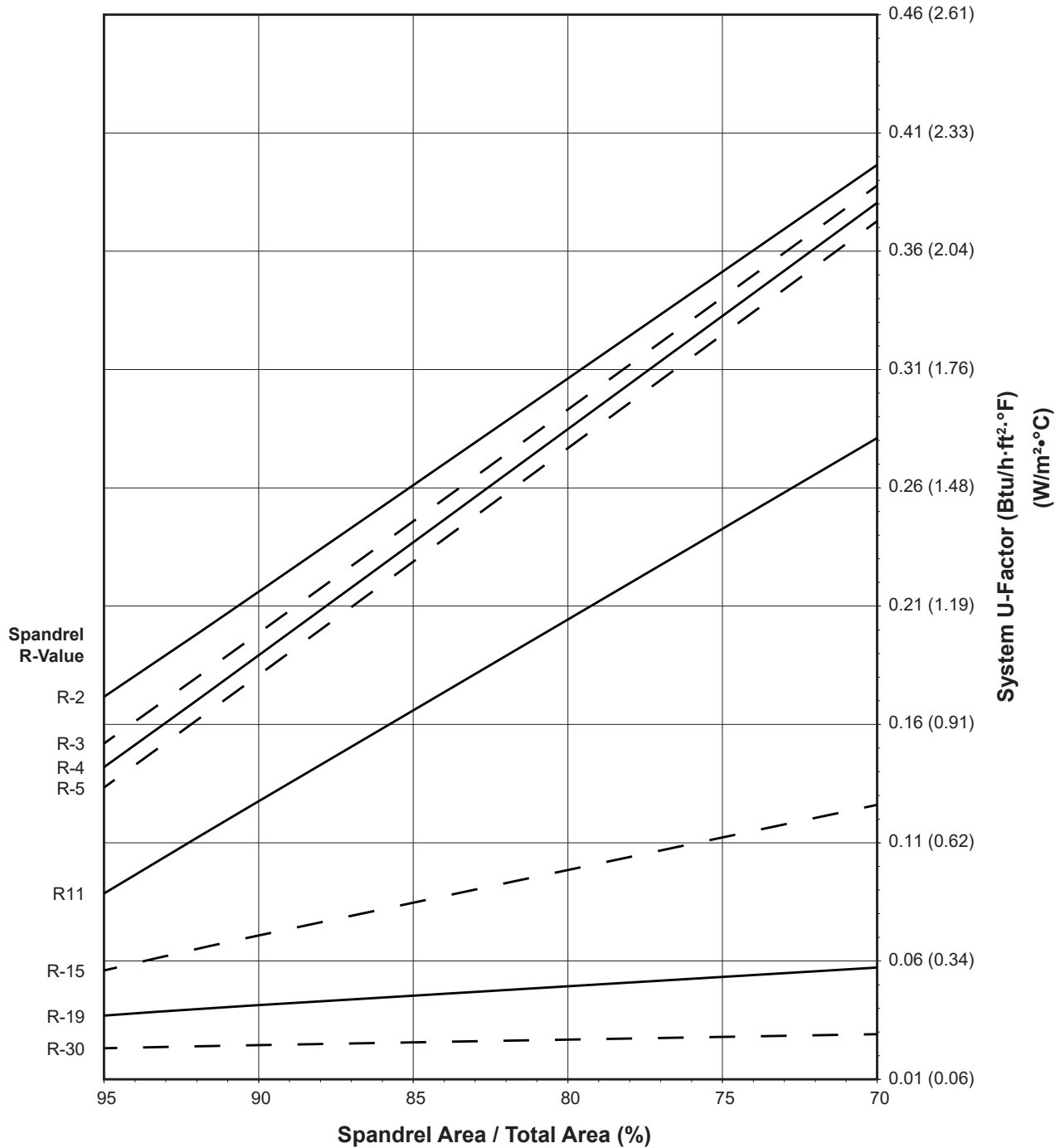
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**Aluminum Pressure Plate
1" Double Glazed - Warm-Edge Glazing Spacer**

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

System U-Factor for Spandrel Glass



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

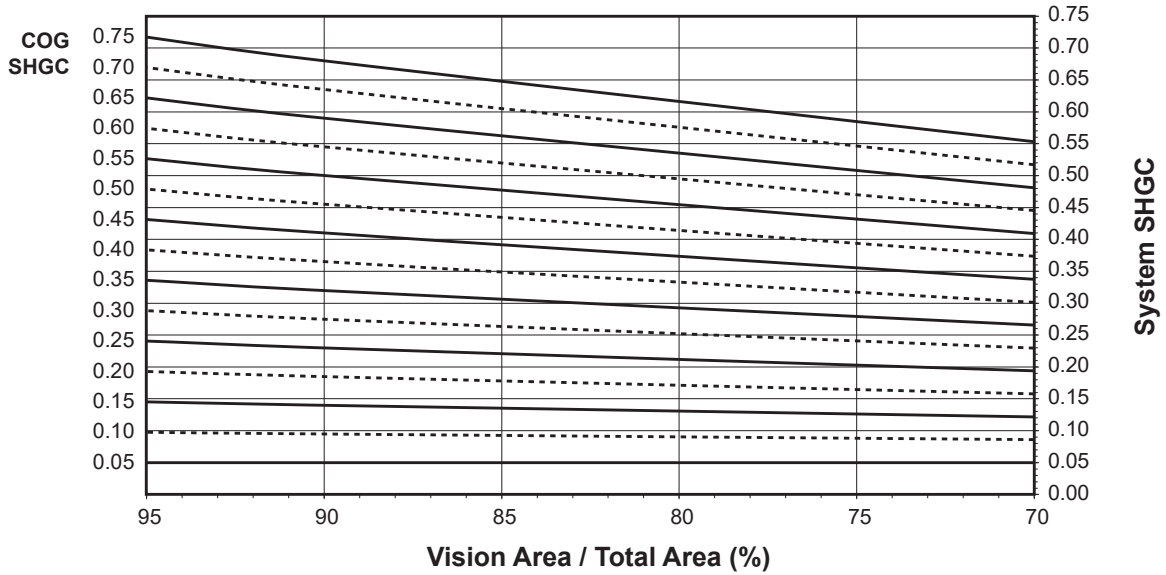
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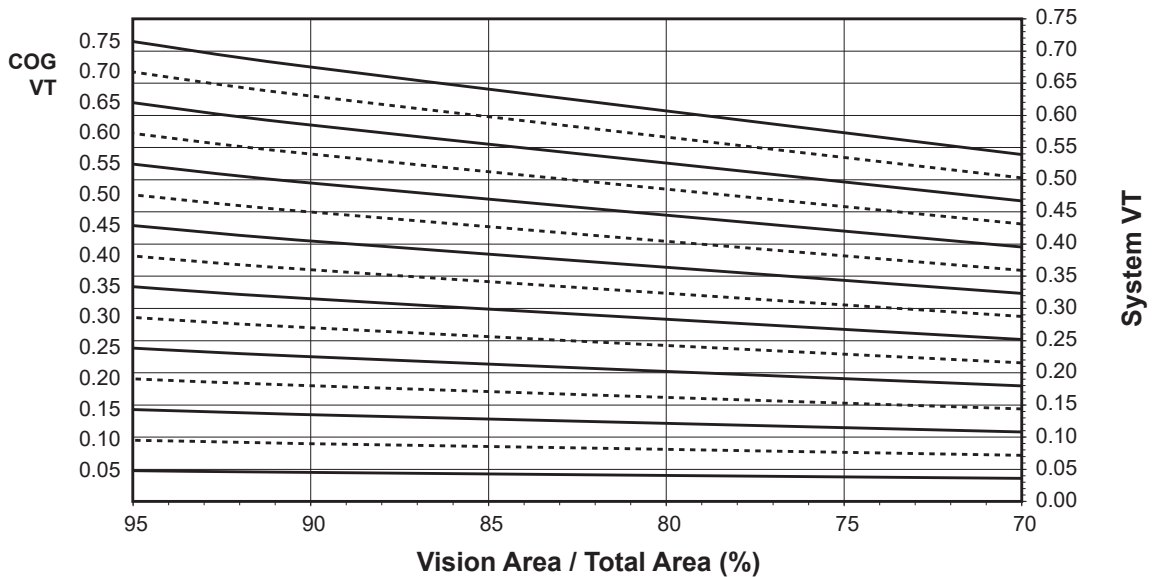
Aluminum Pressure Plate
1" Double Glazed - Warm-Edge Glazing Spacer

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



Charts are generated per AAMA 507.

System Visible Transmittance (VT) vs Percent of Vision Area



Charts are generated per AAMA 507.

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Thermal Transmittance¹ (BTU/hr • ft² • °F)

Glass U-Factor ³	Overall U-Factor ⁴
0.48	0.51
0.46	0.49
0.44	0.47
0.42	0.46
0.40	0.44
0.38	0.42
0.36	0.40
0.34	0.38
0.32	0.37
0.30	0.35
0.28	0.33
0.26	0.31
0.24	0.29
0.22	0.28
0.20	0.26
0.18	0.24
0.16	0.22
0.14	0.21
0.12	0.19
0.10	0.17

**Aluminum Pressure Plate
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 Matrix²

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	0.05

Visible Transmittance²

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

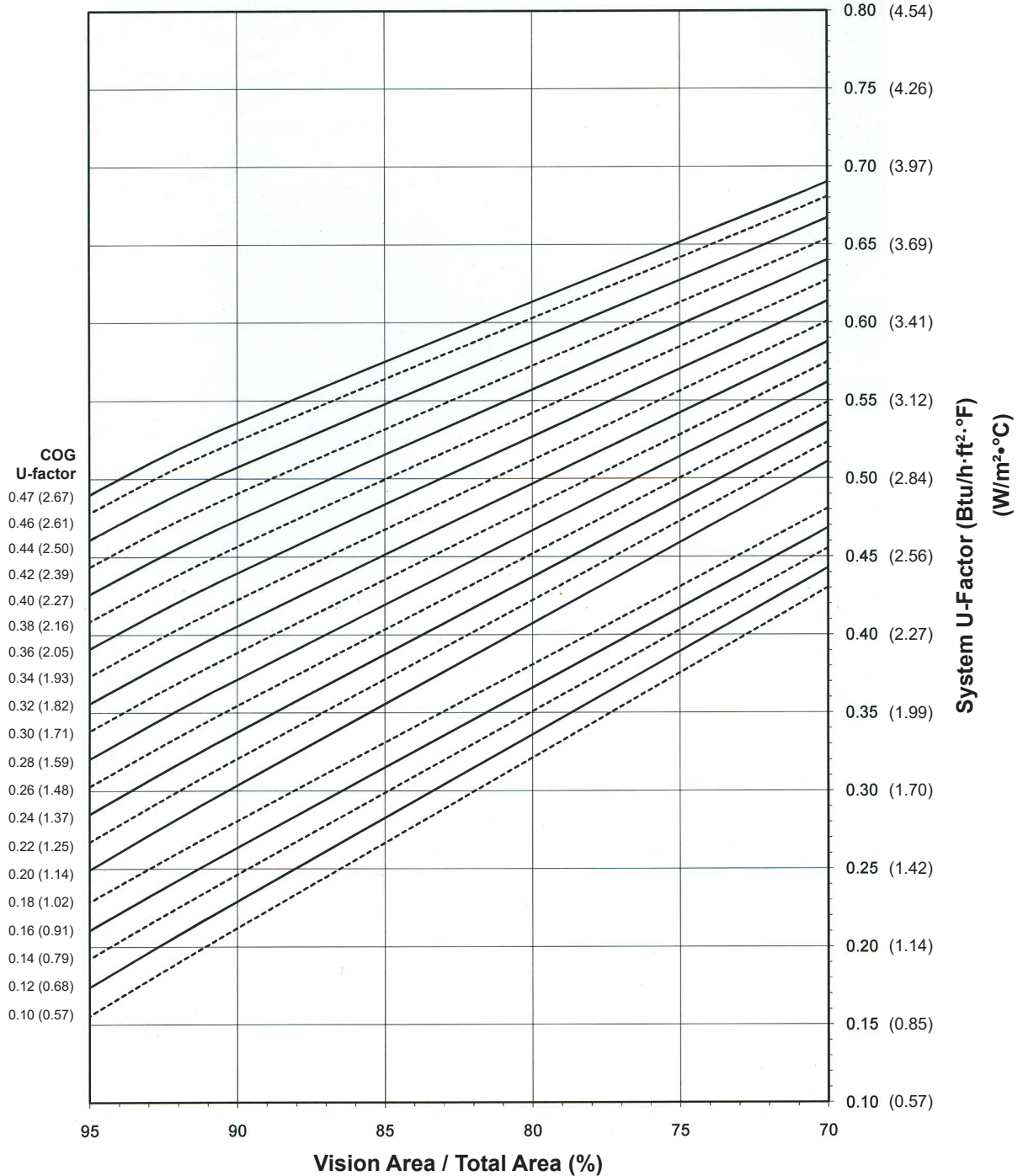
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Aluminum Pressure Plate 1" Double Glazed - Aluminum Glazing Spacer

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

System U-Factor for Vision Glass



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

For glass values that are not listed, linear interpolation is permitted.
Glass properties are based on center of glass values (winter conditions) and are obtained from your glass supplier.

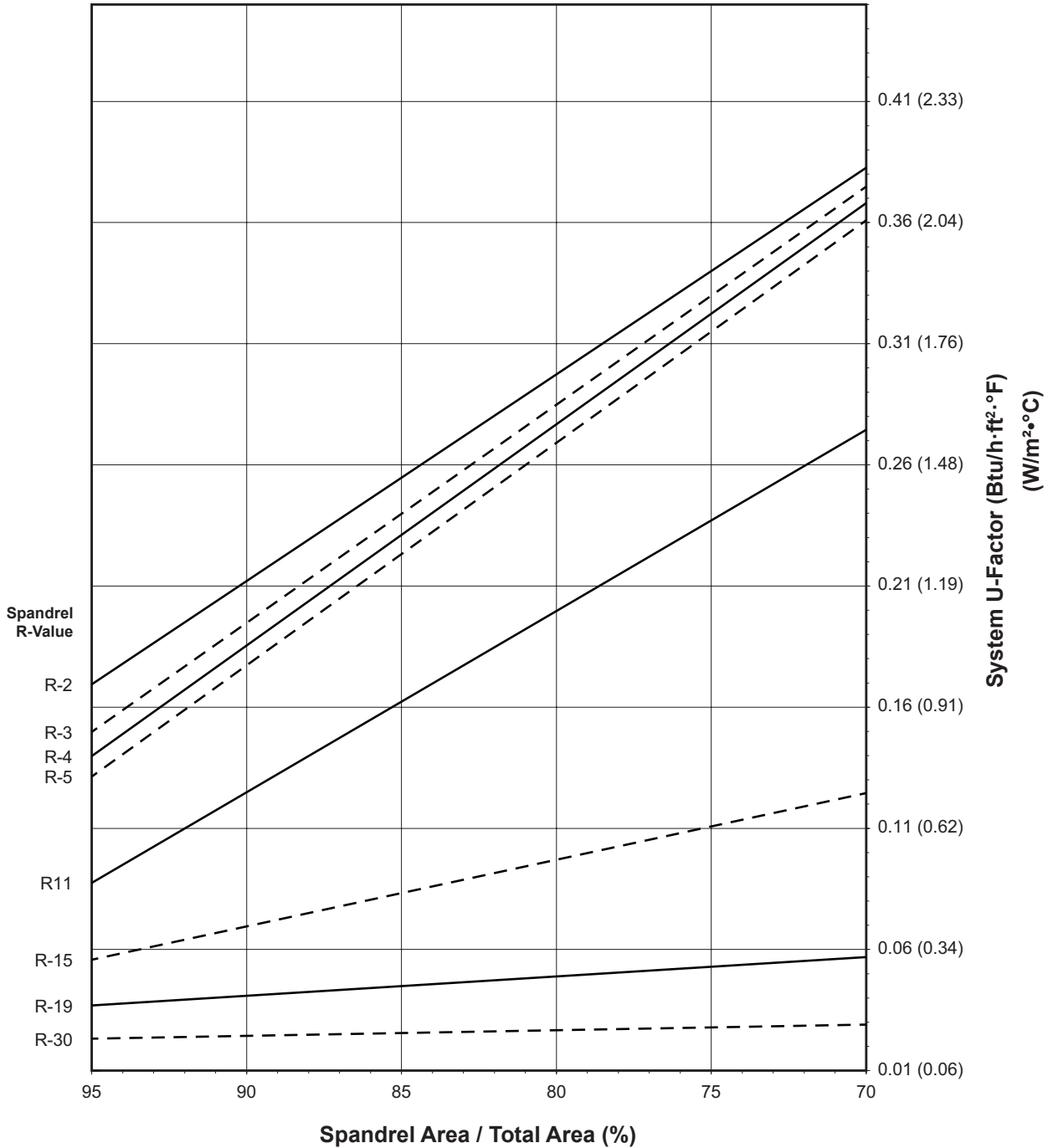
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**Aluminum Pressure Plate
1" Double Glazed - Aluminum Glazing Spacer**

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

System U-Factor for Spandrel Glass



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

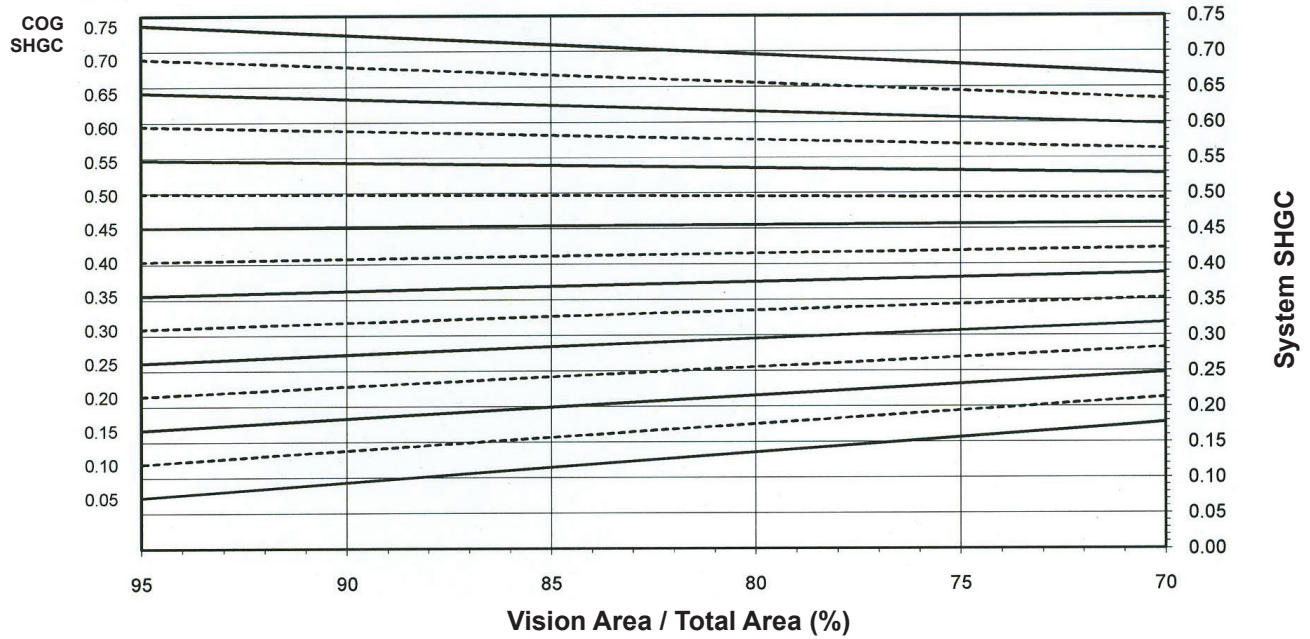
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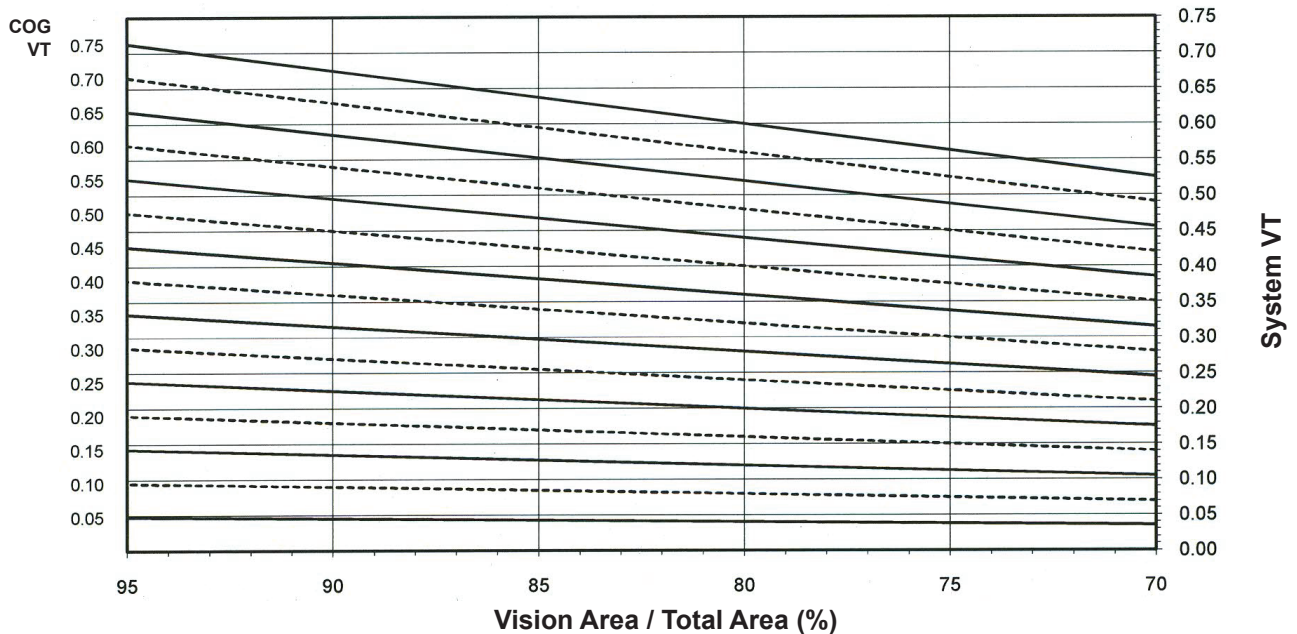
Aluminum Pressure Plate
1" Double Glazed - Aluminum Glazing Spacer

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



Charts are generated per AAMA 507.

System Visible Transmittance (VT) vs Percent of Vision Area



Charts are generated per AAMA 507.

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Thermal Transmittance¹ (BTU/hr • ft² • °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

**Aluminum Pressure Plate
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 Matrix²

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 Transmittance²

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

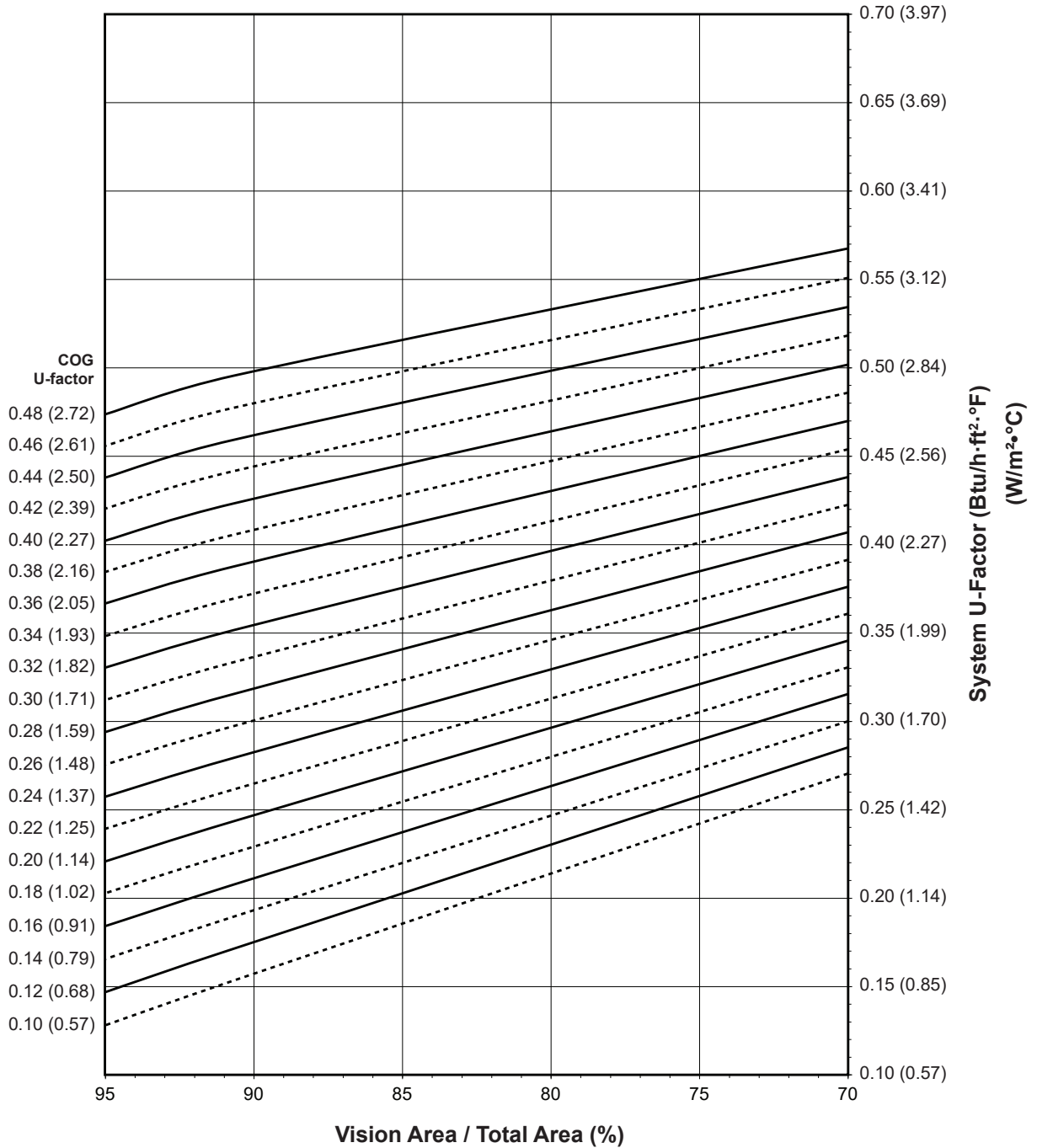
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**Fiberglass Pressure Plate
1" Double Glazed - Warm-Edge Glazing Spacer**

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

System U-Factor for Vision Glass



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

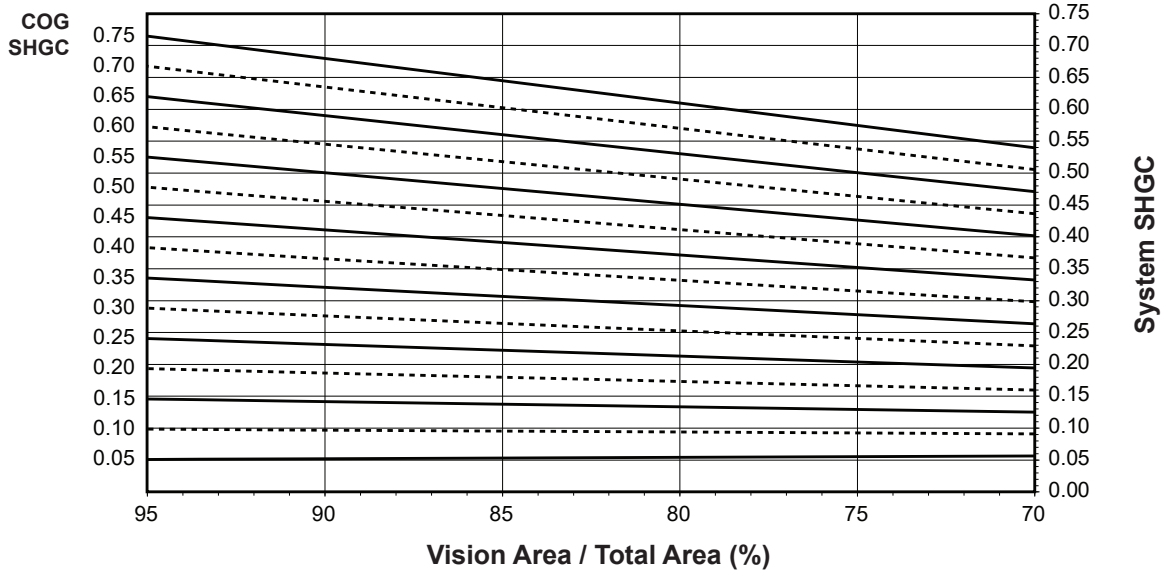
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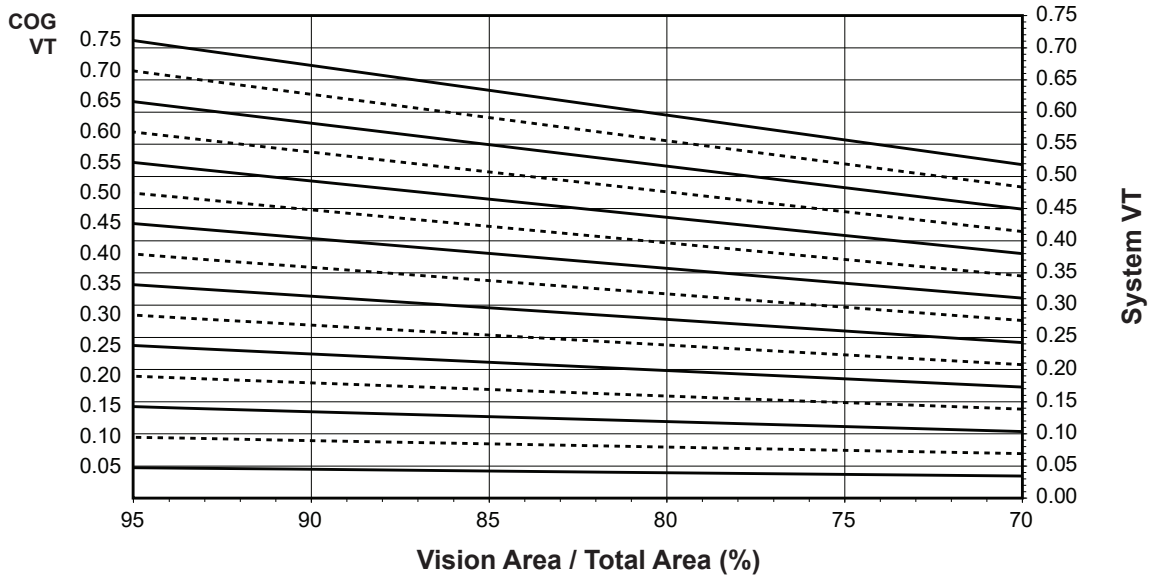
Fiberglass Pressure Plate 1" Double Glazed - Warm-Edge Glazing Spacer

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



Charts are generated per AAMA 507.

System Visible Transmittance (VT) vs Percent of Vision Area



Charts are generated per AAMA 507.

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

Glass U-Factor ³	Overall U-Factor ⁴
0.48	0.50
0.46	0.48
0.44	0.46
0.42	0.44
0.40	0.42
0.38	0.41
0.36	0.39
0.34	0.37
0.32	0.35
0.30	0.33
0.28	0.32
0.26	0.30
0.24	0.28
0.22	0.26
0.20	0.24
0.18	0.23
0.16	0.21
0.14	0.19
0.12	0.17
0.10	0.15

**Fiberglass Pressure Plate
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	0.23
0.20	0.19
0.15	0.14
0.10	0.10
0.05	0.05

Visible Transmittance ²

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

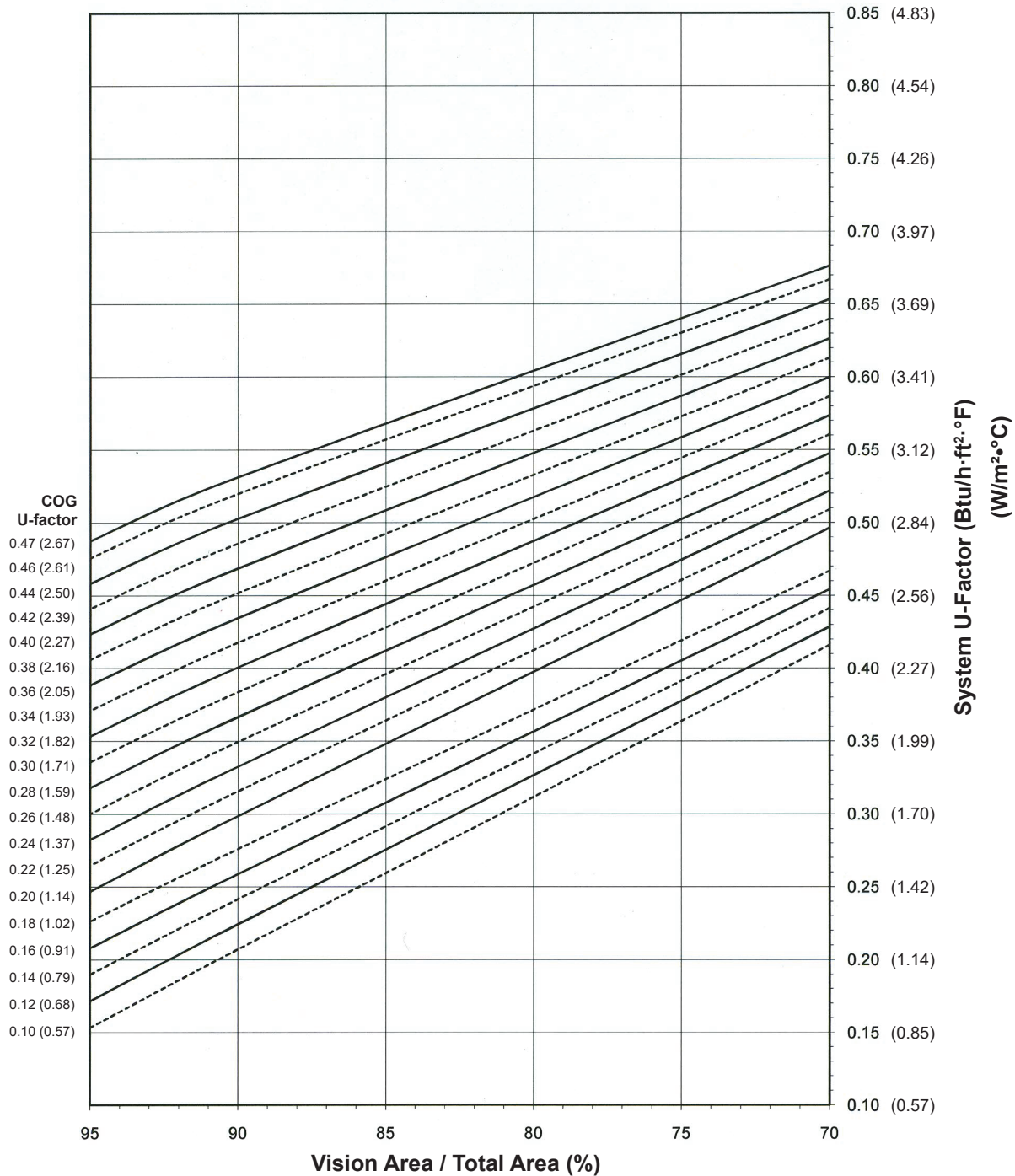
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Fiberglass Pressure Plate
1" Double Glazed - Aluminum Glazing Spacer

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

System U-Factor for Vision Glass



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

For glass values that are not listed, linear interpolation is permitted.
Glass properties are based on center of glass values (winter conditions) and are obtained from your glass supplier.

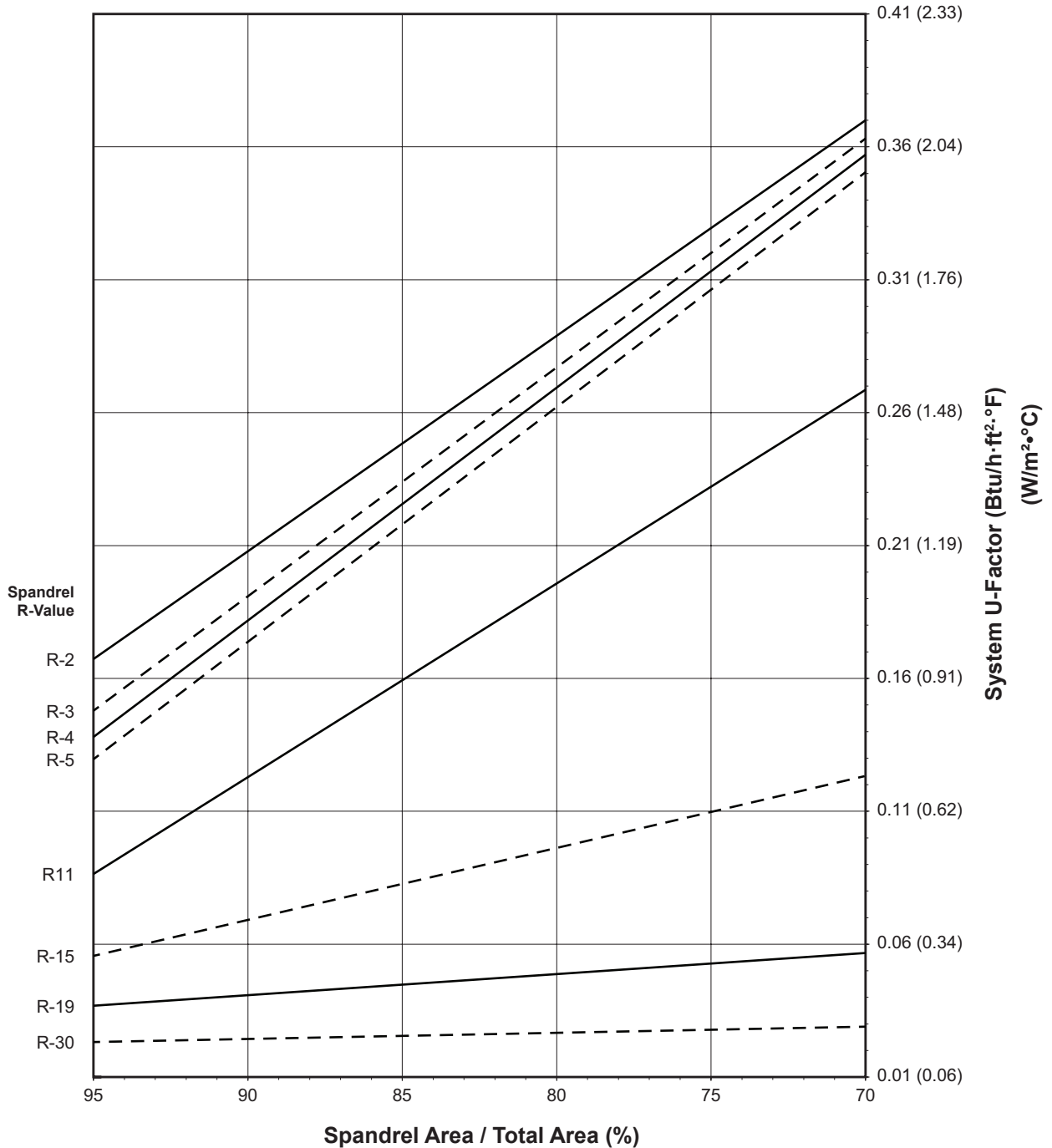
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**Fiberglass Pressure Plate
1" Double Glazed - Aluminum Glazing Spacer**

Note:
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Charts are generated per AAMA 507.

System U-Factor for Spandrel Glass



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

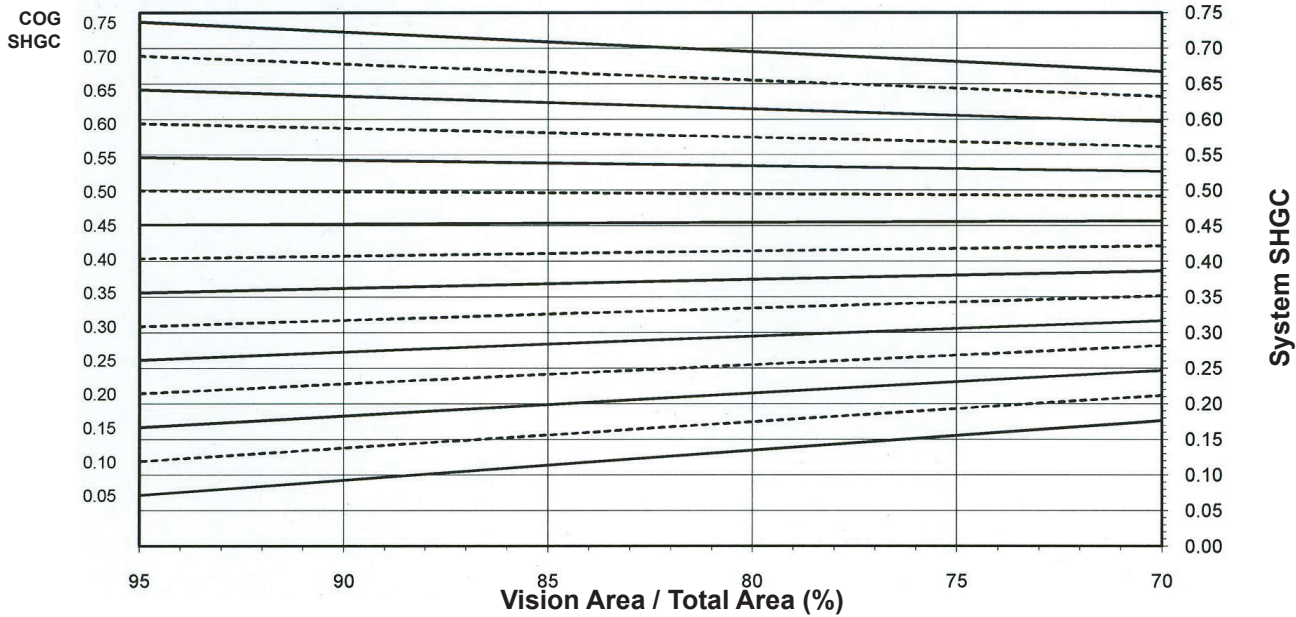
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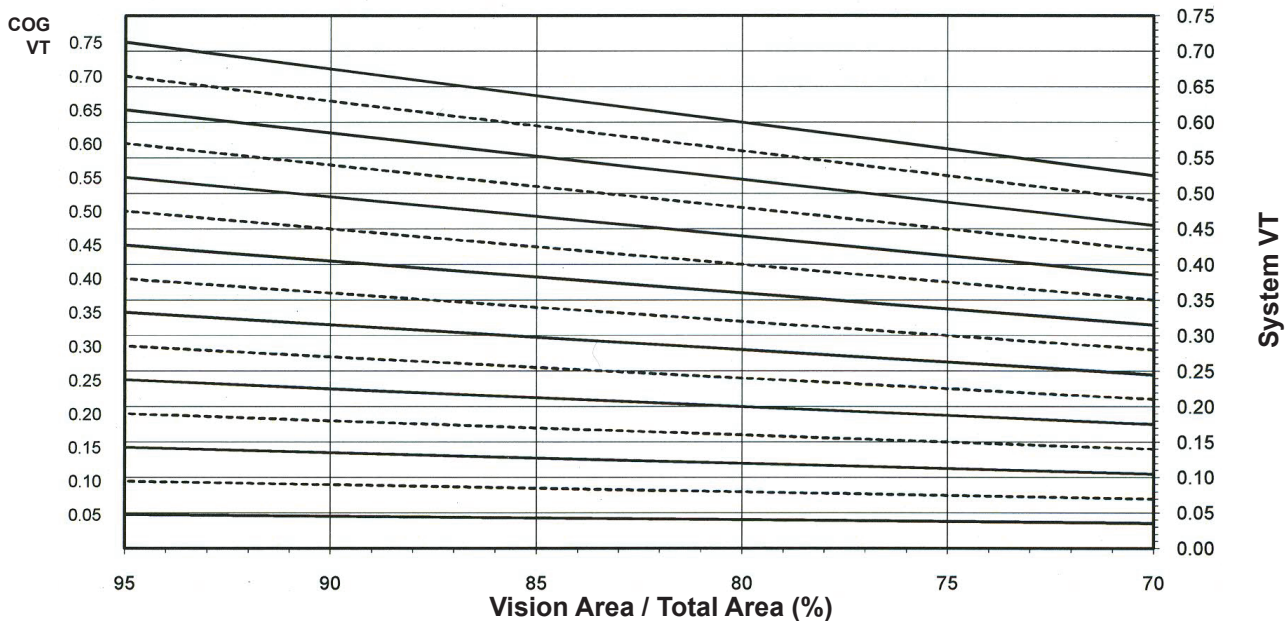
Fiberglass Pressure Plate 1" Double Glazed - Aluminum Glazing Spacer

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



Charts are generated per AAMA 507.

System Visible Transmittance (VT) vs Percent of Vision Area



Charts are generated per AAMA 507.

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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

**Fiberglass Pressure Plate
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	0.72
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

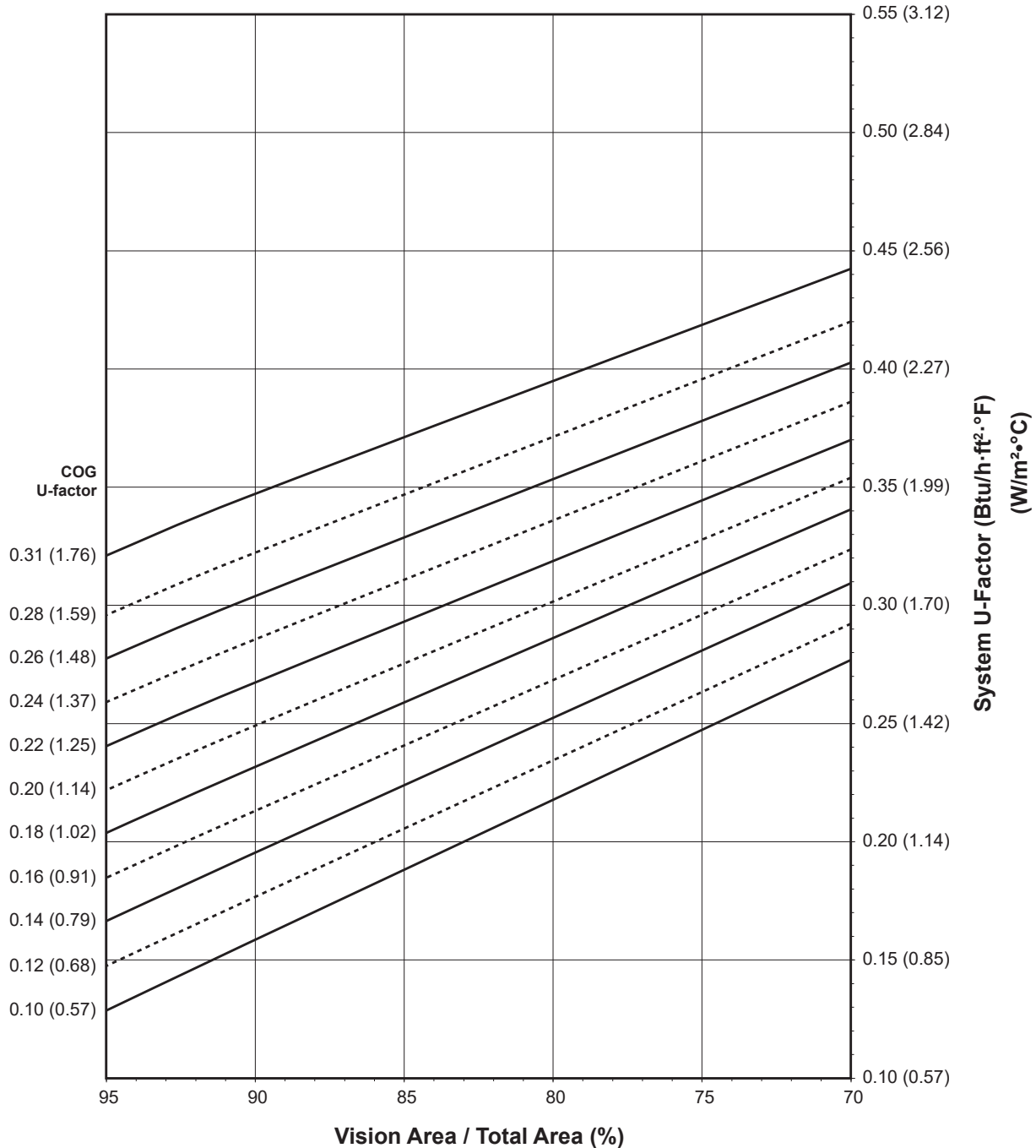
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**Aluminum Pressure Plate
1-3/4" Triple Glazed - Warm-Edge Glazing Spacer**

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

System U-Factor for Vision Glass



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

For glass values that are not listed, linear interpolation is permitted.
Glass properties are based on center of glass values (winter conditions) and are obtained from your glass supplier.

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

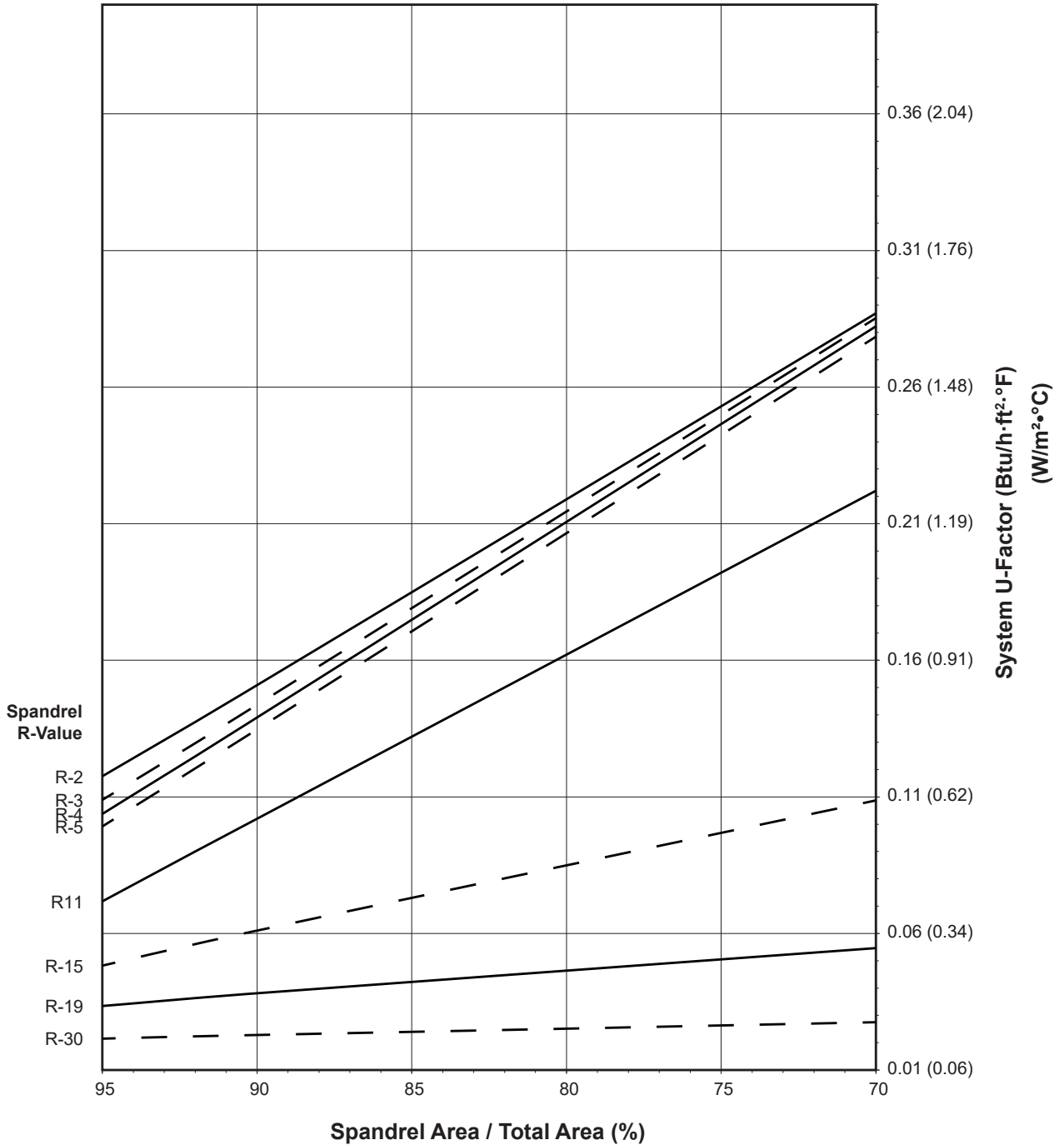
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**Aluminum Pressure Plate
1-3/4" Triple Glazed - Warm-Edge Glazing Spacer**

Note:

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

System U-Factor for Spandrel Glass



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

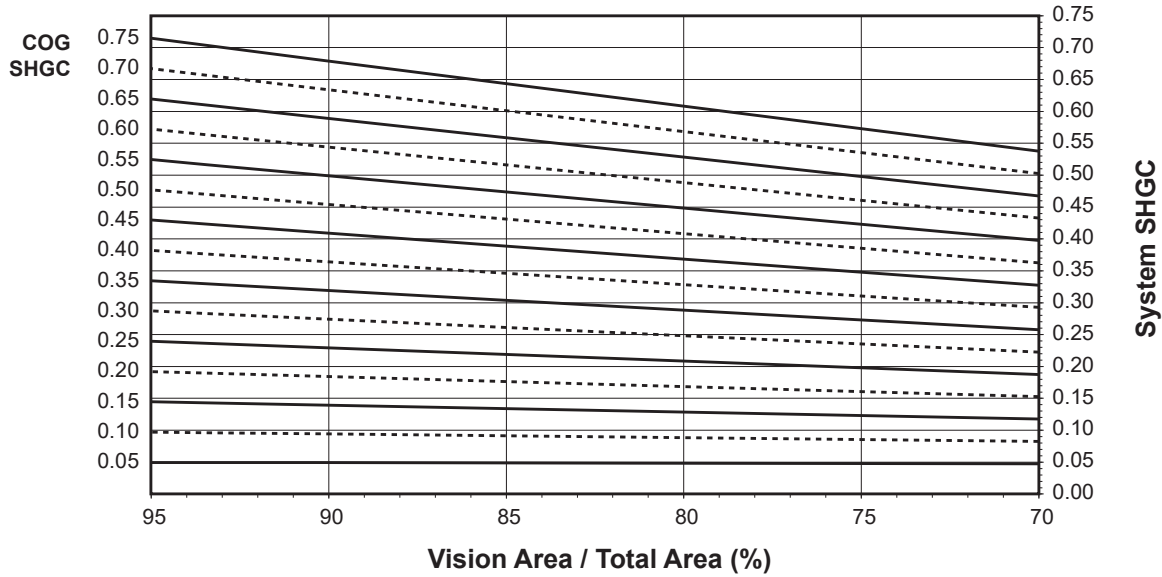
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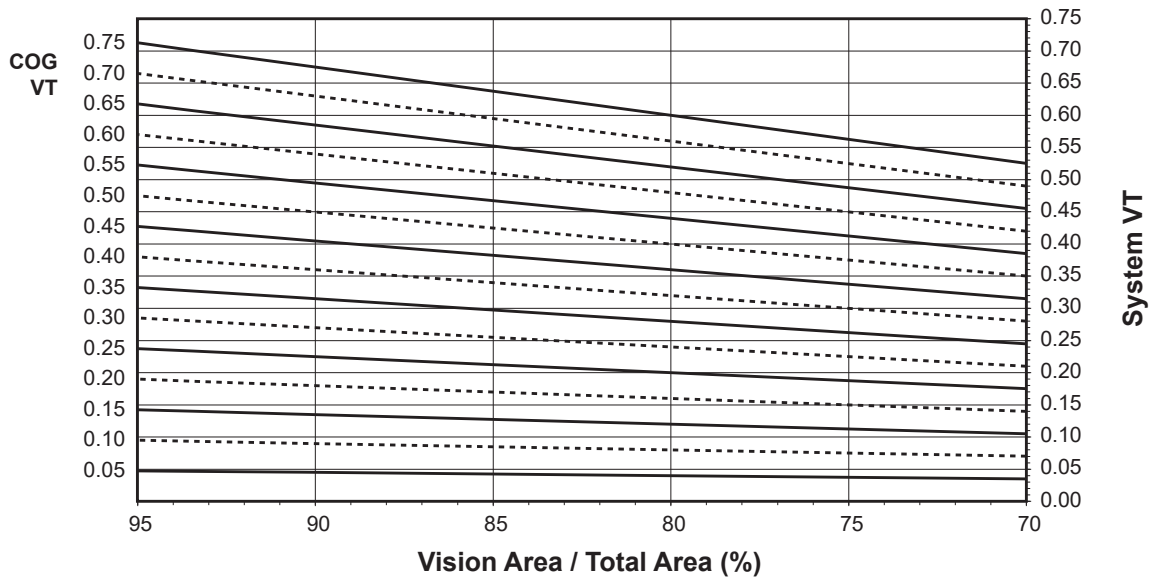
**Aluminum Pressure Plate
1-3/4" Triple Glazed - Warm-Edge Glazing Spacer**

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



Charts are generated per AAMA 507.

System Visible Transmittance (VT) vs Percent of Vision Area



Charts are generated per AAMA 507.

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

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

Glass U-Factor ³	Overall U-Factor ⁴
0.31	0.35
0.28	0.32
0.26	0.30
0.24	0.28
0.22	0.27
0.20	0.25
0.18	0.23
0.16	0.21
0.14	0.19
0.12	0.17
0.10	0.16

**Aluminum Pressure Plate
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	0.18
0.15	0.14
0.10	0.09
0.05	0.05

Visible Transmittance ²

Glass VT ³	Overall VT ⁴
0.75	0.68
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

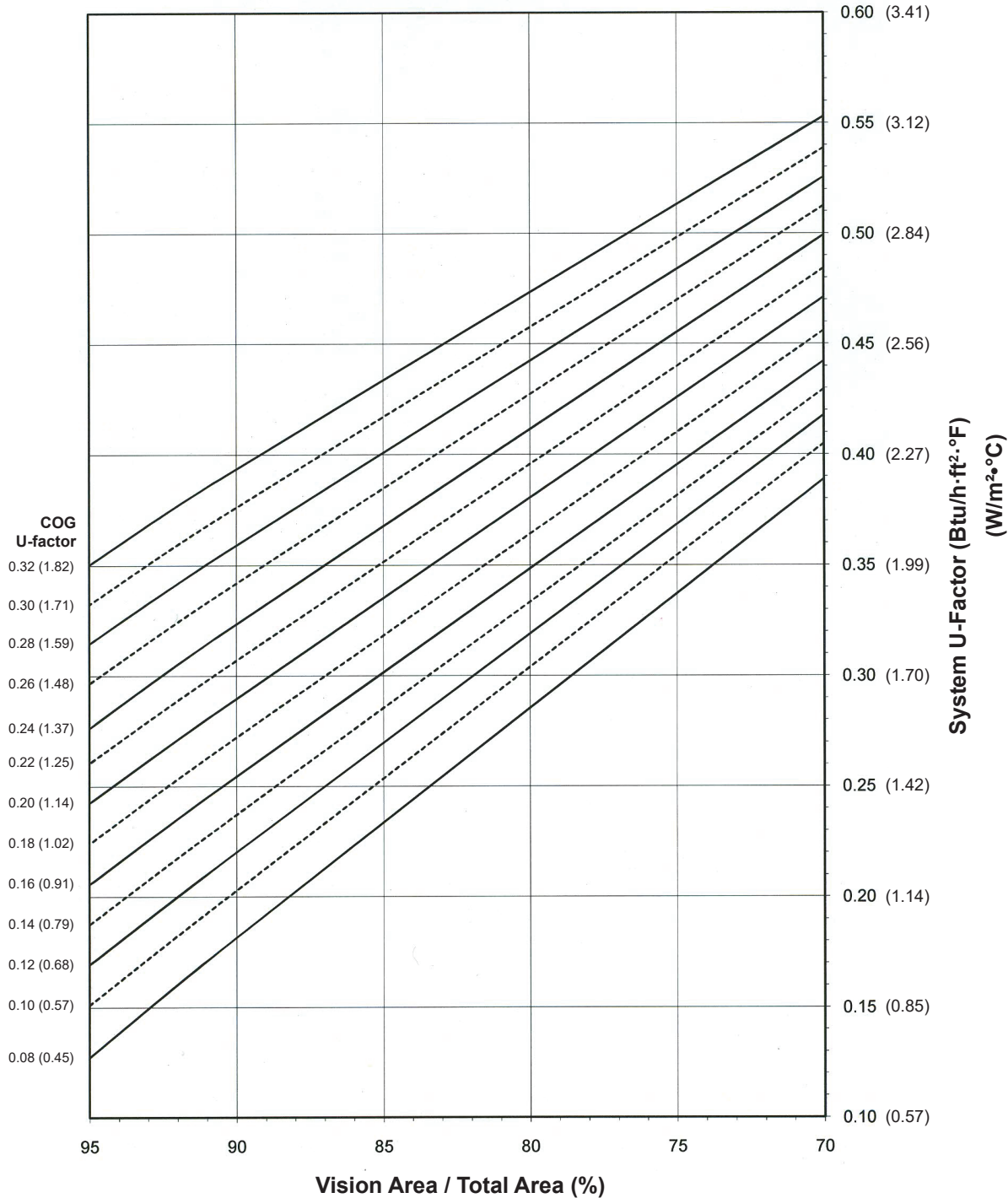
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**Aluminum Pressure Plate
1-3/4" Triple Glazed - Aluminum Glazing Spacer**

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

System U-Factor for Vision Glass



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

For glass values that are not listed, linear interpolation is permitted.
Glass properties are based on center of glass values (winter conditions) and are obtained from your glass supplier.

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

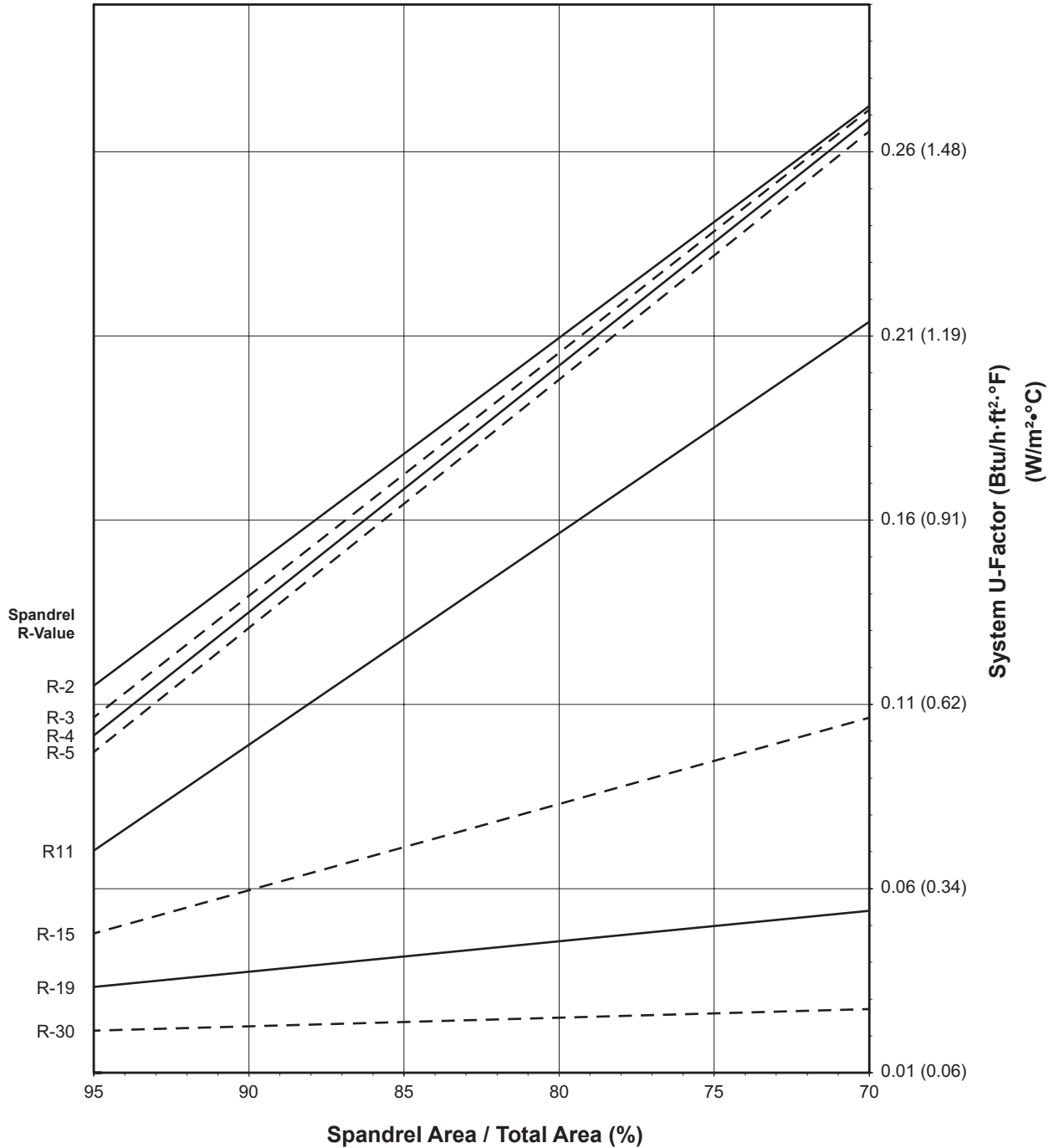
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**Aluminum Pressure Plate
1-3/4" Triple Glazed - Aluminum Glazing Spacer**

Note:

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

System U-Factor for Spandrel Glass



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

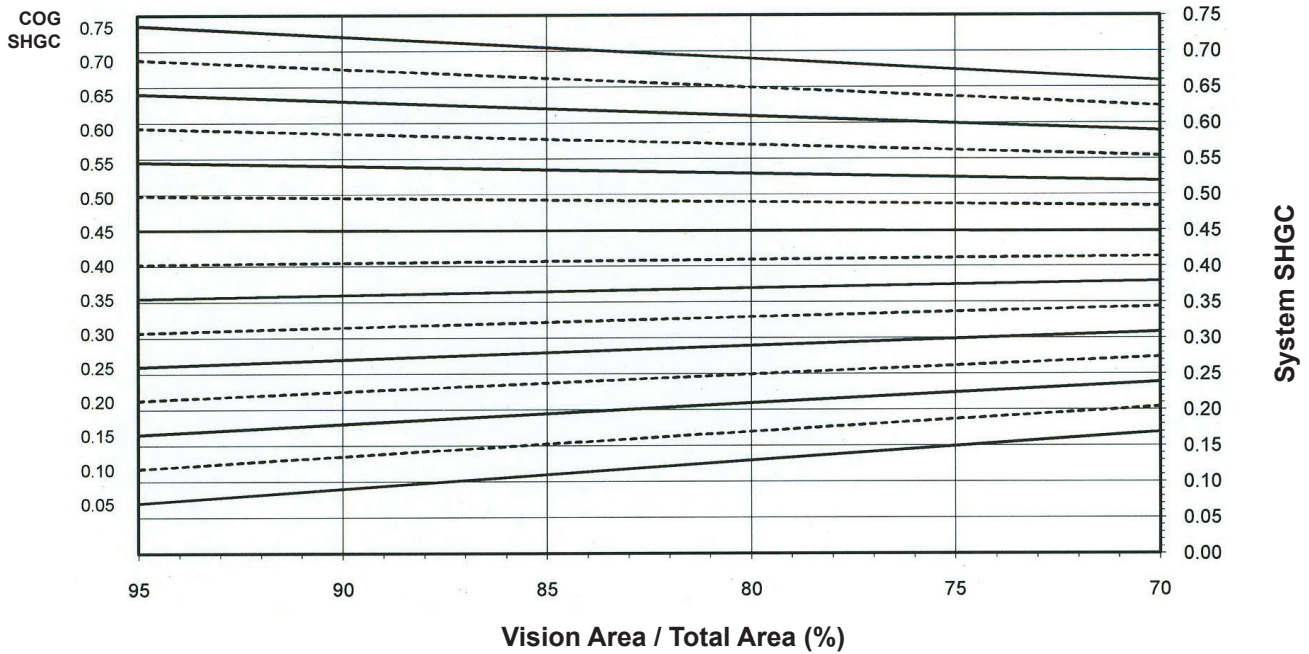
For glass values that are not listed, linear interpolation is permitted.
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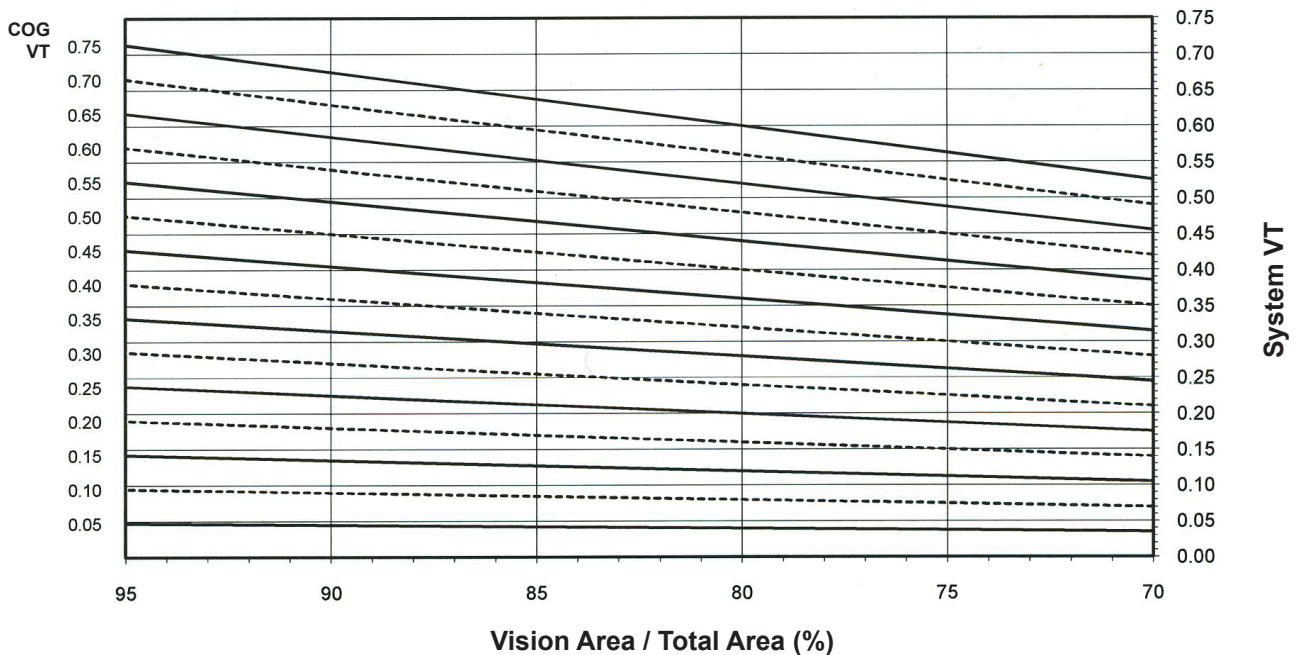
**Aluminum Pressure Plate
1-3/4" Triple Glazed - Aluminum Glazing Spacer**

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



Charts are generated per AAMA 507.

System Visible Transmittance (VT) vs Percent of Vision Area



Charts are generated per AAMA 507.

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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

**Aluminum Pressure Plate
1-3/4" Triple 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	0.64
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

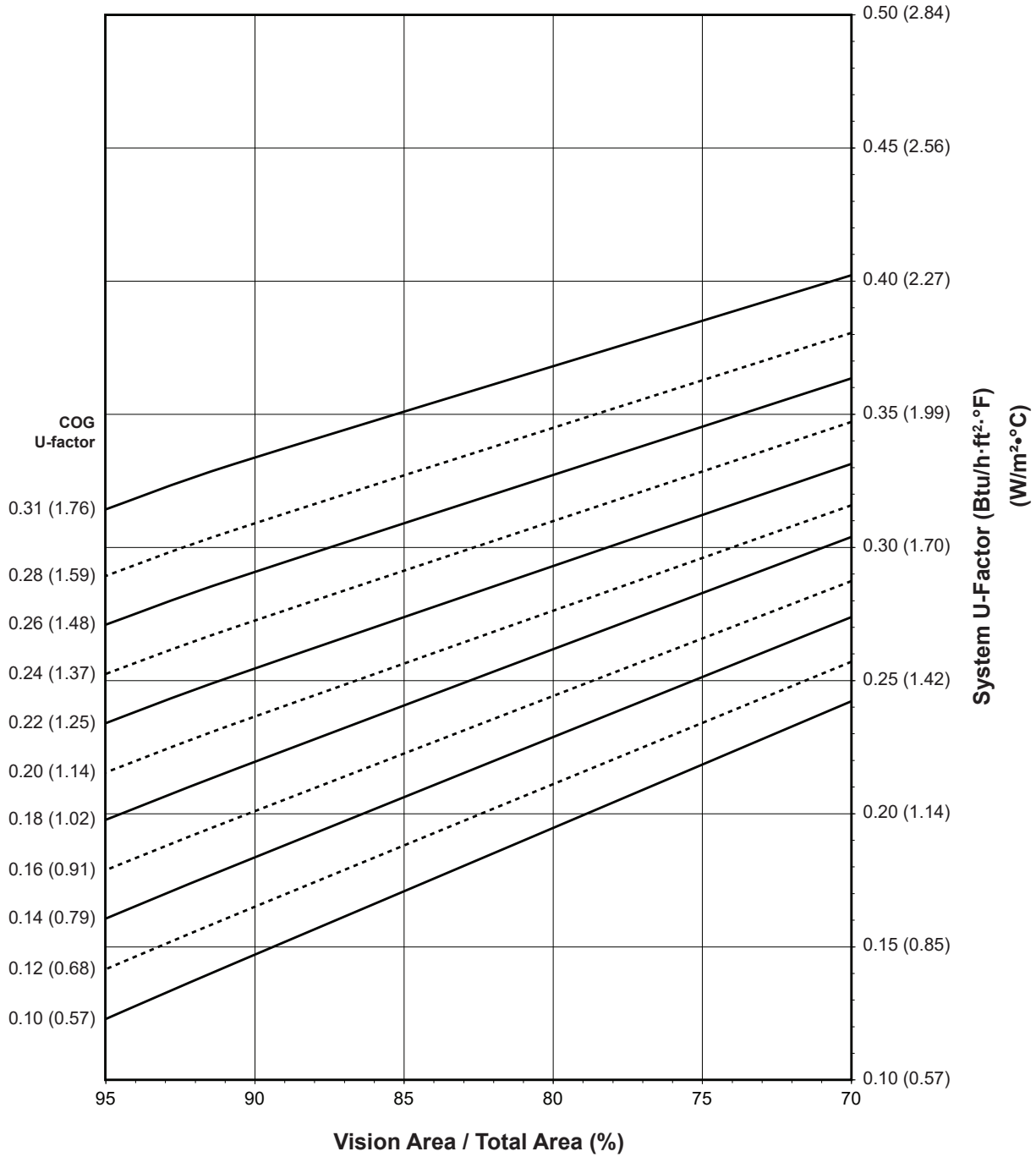
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Fiberglass Pressure Plate
1-3/4" Triple Glazed - Warm-Edge Glazing Spacer

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

System U-Factor for Vision Glass



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

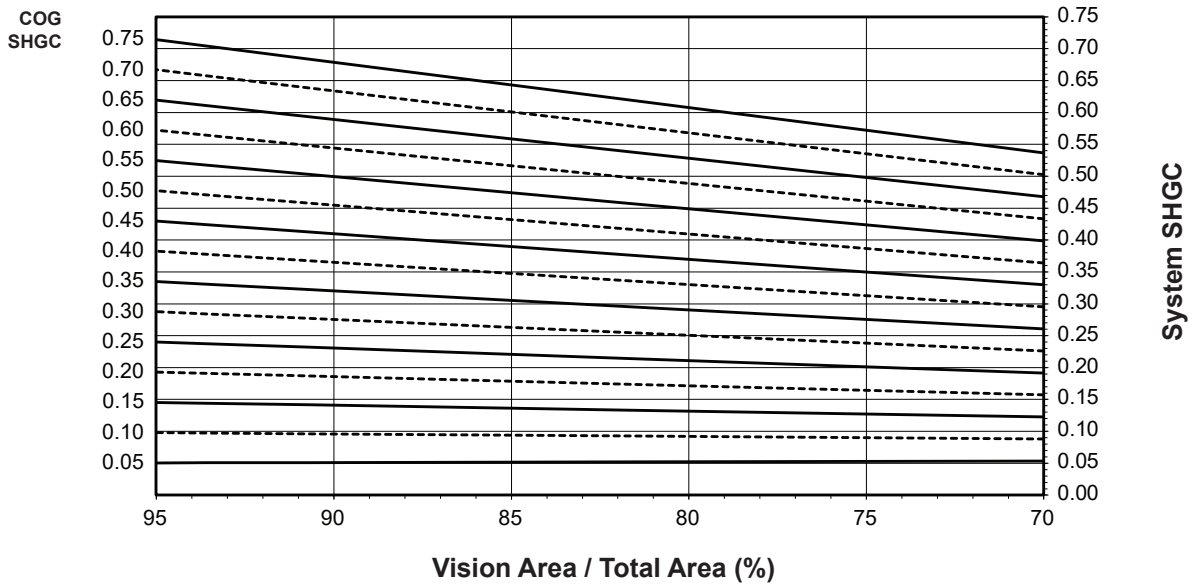
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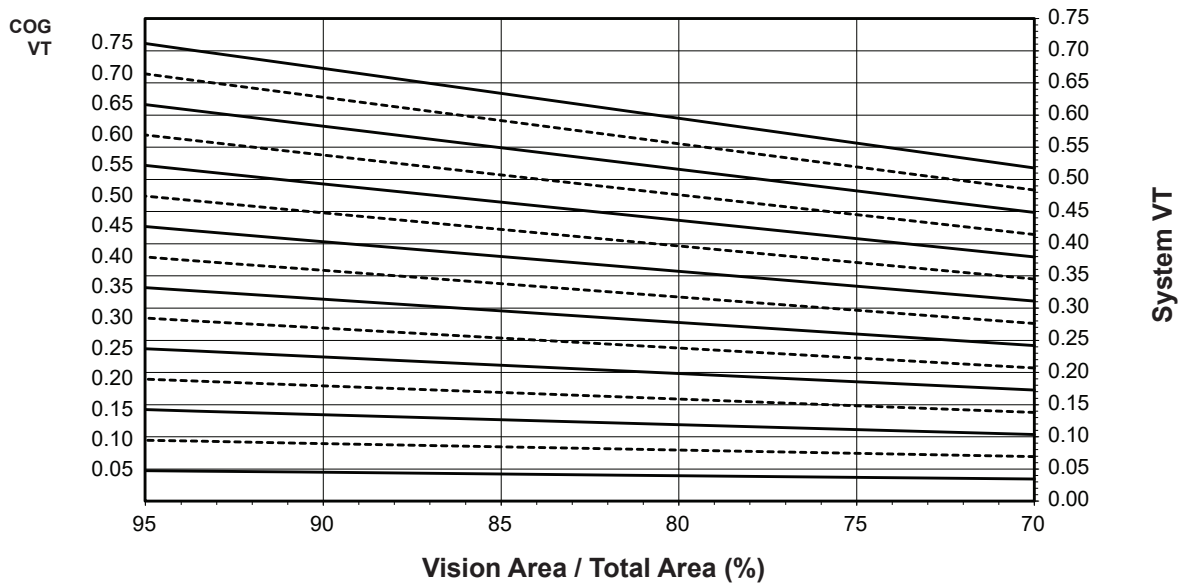
Fiberglass Pressure Plate
1-3/4" Triple Glazed - Warm-Edge Glazing Spacer

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



Charts are generated per AAMA 507.

System Visible Transmittance (VT) vs Percent of Vision Area



Charts are generated per AAMA 507.

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Thermal Transmittance¹ (BTU/hr • ft² • °F)

Glass U-Factor ³	Overall U-Factor ⁴
0.31	0.33
0.28	0.31
0.26	0.29
0.24	0.27
0.22	0.25
0.20	0.23
0.18	0.22
0.16	0.20
0.14	0.18
0.12	0.16
0.10	0.14

**Fiberglass Pressure Plate
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.
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SHGC Matrix²

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	0.05

Visible Transmittance²

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

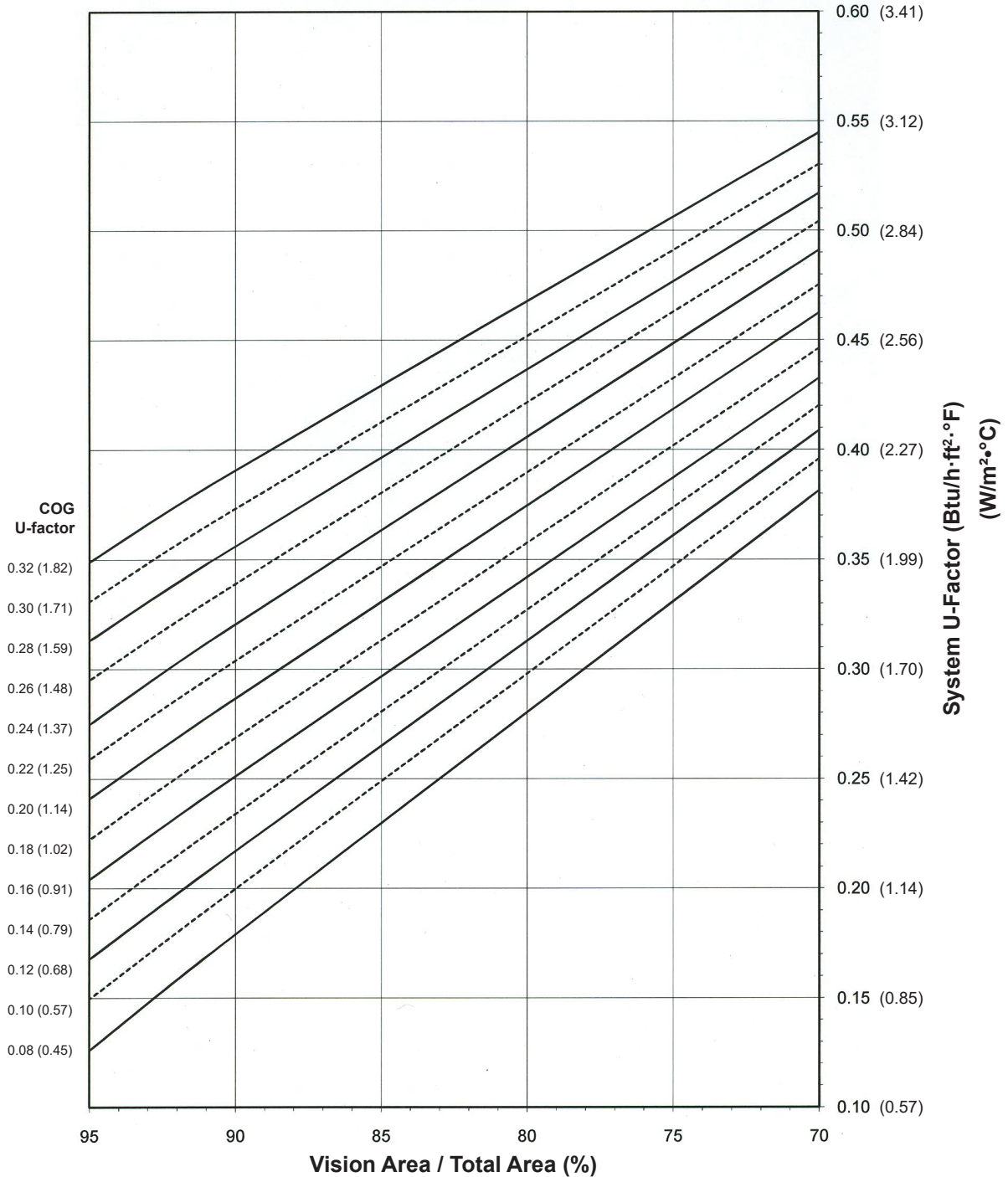
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**Fiberglass Pressure Plate
1-3/4" Triple Glazed - Aluminum Glazing Spacer**

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

System U-Factor for Vision Glass



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

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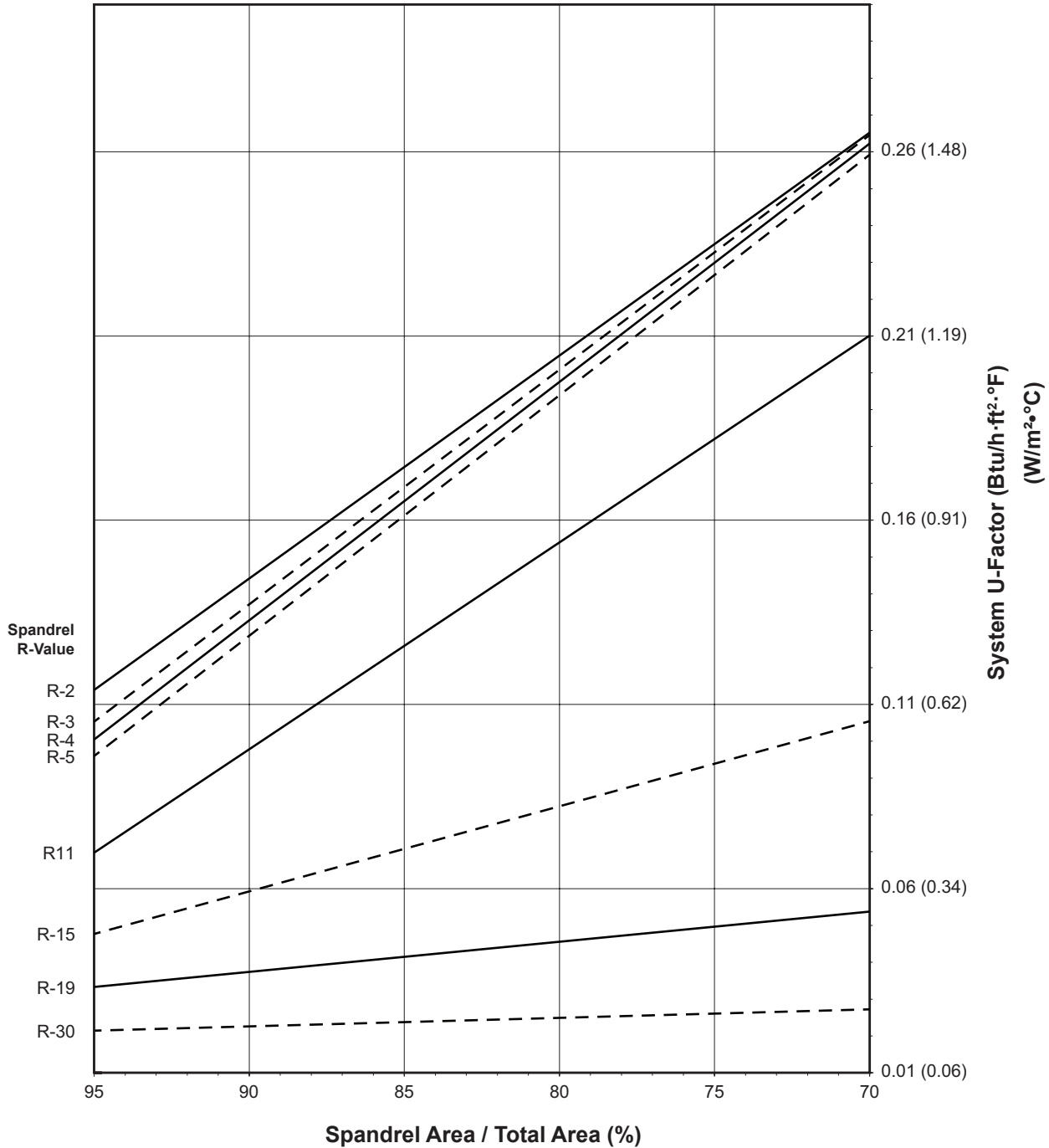
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Fiberglass Pressure Plate
1-3/4" Triple Glazed - Aluminum Glazing Spacer

Note:
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COG=Center of Glass.
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System U-Factor for Spandrel Glass



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

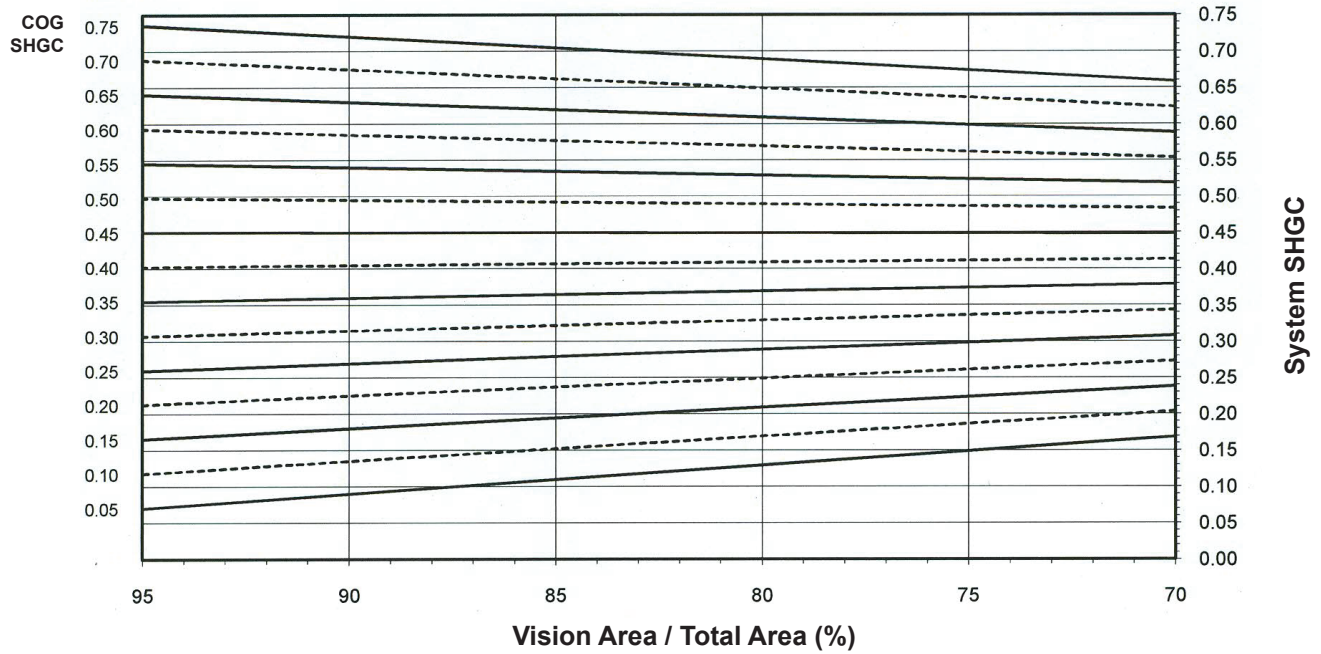
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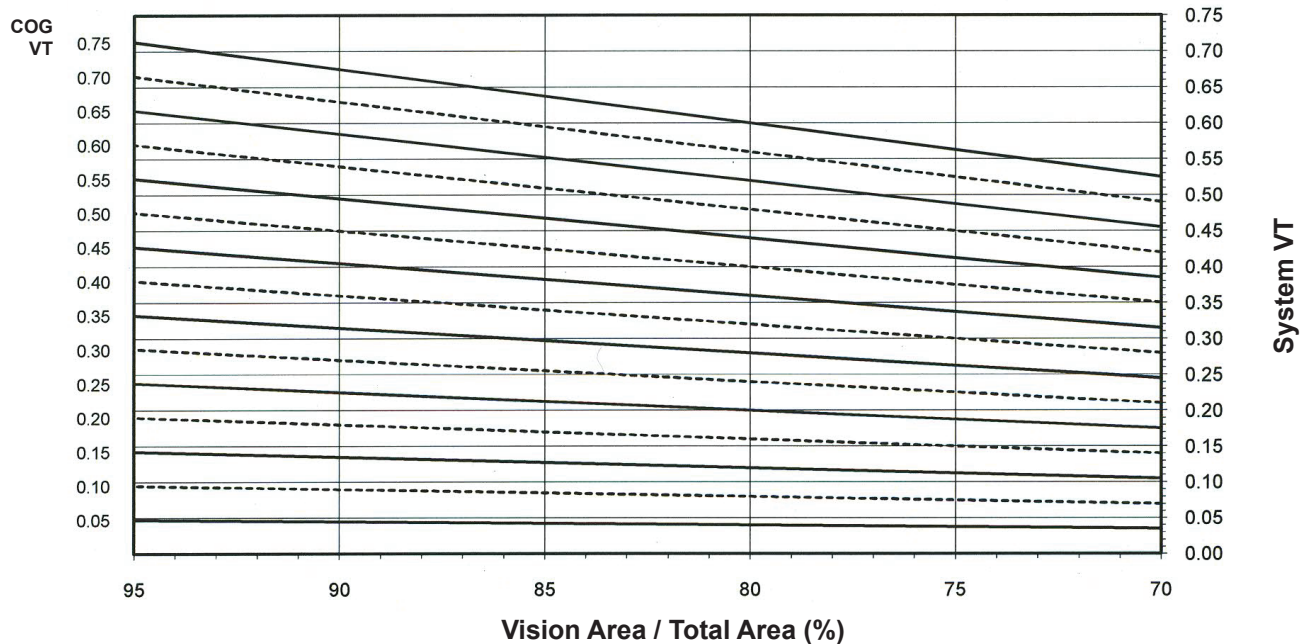
Fiberglass Pressure Plate
1-3/4" Triple Glazed - Aluminum Glazing Spacer

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



Charts are generated per AAMA 507.

System Visible Transmittance (VT) vs Percent of Vision Area



Charts are generated per AAMA 507.

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Thermal Transmittance ¹ (BTU/hr • ft² • °F)

Glass U-Factor ³	Overall U-Factor ⁴
0.32	0.39
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0.28	0.35
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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

**Fiberglass Pressure Plate
1-3/4" Triple Glazed
Aluminum Glazing Spacer**

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

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SHGC Matrix ²

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0.70	0.64
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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

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